

Nokia Update Q1 2008

- New platforms
- Nokia IPSO 6.0
- ADP cards
- Nokia Horizon manager
- Sourcefire and Nokia

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Nokia Markets

Security:

Making it possible for business people to work together

Communicate

- Immediate communication via voice, messaging, IM

Collaborate

- Managing your day-to-day business

Operate

- Interacting with enterprise applications and business information

Protecting your business information and monitoring network activity.

Mobile security

Protecting information on and through mobile devices.





We Secure the Internet.

Strengths

- Established leader in firewalls
- Security focus
- Large enterprise installed base
- Service provider relationships
- Specialist distributor coverage
- Channel focus
- Technical support

Opportunities

- Grow client security business
- Target mid-market
- Recruit SMB partners
- Partner with networking vendors
- Streamline licensing
- Move into compliance solutions
- Develop/acquire new technologies



Enterprise Security Analysis EMEA

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Strengths

- Global brand
- Leading Check Point partner
- Specialist distribution focus
- More aligned with Check Point strategy
- High-end security solutions
- Generous channel margins
- Support infrastructure

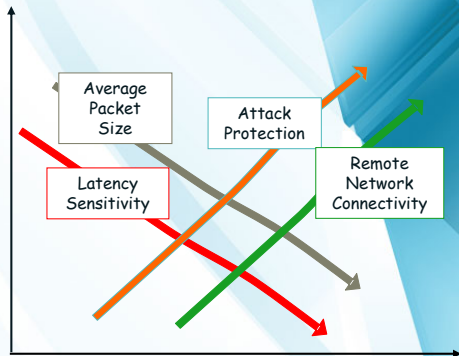
Opportunities

- Fixed-mobile convergence
- Converged voice security
- Attack the mid-market
- Go for growth
- Move beyond large enterprise accounts



Network in changing environment

- Increased used of small packet applications (VoIP, multi-media, streaming video)
- Applications are more sensitive to latency
- Application vulnerabilities and attacks are on the rise
- Increasing demand for remote network connectivity



- Provide performance for large and small packet traffic mix
- Make traffic decisions with low latency to ensure applications are not affected
- Handle traffic load and complexity of increasing number of connection points
- Prevent/mitigate network and application-level attacks

10 Reasons they Resell Nokia Security*

1. Partnerships
2. Technical Support
3. Reliability / Stability
4. Brand / Reputation
5. Security Platforms
6. Performance / Scalability
7. Nokia IPSO™
8. Manageability
9. Channel Support
10. Customer Loyalty

NOKIA
Connecting People

life search

Nokia for Business

Home Products Solutions News Channel partners Services & support Glossary Business lounge Contact

partner center

Manage your partnership Sales & marketing tools Technical tools

Nokia for Business Channel Program

The flexible Nokia for Business Channel Program rewards expertise and commitments in delivering business mobility solutions

- Learn more
- Register to join
- Get certified

Find a partner

Collaborate with another Nokia for Business Channel Partner to complement your offering.

- Find one now

Managing your partnership is an important element to your ongoing success as a Nokia for Business Channel Partner. Access to the following business tools is available only for those designated individuals from your organization who manage the relationship with the program:

- Lead management
- MDF program tool
- Program rebate tracking
- Company profile update

Build sustainable competitive advantage by using sales and marketing tools developed by Nokia experts 1 support day to day business activities, such as:

- Sales Training
- Product information
- Collateral material
- Sales tools
- News and information
- Channel incentives
- Brand guidelines
- Image library

Technical personnel can enhance their performance and your customers' satisfaction levels by taking advantage of:

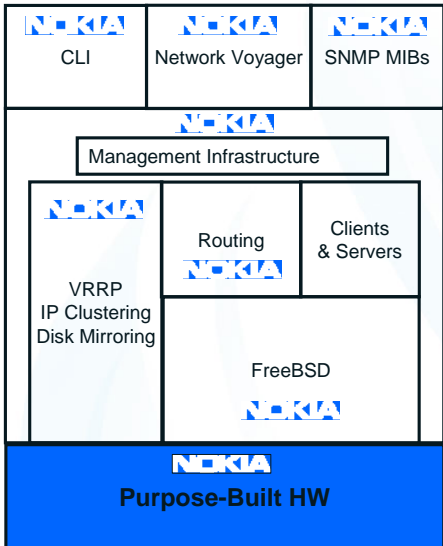
- Nokia SupportWeb
- Ask Nokia Knowledge Base
- Technical Training

Log in

Log in

*As written by existing Nokia resellers

What *is* IPSO?



