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**Nortel Security Solutions** 

Product Readme

> Nortel Switched Firewall (NSF) 4.1.x - Readme

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# Change Log

Version	What	When	Who
1.0	Readme for 4.1.1 release	07/24/2005	Rajesh Vijayakumar
1.1	Added CR Q01113493	08/23/2005	Rajesh Vijayakumar
1.2	Readme for 4.1.2 release	03/22/2006	Ganesh Lakshmanan
1.3	Readme for 4.1.2.1 R61 release	07/07/2006	Ganesh Lakshmanan
1.4	Layout, documentation corrected	07/29/2006	Jürgen Luksch
1.5	Readme for 4.1.3 release	08/08/2006	Santhosh Balasubramanian
1.6	Readme for 4.1.3 release updated	09/01/2006	Santhosh Balasubramanian

# 1 Introduction

This is the consolidated readme for all NSF 4.1.x releases. The objective of a single readme is to help the reader find and track the status and history of an issue more easily. In order to meet this objective, the document is organized in different sections as follows.

Section 2 contains a table that lists the status of all known issues found in 4.1.x releases. It shows the release where the issue was found, the current status of the issue, and the status of the issue in each 4.1.x software release. The following section (Section 3) describes the procedure to upgrade from an earlier release to a 4.1.x release.

The following sections present the detailed readme for each release (one section for each release). These sections describe the hardware platforms and Check Point software versions supported by each release. Finally, the list of all known issues with a brief description and work around (if any) is presented in Appendix A. The current status of each issue is also presented as part of the description.

# 2 Status of Known Issues and Limitations

All the known issues found and/or fixed in 4.1.x releases are summarized in the following table. The details of the issues are described in Appendix-A. Each row in the table corresponds to a known issue. A detailed explanation of the issue can be found by looking at the CR# (if available) in the Appendix. If a CR# is not available for an item, then search for the issue title in the Appendix for the specific update date. The known issues without the CR# are listed at the beginning of each sub-section for the specific update date. If you are viewing this document on your computer, you can click on a description item to jump to the full description in Appendix A.

The current status and the status of the issue in different releases are also presented in the table. In the table, 
■ means the particular build is affected and □ means the issue is fixed in the particular build.

Table 1 Current status of all issues found in NSF-4.1.x releases.

CR#	Description of Issues and Limitations	Last Updated	Current Status	Status in Different Releases			
		Cpaarea	Status	4.1.1	4.1.2	4.1.2.1	4.1.3
Q01104528	Switch reboots when we use /cfg/slb/isdfw/isd_no command in GOD mode	08/28/2006	Closed		×	X	<b>V</b>
Q01106902- 03	Health Check Daemon and Config Daemon may not work properly after 248 days of uptime	08/28/2006	Closed		×	×	☑
Q01410552	New HFAs are missing for R55 & R60	08/28/2006	Closed		×	×	V
Q01311541- 01	Unable to add Proxy ARP	08/28/2006	Closed			×	<b>V</b>
Q00910450- 01	Oper group permissions	08/28/2006	Closed			X	V
Q01317877	Validation should give error/warning msg when we delete the 10.10.1.0 from accesslist	08/28/2006	Closed				<b>V</b>
Q01340625	SFD always get panic when installing R60 HFA-03 with kdb mode on	08/28/2006	Closed			×	<b>V</b>
Q01340625- 01	SFD always get panic when installing new HFA version with kdb mode on.	08/28/2006	Open			×	×
Q01338741	JOIN fails when we try to add a member with 16 bit mask	08/28/2006	Closed				V
Q01095463	Not able to bring up copper gig port when we disable auto negotiation in 6600	08/28/2006	Closed			×	<b>V</b>



