

Nokia IP2450 Intrusion Prevention With Sourcefire

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Nokia IP2450 Intrusion Prevention with Sourcefire provides a highly definitive means to detect, determine, and defend against network threats for large business and service-provider networks. The Nokia IP2450 IPS solution offers investment protection, superior price performance at 4 Gbps, and high port density for cost-effective deployments.



manage, enhance, and tune security policies based on combined threat, network, and vulnerability data.

Sourcefire Intrusion Sensors are built on leading-edge Nokia IPSO™-LX operating system and, along with appliances from Sourcefire Defense Center for Nokia, provide a comprehensive security solution for large business and service-provider deployments.

Using a two-rack unit form factor with 4 Gbps of inline performance, Nokia IP2450 IPS features two quad-core Intel CPUs and is optimized for Sourcefire IPS, Real-time Network Awareness (RNA), and Real-time User Awareness (RUA) applications. Sourcefire IPS, RNA, and RUA applications come preinstalled on the appliance and can run simultaneously.

Nokia IP2450 IPS is a significant addition to firewall technology that allows organizations to extend security beyond the network perimeter deep into the core. Nokia IP2450 IPS follows a new security approach that integrates core technologies, runs continuously, and applies automated processes when desired—an approach built on a foundation of network and user intelligence. This unified approach to intrusion prevention enables network and user intelligence to be shared from one security technology to the next, all under one management console. This enables correlation of data from passive and targeted scans. The intrusion prevention engine and network anomaly detection works to ensure continuous protection before, during, and after an attack. This minimizes false positives as well as management and operational resource requirements.

Excellent Price Performance and High Port Density

The platform from Nokia offers superior price performance on key investment criteria such as price per port and price per gigabit when compared to competing products in its class and is expandable to 24 Gigabit Ethernet ports. Nokia IP2450 Intrusion Prevention with Sourcefire enables installation of up to 12 security policies simultaneously on a single sensor, while delivering a measured throughput of 4 Gbps.

Sourcefire IPS on Nokia IP2450

Nokia offers Sourcefire IPS, which provides defense-in-depth by analyzing network traffic and either blocking, replacing, or alerting when suspicious activity is detected. Utilizing Snort, the award-winning rule-based detection engine, Sourcefire Intrusion Sensors achieve one of the industry's highest rates of attack detection and prevention.

Sourcefire RNA Sensors on Nokia IP2450

The RNA application delivers intelligent network monitoring and behavioral analysis of end-point hosts by tracking posture and security levels of end-point hosts connecting to the network. The RNA application issues logs and alerts based on the data it collects in the network. This information, coupled with the RNA vulnerability database, allows vulnerabilities in a large business network to be identified so the appropriate action can be automatically applied. Furthermore, RNA provides post-connect network access control to help ensure 24/7 network monitoring and policy enforcement through functionality called network usage control. Using network usage control, organizations can enforce,

Sourcefire RUA

RUA creates the link between exploited machines and their users, enabling system administrators to see not only the IP address of an affected host but also the user that was accessing that machine at the time. It eliminates the manual efforts to track users, shortens the time it takes to track down the location of exploited hosts, has no network impact, and uses the same data collection sensors as Sourcefire IPS and Sourcefire RNA.

Sourcefire Defense Center

Sourcefire Defense Center for Nokia is a stand-alone server appliance that functions as the centralized management station for the entire IPS solution from Nokia. It monitors, aggregates, and correlates events and alerts generated by Intrusion Sensors and RNA Sensors deployed within a large business or service-provider network. By tightly integrating and correlating the threat information provided by Sourcefire IPS with the network intelligence provided by RNA and the user intelligence provided by RUA, the Defense Center easily prioritizes millions of security events to determine the most critical events for the business and takes appropriate action.

Key Benefits of Nokia IP2450 Intrusion Prevention With Sourcefire

Advanced Security for Large Business and Service-Provider Networks

Through integrating multiple levels of intelligence—threat analysis, end-point and vulnerability analysis, and network change and behavioral analysis—Nokia IP2450 Intrusion Prevention with Sourcefire extends the protection level beyond that

normally offered by other IPS solutions. The Defense Center appliance correlates security incidents so that only the threats that might affect the network are alerted and automatically mitigated in real time, thus reducing the workload for security operations teams. Furthermore, this correlation process reduces false positives and false negatives.

Superior Price Performance

Nokia IP2450 IPS offers superior price performance on key investment criteria such as price per port and price per gigabit when compared to competing products in its class.

