

















# Nokia IP Security Platforms Technical Specifications Guide

## Nokia Enterprise Solutions










EMEA










# Nokia for Business

Product									
<b>Positioning</b>	ROBO, SMB and SME, Tele 8, Satellite 16, Satellite 32, Satellite Unlimited	Enterprise ROBO – 8, 16, 32 and Unlimited	Medium businesses and corporate satellite locations		Small to medium enterprise	Medium and large business system	Mid-range large enterprise and service provider class system	High end service provider class system	Very high end service provider class system
	Work extender, telecommuter, small office FW or VPN and Small to Medium Business	Work extender, telecommuter, small office FW or VPN	Satellite office scalable clustered VPN. Also runs FW		Flexible enterprise class system with a low entry price	High performance for 1 RU	Large Enterprise and Service Provider class system	Service Provider, Large Enterprise Data Center system	Highest Performing Service Provider, Large Enterprise Data Center system
Users Licenses	8, 16, 32, U	8, 16, 32, U	25, 50, 100, 250, 500, U		25, 50, 100, 250, 500, U	25,50,100,250,500,U	25, 50, 100, 250, 500, U	25, 50, 100, 250, 500, U	25, 50, 100, 250, 500, U
Flash-based	Yes	Yes	No	Yes	Yes	Yes	Disk, flash-based, or hybrid	Disk, flash-based, or hybrid	Yes
User Logins	Multiple	Multiple	Multiple		Multiple	Multiple	Multiple	Multiple	Multiple
Anti-Virus Capabilities	Yes	Yes	CVP		CVP	CVP	CVP	CVP	CVP
Remote Management	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Provider-1 Manageable	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Centralized Service Management	Nokia Horizon Manager, SMP	Smart Center	Nokia Horizon Manager Appliance Manager		Nokia Horizon Manager Appliance Manager	Nokia Horizon Manager Appliance Manager	Nokia Horizon Manager Appliance Manager	Nokia Horizon Manager Appliance Manager	Nokia Horizon Manager Appliance Manager
Local Management	Yes	Yes	Nokia Network Voyager		Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager
Built in FW/VPN Management UI	Yes	Yes	No		No	No	No	No	No
Telnet CLI Access	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
HTTPS UI Access	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Hardware VPN Accelerator	Yes	Yes	Yes – on MB		Yes	Yes	Yes	Yes	Optional
Syslog Capable	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
DHCP Server	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
DHCP Client	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
TACACS + client	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
PPPOE	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Radius Support	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes

