FIREEYE NETWORK SECURITY POWER

COMPREHENSIVE PLATFORM TO DEFEND AGAINST ADVANCED CYBER THREATS

NX 2400, NX 4420, NX 7420, NX 10000 (not pictured: NX 1400, NX 4400, NX 7400)

OVERVIEW

FireEye Network Security Power is a comprehensive solution that minimizes the risk of costly breaches by accurately detecting and stopping advanced cyber-attacks. At the core of Network Security Power is the FireEye Multi-Vector Virtual Execution™ (MVX) engine which analyzes web traffic in an isolated, virtual environment to detect known and zero-day exploits, malware executables and multi-protocol callbacks. It also includes traditional Intrusion Prevention System (IPS) to detect common attacks with conventional signature matching. Generated alerts include actionable, contextual threat intelligence to quickly prioritize response, stop an attack, and contain the threat. Unlike firewall, IPS or AV solutions, the FireEye Network Security Power rapidly detects both known and unknown attacks with high accuracy while generating low rates of false positives.

HIGHLIGHTS

- Detects advanced and zero-day attacks with patented, signature-less MVX engine
- Prevents future attacks with machine learning, retrospective and weak signal analysis
- Identifies common and known attacks with conventional, signature-based IPS technology
- Provides complete view of attacks across organization with cloud-based threat analytics
- Facilitates quick containment of advanced threats with actionable contextual intelligence
- Improves operational effectiveness with low rate of false positives and alert categorization
- Protects entire organization - from Windows and Mac OS X users to Android and iOS VIPs
- Integrates with other security products through API and detection to response workflows
- Disrupts attacks in real time with inline blocking at up to 4Gbps throughput for 40,000 users
- Simplifies management with low touch deployment and high-degree of automation

FireEye
SECURITY REIMAGINED

Network Security Power enables organizations to scale their advanced threat defenses across a range of deployments, from the multi-gigabit headquarters down to remote, branch, and mobile users. It supports mixed environments with Microsoft Windows, Apple Mac OS X, Google Android, and Apple iOS users. Network Security Power integrates with other security products through REST/JSON API and detection-to-response workflows. With a high degree of automation, it enables organizations to simplify deployment and day to day management.

Accurate Detection of Advanced Threats

Network Security Power uses the signature-less MVX engine which executes suspicious binaries and web objects against a range of browsers, plug-ins, applications, and operating environments that track vulnerability exploitation, memory corruption, and other malicious actions. This allows MVX to automatically detect both existing and never before seen exploits and malware in heterogeneous networks with many types of endpoints. As an attack plays out, the MVX engine captures callback channels, dynamically creates blocking rules, and shares information about the attack with other Network Security sensors connected through the FireEye Dynamic Threat Intelligence (DTI) cloud. This shared information allows all FireEye Network Security sensors to immediately deploy blocking rules against unknown attacks.

FireEye MVX analysis is complemented with Big Data and machine learning algorithms that analyze the large FireEye DTI dataset to correlate weak signals, past events, and the latest malware research from FireEye Labs in order to predict and prevent future attacks. In addition, front-line intelligence about new attack techniques identified by the Mandiant incident response teams is automatically delivered to the FireEye Network Security sensors through the FireEye DTI cloud in matter of minutes after initial discovery.

Ease of Deployment and Management

Network Security Power is an easy-to-manage, clientless platform that deploys in under 60 minutes. It requires no rules, policies, or tuning and integrates with other security products through REST/JSON API. In addition, Network Security Power integrates seamlessly through the Central Management system with other FireEye offerings. Automated alert noise reduction, low rate of false positives and failover systems also reduce staffing needs, downtime and overall cost of ownership.

Defense against Known and Unknown Attacks

By consolidating advanced threat prevention for targeted, persistent, and zero-day attacks with conventional IPS technology for known attacks, Network Security Power provides you comprehensive protection against all types of attacks. The combination of signature-less protection provided by the MVX engine with the signature-based protection of a traditional IPS technology simplifies management, improves operational effectiveness, and enables regulatory or policy compliance for advanced threat defense.

Complete View of Attacks across Organization

Network Security Power includes the FireEye Threat Analytics Platform (TAP) for a complete view of an advanced attack across the entire organization. TAP is a cloud-based solution that correlates alerts generated by the FireEye Network Security Power with other 3rd party alert sources within the organization, non-malware events, and real-time threat intelligence from FireEye to provide single, unified view of an attack across its entire life-cycle.