Enhanced Business Continuity, Reliability, and Expandability

Nokia IP2450 IPS delivers enhanced business continuity through features such as redundant dual and hot-swappable power supplies and hot-swappable fan trays. In addition, Nokia IP2450 IPS is expandable to 24 Gigabit Ethernet ports, enabling it to support 11 network segments inline (fail-open) and 23 segments in passive IDS/RNA modes, thus providing investment protection as the customer network expands.

Nokia IPSO-LX Operating System

The security-hardened Linux operating system (OS) for IPS platform from Nokia can counter OS-directed security attacks.

Single Point of Support for Nokia and Sourcefire

Like all Nokia security appliances, Nokia IP2450 IPS is backed by world-class support and service from Nokia. Nokia First Call—Final Resolution offers a single point of technical support and assistance for both Nokia security appliances and Sourcefire applications.

Work together. Smarter.

Nokia Inc. 102 Corporate Park Drive, White Plains, NY 10604 USA

Americas Tel: 1 877 997 9199 • Email: usa@nokiaforbusiness.com

Asia Pacific Tel: +65 6588 33 64 • Email: asia@nokiaforbusiness.com

Europe France +33 170 708 166 • UK +44 161 601 8908 • Email: europe@nokiaforbusiness.com

Middle East and Africa Dubai +971 4 3697600 • Email: mea@nokiaforbusiness.com

www.nokiaforbusiness.com

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Technical Specifications

LAN Support

10/100 BASE-TX (10/100 Mbps Ethernet), copper
1000 BASE-T (10/100/1000 Mbps Ethernet), copper
1000 BASE-SX (1000 Mbps Ethernet), MMF Fiber

Performance

Maximum throughput: 4 Gbps
Latency less than 300 us

Management

SNMP RFC 1157, SNMPv2c, SNMPv3
SSHv2
HTTP Server RFC 2068
SSL/TLS RFC 2246
Command line utilities are supported

Environment Operating Conditions

Temperature: 32°F to 104°F / 0°C to 40°C
Altitude: 10,000 ft / 3048 m
Humidity: 10% to 90% (non-condensing)

Environment Non-Operating Conditions

Temperature: -5°C to +45°C
Humidity: Up to at least 95% (non-condensing)

System Indicators

10/100/1000 Ethernet port status
Power status on system
Failure status on system
Port status on network interface cards
System operational indicator

Supported Standards

Designed to meet FIPS 140-2
Directive 2002/95/EC Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)

Safety

CSA 60950 – 1 – 03/UL 60950-1, First Edition

Emission Compliance

FCC Part 15, Subpart B, Class A,
EN55022A: 1998, CISPR 22 Class A:
1998, EN61000-3-2, EN61000-3-3

Base System Configuration

8GB RAM Memory
Single 80GB HDD
Two (2) four-port 1000 BASE-T Fail-Open Network Interface Cards (NICs) (2 PMC slots)
One (1) Four-port 1000 BASE-T Passive Network Interface Card (NIC) (1 PMC slot)
Support for up to 3 additional PMC Cards (priced separately)
Dual Power Supplies

Options

Additional 8 GB RAM
NIF4490000 – 2-port fail-open NIC, copper
NIF4489000 – 2-port fail-open NIC, fiberoptic
NIF4491000 – 4-port fail-open NIC, copper
NIF4425000 – 2-port 1000Base-T Ethernet PMC Card
NIF4422000 – 2-port 1000Base-SX Ethernet, SFP PMC Card
NIF4426000 – 4-port 1000Base-T Ethernet PMC Card

Power Requirements

AC input voltage – 100-120V/200-240V
AC input current maximum – 8.5A/4.0A
Frequency – 50/60 Hz

Dimensions

Height 3.5 in (8.6 cm) – 2U
Width 17 in (43.18 cm) without mounting brackets
2U, or 19 in (48.2 cm) with mounting brackets
Depth 24.89 in (63.22 cm) including front bezel
Depth 25.41 in (64.54 cm) including front handles
Weight 52 lbs without accessories
Product kit (accessory kit) includes box, CD, doc, power cord
Product kit weight – 1.75 lbs (0.8 kg)
Front access, slide-out tray for maintenance

Security

Secure administrative access
Role-based administration
Read/Write and Read-Only access modes
Encrypt end-user passwords
NTP client

Immunity

EN55024:1998

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