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Q01329192	Request to have an info cmd to view the CPU usage over a period of time	08/28/2006	Closed				V
Q01408009	NSF 6600 / 4.1.1 / RSA sdconf.rec file is deleted from /var/ace after reboot	08/28/2006	Closed				V
Q01266907	SSI Restarting	08/28/2006	Closed	×	×	×	<b>√</b>
Q01445437	ASF continuously deleting and adding default route sent by Cisco	08/28/2006	Open				×
Q01427432	oper user can be able to change the password of admin user	08/28/2006	Open				×
Q01435023	Hard disk usage calculation is wrong when we connect usb stick to the ISD	08/28/2006	Open				×
Q01435081	Upgrade: Switch panic while doing hitless Upgrade from 4.1.2.0 to 4.1.3.0	08/28/2006	Open				×
Q01438644	Non MIP ISD remains in Passing State after the Upgradation to 4.1.3_R61	08/28/2006	Open				×
Q01448478	IDSLB: disable or enable IDS globally, there is a failover triggered always	08/28/2006	Open				×
Q01437950	/cfg/acc/det, /info/det is not showing Active Accelerators	08/28/2006	Open				×
Q01444801	ASF6414 - Clearing accelerator stats from the director	08/28/2006	Open				×
Q01434591	NSF 4.1.2_R60 SNMP queries, not returned.	08/28/2006	Open				×
Q01437363	Radius user accounts on NSF	08/28/2006	Open				×
Q01161524	SFD cannot detect SFA after disabling jumbo frame and enabling trunking	08/28/2006	Closed				V
Q01245413	Command /opt/tng/bin/lb is not giving the expected output	08/28/2006	No Fix Planned		×	×	
Q01231858	4.1.1 drops packets that arrive out of order	08/28/2006	Open	×	×	×	×
Q01418950	NSF/BBI or WebUI based port configuration is causing BBI problems	08/04/2006	Closed				V
Q01334782	Web Server did not work when adding new port or new filter	08/04/2006	Closed				$\overline{\checkmark}$
Q01373575	WEBUI TICKER: Not able to view history while running ticker for more than 10 days	08/04/2006	Closed				V
Q01329143	WEBUI ticker: Throughput In and Out shown in Ebps when we do failover	08/04/2006	Closed				V
Q01351923	Hard disk space (/config) usage goes more than 70% after the upgrade	08/04/2006	Closed				V
Q01338725	HFA is not getting upgraded during software from 4.1.1.0_R55 to 4.1.2_R55	03/22/06	Closed	×	×	×	V