- **A purpose-built software platform on purpose-built hardware**
- FreeBSD + Nokia IP Stack (L3 & below)
- Open-source routing + major improvements
- High availability features: VRRP, IP Clustering, disk mirroring
- Open-source clients & servers for common networking functions
- Security hardening of all components
- Management infrastructure (“xpanD”)
- Image management: upgrade/fallback; backup/restore
- Management interfaces:
 - Voyager web GUI
 - IPSO command-line interface (CLI)
 - SNMP MIBs, both standard and enterprise (proprietary)

Nokia IPSO Highlights

- 10 Years Performance in Demanding Environments
- Installed Base 250,000+
- Hardened Security OS
- Leading Edge Routing Support
- Carrier Class Voltage, Temp
- Hot Swappable Modules, Interfaces
- VRRP, Patented IP Clustering
- Global Support & Service
- SecureXL Acceleration
- PIM Acceleration, Multi-cast Support
- Optional Add-on with Nokia Accelerated Data Path (ADP)
- Back-Up, Restore, Roll-back
- Central Role-Based Admin
- Geographic Interface Naming
- Network Voyager – Secure Remote Management

IPSO 6.0 At A Glance

- IPSO 6.0 based on **FreeBSD 6.1** and **IPSO 4.1** (not IPSO 4.2)
- Runs on IP690 and IP2450 platforms
- Supports Check Point VPN/1 R65 for IPSO 6.0 (no UTM)
- IPSO 6.0 provides:
 - Support for multiple CPUs on IP690 and IP2450 platforms
 - Improved scheduling, memory management and interrupt delivery
 - Improved disk mirroring, using FreeBSD's GEOM, with impacts on disk naming
 - Updated services, utilities and monitoring tools from FreeBSD 6.1
 - Updated filesystem (FFS2), upwards compatible from IPSO 4 (FFS1).
 - Latent support for Universal Serial Bus (USB)
- Upgrade supported from IPSO 4.2, running R55p, R60, R61, R62 or R65
 - See Getting Started Guide for restrictions and upgrade procedures.

Features in IPSO 4.2 but not in IPSO 6.0

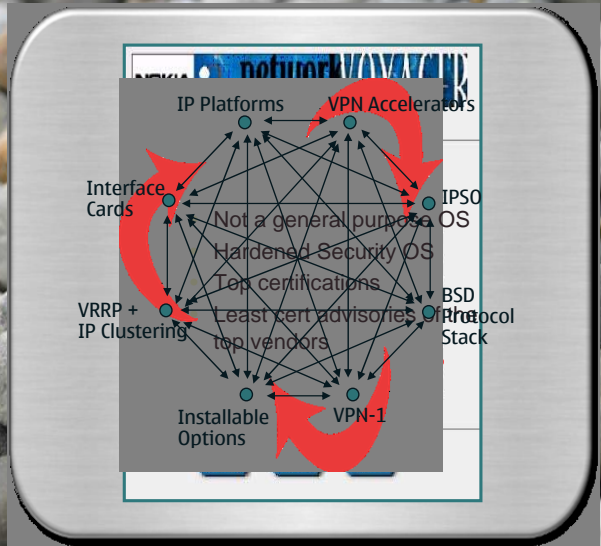
Feature	IPSO 4.2	IPSO 6.0	Comments
LACP	✓	✗	Link aggregation ports are configured as in IPSO 4.1
LRG	✓	✗	Not supported
IGMPv3	✓	✗	No static and local groups
PIM-SSM	✓	✗	PIM-SSM and PIM-DM state refresh not available
PIM-Acceleration	✓	✗	No SXL support for multicast data
QOS	✓	✗	Not supported, IPSO 4.1 feature not present
UTM	✓	✗	R65 different versions for 4.2 and 6.0
VRRP HDD Failure	✓	✗	Not ported in 6.0