Actionable Contextual Intelligence

Alerts generated by the Network Security Power include contextual intelligence to quickly respond to the alerts, prioritize response, and contain the threat. The intelligence combines more than a decade of insights from the front lines of major cyber-attacks, a global network of over ten million FireEye Network Security sensors, and a team of experienced researchers, analysts, and foreign policy experts. It provides highly relevant threat information with context for rapid, effective incident response.

Automated Alert Noise Reduction

Network Security Power automates validation of IPS alerts so you don't have to. Indicators that trigger IPS alerts are automatically passed to the MVX engine for replay and analysis. Alerts proven malicious are highlighted. This validation process reduces false alerts and drives down operating costs by prioritizing real alerts hidden among the industry norm, IPS-related false and duplicate alerts.

Network Security Power also categorizes riskware – undesirable objects that that do not necessarily lead to a breach, such as adware and ransomware. Together, FireEye IPS alert validation and riskware categorization allow security teams to focus on genuine threats and remediation to minimize business risk and operational overhead.

Comprehensive and Real-time Protection

Network Security Power supports most common and recent releases of Microsoft Windows and Mac OS X. In addition, it the FireEye Mobile Threat Prevention (MTP) platform to protect Google Android and Apple iOS devices of key employees.

Network Security Power offers flexible deployment modes: out-of- band via a TAP/SPAN, in-line monitoring, or in-line active blocking. It can be deployed in-line at Internet egress points to automatically block inbound exploits and malware, and outbound multi-protocol callbacks. In monitor mode, it generates alerts and enables organizations to decide how to respond to them. In out-of-band prevention mode, Network Security Power issues TCP resets for out-of-band blocking of TCP, UDP, or HTTP connections.

To maintain strong security while your organization runs smoothly and without interruption or lag, Network Security Power supports integration with the FireEye Active Fail Open (AFO) switch to ensure no link downtime. It also drives continued availability for in-line hardware deployments in the face of power or link failures.

Awards and Certifications

The FireEye Network Security product portfolio has been awarded number of industry and government awards and certifications including US Department of Homeland Security Safety Act and listed as a "must-have" in the Frost & Sullivan Network Security Sandbox Market Analysis.

TECHNICAL SPECIFICATIONS

	NX 900	NX 1400	NX 2400	NX 4400/4420	NX 7400/7420	NX 7500	NX 9450	NX 10000	NX 10450	NX10550
User Count	50	100	500	1,000 or 2,500	10,000	10,000	20,000	40,000	40,000	40,000
OS Support	Microsoft Windows	Microsoft Windows	Microsoft Windows	Microsoft Windows	Microsoft Windows	Microsoft Windows Mac OS X	Microsoft Windows	Microsoft Windows	Microsoft Windows	Microsoft Windows MacOS X
Performance *	Up to 10 Mbps	Up to 20 Mbps	Up to 50 Mbps	100 Mbps or 250 Mbps	Up to 1 Gbps	Up to 1 Gbps	Up to 2 Gbps	Up to 4 Gbps	Up to 4 Gbps	Up to 4Gbps
Network Monitoring Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	4x 10/100/1000 BASE- T Ports	4400: 4x 10/100/ 1000 BASE- T Ports 4420: 4x 1000 BASE-SX Fiber Optic Ports (LC Multimode)	7400: 4x 10/100/ 1000 BASE- T Ports 7420: 4x 1000 BASE-SX Fiber Optic Ports (LC Multimode)	4x 10/100/1000 BASE- T Ports	4x SFP+, 4xSFP ports, 1000baseSX (LC MMF), 1000baseLX (LC, SMF), 1000baseT (RJ45, UTP5)	2x 10GBASE - SR/SW 850nm Fixed interfaces: 10GbaseSX (LC MMF)	8 x SFP+ (4 x 1000base and 4 x 10Gbase), 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached-cable)	8 x SFP+ ports: pether 3-6 (10G, 1G, dual rate link partner ok) pether 7-10 (1G only, no dual-rate link partner) SFP/SFP+ choices: 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC, SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached cable)

