



Position Paper

Nortel's Layered Defense approach to network security

The Nortel Layered Defense approach to network security is designed to ensure there are no single points of security failure in a network, thus allowing the network to adapt to new and changing threats. It is accomplished by using multiple approaches to security enforcement at multiple areas within a network. Based on open, standards-based solutions, this approach enables easy integration and simplified operations that reduce the overall network security total cost of ownership.

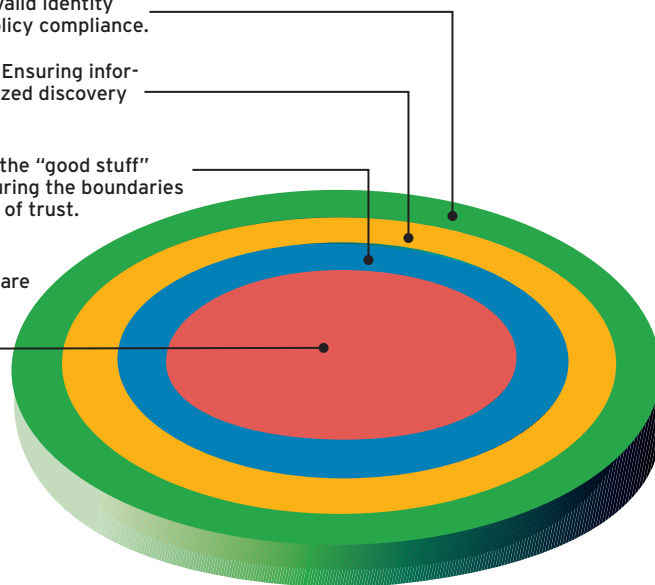
The Layered Defense approach leverages broad functional security solution components such as **Endpoint Security**, **Perimeter Security**, **Communications Security** and **Core Network Security** for protection against current and future network security vulnerabilities and threats. More information on Nortel's Layered Defense approach can be found at <http://www.nortel.com/enterprisesecurity>.

Endpoint Security Ensuring valid identity and connected device security policy compliance.

Communications Security Ensuring information protection from unauthorized discovery over the network.

Perimeter Security Keeping the "good stuff" in and the "bad stuff" out by securing the boundaries between zones of different levels of trust.

Core Network Security Keeping watch for malicious software and traffic anomalies, enforcing network policy and enabling survivability.



Layered Defense

Solution component	Customer challenge	Nortel solutions	Benefits <small>*Based on a sample solution</small>
Endpoint Security	<ul style="list-style-type: none"> Ensuring identity and device compliancy Stopping threats at the source (viruses, worms, hackers, etc.) 	<ul style="list-style-type: none"> Secure Network Access (SNA) solution implemented by the Secure Network Access Switch, VPN Gateway, VPN Router, Nortel and third-party Ethernet Routing Switches, the Nortel Health Agent and Tunnel Guard Identity Engines portfolio Wireless LAN 2300 Series Enterprise Policy Manager 802.1X-enabled Ethernet Switches Secure Portable Office 	Nortel Identity Engines portfolio: <ul style="list-style-type: none"> Centralized policy decision across wired, wireless and VPN networks Comprehensive, granular policies to address all user types (e.g., employees, guests, contractors) Robust reporting capabilities Device agnostic — seamless integration with third-party infrastructure

Nortel's Layered Defense approach

Solution component	Customer challenge	Nortel solutions	Benefits <small>*Based on a sample solution</small>
Communications Security	<ul style="list-style-type: none"> Protecting information from unauthorized eavesdropping or misappropriation while in transit across hostile networks 	<ul style="list-style-type: none"> Secure Portable Office VPN Router Secure Router VPN Gateway Wireless LAN 2300 Series 	Secure Portable Office: <ul style="list-style-type: none"> Increased employee productivity with secure access to business-critical applications from anywhere Protect confidential data in transit and in storage via strong encryption
Perimeter Security	<ul style="list-style-type: none"> Securing the boundaries between zones of different levels of trust Ensuring security without impacting business agility 	<ul style="list-style-type: none"> Switched Firewall with Check Point™ Firewall Service Delivery Module for the ERS 8600 Secure Router VPN Router Application Switch 	Nortel Switched Firewall and third-party firewalls: <ul style="list-style-type: none"> Protect, support and prioritize real-time applications (VoIP, SIP, etc.) while maintaining user quality of experience
Core Network Security	<ul style="list-style-type: none"> Continuous monitoring of the network for malicious activity Ensuring survivability of the network 	<ul style="list-style-type: none"> Third-party Intrusion Detection/Intrusion Prevention Systems (IDS/IPS) Application Switches Enterprise Policy Manager 	Third-party Intrusion Detection/Intrusion Prevention Systems: <ul style="list-style-type: none"> Provides full intrusion detection and prevention capabilities including anomaly detection

Nortel's Layered Defense also leverages Security Management and Platform Security, as well as Nortel Services which are designed to secure and enable your network at every stage of the life cycle.

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