Nokia and Internet Security Systems

A Partnership of Excellence

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Industry-leading Intrusion Detection Solutions from Nokia and Internet Security Systems

Businesses around the world are poised to reap enormous benefits from Internet connectivity, including huge productivity gains, reduced operating costs, vastly greater reach, and much more. But how can a company open up its network for easy global access while ensuring appropriate and secure access to precious resources? The current and potential threats and vulnerabilities that exist within the Internet's environment can jeopardize everything. To make the most of the Internet, businesses need security solutions designed to keep pace with the many risks and vulnerabilities. Intrusion Detection protects businesses and their computer systems and networks from abuse and provides an additional layer of protection for today's business environment.

"Like in other security marketplaces, appliances have grown in popularity because of their ease of use, reduced complexity, hardened operating system, manageability, and performance specifications that can be managed by the manufacturer," said Charles Kolodgy, IDC Analyst.

"The migration to specific, purpose built IDS appliances will continue to gain momentum as more businesses field network IDS. Nokia and Internet Security Systems have created an IDS appliance solution that has quickly absorbed market-share, and effectively provides the additional layer of security required to significantly reduce the risk of attack."

The Nokia and Internet Security Systems™ partnership established three years ago has successfully delivered enterprise-class, network-based, intrusion detection system (IDS) solutions. The combination of purpose-built security platforms from Nokia tightly integrated with the award-winning RealSecure® intrusion detection application from Internet Security Systems makes RealSecure for Nokia the most cost-effective and easiest to deploy intrusion detection appliance available today.

INTERNET SECURITY SYSTEMS™

NOKIA CONNECTING PEOPLE

A Best-of-Breed Partnership

No one vendor can be an expert in the many areas of network security, with each discipline being highly specialized and rapidly changing. Nevertheless, Nokia believed it should be possible to make security all encompassing yet simple with the right approach. Nokia's visionary strategy for network security has two key ingredients: an inherently secure, purpose-built platform—the Nokia IP Series appliances—and best-of-breed security applications from industry-leading providers.

According to IDC, RealSecure leads the worldwide network-based intrusion detection software market with a 56% share (Source: IDC, Minding the Store: Intrusion Detection and Vulnerability Assessment Market Forecast and Analysis Update, 2000-2005, December 2001). With its industry-leading intrusion detection and vulnerability assessments, remotely managed security services and strategic consulting and education offerings, Internet Security Systems is a trusted security provider to more than 9,000 customers worldwide, including 21 of the 25 largest U.S. banks and the top 10 U.S. telecommunications companies.

The reason Nokia selected Internet Security Systems as one of its best-of-breed partners is simple: RealSecure is the industry's best and most comprehensive intrusion detection and response system.

Intrusion Detection and Firewalls Together Provide Maximum Perimeter Protection

Intrusion detection is a critical element in the overall electronic security infrastructure. When installed in conjunction with a firewall, IDS provides an additional layer of security that significantly decreases the risk of an attack going undetected.

Firewalls have emerged as the primary tool used to prevent unauthorized intrusion and should always be viewed as the first line of defense on any system connected to the Internet. While firewalls provide an excellent access control and authentication to corporate networks, IDS focuses on monitoring the actual content of the data streams and user activity that go beyond firewall functionality. This is critical in protecting against unauthorized access by insiders and is also necessary in detecting hackers that have found their way in and may be causing damage or stealing assets. A reported increase of system penetration from the outside has risen from 25% in 2000 to 40% in 2001 (Annual Survey, Computer Security Institute (CSI) and FBI, March 2001).

How RealSecure for Nokia Works

Like all IDS solutions, RealSecure begins where the firewall leaves off. Realizing that firewalls inspect the connection-oriented aspects of traffic, RealSecure focuses its efforts on the extended contents of both the packet header and the data payload. Effective intrusion detection involves deployment of sensors at strategic points throughout the network. These sensors, which are the RealSecure for Nokia appliances, analyze traffic continuously and unobtrusively to recognize hostile activity or misuse. But unlike other IDS solutions that only detect such threats, RealSecure for Nokia responds immediately and automatically by terminating the connection, setting off alarms or pagers, reconfiguring other security systems, such as firewalls, and recording the attack for forensic analysis.

With the success of recent attacks such as the viruses Code Red and Nimda against sites protected by firewalls, security managers have come to realize that network security involves more than just a firewall; multi-faceted solutions are required for truly comprehensive network security. Furthermore, these solutions must work together well in addition to addressing complementary security threats. The IDS detects a variety of denial of service (DoS), distributed DoS (DDoS) and other attacks that are designed to circumvent even the most state-of-the-art, properly configured firewalls. IDS detection is particularly important for Internet data centers, individual Web sites and e-commerce applications, where the effects of a denial of service attack are the most damaging.

