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Release Notes for Nortel Secure Network Access Solution

Software Release 1.0



NORTEL

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Introduction

These release notes for the Nortel Secure Network Access solution (Nortel SNA) describe the hardware, software, and any known limitations and considerations that exist in this release.

Find a list of related publications on [page 18](#). Find copies of Nortel Secure Network Access solution documentation on the CD included with your software, and also on the Nortel Web site at www.nortel.com/support. (For more information, see “[Reading path](#)” on [page 18](#).)

These release notes cover the following topics:

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The information in these release notes supersedes applicable information in other documentation.

Overview

Nortel Secure Network Access solution (Nortel SNA) is a protective framework to completely secure the network from endpoint vulnerability.

Nortel Secure Network Access solution security

The Nortel SNA solution addresses endpoint security and enforces policy compliance. Nortel SNA delivers endpoint security by enabling only trusted, role-based access privileges premised on the security level of the device, user identity, and session context. Nortel SNA enforces policy compliance, such as for Sarbanes-Oxley and COBIT, ensuring that the required anti-virus applications or software patches are installed before users are granted network access.

For Nortel, success is delivering technologies providing secure access to your information using security-compliant systems. Your success is measured by increased employee productivity and lower network operations costs. Nortel's solutions provide your organization with the network intelligence required for success.

Nortel Secure Network Access Switch 4050

The Nortel Secure Network Access Switch 4050 (Nortel SNAS 4050) controls the operations that secure the network, working with edge switches and network back-end servers and applications to provide an out-of-path solution. The Nortel TunnelGuard* network manager monitors user sessions controlled through Nortel SNA-enabled ports. The Nortel Security and Routing Element Manager (SREM) monitors solution statistics.

Supported hardware and software

A Nortel Secure Network Access solution implementation utilizes the network core router, the Nortel Secure Network Access Switch 4050, and Nortel SNA-enabled ports on one or more edge switches. The Nortel Secure Network Access solution secures both PC and VoIP phone clients in the network.

Switch hardware and software

[Table 1](#) lists supported network hardware and software.

Table 1 Supported network hardware and software

Component	Specifications
Core Router	Nortel Ethernet Routing Switch 8600, or any make or model router of similar specifications
Nortel SNAS 4050	Nortel SNAS 4050 Software Release 1.0 SREM 1.2.0.0
Edge Switch Options	Nortel Ethernet Routing Switch 5510, 5520, 5530, Software Release 4.3 Nortel Ethernet Routing Switch 8300, Software Release 2.2.8 Java Device Manager JDM 5.9.5.0

Client hardware and software

Table 2 lists supported PC client hardware and software.



Note: The current release of SREM client software is not supported on UNIX or Linux platforms.

Table 2 Supported PC client hardware and software

Client hardware and software	Versions
PC clients	Microsoft Windows 2000 Professional SP4 Microsoft Windows XP SP2
Browser options	Internet Explorer 6.x Mozilla Firefox 1.0.x Netscape Navigator 8.0.x
Java Runtime Environment	Sun JRE 1.5.0_04 or later (required for all browsers)

Table 3 lists supported VoIP phone models, call servers and firmware.

Table 3 Supported VoIP client phone models, call servers, and firmware versions

VoIP phone model	Business Communications Manager BCM50e: Build_1.28 BCM1000: Version 3.6	Communication Server 1000, Version 4.5	Multimedia Communication Server 5100, Version 3.0
IP Phone 2002 model NTDU76 (Nortel SNA Phase1)	F/W 0603B60	F/W 0603B60	F/W 0603B60
IP Phone 2002 model NTDU91 (Nortel SNA Phase2)	F/W 0603D65	F/W 0603D65	F/W 0603D65
IP Phone 2004 model NTDU92 (Nortel SNA Phase2)	F/W 0604D65	F/W 0604D65	F/W 0604D65
IP Phone 2007 model NTDU96 (Nortel SNA Phase TBD)	F/W 0621C23	F/W 0621C23	F/W 0621C23

[Table 4](#) lists authentication and other back end services specifications.

Table 4 Authentication software and back end services

Software	Version
LDAP Authentication	Open LDAP 2.2.26 LDAP-S: Sun server (TBD)
RADIUS Authentication	SBR (Steel Belted Radius) 5.0.2 Microsoft Windows IAS (2000 SP 4)
DHCP	Microsoft Windows 2000 SP 4, Windows 2003, Linux Fedora
DNS	Microsoft Windows 2000 SP 4, Windows 2003 Nortel NetID

Delivered software images

[Table 5](#) lists Nortel Secure Network Access Switch 4050 software images you can download from the Nortel Service Portal. For initial installation, download the boot image. For upgrades, download the complete upgrade package.