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mond.log file is not getting rotated when we run the system more than 10 days	03/22/06	Closed	×	×	×	V
Primary port failing to copper backup flips cluster	03/22/06	Closed	×	<b>V</b>		
snmpd process keeps restarting	03/22/06	Closed	×	V		
NTP server access is not restricted to SFD subnet	03/22/06	Closed	×			
NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det	03/22/06	Closed	×	$\checkmark$		
unnecessary/confusing log message related to SFD status in single SFD SETUP	03/22/06	Closed	×	<b>V</b>		
Accelerator is 1 hour ahead of directors	03/22/06	Open	×	×	×	×
L2 Vlan does not work properly		Open		×	×	×
/cfg/sys not available to change NAAP VLAN id on accelerator	03/22/06	Closed	×	✓		
VPN Site to Site doesn't WORK	03/22/06	Open		×	×	
bogus errors on ports 27 and 28 of the accelerator	03/22/06	No Fix Planned	×	×	×	
NSF /var/tmp/local_state file filling up	03/22/06	Closed	×	V		
FTP session fails when TCP sequence verification is enabled	03/22/06	Closed	×	×	<b>V</b>	
Sync thro vnic is not supported with VPN	03/22/06	No Fix Planned	×	×	×	
Using copper GBIC on dual ports of 6600	03/22/06	No Fix Planned	×	×	×	
Proxy Arp entries above 1600 does not work	03/22/06	No Fix Planned	×	×	×	
"Softdog driver open failure" message when accelerator boots up	03/22/06	No Fix Planned	×	×	×	
Pimd restarts when ip address on pim enabled interface is changed	03/22/06	No Fix Planned	×	×	×	
Changes made to routemaps do not take effect immediately	03/22/06	No Fix Planned	×	×	×	
Issues related to large configurations	03/22/06	No Fix Planned	×	×	×	
Incorrect UDP Blast behavior	03/22/06	No Fix Planned	×	×	×	
Director runs out of memory during bootup	03/22/06	Closed	×	V		
Dos attack traffic causes high MP CPU utilization on accelerator	03/22/06	Closed	×	<b>V</b>		
	run the system more than 10 days Primary port failing to copper backup flips cluster snmpd process keeps restarting NTP server access is not restricted to SFD subnet NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  unnecessary/confusing log message related to SFD status in single SFD SETUP Accelerator is 1 hour ahead of directors L2 Vlan does not work properly /cfg/sys not available to change NAAP VLAN id on accelerator  VPN Site to Site doesn't WORK bogus errors on ports 27 and 28 of the accelerator NSF /var/tmp/local_state file filling up FTP session fails when TCP sequence verification is enabled Sync thro vnic is not supported with VPN  Using copper GBIC on dual ports of 6600  Proxy Arp entries above 1600 does not work  "Softdog driver open failure" message when accelerator boots up Pimd restarts when ip address on pim enabled interface is changed Changes made to routemaps do not take effect immediately Issues related to large configurations  Incorrect UDP Blast behavior  Director runs out of memory during bootup Dos attack traffic causes high MP CPU	run the system more than 10 days  Primary port failing to copper backup flips cluster  snmpd process keeps restarting  NTP server access is not restricted to SFD subnet  NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  03/22/06  unnecessary/confusing log message related to SFD status in single SFD SETUP  Accelerator is 1 hour ahead of directors  1.2 Vlan does not work properly  O3/22/06  VLAN id on accelerator  VPN Site to Site doesn't WORK  bogus errors on ports 27 and 28 of the accelerator  NSF /var/tmp/local_state file filling up  FTP session fails when TCP sequence verification is enabled  Sync thro vnic is not supported with VPN  Using copper GBIC on dual ports of 6600  Proxy Arp entries above 1600 does not work  "Softdog driver open failure" message when accelerator boots up  Pimd restarts when ip address on pim enabled interface is changed  Changes made to routemaps do not take effect immediately  Issues related to large configurations  O3/22/06  Director runs out of memory during bootup  Dos attack traffic causes high MP CPU  03/22/06  03/22/06  03/22/06  O3/22/06  O3/22/06  O3/22/06	run the system more than 10 days Primary port failing to copper backup flips cluster  smpd process keeps restarting NTP server access is not restricted to SFD subnet NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  03/22/06 Closed unnecessary/confusing log message related to SFD status in single SFD SETUP Accelerator is 1 hour ahead of directors 1.2 Vlan does not work properly VLAN id on accelerator  VPN Site to Site doesn't WORK bogus errors on ports 27 and 28 of the accelerator NSF /var/tmp/local_state file filling up NSF /var/tmp/local_state file filling up NSF /var/tmp/local_state file filling up VPN Site to site so supported with VPN Using copper GBIC on dual ports of 6600 Using copper GBIC on dual ports of 6600 Using copper GBIC on dual ports of 6600 Using copper GBIC on dual contained NSF /var/tmp/local_state sheep in accelerator Director unnecessage when accelerator boots up Pimd restarts when ip address on pim enabled interface is changed Changes made to routenaps do not take effect immediately Sunday Applace of Closed Dos attack traffic causes high MP CPU  O3/22/06 Closed Closed Closed Open O3/22/06 Open	run the system more than 10 days Primary port failing to copper backup flips cluster  snmpd process keeps restarting NTP server access is not restricted to SFD subnet NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  03/22/06 Closed NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  03/22/06 Closed  wincessary/confusing log message related to SFD status in single SFD SETUP Accelerator is 1 hour ahead of directors 03/22/06 Closed Unnecessary/confusing log message related to SFD status in single SFD SETUP  1.2 Vlan does not work properly 03/22/06 Closed Unadoes not work properly 03/22/06 Closed VLAN id on accelerator  VPN Site to Site doesn't WORK bogus errors on ports 27 and 28 of the accelerator NSF /var/tmp/local_state file filling up 03/22/06 No Fix Planned NSF /var/tmp/local_state file filling up 03/22/06 Sync thro vnic is not supported with VPN Using copper GBIC on dual ports of 6600 Using copper GBIC on dual ports of 6600 Vork Softdog driver open failure" message when accelerator boots up Planned "Softdog driver open failure" message when accelerator boots up Planned Changes made to routemaps do not take effect immediately Incorrect UDP Blast behavior  Director runs out of memory during bootup Dos attack traffic causes high MP CPU  03/22/06 Closed  Closed	run the system more than 10 days  Primary port failing to copper backup flips cluster  snmpd process keeps restarting  N3/22/06  Closed  NTP server access is not restricted to SFD subnet  NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  O3/22/06  Closed  NTP server access is not restricted to SFD subnet  NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  O3/22/06  Closed  O4  O5FD status in single SFD SETUP  Accelerator is 1 hour ahead of directors  O3/22/06  O5Pen  Coppen  Cop	run the system more than 10 days  Primary port failing to copper backup flips cluster  smpd process keeps restarting  NTP server access is not restricted to SFD  subnet  NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det  03/22/06  Closed  Clos