Product									
<b>Positioning</b>									
OOB Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes (MIB II)	Yes	Yes (MIB II)	Yes (MIB II)	Yes (MIB II)	Yes (MIB II)	Yes (MIB II)
Content Filter	UFP	UFP	UFP	UFP	UFP	UFP	UFP	UFP	UFP
Performance Monitoring	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Disk Mirroring (IPSO 3.6 and up)	No	No	No	No	No	No	Disk-based systems only	Disk-based systems only	N/A
Rack Mountable	Desktop	Desktop	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICSA	Check Point VPN-1 Pro and Check Point VPN-1 Express are ICSA certified by Check Point								
NEBS III	No	No	No	No	No	No	No	Yes	No
FIPS 140-2	No	No	No	No	No	No	No	No	No
CC/EAL-4 IPSO 3.5.1 w/ Check Point FP2	No	Yes, EAL certified	No	No	No	No	No	No	No
CC/EAL-4 IPSO 3.9 w/ Check Point R55p	No		Yes	No	No	No	Yes	Yes	Yes
CC/EAL-4 IPSO 3.9 w/ Check Point NGX R60	No		Yes	No	No	No	Yes	Yes	Yes
Network Processor Based	No	No	No	No	No	No	No	No	Yes
Default RAM memory config	128 MB	128 MB	512 MB RAM	1 GB RAM	1 GB RAM	1 GB RAM	1 GB RAM	1 GB RAM	2 GB RAM
Maximum memory config	32 MB Flash	32 MB Flash	512 MB RAM	2 GB RAM	2 GB RAM	2 GB RAM	2 GB RAM	2 GB RAM	2 GB RAM
Total memory slots	N/A	N/A	N/A	2	4	4	4	4	4
Hard disk (GB)	No	No	40 GB	512 MB Flash	1 GB Flash	1 GB Flash	40 GB HD or 1 GB Flash	40 GB HD or 1 GB Flash	1 GB Flash
Redundant Hard Drive (optional)	No	No	No	No	No	No	Yes	Yes	Yes
Hybrid configuration (Flash + Disk) support	No	No	No	Yes (40GB HDD optional)	Yes	Yes	Yes	Yes	No
Default Number of 10/100 Ethernet Ports	3 (1 external, 1 internal, 1 DMZ)	4 ports LAN, 1 WAM, 1 DMZ/WAN2	4*	0	0	4*	4*	4*	0
Default Number of 10/100/1000 Ethernet Ports	0	0	0	4	4	0	0	0	4***
Maximum Number of 10/100 Ethernet Ports	3	4 LAN, 2 WAN	4	8 (not including integrated ports)	16	20	20	20	36
Maximum Number of 10/100/1000 Ethernet Ports	0	0	0	8	16	16	16	16	20
Console	1	1	1	1	1	1	1	1	1
Aux Port	1	1	1	1	1	1	1	1	1
Modem	Serial Modem	Serial Port	No	No	1	No	No	No	No
Number of available interface slots	N/A	N/A	N/A	2 PMC Slots	4 External Facing PMC Slots, 1 Internal PMC Slot	2 6U CPCI slots that support Dual PMC Carriers (Total of 4 PMC slots), 1 internal PMC socket	2 6U CPCI slots that support Dual PMC Carriers (Total of 4 PMC slots), 1 internal PMC socket	4 Nokia Uniqe CPCI ADP Slots Plus one CPCI management slot	

\* Included 10/100 Ethernet interfaces intended for management. These interfaces are fully routable and can be used to pass traffic, but throughput will be limited relative to the standard I/O ports resident on the PMC Interface Cards.  
\*\* four of six 10/100 interfaces intended for management  
\*\*\* CPCI card intended for management

Product									
<b>Positioning</b>									
Maintains multiple configuration sets	No	No	Yes		Yes	Yes	Yes	Yes	Yes
Maintains multiple O/S images and software versions	No	No	Yes		Yes	Yes	Yes	Yes	Yes
<b>Optional Interfaces &amp; Components</b>									
2 Port MMF Gigabit Ethernet	No	No	No		Yes	Yes	Yes	Yes	Yes
1 Port MMF Gigabit Ethernet	No	No	No		No	No	No	No	No
2 Port Copper Gigabit Ethernet	No	No	No		Yes	Yes	Yes	Yes	Yes (1 Gbps only)
4 Port Copper Gigabit Ethernet	No	No	No		No	Yes	Yes	Yes	Yes
2 Port Copper Ethernet 10/100	No	No	No		No	No	Yes	Yes	No
4 Port Copper Ethernet 10/100	No	No	No		Yes	Yes	Yes	Yes	No
1 Port 10 Gigabit Ethernet	No	No	No		No	No	No	No	Yes
8 Port Copper 10/100	No	No	No		No	No	No	No	Yes
Single V.35 serial	No	No	No		No	No	No	Yes	No
Single X.21 serial	No	No	No		No	No	No	Yes	No
Dual V.35 serial	No	No	No		No	No	No	No	No
Dual X.21 serial	No	No	No		No	No	No	No	No
Single Port TI CSU/DSU	No	No	No		No	No	No	No	No
Single Port E1 CSU/DSU	No	No	No		No	No	No	No	No
1 Port S/T, ISDN, BRI	No	No	No		No	No	No	Yes	No
1 Port HSSI 45 Mbps	No	No	No		No	No	No	No	No
MMF ATM 155 Mbps OC-3	No	No	No		No	No	No	No	No
VPN Accelerator	Included	Included	Included		Included	Included	Optional	Included	Optional
Redundant Power Supply	No	No	No		No	No	Optional	Installed, not optional	Installed, not optional
Hot swappable Interface cards	No	No	No		No	No	Yes	Yes	Yes
Secondary (Mirrored) hard disk drive	No	No	No		No	No	Yes, disk-based systems only	Yes, disk-based systems only	No
<b>Application Support</b>									
Check Point™	Check Point VPN-1 Embedding NG	Check Point VPN-1 Embedding NG	Check Point VPN-1 Pro Check Point VPN-1 Express Check Point VPN-1 Power		Check Point VPN-1 Pro Check Point VPN-1 Express Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power
Nokia Horizon Manager	Nokia Horizon Manager v1.3.1 and up	No	Yes		Yes	Yes	Yes	Yes	Yes
Nokia Management Center – Appliance Manager	No	No	Yes		Yes	Yes	Yes	Yes	Yes
Nokia Network Voyager	Nokia Management GUI and documentation (but not Nokia Network Voyager)	No	Yes		Yes	Yes	Yes	Yes	Yes
Authentication & Authorization	RADIUS client for user authentication and authorization								
Nokia Multiple Domain Security Support	No	No	No		No	No	Nokia MDS v3.0 or higher	Yes	Yes

