

*Providing preemptive protection against Internet threats  
from a single appliance*



## **IBM Proventia Network Multi-Function Security – MX3006 and MX5010**

### **Comprehensive network protection for enterprises**

The IBM Proventia® Network Multi-Function Security (Proventia Network MFS) MX5010 and MX3006 appliances from IBM Internet Security Systems (ISS) are powerful and affordable solutions designed to preemptively stop Internet threats—including viruses, worms, hackers, spam and unwanted Web content—before they penetrate the network and disrupt business.

### **Preemptive, industrial-strength protection in a single device**

Proventia Network MFS appliances combine IBM ISS industry-leading intrusion prevention technology with firewall, signature and behavioral anti-virus, VPN, Web filtering and anti-spam technology. Designed for the demands of large enterprises and supporting up to 2,500 concurrent users, the Proventia Network MFS MX5010

appliance helps ensure that your network, key systems and data are accessible when needed. The Proventia Network MFS MX3006 appliance is ideal for smaller businesses or branch locations and supports up to 500 users. Both the Proventia Network MFS MX5010 and MX3006 devices are designed to provide preemptive protection from Internet threats without jeopardizing network performance, and they help block malicious code and blended attacks like MS Blaster, Sasser and SQL Slammer—attacks that were able to bypass firewall and anti-virus protection in the past. The ability to stop threats before impact actually helps streamline IT operations by avoiding unscheduled patching and costly security breaches. The Proventia product family also helps improve workforce productivity by protecting against spam, phishing and malware

(such as spyware and adware) and preventing unwanted Web browsing to sites that promote such non-business activities as online gambling, shopping and viewing pornography. Proventia Network MFS appliances are designed for ease of use, with automatic updates to protect against future threats. The appliances also offer the flexibility to “grow as you grow” by enabling you to seamlessly add more security capabilities as needed.

**Advantages of the MX3006 and MX5010 appliances at a glance**

Both the Proventia Network MFS MX3006 and MX5010 appliances provide the following advantages:

- Combine intrusion prevention, signature and behavioral anti-virus, firewall, VPN, Web filtering and anti-spam technologies in a single appliance
- Provide automatic protection from more than 1,000 threats—more than all other similar products combined
- Incorporate automatic updates with the latest security intelligence
- Are designed for ease of use
- Offer a compelling value for protection available

- Eliminate the need to acquire, install and manage multiple solutions from different security vendors
- When managed by IBM ISS, are backed by “performance-based” service level agreements and guaranteed\* offerings that provide protection at the highest level.

**Proventia Network MFS MX5010 and MX3006 features and benefits**

Each of the Proventia Network MFS appliances delivers the features and benefits listed below.

- *Stateful inspection firewall*—prevents access by unauthorized users
- *Virtual private network (VPN)*—saves money by leveraging the public Internet for communications
- *Intrusion prevention system (IPS)*—helps to protect your network by blocking suspicious behavior before it causes harm
- *Anti-virus*—prevents infection by eliminating viruses before they cause harm; new behavioral-based technology fights zero-day viruses without signatures
- *Anti-spam*—removes spam e-mails that could harm the network, and protects network uptime and employee productivity

Module	Protection delivered
Intrusion prevention	1,000+ vulnerability blocks protecting against 2,500 different attacks
Signature anti-virus	120,000 known viruses protected by Sophos
Behavioral anti-virus	93 percent + of unknown or zero-day viruses blocked
Anti-spam	95 percent of spam blocked
Web filtering	60 million URLs categorized

- *Web filtering*—prevents Web surfing to dangerous/inappropriate sites, protecting network uptime and improving regulatory compliance
- *Reporting*—transforms raw data into informative and intuitive reports to aid decision making
- *Automatic updates*—provides protection against the newest security threats by automatically updating itself on a regular basis
- *Performance-based protection*—offers the industry's leading “performance-based” service level agreements (SLAs) with a cash-back payment\* when managed by IBM ISS
- *Spyware blocking*—blocks internal users from downloading spyware and other malicious code, or surfing to Web sites that host spyware

	Proventia MX3006 Multi-Function Security	Proventia MX5010 Multi-Function Security
<b>Hardware specifications</b>		
Form factor	1U tabletop/1U rack-mount	2U rack-mount
Interfaces (10/100/1000)	Six 10/100 Mbps	Ten 10/100/1000 Mbps
Weight	5.5 kg (12 lbs)	18.9 kg (40 lbs)
Dimensions (W x H x D)	16.87" x 14.17" x 1.73"	16.93" x 3.46" x 19"D
Enclosure	Fits 19-inch rack/desktop	Fits 19-inch rack
Serial ports	One	One
UPS support	No	No
AC power	100–127V @ 50–60Hz; 2 Amps 200–240V @ 50–60Hz; 2 Amps	90–260V @ 50–60Hz; 500W
Operating temperature	5°C–40°C (67°F–130°F)	10°C–35°C (50°F–95°F)
Emissions	FCC Class A	EN 55022 Class A, EN55024
Redundant power supply	No	Yes
Redundant disk array	No	Yes
Operating system	Proprietary	Proprietary
Mean time between failure	6.4 years	5.2 years
<b>Network features</b>		
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) support	Yes	Yes
Layer 2 mode	Yes	Yes
Open Shortest Path First (OSPF)	Yes	Yes