Nokia IPSO: Foundation for Robust Security

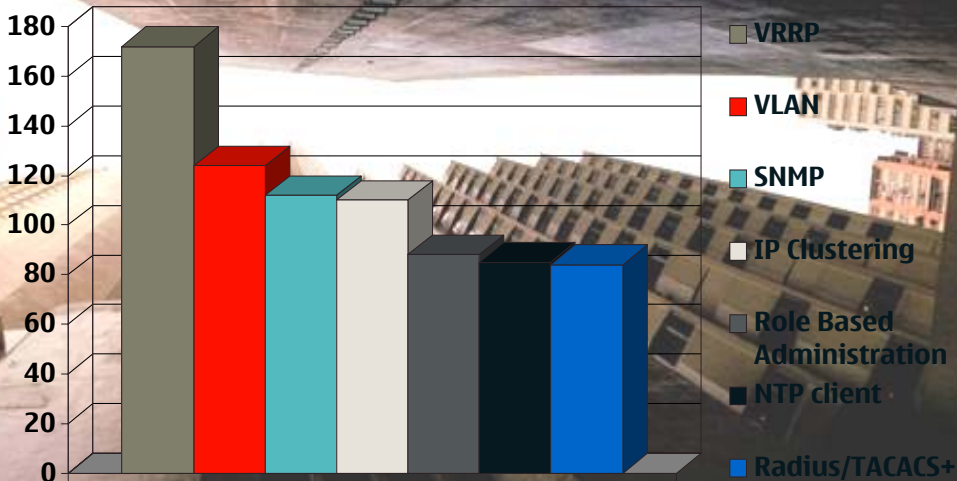
Optimized

Reliable

Proven


















Frequently Used Nokia IPSO Features



Based on IPSO Customer Survey, May 2007, # of users (total = 234)

Nokia IP Security Platform Portfolio

<p>Low-end</p>	<p>Mid-range</p>	<p>High-end</p>
 <p>Nokia IP60</p>  <p>Nokia IP290</p>  <p>Nokia IP260</p>	 <p>Nokia IP690</p>  <p>ADP card</p>  <p>Nokia IP560</p>  <p>ADP card</p>  <p>Nokia IP390</p>	 <p>Nokia IP2450</p>  <p>ADP card</p>  <p>Nokia IP2255</p>  <p>Nokia IP1280</p>  <p>ADP card</p>  <p>Nokia IP1220/IP1260</p>  <p>ADP card</p>



Nokia ADP Cards



- Nokia Accelerated Data Path (ADP) cards accelerate the firewall and VPN performance of Nokia IP560, Nokia IP690 and Nokia IP12XX platforms without forklift upgrades
- Nokia ADP cards achieve the performance improvement by off-loading and distributing packet processing between the CPU and network processor

Benefits



- Nokia ADP cards provide investment protection by extending the life of Nokia IP560, Nokia IP690 Nokia IP1220 and Nokia IP1260 platforms without forklift upgrades
- Nokia ADP cards present an opportunity for customers to extend the lifecycle of their Nokia IP560, IP690, IP1220, and IP1260 platforms

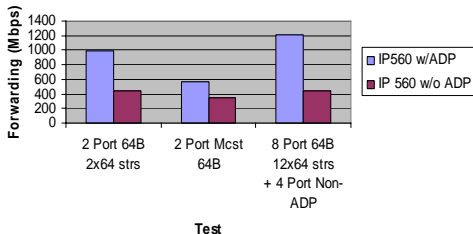
Impact on existing Nokia Security Appliances

- Increasing pressure to deliver performance response to the changing traffic pattern across our F/W appliances
 - Deliver best price/performance response to
 - Increasing amount of traffic - Large & Small Packet
 - Increasing amount of data – Improved Throughput
 - HTTP is a big portion of any enterprise traffic now and expected to grow
 - Predominant Applications
 - HTTP
 - Browsing
 - Webified ERP/CRM
 - Email (POP/SMTP), Lotus Notes, Data Backup and Restore, Video
- Improve total # of connections and connections per second
- Reduce latency

Deliver all this without forklift upgrades!

Sample Performance Comparison – IP560

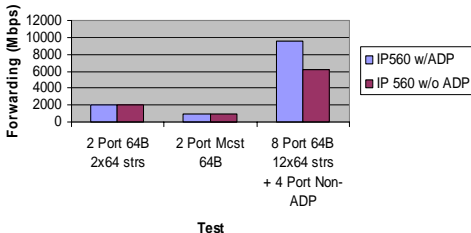
Small Packet Performance



- Almost Triple the Small Packet Performance – best scenario !
- Double the Small Packet Performance – for those skeptics !

