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Contivity 251 Annex A ADSL VPN Switch Release Notes

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Contents

Preface
Before you begin
Chapter 1 Overview
Nortel Networks CD 13 Doc (Documentation) directory 13 Restricted product - export license requirement 13
Chapter 2 Considerations and issues
Product considerations 15 Only one administrative login at a time 15 Precautions for using email alerting 15 Cannot add static route in first entry 15 Configuring the IP address ranges in the VPN setup 16 Configuring VPN tunnel with multiple VPN tunnels established 16 Configuring Multiple DNS servers 16 Configuration cannot be saved using Netscape 16 VPN Remote networks do not appear in the routing table 16 Error Checking 17
Documentation notes
Known anomalies
(Q00947839)

Unable to set SA Idle timer from the WebGUI (Q00789921)
Cannot escape from error message (Q00759278)
Apply Trigger port entry with blank name, says OK but isn't saved (Q00785724) . 18
Static routes added via CLI are not displayed in the WebGUI (Q00770700) 18
Content Filter keyword limit error (Q00780399)
Phase 1 and Phase 2 SA lifetimes must match (Q00769514)
SUA Server ports cannot include port 1026 (Q00778521)
Domain names added to Content Filters cannot have spaces (Q00786225) 19
WebGUI incorrect when WAN interface changed to DHCP (Q00790762)19
CVC emulated tunnel tear down (Q00791160)20
Applying changes to the Contivity Client configuration (Q00895932)
Inactive exempt host rules are not displayed (Q00879636)
ICMP through CLI does not initiate an on demand tunnel (Q00878264) 20
Disabling the OnDemand Tunnel service (Q00860168)
Browser back button not functional on the advanced client VPN profile page (Q00845625)
SNMP functionality requires reboot with network address change (Q00942733) 21
Contivity 251 does not verify that an entered gateway's IP address is on a directly connected network (Q00919430)21
Debugging IPSec during large file transfers may impact performance (Q00902634) 21
CMP function only works against openSSH server (Q01034301)
SCEP function only works against openSSH server (Q01057583)
CRL checking only works against Microsoft CRL server only (Q01056857)21
Clock will drift without NTP support (Q01046392)
CLI (Command Line Interface) command 'ipsec display' will show PSK in clear text(Q01052586)
When creating BOT tunnel to Contivity server, phase 1 and phase 2 timer should be identical (Q01160166)
No Warning for BOT rule deletion (Q01038479-01)
Bandwidth Management does not work over VPN tunnel (Q01208109)
Bandwidth Management does not work over VPN tunnel (Q01208109, Q01206697-01)
Bandwidth Management monitor screen does not display accurate information when it is not activated for that interface(Q01155437-01)
Bandwidth budget of disabled class is lost(Q01078841-01)
= 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =

Contents 7

Changing Bandwidth Management through	CLI requires load and save command
(Q01083410-01)	

Preface

These release notes contain the latest information about the Nortel Networks* Contivity 251 VPN Switch Version 2.2.

Before you begin

These release notes are intended for network managers who are responsible for the Contivity 251 VPN Switch. They assume that you have experience with windowing systems or graphical user interfaces (GUIs) and familiarity with network management.

Text conventions

This guide uses the following text conventions:

angle brackets (<>)	Indicate that you choose the text to enter based on the description inside the brackets. Do not type the brackets when entering the command.
	Example: If the command syntax is? ping < <i>ip_address</i> >, you enter? ping 192.168.1.12
bold Courier text	Indicates command names and options and text that you need to enter.
	Example: Use the show health command.
	Example: Enter terminal paging {off on}.

