



›THIS IS THE WAY

WE MAKE SECURE CONNECTIVITY AVAILABLE  
TO MORE THAN 100 MILLION USERS WORLDWIDE

›THIS IS NORTEL™

## Solution Brief

### Nortel Secure Information Access Solution

*Hackers. Viruses. Hostile networks. Each day, outside forces wreak havoc on information systems — leading to millions in lost dollars for enterprises and individuals. A recent CSI/FBI Survey estimated that in 2004, losses exceeded more than \$11 million in intellectual property; \$55 million due to viruses; and \$10 million from wireless access abuse<sup>1</sup>. With so much at stake, it's no wonder enterprises and government agencies place unprecedented focus on protecting the lifeblood of their business — their communication network.*

An expanding mobile workforce, increasing customer expectations and shrinking IT budgets are some of the new realities shaping how the world does business.

Protecting information from unauthorized access or disclosure is vital to staying in business, but so is ensuring that authorized users can access pertinent information when and where they need it.

The Nortel Secure Information Access Solution leverages a layered defense approach to security. No single security product resolves all possible security issues. As such, organizations must include other appropriate controls including anti-virus, anti-spyware, personal firewalls, etc. as they see fit to resolve other potential security concerns within their network.

Using endpoint integrity, encrypted data paths and award-winning hardware, Nortel's Secure Information

Access Solution maintains the security of information — protecting it from unauthorized users, regardless of what network it passes through.

Nortel has a long history in data and voice communications. It has the expertise, experience and know-how to address the new realities and challenges of a changing world — cost-effectively and efficiently.



<sup>1</sup> 2004 CSI/FBI survey, <http://www.gocsi.com>

## Nortel: The secure choice

Nortel's Secure Information Access Solution improves operational efficiency, integration simplicity and security adaptability to unforeseen events — so enterprises can realize reduced total cost of ownership and increased return on investment. Developed using standards-compliant services and strategic partnerships, Nortel's products and solutions are easily integrated into even the most mature networks.

Nortel's Secure Information Access Solution provides the enterprise with distinct competitive advantages in today's market, such as the ability to offer new services to clients, respond quickly to changes in networking technology, and maintain business operations when disaster strikes.

## Nortel's Secure Information Access Solution

The Nortel Secure Information Access Solution includes VPN access, firewall and threat protection technology, device management and professional services — including managed VPN, network design, installation and maintenance.

> **Nortel is used in the world's largest and most important stock exchanges, supporting billions of transactions (New York, Shanghai, Australia, Mumbai, Seoul, Buenos Aires and Sao Paulo).**

### Branch-to-branch secure access

Using the VPN Router (formerly known as Contivity\*), secure connectivity is established from home and branch offices allowing secure voice, video and data between the locations. This solution allows organizations to take advantage of cost savings by using public networks over dedicated private facilities. Using public networks also decreases the time and cost of deploying connectivity to new offices or new business partners.

Nortel's exclusive Secure Routing Technology (SRT) is used between VPN endpoints to support routing in the encrypted data path. SRT optimizes security by selecting the best route for the type of data and destination. The SRT capabilities reduce the need for additional routers to manage the data path, therefore decreasing network implementation cost and reducing router-based delay that can impede real-time traffic (VoIP, SIP, multimedia, etc.). Specific VPN Router models can also provide an integrated firewall and SSL VPN services using an add-on module.

The Nortel VPN Router is ideal for enterprises that need IPSec for client or site-to-site connectivity, with or without SSL VPN services.

