

Nokia IP Security Solutions

Nokia IP390



Nokia for Business



Nokia IP390 Security Platform is a highly versatile, easy to install and easy to manage security appliance running Check Point VPN-1. Nokia IP390 provides the intuitive out-of-box experience needed by medium businesses, but also provides the sophisticated management and security large businesses need for remote campuses, large branch offices and internal network segmentation.

Nokia IP390 Security Platform is a flash-based 1RU security appliance providing multigigabit performance, four integrated 10/100/1000 Ethernet interfaces and two expansion slots supporting up to eight additional 10/100 Ethernet interfaces or up to four additional gigabit Ethernet interfaces for the Check Point VPN-1 Pro suite of applications. Nokia IP390 running Check Point VPN-1 Pro provides up to:

- 3 Gbps of firewall throughput
- 30,000 firewall connections per second
- 500 Mbps of AES256 VPN throughput

Nokia IP390 is ideal for medium businesses or for large businesses requiring a solution for campuses or larger branch offices requiring gigabit performance and interface expandability. Nokia IP390 is also ideal for internal network segmentation.

Like all Nokia Firewall/VPN Appliances, Nokia IP390 is a best-of-breed, trusted security appliance purpose-built to run

the Check Point VPN-1 firewall application, and it is optimized to provide:

- Consistent in-line reliability
- Ease of management
- Simple acquisition and implementation

Consistent Inline Reliability

Nokia Firewall/VPN appliances are purpose-built to protect corporate applications and data while running inline within the world's most demanding network environments, and architected specifically for the demands of Check Point VPN-1. Nokia IPSO™ operating system natively supports key networking needs such as dynamic and multicast routing, IPv6, VLANs, and link aggregation, making integration into complex networks transparent.

For optimal reliability, Nokia IP390 is flash-based, with an optional local hard drive to support local logging¹. And it includes VRRP and IP Clustering for high availability.

Ease of Management

To increase administrator productivity, Nokia Firewall/VPN appliances make executing sophisticated security simple. The acclaimed Check Point SMART Management framework simplifies complex policy definition and deployment. Nokia Network Voyager and Cluster Voyager provide complete local and remote WebUI appliance management, and Nokia Horizon Manager

and Nokia Appliance Manager provide simple, comprehensive, centralized management of multiple appliances.

Simple Acquisition and Implementation

Nokia Firewall/VPN appliances minimize acquisition and installation complexity. Stable hardware configurations are pre-tested and pre-integrated with Check Point VPN-1 and Nokia IPSO. Nokia IPSO is security-hardened and supports key capabilities such as role-based administration, AAA, and TACACS+ client, 3rd party administrator authorization and the elimination of the need for local administrator accounts that many compliance mandates require. Check Point VPN-1 is preinstalled on the appliance, and native Nokia IPSO features—such as software acceleration, dynamic and multicast routing, and high availability—are included with no additional installation, licensing, or activation required.

Nokia First Call— Final Resolution Support

Best of all, like all Nokia Firewall/VPN Appliances, Nokia IP390 and Check Point VPN-1 are both backed by world-class Nokia First Call—Final Resolution support and service. Nokia First Call—Final Resolution offers a single point of technical support and assistance for both Nokia IP390 and Check Point VPN-1.

¹ Local Check Point management is not currently supported on Nokia IP390.

Technical Specifications

Internet Protocols <ul style="list-style-type: none"> IP RFC 791 ICMP RFC 792 ARP RFC 826 ICMP Router Discovery (server) RFC 1256 CIDR RFC 1519 Static Routes RIP RFC 1058 RIP Version 2 (with authentication) RFC 1723 OSPF RFC 2328 DVMRP (multicast) RFC 1075 IGMP (multicast) RFC 2236 PIM-DM (multicast), PIM-SM Multicast Tunnels IGRP (optional) Cisco BGP4 (optional) RFC 1771 IPv6 Core RFCs Requirements for IPv4 Routers RFC 1812 Differentiated Services (EF) RFC 2598 Bootp/DHCP Relay RFC 2131 Route Aggregation and Redistribution Unnumbered Interfaces 	
LAN Support <ul style="list-style-type: none"> 10/100 BASE-TX (10/100 Mbps Ethernet), copper 1000 BASE-T (10/100/1000 Mbps Ethernet), copper 1000BASE-SX (1000 Mbps Ethernet), MMF Fiber 	
Performance <ul style="list-style-type: none"> Firewall - large packets 3.0 Gbps VPN - large packets 500 Mbps, AES256 CPS - 30,000 CPS 	
Management <ul style="list-style-type: none"> SNMP RFC 1157, SNMPv2c, SNMPv3 Telnet RFC 854 FTP RFC 959 SSHv2 (secure Telnet and FTP) HTTP Server RFC 2068 SSL/TLS RFC 2246 Command Line Utilities Supported in Nokia Horizon Manager 	
Environment <ul style="list-style-type: none"> Temperature: 23°F to 113°F / -5°C to 45°C Humidity: 10% - 90% (non-condensing) Altitude: 10,000 feet 	
High Availability <ul style="list-style-type: none"> VRRP RFC 2338 FireWall-1 State Sync Patented Nokia IP Clustering 	
Security <ul style="list-style-type: none"> Secure Administrative Access Role-Based Administration 3rd party administrator authorization Read/Write and Read-Only Access Modes SSH (secure Telnet and FTP) SSL/TLS (secure HTTP) RFC 2246 S/Key (one-time password) RFC-1760 Access Control Lists Traffic Management MD5 Routing Authentication (RIPv2) RFC 1723 Centralized Authentication Native IPSec (for non-firewall applications) DNS Client, NTP Client and Server RADIUS Client, TACACS+ Client 	
System Indicators <ul style="list-style-type: none"> 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* <ul style="list-style-type: none"> IPSec (RFCs 2401-2411, 2451) GRE (RFCs 1701 and 1702) Generic Routing Encapsulation 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 <ul style="list-style-type: none"> UL1950, CAN/CSA 22.2, No. 950-M95, (CE Mark) EN60950:1992, A1, A2:1993, A3:1995, A4:1997, A11:1998 with Japanese National Deviations Emission Compliance 	
Emission Compliance <ul style="list-style-type: none"> FCC Part 15, Subpart B, Class A, EN50024, EN55022A: 1998, CISPR 22 Class A: 1985, EN61000-3-2, EN61000-3-3 	
Immunity <ul style="list-style-type: none"> EN55024: 1998 	
Base System Configuration <ul style="list-style-type: none"> 1GB System RAM, expandable to 2GB 4 integrated 10/100/1000 Ethernet interfaces Integrated PCMCIA slot 	
Optional PMC Cards <ul style="list-style-type: none"> 4-port 10/100 BASE-TX, copper 2-port 10/100/1000 BASE-T, copper 2-port 1000 BASE-SX, MMF 	
Dimensions <ul style="list-style-type: none"> Height - 1.75 in (4.4 cm) - 1U Width - 17 in (43.2 cm) without mounting brackets - 1U; or 19 in (48.2 cm) with mounting brackets Depth - 17 in (43.2 cm) Depth - 17.5 in (44.5 cm) at handles, standard bracket position Weight - 18 lbs (8.2 kg) with mounting brackets Front access for upgrades and maintenance 	
Power Requirements <ul style="list-style-type: none"> AC Input 100-120V / 200-240V Frequency 50 / 60 Hz AC Input Current 3A 	

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