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<b>VPN features**</b>		
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
Certifications	NSS, ICSA firewall – corporate	NSS, ICSA firewall – corporate
Microsoft® Windows® XP client wizard	Included	Included
<b>Web filtering</b>		
URL blocking	More than 60 million URLs categorized	More than 60 million 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
<b>Anti-spam</b>		
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
Supported mail protocols (Simple Mail Transfer Protocol [SMTP] and Post Office Protocol 3 [POP3])	Yes	Yes

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<b>Signature anti-virus features</b>		
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
<b>Behavior-based anti-virus features</b>		
Protocols protected	HTTP, FTP, SMTP, POP3	HTTP, FTP, SMTP, POP3
Stops zero-day variants such as Zotob, Black-worm and others	Yes	Yes
Spyware analysis	Yes	Yes
<b>Intrusion prevention system (IPS)/intrusion detection system (IDS) features</b>		
Number of protocols inspected	More than 137	More than 137
Number of attack signatures	More than 2,500	More than 2,500
Blocking	Yes	Yes
Number of blocked threats out-of-the-box	More than 1,000	More than 1,000
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
<b>Block future traffic</b>	<b>Yes</b>	<b>Yes</b>
Certifications	NSS; ICSA pending	NSS; ICSA pending
<b>Performance</b>		
Maximum recommended users***	500	2,500
Stateful throughput speed (firewall only)	200 Mbps	1,600 Mbps
Full inspection speed—firewall, IPS and Web filtering	200 Mbps	800 Mbps
Full inspection speed—intrusion prevention, Web filtering and anti-virus (mail only)	200 Mbps	566 Mbps
Full inspection speed—intrusion prevention, Web filtering and anti-virus (mail, FTP, Web)	94 Mbps	150 Mbps
Maximum connections per second	4,100	12,500
Maximum concurrent sessions	120,000	150,000

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<b>VPN performance</b>		
Maximum VPN 3DES encryption speed	65 Mbps	72 Mbps
Maximum VPN AES encryption speed	143 Mbps	247 Mbps
Maximum VPN 3DES encryption speed with hardware acceleration	N/A	247 Mbps
Maximum VPN AES encryption speed with hardware acceleration	N/	313 Mbps
VPN capacity or maximum recommended tunnels (site-to-site/remote)	250	250 for MX5010 1,000 for MX5010A
<b>E-mail (with both anti-virus and anti-spam)</b>		
Maximum number of 1,000 messages throughput per hour	4,480	11,640
Maximum number of 1,000 messages with 500K attachment throughput per hour	766	1,180
<b>Logging/notification</b>		
Event logging	Yes	Yes
E-mail	Yes	Yes
Simple Network Management Protocol (SNMP)	Yes	Yes
<b>Management</b>		
Centralized management	Yes (with IBM SiteProtector™ system)	Yes (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

**Proventia MX3006 Multi-Function Security**
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<b>High-availability/failover</b>		
Active/passive	Yes	Yes
<b>VPN user authentication</b>		
Internal database	Yes	Yes
<b>RADIUS (external) database</b>	<b>Yes</b>	<b>Yes</b>
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
<b>Customer support</b>		
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
Certifications	SCP (support center practices) J.D. Power and Associates NSS ICSA firewall – corporate	SCP (support center practices) J.D. Power and Associates NSS ICSA firewall – corporate

*\*\* Free VPN client available using Windows XP L2TP VPN client or by purchasing a separate VPN client.*

*\*\*\* Capacity ratings based on nodes represent general guidelines about the size of the network that should be placed behind a particular Proventia Network Multi-Function appliance model.*



### For more information

Learn how the IBM Proventia Network Multi-Function Security appliances can protect your business ahead of the next Internet threat, and help simplify your security management. Be sure to ask if your company qualifies for a 30-day evaluation. For more product information visit:

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\* Money-back payment (for Managed Protection Services - Premium Level only): If IBM Internet Security Systems fails to meet the Security Incidents Prevention Guarantee, client shall be paid US\$50,000 for each instance this guarantee has not been met. Please see IBM Internet Security Systems SLAs for more details.