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Error message for pmatch string longer than 40 characters is not clear	03/22/06	Closed	X	V				
Limit on number of virtual NICs	03/22/06	No Fix	ঘ	V	[V]			
		Planned	<u> </u>	<u>s</u>	₹.			
Changing subnet on RIP enabled interface	03/22/06	No Fix	IVI	I⊊I				
requires restarting RIP		Planned	~					
Static routes are lost after importing	03/22/06	No Fix	র	Į.	Q.			
configuration		Planned	~	<u>~</u>				
No validation check to prevent invalid	03/22/06	Closed	E.					
subnet mask for IP ACL			<b>.</b>	<b>V</b> I				
/info/sensors show CPU and board	03/22/06	No Fix	E I	X X				
temperature to be negative		Planned	~					
PIM: NSF does not support fragmented	03/22/06	No Fix	X X		2		[V]	
PIM messages		Planned						
Validation error about accesslist after	03/22/06	No Fix			[E]			
upgrade		Planned	<b>.</b>	<u>.</u>				
"asfcapture" does not capture packets	03/22/06	Closed	[V]	<u>.7</u>				
simultaneously on accelerator and director				<b>I</b> ▼I				
Unable to configure accelerator after	03/22/06	No Fix			[V]			
upgrade from 4.0.x		Planned			A			
	40 characters is not clear Limit on number of virtual NICs  Changing subnet on RIP enabled interface requires restarting RIP Static routes are lost after importing configuration No validation check to prevent invalid subnet mask for IP ACL /info/sensors show CPU and board temperature to be negative PIM: NSF does not support fragmented PIM messages Validation error about accesslist after upgrade  "asfcapture" does not capture packets simultaneously on accelerator and director Unable to configure accelerator after	Limit on number of virtual NICs  Changing subnet on RIP enabled interface requires restarting RIP  Static routes are lost after importing configuration  No validation check to prevent invalid subnet mask for IP ACL  /info/sensors show CPU and board temperature to be negative  PIM: NSF does not support fragmented PIM messages  Validation error about accesslist after upgrade  "asfcapture" does not capture packets simultaneously on accelerator and director  Unable to configure accelerator after  03/22/06	Limit on number of virtual NICs  Limit on number of virtual NICs  Changing subnet on RIP enabled interface requires restarting RIP  Static routes are lost after importing configuration  No validation check to prevent invalid subnet mask for IP ACL  /info/sensors show CPU and board temperature to be negative  PIM: NSF does not support fragmented PIM: NSF does not support fragmented Validation error about accesslist after upgrade  "asfcapture" does not capture packets simultaneously on accelerator and director  Unable to configure accelerator after  O3/22/06  No Fix Planned O3/22/06  No Fix	Limit on number of virtual NICs  Changing subnet on RIP enabled interface requires restarting RIP  Static routes are lost after importing configuration  No validation check to prevent invalid subnet mask for IP ACL /info/sensors show CPU and board temperature to be negative  PIM: NSF does not support fragmented PIM: NSF does not support fragmented Validation error about accesslist after upgrade  Validation error about accesslist after upgrade  "asfcapture" does not capture packets simultaneously on accelerator and director  Unable to configure accelerator after  O3/22/06  No Fix Planned  No Fix Planned  No Fix Planned  No Fix Planned  Closed  IX	Limit on number of virtual NICs   03/22/06   No Fix Planned   Pl	Limit on number of virtual NICs   03/22/06   No Fix Planned   Pl		

# 3 Upgrading to NSF 4.1.x

Upgrade to 4.1.x is supported from 4.0.1 or later versions. 4.1.3 requires 250 MBytes free space on the /isd partition. To check available free space, login as root, run "df -H /isd" and look under the "Avail" column. If you do not have enough free space, you will get an error saying "Failed to unpack software..." when you try to download the .pkg file.

If there is not enough free space for upgrade, please export the current configuration using "/cfg/ptcfg", do a clean install from CD, and then import the configuration using "/cfg/gtcfg". When configuration exported from 4.0.2 or below is imported into 4.1.1, you will lose all configured static routes. Please see Q01158579 on how to recover the static routes.