Tight Integration for Ease of Deployment

The key to simplifying security is tight integration between the application and the hardware. This is why Nokia and Internet Security Systems have, to date, a joint staff of 25 people devoted to making RealSecure for Nokia as simple as it is comprehensive. As a pre-installed and pre-configured software/hardware solution, RealSecure for Nokia is normally up and running quickly, while most IDS sensors can take several hours to install and configure. This effort goes well beyond rapid deployment. Extensive testing is also conducted to ensure proper operation and peak performance bringing maximum value to customers.

Operating and managing RealSecure for Nokia is just as easy with tools like Nokia Horizon Manager and the Internet Security Systems Workgroup Manager/Site Protector™. Nokia Horizon Manager brings all-important back-up and restore capabilities to IDS, simplifying remote management. The Internet Security Systems Workgroup Manager/Site Protector™ ensures RealSecure is updated with the most current attack signatures and program updates. This is accomplished through X-Press Updates™ product enhancements which are "pushed" to all sensors simultaneously and automatically. Backed by Internet Security Systems X-Force™ organization, a group of world-class security experts focused on uncovering, documenting and innoculating against the latest threats, RealSecure for Nokia is truly the most effective and easy-to-deploy intrusion detection solution available today.

Nokia—The Internet Security Systems Appliance of Choice

Internet Security Systems has worked with Nokia to make sure that the integration of RealSecure and the Nokia IP Series goes beyond that which can be achieved by standalone solutions. That is why Internet Security Systems Managed Security Services (MSS) has selected the Nokia IP series as "The Appliance of Choice."

Internet Security Systems knows the Nokia solution has the kind of dependable operation and low total cost of ownership needed to preserve the cost-saving advantages of managed security services. And this has strategic importance since these values are passed on to enterprises looking to outsource their IDS implementations.

Nothing But the Best

Never has it been more apparent that security must be the foundation of all efforts to better connect with customers and partners. And as the number and variety of potential security risks continues to increase, so too do the types of network security devices necessary to safeguard information to take full advantage of the Internet as a business resource.

This is why the Nokia and Internet Security Systems relationship was launched, and why its importance increases with every new threat that makes headlines. The industry's leading IDS application running on the industry's leading purpose-built platforms—this straight-forward—what Nokia and Internet Security Systems provide today.

To learn more about RealSecure for Nokia, or the other components of Nokia's comprehensive, best-of-breed network security offering, visit **www.nokia.com** and click on Secure Network Solutions or call 1-800-997-9199.

Looking Smart @ LookSmart—RealSecure for Nokia in Action

Security has always been important to LookSmart, the world's leader in Web directories, because the company's databases are accessed by millions of users worldwide. Firewall protection alone was not enough, so LookSmart began searching for a comprehensive security solution that integrated firewall protection with intrusion detection and virtual private networking capabilities. Like many other organizations, though, LookSmart was not an expert in network security. That is why the company decided to outsource its needs to a managed security services provider that employed best-of-breed solutions.

LookSmart found what it needed—and more—through the strategic partnership between Nokia and Internet Security Systems. In addition to being a vendor of software-based network security applications, Internet Security Systems has Managed Security Services. And for its platform of choice, Internet Security Systems had already selected Nokia's IP Series network security appliances for their purpose-built designs, wide range of price/performance options, plug-and-play deployment, ease of centralized management and low total cost of ownership.

To claim LookSmart is pleased with its decision is an understatement. Leaving nothing to chance, the company contracted with TrustWave Corporation to perform an independent audit of LookSmart's perimeter defense system. The results? To date, try as they might, TrustWave has yet to penetrate LookSmart's security solution. Which should come as no surprise from using the best-of-breed RealSecure intrusion detection system on the industry's premier security appliance: the Nokia IP Series network security platform.

About Nokia

Nokia is the world leader in mobile communications. Backed by its experience, innovation, user-friendliness and secure solutions, the company has become the leading supplier of mobile phones and a leading supplier of mobile, fixed and IP networks. By adding mobility to the Internet, Nokia creates new opportunities for companies and further enriches the daily lives of people. Nokia is a broadly held company with listings on six major exchanges.

About Nokia Internet Communications

Nokia Internet Communications, headquartered in Mountain View, California, provides world class Network Security and Virtual Private Network solutions that ensure the security and reliability of corporate enterprise and managed service provider networks. Nokia is committed to enhancing the end user experience by bringing a new level of security and reliability to the network, enabling an Internet transaction that is personal and trusted—each and every time. For more information, please visit **www.nokia.com/** and click on Secure Network Solutions.

About Internet Security Systems

Internet Security Systems is a leading global provider of security management solutions for the Internet, protecting digital assets and ensuring safe and uninterrupted e-business. With its industry-leading intrusion detection and vulnerability assessment, remote managed security services, and strategic consulting and education offerings, Internet Security Systems is a trusted security provider to more than 9,000 customers worldwide including 21 of the 25 largest U.S. commercial banks, the top 10 U.S. telecommunications companies, and all major branches of the Federal Government. Founded in 1994, Internet Security Systems is headquartered in Atlanta, GA, with additional offices throughout North America and international operations in Asia, Australia, Europe, Latin America and the Middle East. For more information, visit the Internet Security Systems web site at <http://www.iss.net> or call 888-901-7477.

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