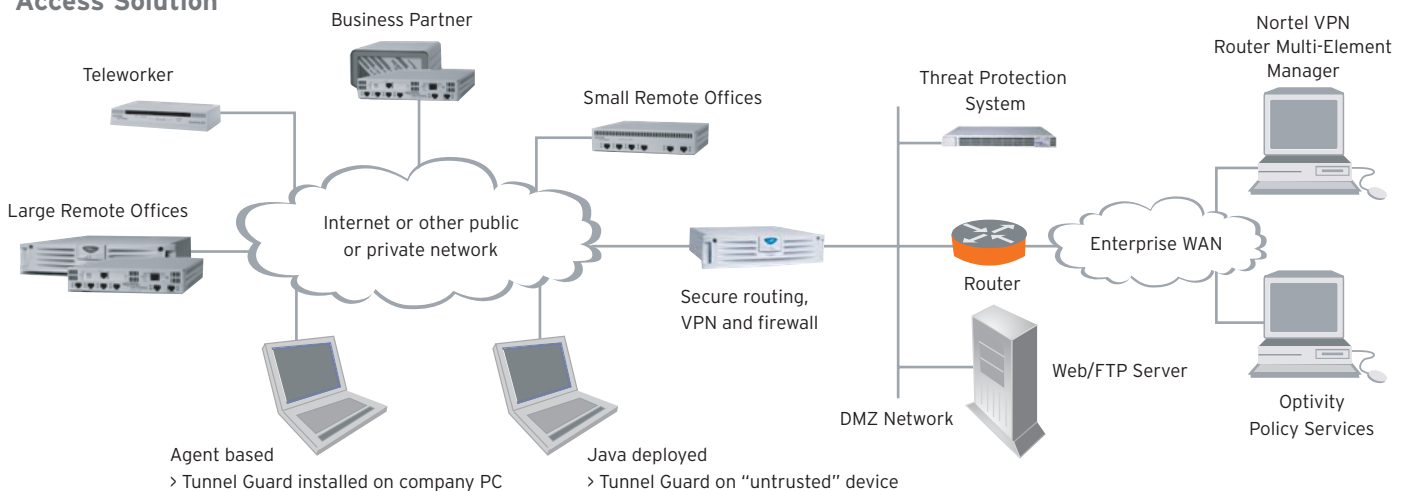
### Secure remote access

The Nortel VPN Gateway provides high-density, highly scalable, integrated SSL and IPSec VPN support. Organizations use this for Web-based applications or full network connectivity. Full network connectivity is enabled by a software network adapter that provides a network-level VPN connection.

### Protecting the endpoint

The Nortel Secure Network Access Solution verifies the integrity of the endpoint or remote client. It checks for compliance with organizational security policy before providing connectivity to the network. If the endpoint fails one or more of the compliance checks, several remediation options are available to assist the user in resolving the problem: denying access, providing access to corrective tools or providing access to a limited set of applications.

**Figure 1. Sample connectivity using Nortel Secure Information Access Solution**



## Firewall and threat protection

VPN access points are deployed at the edge of the enterprise network and require both firewall and intrusion prevention technologies. Nortel's VPN Router acts as a secure router, VPN endpoint and provides integrated firewall services for both VPN and non-VPN data. For high-performance security optimized for VoIP, SIP and multimedia services, the Nortel Switched Firewall combines Nortel switching and acceleration with the best firewalling technology from Check Point.

The Nortel Threat Protection System (TPS) delivers high-performance, out-of-path intrusion detection. When linked with a Nortel Switched Firewall (formerly known as Alteon\* Switched Firewall), the TPS can instantly update the rules on the firewall to block a new attack.

## Tried, tested — and widely deployed

Every new feature and software revision in Nortel's Secure Information Access solution is proven before it reaches the customer — through thorough testing and successful deployments to Nortel's approximately 10,000 home-based employees.

Nortel's Secure Access technologies have won numerous awards from major testing and publication services, including SearchNetworking.Com and Network Computing.

## Real-world applications

Nortel's Secure Information Access Solution based on IPSec and SSL VPN technologies is already at work in the real world — leading to significant benefits across a wide range of industries. Enterprises using private networks for network connectivity to remote offices or business partners can lower network costs significantly — simply by

deploying an IPSec VPN between those networks using a public network such as the Internet. This eliminates monthly private network costs and allows for quick routing, configuration changes as well as consolidation of multiple remote offices or business partners into one access point.

## Government applications

Select models of Nortel's VPN Router have achieved FIPS certification with Common Criteria certification in progress — giving government departments, organizations and agencies confidence that information will be protected in both public and higher security environments. The Nortel Secure Information Access Solution meets the Triple DES (3-DES) encryption requirements mandated by the FBI and NCIS for use with mission-critical IP-based applications and networks. Nortel is the first networking vendor to provide an end-to-end VoIP solution certified by the U.S. Defense Department Joint Interoperability Test Command (JITC), meaning government agencies can utilize high security mobility with Voice over IP.

## Financial services applications

To ensure the security and confidentiality of customers' non-public personal information, Nortel's VPN solutions help financial institutions comply with recent laws and regulations such as Gramm-Leach-Bliley. Connectivity via IPSec and SSL VPN provides secure transfer of sensitive information across the Internet or any untrusted network through the use of encryption and user authentication. This includes communication to and from customers accessing their accounts over the Internet; branch locations; executives and account management in the field; and outsourcing partners.

## Conclusion

An increasingly mobile world creates greater efficiencies and new concerns about the protection of information. Nortel's proven Secure Information Access Solution allows enterprises and individuals to communicate across the city or across the world — securely, effectively and economically.

## Why Nortel?

### Nortel Secure Information Access Solution:

- > Provides secured access to the corporate network for mobile, remote and home-based employees regardless of location
- > Enables use of kiosk, mobile and PDA technologies for data access
- > Leverages public networks for business partner connectivity
- > Ensures end-point integrity for connected users and systems
- > Lowers network costs and improves reliability
- > Supports remote access to VoIP, SIP and multimedia applications
- > Provides an adaptive defense to protect against hacks, attacks, worms and viruses.
- > Integrated SSL and IPSec solutions
- > Leverages strengths of complementary SSL and IPSec technologies

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Nortel is a recognized leader in delivering communications capabilities that enhance the human experience, ignite and power global commerce, and secure and protect the world's most critical information. Serving both service provider and enterprise customers, Nortel delivers innovative technology solutions encompassing end-to-end broadband, Voice over IP, multimedia services and applications, and wireless broadband designed to help people solve the world's greatest challenges. Nortel does business in more than 150 countries. For more information, visit Nortel on the Web at [www.nortel.com/enterprisecurity](http://www.nortel.com/enterprisecurity).

For more information, contact your Nortel representative, or call 1-800-4 NORTEL or 1-800-466-7835 from anywhere in North America.

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