When upgrading from 4.0.x to 4.1.x, please keep the following things in mind. 4.1.x is a combined L2/L3 firewall. If you have multiple ports in the same VLAN, the default behavior of 4.1.x is to apply the firewall policy to traffic that is bridged between the ports. This is different from the 4.0.x behavior which applied the firewall policy only to routed traffic. If you would like to keep the 4.0.x behavior, please disable L2 firewall processing on these VLANs using the "/cfg/net/vlan <n>/l2fw" CLI item after upgrade.

To upgrade, first download the appropriate 4.1.x upgrade package to the cluster. This can be done over the network using "/boot/software/download" or from the CR-ROM using "/boot/software/cdrom". Run "/boot/software/cur" to make sure the new version was downloaded successfully. You can then activate the new version using "/boot/software/activate".

If you are upgrading from 4.0.x, please reset SIC on the directors using "/cfg/fw/sic", establish SIC again from SmartDashboard and push policy. If you are upgrading from 4.1.x but to a different version of Check Point, re-establish SIC from SmartDashboard and push policy. If you are upgrading from 4.1.x and to the same version of Check Point you are currently running, the SIC and policy will be preserved.

After upgrade from 4.0.x, please make sure the accelerators are configured by running "/info/det". If an error is reported, please see Q01157140 to recover.

The summary of the main steps for upgrading to NSF 4.1.3 is given in

Upgrading to NSF 4.1.3

epgrading to 1 to 1 till							
From	То	Upgrade Steps					
4.0.1-x	4.1.3 R55 4.1.3 R60 4.1.3 R61	Do a clean install using iso image.					
4.0.2.0a	4.1.3 R55 (HFA 18) Or R60 (HFA03)	• Use "/boot/software/download" to download R55 or R60 or R61 upgrade package (NSF_Director_4.1.3_R55.pkg or NSF_Director_4.1.3_R60.pkg or NSF_Director_4.1.3_R61.pkg). This should be done only in one SFD.					

	Or R61	<ul> <li>Activate 4.1.3 image using "/boot/software/activate". This should be done only in one SFD.</li> <li>Please wait until SFDs reboot and all upgrade process is complete.</li> </ul>
		<ul> <li>Get topology in the Check Point management station and push the policy.</li> <li>Do the post-upgrade verification.</li> </ul>
4.0.3.0 4.0.4.0	4.1.3 R55 (HFA 18) Or R60 (HFA03) Or R61	<ul> <li>Use "/boot/software/download" to download R55 or R60 or R61 upgrade package (NSF_Director_4.1.3_R55.pkg or NSF_Director_4.1.3_R60.pkg or NSF_Director_4.1.3_R61.pkg).</li> <li>Activate 4.1.3 image using "/boot/software/activate". This should be done only in one SFD.</li> <li>Please wait until SFDs reboot and all upgrade process is complete.</li> <li>Get topology in the Check Point management station and push the policy.</li> <li>Do the post-upgrade verification.</li> </ul>
4.1.1	4.1.3 R55 (HFA 18) Or R60 (HFA03) Or R61	<ul> <li>Use "/boot/software/download" to download R55 or R60 or R61 upgrade package (NSF_Director_4.1.3_R55.pkg or NSF_Director_4.1.3_R60.pkg or NSF_Director_4.1.3_R61.pkg).</li> <li>Activate 4.1.3 image using "/boot/software/activate". This should be done only in one SFD.</li> <li>Please wait until SFDs reboot and all upgrade process is complete.</li> <li>Get topology in the Check Point management station and push the policy.</li> <li>Do the post-upgrade verification.</li> </ul>
4.1.2	4.1.3 R55 (HFA 18) Or R60 (HFA03) Or R61	<ul> <li>Use "/boot/software/download" to download R55 or R60 or R61 upgrade package (NSF_Director_4.1.3_R55.pkg or NSF_Director_4.1.3_R60.pkg or NSF_Director_4.1.3_R61.pkg).</li> <li>Activate 4.1.3 image using "/boot/software/activate". This should be done only in one SFD.</li> <li>Please wait until SFDs reboot and all upgrade process is complete.</li> <li>Get topology in the Check Point management station and push the policy.</li> <li>Do the post-upgrade verification.</li> </ul>
4.1.2.1	4.1.3 R55 (HFA 18) Or R60 (HFA03)	• Use "/boot/software/download" to download R55 or R60 or R61 upgrade package (NSF_Director_4.1.3_R55.pkg or NSF_Director_4.1.3_R60.pkg or NSF_Director_4.1.3_R61.pkg).