<b>Product</b>									
	<b>Nokia IP45</b>	<b>Nokia IP60</b>	<b>Nokia IP260</b>	<b>Nokia IP265</b>	<b>Nokia IP390</b>	<b>Nokia IP560</b>	<b>Nokia IP1220</b>	<b>Nokia IP1260</b>	<b>Nokia IP2255</b>

**Characteristics of the OS**

IPSO Operating System Shipping Now	Nokia IPSO-RX, Software application v6.5	No	Nokia IPSO 4.1		Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.1
IPSO Version Platforms Originally Shipped With	Nokia IPSO-RX	No	Nokia IPSO 3.8.1		Nokia IPSO 4.1	Nokia IPSO 4.0.1	Nokia IPSO 3.8	Nokia IPSO 3.7	Nokia IPSO 3.8
SNMP, SNMPv2, and SNMPv3 management	SNMP v2	SNMP v2	SNMP REC 1157, SNMPv2, and SNMPv3		SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3
Software Acceleration	N/A	N/A	SecureXL		SecureXL	SecureXL	SecureXL	SecureXL	SecureXL
VRRP	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Clustering	No	No	Yes		Yes	Yes	Yes (IPSO 3.8)	Yes (IPSO 3.7+)	Yes (IPSO 4.0)
IPSec	Tele 8 – Client Session Mode, Satellite 16 – Site-to-Site, Satellite 32 – Site-to-Site, Satellite Unlimited – Site-to-Site	Site-to-Site IPSec, IPSec VPN Client	Site to Site		Site to Site	Site to Site	Site to Site	Site to Site	Site to Site
IPv6 Support	No		Yes		Yes	Yes	Yes	Yes	Yes
Key Management	IKE	IKE	IKE		IKE	IKE	IKE	IKE	IKE

**Optional Routing Protocols**

Support IGRP	No	No	Yes		Yes	Yes	Yes	Yes	Yes
Support BGP4	Yes	No	Yes		Yes	Yes	Yes	Yes	Yes
Multicast: DVMRP, IGMP, PIM-DM, PIM-SM	No	No	Yes		Yes	Yes	Yes	Yes	Yes
DHCP Server / DHCP Client	Yes	Yes	IPSO 3.8+	IPSO 3.8+	Yes	Yes	IPSO 3.8+	IPSO 3.8+	IPSO 3.8+