braces ({})	Indicate required elements in syntax descriptions where there is more than one option. You must choose only one of the options. Do not type the braces when entering the command.
	Example: If the command syntax is ldap-server source {external internal}, you must enter either ldap-server source external or ldap-server source internal, but not both.
brackets ([])	Indicate optional elements in syntax descriptions. Do not type the brackets when entering the command. Example: If the command syntax is? show ntp [associations], you can enter? either show ntp or show ntp associations. Example: If the command syntax is default rsvp
	[token-bucket {depth rate}], you can enter default rsvp, default rsvp token-bucket depth, or default rsvp token-bucket rate.
italic text	Indicates new terms, book titles, and variables in command syntax descriptions. Where a variable is two or more words, the words are connected by an underscore.
	Example: If the command syntax is? ping < <i>ip_address</i> >, <i>ip_address</i> is one variable and you substitute one value for it.
plain Courier text	Indicates system output, for example, prompts and system messages. Example: File not found.
separator (?)	Shows menu paths. Example: Choose Status > Health Check.

Related publications

For more information about the Contivity 251 VPN Switch, refer to the following publications:

- Release notes provide the latest information, including brief descriptions of the new features, problems fixed in this release, and known problems and workarounds.
- *Contivity 251 VPN Switch Quick Start Guide* introduces the product and provides information about initial setup and configuration.
- *Configuring and Troubleshooting the Contivity 251 VPN Switch* provides compete information about installation, configuration, administration, and troubleshooting.

You can print selected technical manuals and release notes free, directly from the Internet. Go to the www.nortelnetworks.com/documentation URL. Find the product for which you need documentation. Then locate the specific category and model or version for your hardware or software product. Use Adobe* Acrobat Reader* to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at the www.adobe.com URL to download a free copy of the Adobe Acrobat Reader.

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Chapter 1 Overview

These release notes contain the latest information about the Nortel Networks Contivity 251 Annex A VPN Switch version 2.2.

Refer to your *Configuring and Troubleshooting the Contivity 251 VPN Switch* for instructions on getting your gateway up and running. After you configure an IP address, a subnet mask, and a gateway address (if applicable), you can view online Help from the management interface.

Nortel Networks CD

Doc (Documentation) directory

The doc directory contains the documentation set for the Contivity 251 VPN Switch. The guides are provided in Adobe Acrobat PDF format.

Restricted product - export license requirement

This product incorporates encryption technology that is highly restricted and can require an export license from the US Department of Commerce, Bureau of Export Administration, prior to international shipment.

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Chapter 2 Considerations and issues

The following sections describe issues and considerations that apply to the Version 2.2 release of the Contivity 251 Annex A VPN switch.

Product considerations

The following sections discuss product considerations or limitations.

Only one administrative login at a time

A user can use the WebGUI, telnet, or a console connection, but cannot be logged in to any two simultaneously.

Closing a user interface without properly logging out of the Contivity 251 may result in an inability to log back into the system until the previous session times out (maximum five minutes) or the system is rebooted.

Precautions for using email alerting

In the log settings, having the System Errors or Attacks checked under "Immediate Alerts" results in many emails being sent, as the system will send an email every time there is an event that does not match a firewall rule. This can result in an email flood to the receiving device.

Cannot add static route in first entry

The first static route entry is reserved for system use and thus is read only.

15

Configuring the IP address ranges in the VPN setup

When configuring the NAT range in a VPN rule, you must configure the actual range and not the subnet mask.

Configuring VPN tunnel with multiple VPN tunnels established

When multiple VPN tunnels are already established and passing traffic and you try to configure another VPN tunnel, some packets may be dropped while the Contivity 251 is saving the configuration.

Configuring Multiple DNS servers

Configure DNS servers that are accessible through a VPN tunnel first in the priority order on the DNS server page.

Asymmetric Branch Office tunnels

Contivity ABOT tunnels are Aggressive mode tunnels. Be sure to configure tunnels to be used for ABOT as Aggressive mode in the Contivity 251.

Configuration cannot be saved using Netscape

While managing a Contivity 251 with a Netscape browser, you cannot save the configuration file via the Backup button under the Configuration tab within the Maintenance WebGUI screen. The workaround is to use the Xmodem functionality via the SMT menu screen. Internet Explorer does not exhibit this issue.