TECHNICAL SPECIFICATIONS

	NX 900	NX 1400	NX 2400	NX 4400/4420	NX 7400/7420	NX 7500	NX 9450	NX 10000	NX 10450	NX10550
Network Ports Mode of Operation	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW	Inline Monitor, or Tap/Span	Inline Monitor, Fail-Open, Fail-Close, or Tap/Span, HW Bypass	Inline Monitor, or Tap/ Span	Inline Monitor or Tap/Span
Management Ports (rear panel)	2x 10/100/1000 BASE-T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10/100/1000 BASE- T Ports	2x 10./100/1000 Base-T Ports
IPMI Port (rear panel)	Included	Included	Included	Included	Included	Included	Included	Included	Included	Included
Front LCD & Keypad	Not Available	Included	Included	Included	Included	Included	Included	Included	Included	Included
PS/2 Keyboard and Mouse, DB15 VGA Ports (rear panel)	Included	Included	Included	Included	Included	Included (no PS/2 Keyboard and Mouse)	Included	Included	Included	Included (no PS/2 Keyboard and Mouse)
USB Ports (rear panel)	2x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports	4x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports	2x Type A USB Ports
Serial Port (rear panel)	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 Bits, 1 Stop Bit	115,200 bps, No Parity, 8 bits, 1 Stop Bit
Drive Capacity	Single 500 GB HDD, Internal, fixed	Single 500 GB HDD, Internal, fixed	Single 500 GB HDD, Internal, fixed	2x 600 GB HDD, RAID 1, 2.5 inch, FRU	2x 600 GB HDD, RAID 1, 2.5 inch, FRU	4x 900 GB HDD, RAID 10, 2.5 inch, FRU	4x 900 GB HDD, RAID 10, 2.5 inch, FRU	2x 800 GB SSD, RAID 1, 2.5 inch, FRU	4x 800 GB SSD, RAID 10, 2.5 inch, FRU	4 x 960GB SSD, RAID 10, 2.5 inch, FRU
Enclosure	1RU, Fits 19 inch Rack	1RU, Fits 19 inch Rack	1RU, Fits 19 inch Rack	1RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack	2RU, Fits 19 inch Rack
Chassis Dimension WxDxH	16.8" x 14" x 1.7" (427 x 356 x 43 mm)	17.2" x 24.1" x 1.70" (437 x 612 x 43.2mm)	17.2" x 24.1" x 1.70" (437 x 612 x 43.2 mm)	17.2" x 27.8" x 1.70" (437 x 706 x 43.2 mm)	17.2" x 28.0" x 3.41" (437 x 711 x 86.5 mm)	17.2" x 28" x 3.41" (437 x 711 x 86.6mm)	17.2" x 27.9" x 3.5" (437 x 709 x 89 mm)	17.2" x 27.9" x 3.5" (437 x 709 x 89 mm)	17.2" x 27.9" x 3.5" (437 x 709 x 89 mm)	17.2"x33.5"x3.5" (437 x 851 x 89 mm)
DC Power Supply	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
AC Power Supply	Non-redundant, non-FRU, internal 200 watt, 100 - 240 VAC 3 – 1.5A, 50-60 Hz EC60320-C14 Inlet	Non-redundant, non-FRU, internal 500 watt, 100 - 240 VAC 5 – 2.5A, 50-60 Hz IEC60320-C14 inlet	Non-redundant, non-FRU, internal 500 watt, 100 - 240 VAC 5 – 2.5A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1) 750 watt, 100 - 240 VAC 9 – 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU	Redundant (1+1) 750 watt, 100 - 240 VAC 9 – 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU	Redundant (1+1) 750 watt, 100 - 240 VAC 9 – 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU	Redundant (1+1) 1200 watt, 100-140 VAC, 14.7 - 10.5 A 1400 watt, 180-240 VAC, 9.5 - 7.2 A, 50-60 Hz, FRU IEC60320-C14 inlet, FRU	Redundant (1+1) 1200 watt, 100-140 VAC, 14.7 - 10.5 A 1400 watt, 180-240 VAC, 9.5 - 7.2 A, 50-60 Hz, FRU IEC60320-C14 inlet, FRU	Redundant (1+1) 1200 watt, 100-140 VAC, 14.7 - 10.5 A 1400 watt, 180-240 VAC, 9.5 - 7.2 A, 50-60 Hz, FRU IEC60320-C14 inlet, FRU	Redundant (1+1) 800W: 100-127V, 9.8A-7A 1000W: 220-240V, 7-5A, 50-60Hz, FRU IEC60320-C14 inlet, FRU
Power Consumption Maximum (watts)	136 watts	208 watts	210 watts	305 watts	501 watts	479 watts	550W	962 watts	850W	760W
Thermal Dissipation Maximum (BTU/h)	464 BTU/h	710 BTU/h	717 BTU/h	1041 BTU/h	1709 BTU/h	1634 BTU/h	1881 BTU/h	3282 BTU/h	2908 BTU/h	2594 BTU/h
MTBF (h)	94,700 h	67,500 h	55,200 h	37,000 h	58,900 h	58,900 h	52,469 h	50,200 h	40,275 h	36,101 h