Or R61	•	Activate 4.1.3 image using "/boot/software/activate". This should be done only in one SFD.
	•	Please wait until SFDs reboot and all upgrade process is complete.
	•	Get topology in the Check Point management station and push the policy.
	•	Do the post-upgrade verification.

### 3.1 Pre-Upgrade Preparation

**Backup configuration:** You are strongly advised to backup the NSF configuration before doing the upgrade. Please use "/cfg/ptcfg" command to export the configuration. This should be done only in one SFD.

# 3.2 Downloading the upgrade Package

The upgrade package can be downloaded by two different ways. In the first method, the image can be downloaded via FTP using "/boot/software/download" CLI command. The CLI will prompt for all the details information, such as IP address of the server and the filename on the server, etc.

Since the NSF installation CD contains the upgrade files (i.e. pkg files), it can be used to import the pkg file to the SFD. User can also burn his/her own CD containing the pkg file. Note that upgrade process requires that file extension to be .pkg. The CD-ROM is automatically ejected at the end of the operation. This step should be done only in one SFD.

# 3.3 Activating the new software

Once the upgrade package is downloaded, "/boot/software/cur" can be used to display all the software versions in the SFD. The version that was just imported will have the status "unpacked." The new version (4.1.3) can now be activated using "/boot/software/activate". This should be done only in one SFD.

The activation process will upgrade both the Nortel software and the Check Point software to the same version as a clean install from the CD. There is no need to upgrade the Check Point software separately. Each SFD will reboot twice during the upgrade process: once after the upgrade of Nortel software and again after upgrading the Check Point software. The whole process could take somewhere between 15-20 minutes.

After successful software upgrade, the following steps must be done:

- Get topology information in the Check Point management station and
- Push the policy to the NSF cluster.

### 3.4 Post-Upgrade Verification

The following steps should be done to verify that the upgrade process was completed successfully. These steps are not required for a successful upgrade. However, it is recommended only for the purpose of verification.

- Nortel Switched Firewall (NSF) 4.1.x Readme
  - Login as root and run "os-version". You will get the output "1.5.1.3\_tng.4.1.3\_R61" or "1.5.1.3\_tng.4.1.3\_R60" or "1.5.1.3\_tng.4.1.3\_R55"
  - Login as admin and check "/info/cluster" CLI to make sure that all the directors in the cluster are working fine.

# 4 Nortel Switched Firewall, 4.1.1 (07/25/2005)

### 4.1 Supported Hardware Platforms

NSF 4.1.1 supports the following hardware platforms:

- NSF 6414 (6400 accelerator with 5014 director)
- NSF 6614 (6600 accelerator with 5014 director)
- NSF 6424 (6400 accelerator with 5024 director)
- NSF 6624 (6600 accelerator with 5024 director)
- NSF 6416 (6400 accelerator with 5016 director)
- NSF 6616 (6600 accelerator with 5016 director)
- NSF 6426 (6400 accelerator with 5026 director)
- NSF 6626 (6600 accelerator with 5026 director)

## 4.2 Supported Check Point Releases

NSF 4.1.1 supports the following Check Point versions:

- Check Point NG with Application Intelligence R54 (FP4) with HFA-414.
- Check Point NG with Application Intelligence R55 with HFA-12.

#### 4.3 What's New

The following new features are supported in this release:

# 4.3.1 Integrated L2/L3 Firewall

NSF 4.1.x can operate either in L2 mode, L3 mode or combined L2/L3 mode depending on the configuration. To configure ports in L2 mode, define a VLAN and add the ports to the VLAN. Also make sure L2 firewall processing is enabled for the VLAN using "/cfg/net/vlan <n>/12fw" CLI or "Config | Network | VLANs" page in WebUI. L2 firewall processing is enabled by default.

To configure the system in L3 mode, please disable L2 firewall processing for all VLANs that have multiple ports in them. For VLANs with only one associated port and for automatic VLANs, L2 firewall is always off.

To configure a VLAN in combined L2/L3 mode, define the VLAN, add at least 2 ports to the VLAN, enable L2 firewall processing for the VLAN, define an interface and add it to that VLAN. All bridged traffic between ports in the VLAN will go through L2 firewall processing and all routed traffic to another VLAN will go through L3 firewall processing.