Table 5 Nortel SNAS 4050 software images

Image	Image
Boot Image	NSNAS-1.0.1-boot.img
Package	NSNAS-1.0.1-upgrade_complete.pkg
SREM	srem_1.2.0.0_021.exe for Windows



Note: During a SREM software upgrade, the window with the previous version does not close automatically. Close the window with the previous SREM version before installing a new version.

Threshold specifications

Table 6 lists upper limit thresholds for hardware and network security software in a Nortel Secure Network Access solution implementation.

Table 6 Hardware and software upper limit thresholds

Item	Maximum
Nortel SNAS 4050 units in a cluster	2
Network access devices for each Nortel SNAS 4050 (where the Ethernet Routing Switch 8300 series access device is a single chassis, and the Ethernet Routing Switch 5500 can have a stack of eight units representing one logical unit controlled by the Nortel SNAS 4050)	5
Users for each Nortel SNAS 4050 (number of licenses shipped)	500
Users for each Nortel SNAS 4050 domain	1000
Red VLANs for each edge switch	1
Yellow VLANs for each edge switch (number mapped to switch parameters)	5
Green VLANs for each edge switch (number mapped to switch parameters)	5
Groups in a Nortel SNA network	Standard maximum number for each NVP domain

Implementing the Nortel Secure Network Access solution

Implement the Nortel Secure Network Access solution by considering the current topology, planning the implementation, and then installing and configuring the switches, the Nortel Secure Network Access network security software, and the back end services.

Nortel Secure Network Access Switch 4050 upgrade

Before you start, upgrade the Nortel SNAS 4050 to use the latest software, following instructions listed in the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).

Implementation guidelines

To implement the solution, follow these general guidelines. For guideline details, see the *Nortel Secure Network Access Solution Guide* (320817-A).

- 1 Make a preliminary study and plan the implementation.
- 2 Configure the Windows server and DHCP.
- 3 Configure the Ethernet Routing Switch 8600 with VLAN and port number assignments, VLAN tagging, and DHCP relay enabling.

For instructions, see the configuration samples in the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).

- 4 Configure edge switches, either the Ethernet Routing Switch 55xx or the Ethernet Routing Switch 8300.

For instructions, see *Release Notes for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.3* (217468-B) or *Release Notes for the Ethernet Routing Switch 8300 Software Release 2.2* (316811-D).

- 5 Configure the Nortel Secure Network Access Switch 4050 with TunnelGuard rules, and enable the edge switches for Nortel Secure Network Access management.

For instructions, see the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).



Note: To enable TunnelGuard to run on all PC clients, download the Java Runtime Environment (JRE) from the Nortel SNAS 4050 to each PC being secured through Nortel SNA. (During use, The TunnelGuard applet does not exit when the browser is closed, in all cases. Nortel SNA functionality is not affected.)

- 6 Test the system.
- 7 Add LDAP and/or RADIUS authentication.
- 8 Customize the Nortel Secure Network Access Switch 4050 portal.

For instructions, see the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).

Known limitations and considerations in this release

[Table 7](#) lists Nortel Secure Network Access Switch 4050 open issues.

For Ethernet Routing Switch 5500 series issues, see *Release Notes for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.3 (217468-B)*.

For Ethernet Routing Switch 8300 series issues, see *Release Notes for the Ethernet Routing Switch 8300 Software Release 2.2 (316811-D)*.



Note: Ignore static client CLI commands for Nortel SNAS 4050, Ethernet Routing 55xx, and Ethernet Routing 8300 switches at this time. Use dynamic client CLI commands for all operations. Static clients are not supported in this release.

Table 7 Nortel SNAS 4050 open issues

Change Request Number	Issue
Q01185432	<code>Config</code> check can give an unintended error message for a working RADIUS server due to a low timeout limit. If you have a RADIUS authentication server configured and you want to check to see if it is working properly, you can use the CLI command <code>/maint/chkcfg</code> . However, before executing the command, add a user in RADIUS with the username "test", password "dummy".
Q01200352	SREM does not dynamically display new local users through the GUI. Workaround: Perform a commit operation to display the user in the list. Perform a rediscover operation to display it in the tree. Alternatively, use the CLI and bypass the GUI to view new local users.
Q01204247-01	The <code>regevaltrace</code> CLI command function is not available in this release.
Q01210830	In TunnelGuard Manager online help, any reference to Contivity Secure IP Services Gateway should be interpreted as referring to Nortel TunnelGuard Network Manager.
Q01227977	SREM attributes cannot be successfully mapped to SNMP OID values.