TECHNICAL SPECIFICATIONS

	NX 900	NX 1400	NX 2400	NX 4400/4420	NX 7400/7420	NX 7500	NX 9450	NX 10000	NX 10450	NX10550
Appliance Alone / As Shipped Weight lb. (kg)	11 lb. (5 kg) / 20 lb. (9 kg)	24 lb. (11 kg) / 39 lb. (18 kg)	24 lb. (11 kg) / 39 lb. (18 kg)	31 lb. (14 kg) / 46 lb. (21 kg)	42 lb. (19 kg) / 58 lb. (26 kg)	43 lb. (19.5 kg) / 59 lb. (27kg)	51 lb. (23 kg) / 66 lb. (30 kg)	51 lb. (23 kg) / 66 lb. (30 kg)	51 lb. (23 kg) / 66 lb. (30 kg)	46 lb (21 kg) / 90 lb (40.2 kg)
Regulatory Compliance Safety	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950 EN 60950 CSA 60950-00 CE Marking	IEC 60950-1 EN 60950-1 CSA 60950-1 CE Marking	IEC 60950-1 EN 60950-1 CSA 60950-1 CE Marking	IEC 60950-1 EN 60950-1 CSA 60950-1 CE Marking	UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, IEC 60950-1:2005+ A1:2009+A2:2013, AS/NSZ 60950.1-2011
Regulatory Compliance EMC	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI (Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI (Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI (Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI (Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A)	FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A)	FCC Part 15 SubPart B Class A, ICES-003 Class A, EN55022 Class A, VCCI V-3 Class A,EN 55024, EN 61000-3-2 Class A, EN 61000-3-3, CNS 13438 (2006) Class A, CISPR22 Class A, AS/NZS CISPR 22 Class A
Security Certifications	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	CC NDPP v1.1	UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, IEC6060950-1:2005 +A1:2009+ A2:2013, AS/NSZ 60950.1-2011
Environmental Compliance	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE
Operating Temperature	10°C to 35°C Tested from 0°C to 40°C for additional margin	10° C to 35° C Tested from 0°C to 40°C for additional margin	10° C to 35° C Tested from 0°C to 40°C for additional margin	10° C to 35° C Tested from 0°C to 40°C for additional margin	10° C to 35° C Tested from 0°C to 40°C for additional margin	10° C to 35° C Tested from 0°C to 40°C for additional margin	10° C to 35° C	10° C to 35° C	10° C to 35° C	10° C to 35° C
Non-Operating Temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Operating Relative Humidity	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	10% - 85% (non-condensing)	10% - 85% (non-condensing)	10% - 85% (non-condensing)	10% - 85% (non- condensing)
Non-Operating Relative Humidity	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)
Operating Altitude	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft	5,000 ft

Note: All performance values vary depending on the system configuration and traffic profile being processed.

IPS TECHNICAL SPECIFICATIONS

	NX 900	NX 1400	NX 2400	NX 4400/4420	NX 7400/7420	NX 7500	NX 9450	NX 10000	NX 10450	NX 10550
IPS Performance	10 Mbps	20 Mbps	50 Mbps	100 Mbps or 250 Mbps	1 Gbps	1 Gbps	2 Gbps	4 Gbps	4 Gbps	4 Gbps
Concurrent Connections	4K	7.5K	15K	80K	500K	500K	1M	2M	2M	2M
New Connections Per Second	200/Sec	375/Sec	750/Sec	4K/Sec	10K/Sec	10K/Sec	20K/Sec	40K/Sec	40K/Sec	40K/Sec
Packets Per Second	600/Sec	1200/Sec	4K/Sec	20K/Sec	90K/Sec	90K/Sec	105K/Sec	120K/Sec	120K/Sec	360K/Sec

ACTIVE FAIL OPEN SWITCH TECHNICAL SPECIFICATIONS

	AFO 1G SWITCH	AFO 10G SWITCH
Dimensions (WxDxH)	8.75" x 11.0" x 1.35" (22.2 x 27.9 x 3.4 cm)	6.5" x 14.0" x 1.125" (16.5 x 35.6 x 2.8 cm)
Management Ports	(1) DB9 Serial Console, (1) RJ45 Cat5e Port (10/100)	(1) DB9 Serial Console, (1) RJ45 Cat5e Port (10/100)
Network Ports	(2) RJ45 Cat5e Ports (10/100/1000)	(1) Quad LC Connector
Monitoring Ports	(2) RJ45 Cat5e Ports (10/100/1000)	(2) XFP Ports
AC Power Input	100 ~ 240 VAC, 0.5 A, 47-63 Hz	100 ~ 240 VAC, 1.0 A, 47-63 Hz
Operating Temp	0° C to 40° C	0° C to 40° C

Note: All performance values vary depending on the system configuration and traffic profile being processed.

For more information on FireEye, visit:
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