### 4.3.2 Security Pack

Security Pack detects and prevents a number of attacks right on the accelerator.

- Protects against common DoS attacks like Smurf, LandAttack, Fraggle, NullScan, XmasScan, ScanSynFin, PortZero and Blat. This can be configured using "/cfg/net/port <n>/sec/dos" from the CLI or "Config | Network | Ports | Security" page in WebUI.
- Management processor rate limiting protects the MP on the accelerator by limiting the number of packets forwarded to it. This can be configured using "/cfg/acc/mprlimit" menu in the CLI or "Config | Cluster | Accelerator(s) | General" page in the WebUI.
- UDP blast protection protects UDP services from attack by limiting the amount of traffic on a per service basis. UDP blast settings can be configured using "/cfg/sec/udpblast" in the CLI or "Config | Security | UDP Blast" in the WebUI. UDP blast protection can be enabled on a per port basis using "/cfg/net/port <n>/sec/udpblast" in the CLI or "Config | Network | Ports | Security" page in WebUI.
- IP range access list (IP ACL) allows user to configure up to 5000 IP addresses to be blocked, for example an ISP black list. IP ACL can be configured using "/cfg/sec/ipacl" from the CLI or "Config | Security | IP ACL" from the WebUI and can be enabled on a per port basis using "/cfg/net/port <n>/sec/ipacl" in the CLI or "System | Network | Ports | Security" page in WebUI.
- Protocol rate limiting allows you to rate limit TCP, UDP or ICMP sessions. When the threshold rate is exceeded, new sessions will be dropped until the configured hold-down period exceeds. To use protocol rate limiting, you first define a filter using "/cfg/net/adv/filt" CLI or "Config | Network | Filters" page in WebUI. Then you can define how traffic matching that filter should be rate limited using "/cfg/net/adv/filt <n>/adv/rlimit" menu in CLI or "Config | Network | Filters | Rate Limiting" page in WebUI. Finally, apply the filter to specific ports using "/cfg/net/port <n>/enf" and "/cfg/net/port <n>/filt" in CLI or "Config | Network | Ports | General | Modify" page in WebUI.
- Pattern matching allows you to define filters that match the incoming packets against a simple string or a regular expression. To use pattern matching, first define a filter using "/cfg/net/adv/filt" CLI or "Config | Network | Filters | Filters" page in WebUI. Then you can define what pattern to search for using "/cfg/net/adv/filt <n>/adv/pmatch" menu in CLI or "Config | Network | Filters | Pattern Matching" page in WebUI. Finally, apply the filter to specific ports using "/cfg/net/port <n>/enf" and "/cfg/net/port <n>/filt" in CLI or "Config | Network | Ports | General | Modify" page in WebUI.

# 4.3.3 Hitless Upgrade

If you have a high availability setup, consisting of 2 accelerators and 2 or more directors, you can upgrade the cluster with virtually no downtime. To start the hitless upgrade process, please use the "/boot/software/hitless/activate" CLI. For hitless upgrade to work smoothly, make sure the following conditions are met.

- Both the active and backup accelerators should have all the network links up
- Do not disconnect any network cables or reboot any accelerator or director while hitless upgrade is in progress.

Hitless upgrade works by upgrading one side of the cluster first, then failing over traffic to that side and upgrading the other side. If you are upgrading between different versions of Check Point, hitless upgrade will pause after upgrading one side and wait for you to establish trust and push policy to the upgraded side before failing over to that side.

Stateful session failover is not available during hitless upgrade because Check Point sync will not work between different versions.

### 4.3.4 Packet Capture

NSF 4.1.x includes a packet capture utility to troubleshoot traffic related issues. It captures the packet at various points within the system as the packet flows through NSF. It supports ethereal like capture filters using the -f flag. To start the packet capture utility, login as root and run "asfcapture -f <filter>". Please run "asfcapture -h" for a brief help message.

## 4.3.5 Multicast Routing

NSF 4.1.x supports PIM-SM and IGMPv2 multicast routing. NSF can be used as a transit router or Rendezvous Point (RP). In this initial release, NSF cannot be used as an edge router for multicast. This means that multicast receivers and sources cannot be directly attached to NSF. NSF supports up to 31 outgoing VLANs per (S, G) and up to 63 multicast routes.