VPN Remote networks do not appear in the routing table

Remote networks specified in the Branch Office - IP Policy screen are not advertised by the Contivity 251 via RIP, and they are not included in the Contivity 251 Routing Table. They can be viewed using the following SMT command:

```
C251> ipsec show spd
```

Traffic crosses the tunnels and forwarding to these remote networks works as expected.

Error Checking

Be sure to check and compare entered values, for example IP addresses and port numbers, to ensure that the values are legal and that conflicts do not exist.

Documentation notes

None to note at this time.

Known anomalies

No traffic through many one-to-one branch office tunnel after 2.1 upgrade (Q00947839)

After performing an upgrade from build 2.0.13 to build 2.1.16, under a configuration of a branch office tunnel configured with many one-to-one NAT, the tunnel will still come up but no traffic can get through. Click on Apply on the NAT policy page within the branch office profile to correct the problem.

Unable to set SA Idle timer from the WebGUI (Q00789921)

Currently, the SA idle timer for tunnels on the Contivity 251 is set to disabled. This timer is based upon inbound traffic and can be used to remove SAs after a certain period of inactivity, if desired. This timer affects both Branch Office (on demand) and Client emulation (manual) tunnels. For Client emulation tunnels this will cause the user to select the Connect button to reconnect. It is recommended that this be used for Branch Office tunnels only where automatic recovery is required in the event of a central site device failure. The Client emulation feature allows for a keep-alive configuration that will remove the SA if the central site device fails.

In order to enable this, the user must go through the following steps:

- Connect to the SMT menu via Telnet or the Console Port
- Select option 24, System Maintenance
- Select option 8, Command Interpreter Mode
- At the CLI prompt, invoke ipsec timer chk_input <time_in_minutes>

Note: the default for <time_in_minutes> is 0 (disable).

Cannot escape from error message (Q00759278)

While configuring the Dial Backup feature with the current software release, if there is a Dial Backup Call Control value error, an error message comes up on the screen, but there is no OK or Cancel button. To proceed simply close the window and continue. Any changes made on this menu not saved before the error will not be saved.

Apply Trigger port entry with blank name, says OK but isn't saved (Q00785724)

If you specify a Trigger Port table entry that has valid incoming and trigger port ranges but has a blank name, and then you Apply, you get a "configuration updated successfully" message. However, if you leave the tab and then return to the table, the entry is gone.

Static routes added via CLI are not displayed in the WebGUI (Q00770700)

Static routes added via CLI may not display in the WebGUI static route page.

Content Filter keyword limit error (Q00780399)

The maximum character length for key words entered into the content filtering list is 31, but the Help reports 64 chars and the entry field will allow 127 characters (but will only save the first 31 characters).

Phase 1 and Phase 2 SA lifetimes must match (Q00769514)

Within the VPN-Branch Office-Advanced page, do not configure the Phase 1 SA Lifetime to be a different value than the Phase 2 SA Lifetime. Configuring these values to be different numbers can result in periodic outages of your tunnel equivalent to the difference between these 2 lifetimes.

SUA Server ports cannot include port 1026 (Q00778521)

Port 1026 cannot be used when configuring Port Forwarding via the SUA/NAT SUA Server section. You can define two ranges: up to 1025, and then starting with 1027 upwards, but you will not be able to configure a range that includes port 1026.

Domain names added to Content Filters cannot have spaces (Q00786225)

When configuring Content Filters, you cannot list a domain that has spaces. The Contivity 251 only checks the Domain part of the URL. In order to check a full URL, you must enable directory and file checking. Any space within a file name must be filled in with a %20.

WebGUI incorrect when WAN interface changed to DHCP (Q00790762)

When you receive the Default Route via DHCP on the WAN interface, the WebGUI will not display the Default Route in its Static Route Table. Also, if you change your WAN interface from a statically defined IP Address to DHCP, the old statically defined Default Route will still be present in the Static Route Table page in the WebGUI.