- 50% Large Packet Performance improvement over non-ADP based systems

Large Packet Performance



Nokia Horizon Manager

Nokia Horizon Manager

SmartCenter/
Provider-1

Boston

London

Paris

Nokia IPSO

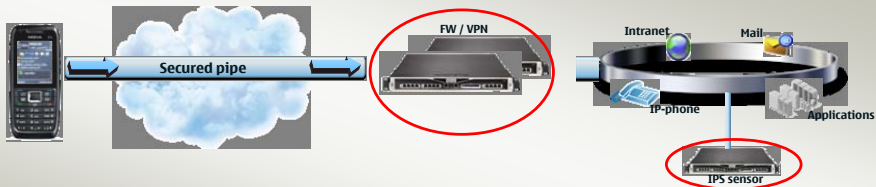
Singapore

New
York

- For mid- to Large-size Enterprises that have standardized on Nokia for their security platform solution
- For IT executives who need to drive business-enhancing IT initiatives and improve productivity and consistency
- Nokia Horizon Manager is an "across-the-enterprise" deployment, maintenance, and recovery solution. It ties together the best-in-class solutions of Nokia IP Security Platforms and security applications.

Nokia Mobile VPN Client Solution

- **Nokia Mobile VPN enables users to access corporate intranet services securely from mobile devices**
 - Seamless connectivity for any mobile application
 - Over-the-air provisioning and management of VPN settings and policies
 - Integrates with IT-backend VPN infrastructure and authentication servers
 - Nokia Mobile VPN Client Solution consists of Nokia Mobile VPN Client and VPN client management solutions



End to End Management – Policy, Provisioning, Configuration and Monitoring

What's in Nokia Mobile VPN

Feature	Benefits
OMA Device Management	<ul style="list-style-type: none">• Manage VPN policies, connection settings, server certificates, and client certificates with a compatible device management solution.• Examples of such solutions: Nokia Intellisync Device Management, Nokia Configuration Tool• Specification will be publicly available
Internet Key Exchange ver. 2 (IKEv2)	<ul style="list-style-type: none">• Improved interoperability with more VPN gateways• Possibility for mobile operators to deploy SIM or USIM based authentication for VPN.
Silent VPN tunnel establishment when allowed by the policy	<ul style="list-style-type: none">• Connect to a VoIP service over VPN, while the device is in your pocket• Better usability of intranet browsing as no passwords need to be entered• (Silent authentication with client certificates is not supported by the first software release of the Nokia E90 Communicator)
Manual configuration	<ul style="list-style-type: none">• Set up the VPN client and import a VPN policy file through the device UI• For trials and customer acceptance cases, as well as deployments where a device management solution is not available

Nokia Intrusion Prevention



SOURCEfire[®]
Security for the real world

Core Products

Intrusion Sensor



RNA



RUA



Defense Center



Product Highlights

- Provides industry standard, **Snort-based** inline IPS or passive IDS
- Leverages Snort rules to offer broad detection capabilities
- Uses powerful and flexible engine

- Provides network and endpoint intelligence
- Determines the composition and behavior of networked devices through **Network Behavior Analysis (NBA)**
- Uses “Always on” passive network discovery

- Provides 24x7 passive identity discovery with **comprehensive user identity information capture including e-mail and IP addresses**
- Uses LDAP and Active Directory domains as sources of data
- Leverages the same data collection sensors as Sourcefire IPS and RNA

- **Correlates the attacks with network intelligence**
- Triggers or automates responses to events
- Centrally manages, enforces, and reports on security, policy, and compliance

Nokia Support Strengths

- **Global footprint**
 - Expert resources strategically located
- **TAC 7x24 availability**
 - Deep technical expertise on Device, Security & Mobility apps
 - Annually certified through SCP
- **Single Point of Contact**
 - First Call – Final Resolution
 - Collaborative support
- **Nokia Support Web**
 - Ask Nokia - Knowledge Base
 - Documentation & Self help
 - QuoteService



Services include:

- Technical Support
- Follow-the-Sun
- Single Point of Contact
- Product-level Support Teams
- Co-located with R&D
- Solution Experts
- Online Software Updates
- Knowledgebase Access
- Online Case Management
- Advance Hardware Replacement
- Optional Onsite Support



Expansive labs to **replicate and troubleshoot** customer issues

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A serene landscape with a tree and a moon over water. The scene is set against a deep blue sky. In the foreground, a calm body of water reflects the sky and the elements above. A single, dark silhouette of a tree stands on a grassy bank in the middle ground. In the upper right, a large, glowing sphere resembling the Earth is visible, with a crescent moon positioned just above it. The overall mood is peaceful and contemplative.

grow | your
potential

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