**Performance (IPSO 3.9/ Check Point NGX) Maximum possible throughput achieved under ideal testing circumstances.**

Maximum FW-1 Throughput	80 Mbps	8, 16, 32 users: 80 Mbps, Unlimited: 150 Mbps	248 Mbps	227 Mbps	3 Gbps	6 Gbps	2.4 Gbps	4 Gbps	8.9 Gbps
VPN-1 Throughput (3DES/SHA-1)	20 Mbps	8, 16, 32 users: 20 Mbps, Unlimited: 30 Mbps	112 Mbps		500 Mbps	1.78 Gbps	1,194 Mbps	1,497 Mbps	2,300 Mbps
VPN-1 Throughput (AES256/SHA-1)	N/A	N/A	113 Mbps		500 Mbps	1.78 Gbps	1,217 Mbps	1,550 Mbps	130 Mbps
Firewall Connections Per Second – Nokia IPSO 3.8.1 and Check Point VPN-1 R55	N/A	8,000	5,581	4,779		58,066	39,853	62,979	87,000
Maximum FW-1 TCP/IP Connections	N/A	N/A	135,000	90,000	725,000	725,000	725,000	725,000	725,000

**Power Requirements**

AC Input Voltage	100-120 V/200-240 VAC	100-120 V/200-240 VAC	100-120 V/200-240 VAC		100-120V/200-240 VAC	100-120 V/200-240 VAC	100-120 V/200-240 VAC	100-120 V/200-240 VAC	100-120 V/200-240 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Current	1.0 A	1.0 A	1.8 A		3.0 A	3.0 A/1.5 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A
Volts (US)	12	12	110		120	110	100	100	100
Amps (US)	1.25	1.5	0.5		1.8	3	3.5	3.5	3.5

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Product									
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Power Requirements									
Volts (Europe)	-	-	220		220	220	240	240	240
Amps (Europe)	-	-	0.25		0.85	1.5	1.5	1.5	1.5
Peak watts (US)	-	-	55		162	330	350	350	350
Peak watts (Europe)	-	-	55		127	330	360	360	360
Sustained Watts	14.4	-	52.1		150	225	328.6	328.6	328.6

Operating Environment									
Operating Temperature	5°C - 40°C	-	5°C - 40°C		-5°C to +45°C	0°C - 40° C	5°C - 40°C	5°C - 40°C	5°C - 40°C
Operating Humidity	10% - 90%	-	10% - 90%		10%-90%	10% - 90%	10% - 90%	10% - 90%	10% - 90%
Peak BTU/Hr	-	-	187.7		553	1127	1194.6	1194.6	9010.3
Max Sustained BTU/Hr	49.1	-	177.8		512	768	1121.4	1121.4	3276.5

Physical									
Height (in/cm)	1.8 in/4.3 cm	1.2 inch/3.0 cm	1.60 in/4.06 cm		1.75 in/4.5 cm	1.75 in/4.5 cm	3.46 in/8.79 cm	3.46 in/8.79 cm	5.21 in/13.2 cm
Depth (in/cm)	5.8 in/14.5 cm	8 inch/20.3 cm	15.95 in/40.51 cm		17 in/43.2 cm	24.7 in/62.7 cm	21.15 in/53.72 cm	21.15 in/53.72 cm	24.45 in/62 cm
Width (in/cm)	7.2 in/18.3 cm	4.8 inch/12.2 cm	8.15 in/20.70 cm		17 in/43.2 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm
Weight	1.5 lb/(0.7 kg)	1.8 lbs/0.82 kg	9.1 lbs/4.2 kg		18 lbs/8.2 kg	26.4 lbs / 12 kg	36 lbs/16 kg	36 lbs/16 kg	47.5 lbs/21.6 kg

For Nokia IP200 Series in a Two-Unit rack mount									
Rackable			1 RU 19"						
Height (in/cm)			1.71 in/4.34 cm						
Depth (in/cm)			16 in/40.64 cm						
Width (in/cm)			17.00 in/43.18 cm						
Weight			26.4 lbs/12.0 Kg						

Service									
On Site	No	No	Nokia Platforms have a selection of either On Site and/or Advance Replacement support available						
Advance Replacement	(See the monthly Nokia price list for details)								

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