This is purely a cosmetic issue; the proper routes are inserted into the device's routing table, and traffic is properly routed via the correct default route.

CVC emulated tunnel tear down (Q00791160)

When using Client Emulation mode on the Contivity 251, the recommendation is that you do not configure a re-key value on the remote Contivity of less than one hour.

Applying changes to the Contivity Client configuration (Q00895932)

Configuration changes made in the VPN - Contivity Client - Advanced page are not saved until the Apply button has been clicked in both the VPN - Contivity Client - Advanced and VPN - Contivity Client pages.

Inactive exempt host rules are not displayed (Q00879636)

The Exempt Host feature excludes ranges of networks or hosts from configured IPSec policies. These rules will only be displayed when active.

ICMP through CLI does not initiate an on demand tunnel (Q00878264)

Issuing an ICMP ping from menu 24.4.1 or through CLI will not initiate an on-demand tunnel.

Disabling the OnDemand Tunnel service (Q00860168)

The command to disable the on-demand service is IPSec config ODService off. The option to disable the OnDemand service is not displayed in the command-line context.

Browser back button not functional on the advanced client VPN profile page (Q00845625)

The Back button on the web browser will not return you to the previous page in the client profile advanced page. Please click the Cancel button to return to the previous page.

SNMP functionality requires reboot with network address change (Q00942733)

It is necessary to reboot the Contivity 200 after changing the management IP address.

Contivity 251 does not verify that an entered gateway's IP address is on a directly connected network (Q00919430)

You should take care when defining static routes and configuring the WAN interface to make sure the gateway address is an address from a directly connected network.

Debugging IPSec during large file transfers may impact performance (Q00902634)

Limit the amount of data that is passed through a tunnel during IPSec debugging as this procedure may impact performance.

CMP function only works against openSSH server (Q01034301)

You can request a certificate through the CMP protocol; however, it is limited to openSSH server.

SCEP function only works against openSSH server (Q01057583)

You can request a certificate through the SCEP protocol; however, it is limited to openSSH server.

CRL checking only works against Microsoft CRL server only (Q01056857)

You can request a CRL list; however, it is limited to Microsoft CRL server only.

Clock will drift without NTP support (Q01046392)

Due to hardware limitations, the unit will require NTP support to prevent the time from drifting.

CLI (Command Line Interface) command 'ipsec display' will show PSK in clear text (Q01052586)

When trying to display the ipsec configuration using the ipsec display command through the administrator CLI, the preshared key will be shown in clear text.

When creating BOT tunnel to Contivity server, phase 1 and phase 2 timer should be identical (Q01160166)

Due to limitations on the Contivity server, the phase 1 timer should be set the same as the phase 2 timer.

No Warning for BOT rule deletion (Q01038479-01)

The BOT rule will be deleted without prior warning.

Bandwidth Management does not work over VPN tunnel (Q01208109)

Traffic going through the VPN tunnel can't be controlled using the bandwidth management profiles.

Bandwidth Management does not work over VPN tunnel (Q01208109, Q01206697-01)

Bandwidth management is currently supported on the WAN interface for clear text and encrypted traffic. However, the classes must be configured based on the encrypted headers, because the policy is enforced after encapsulation.

Bandwidth Management monitor screen does not display accurate information when it is not activated for that interface (Q01155437-01)

The Bandwidth Management monitor screen will display the last value before that interface is deactivated.

Bandwidth budget of disabled class is lost (Q01078841-01)

The inactive subclass bandwidth budget is used to calculate maximum bandwidth for that class. Delete unused subclass(es) or set to zero to preserve total bandwidth.

Changing Bandwidth Management through CLI requires load and save command (Q01083410-01)

Before any modification on bandwidth management rules through CLI, the user must run 'bm config load'. After all modifications are done, the user must run the 'bm config save' command. If there are any further changes after the save, the user must re-load the bandwidth rules.