Table 7 Nortel SNAS 4050 open issues (continued)

Change Request Number	Issue
Q01231380	<p>SREM does not dynamically display new TunnelGuard users through the GUI.</p> <p>Workaround: Perform a commit operation to display the user in the list. Perform a rediscover operation to display it in the tree. Alternatively, use the CLI and bypass the GUI to view new TunnelGuard users.</p>
Q01246437	<p>In a cluster configuration, the Nortel SNAS 4050 fails to upgrade the other host to a new version if the other host was down during the upgrade process.</p> <p>Workaround: Enable fast start STP in cluster configurations.</p>
Q01249223	<p>FTP server access using the FTP link set is not currently supported.</p> <p>For FTP access, use an HTTP or HTTPS page with a link to the FTP server.</p>
Q01256106	<p>During high availability use, if the failover switch inactivity interval value is higher than the master switch value, the transition can fail.</p> <p>Workaround: Increase the status quo value of the failover switch (not the inactivity interval value) to prevent transition failure.</p>
Q01256113	<p>During the process of importing an SSH key from an edge switch, the Nortel SNAS 4050 displays this incorrect error message, "invalid key format," when the edge switch (Ethernet Routing Switch 55xx series) is not available.</p>
Q01258931	<p>Because of the way Firefox manages its cache, the browser default web page requested through Firefox is unavailable through the Nortel SNAS 4050. Initial <i>and all</i> subsequent accesses of this URL are redirected to the portal login page specified through the Nortel SNAS 4050.</p> <p>Workaround: Use another browser for initial access of the default site URL.</p>
Q01267425	<p>During a process of replacing one Nortel SNAS 4050 with another, SSH keys are not automatically exported with the exported configuration.</p> <p>Workaround: Perform a new SSH key export sequence after replacing one Nortel SNAS 4050 with another.</p>

Table 7 Nortel SNAS 4050 open issues (continued)

Change Request Number	Issue
Q01272422	<p>After a host is deleted, the SSH connection can remain active. Follow these steps to avoid problems:</p> <ol style="list-style-type: none">1. Before deleting a host, log out and re-logon as user: <code>admin</code>.2. Keeping the current SSH session active, end all other SSH sessions.3. Delete the current host.4. Configure the new host.5. Use the SREM <code>rediscovery</code> function to view the new host as usual.
Q01272433	<p>An SSH connection can remain active through a Nortel SNAS 4050 configuration back-up and restore sequence. Follow these steps to avoid problems:</p> <ol style="list-style-type: none">1. Before restoring a new configuration to a host, log out and re-logon as user: <code>admin</code>.2. Keeping the current SSH session active, end all other SSH sessions.3. Continue with the <code>restore</code> command.4. Use the SREM <code>rediscovery</code> function to view the restored host as usual.

Reading path

This section lists documentation for the Nortel Secure Network Access solution, Software Release 1.0. For information about finding and accessing up-to-date documentation, see “[Hard-copy technical manuals](#)” on page 18.

Related publications

These publications are related to the Nortel Secure Network Access solution:

- *Nortel Secure Network Access Switch 4050 Installation Guide* (320846-A)
- *Nortel Secure Network Access Solution Guide* (320817-A)
- *Nortel Secure Network Access Switch 4050 User Guide* (320818-A)
- *Installing and Using the Security & Routing Element Manager (SREM)* (320199-B)
- *Release Notes for Enterprise Switch Manager (ESM), Software Release 5.1* (209960-H)
- *Release Notes for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.3* (217468-B)
- *Release Notes for the Ethernet Routing Switch 8300, Software Release 2.2.8* (316811-E)

Hard-copy technical manuals

You can download current versions of technical documentation for the Nortel Secure Network Access solution from the Nortel customer support web site at www.nortel.com/support.

If for any reason you cannot find a specific document, use the **Search** function:

- 1** Click **Search** at the top right-hand side of the web page.
The **Search** page opens.
- 2** Ensure the **Support** tab is selected.
- 3** Enter the title or part number of the document in the **Search** field.
- 4** Click **Search**.

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