PIM can be configured using "/cfg/net/routes/pim" from the CLI or "Config | Network | Routes | PIM" from the WebUI.

#### 4.3.6 WebUI Enhancements

The WebUI has a new look and feel with a navigation tree pane on the left which makes it easier to move around. The "Wizards" tab has a number of wizards which walk the user through various configuration tasks. There is also an "Initial configuration wizard" that can be launched immediately after initializing a cluster using the "new" item in the CLI, provided you specify a management interface IP address during "new".

The WebUI also includes a "Ticker", which is a Java applet that can be launched from the WebUI. The ticker displays all information needed to monitor NSF on a single screen and can also display charts over a period of time. Java 1.4.2.\_01 or newer is required for the ticker applet.

# 4.3.7 Detailed Explanation of Log Messages

Detailed online help is available for various syslog messages generated by the system. Each message contains an identifier (e.g. CFGD\_011) which can be looked up from the CLI or WebUI to get more details about the message, possible causes and information on how to resolve it. This can be accessed in the CLI using "/maint/logdetail" and from the WebUI by navigating to "Config | Administration | Monitor | Syslog" page.

### 4.3.8 Enhanced Director Load balancing

NSF 4.1.x allows the user to select the load balancing metric to be used for load balancing traffic across the directors.

- iphash Traditional load balancing metric using the source and destination IP addresses to select the director.
- ipporthash Use the source port and destination port in addition to source IP and destination IP. Use this if a large portion of the traffic has the same source and destination IP.

You can also specify a weight between 0 and 15 for each director. You can also specify a weight for the MIP holder, which will override the weight specified for that director.

The load balancing options can be configured using "/cfg/sys/lbopts" menu in the CLI or "Config | Administration | Load Balancing" page in WebUI..

### 4.3.9 Gateway Persistency

When using multiple default gateways and round robin metric for load balancing the default gateways, gateway persistency can be enabled to ensure symmetric routing. Gateway persistency can be enabled on a port using "/cfg/net/port <n>/gwp" menu item in CLI or "Config | Network | Ports | General | Modify" page in WebUI.

# 4.3.10 UPS Support

NSF 4.1.x supports UPS devices manufactured by APC Corp. The directors can communicate with the UPS, detect power failure and shutdown cleanly before the UPS battery runs out. NSF can communicate with the UPS over USB cable or SNMP. UPS settings can be configured using "/cfg/sys/ups" menu in CLI or "Config | Administration | APC UPS" page in WebUI.

# 4.3.11 USB Device Support

You can use USB stick storage devices to transfer files from and to NSF. This includes transferring tsdumps, creating system backups, restoring from backups etc.

#### 4.3.12 RADIUS Authentication

NSF 4.1.1 allows you to use an external RADIUS server for authentication for administrative login to NSF CLI or WebUI. RADIUS server authentication can be configured using "/cfg/sys/adm/auth" menu in the CLI or "Config | Administration | RADIUS" page in WebUI. The user name must exist on both NSF and the RADIUS server for the user to login successfully. It is recommended that the "fallback" option be enabled so you can login using the local username and password in case the RADIUS server is down.

# 4.3.13 OSPF Route Maps

Route maps allow you to exercise fine grained control over route redistribution in OSPF. You can define route maps using "/cfg/net/route/rmap" in the CLI or "Config | Network | Routes | RMAP" page in WebUI. These route maps can then be attached to "static", "connected" and "RIP" redistribution from OSPF.



Sequence number verification is part of Check Point SmartDefense. Starting with 4.1.1, the accelerator supports sequence number verification. As a result, sequence number verification is done even for accelerated packets. Sequence number verification can be enabled or disabled from the SmartDefense tab of Check Point SmartDashboard.

## 4.3.15 SCP/SFTP Support

NSF 4.1.1 allows you to transfer files securely over the network using scp or sftp protocol. This can be used to export configuration, tsdumps, backup file etc.

# 5 Nortel Switched Firewall, 4.1.2 (03/24/2006)

### 5.1 Supported Hardware Platforms

NSF 4.1.2 supports the following hardware platforms:

- NSF 6414 (6400 accelerator with 5014 director)
- NSF 6614 (6600 accelerator with 5014 director)
- NSF 6424 (6400 accelerator with 5024 director)
- NSF 6624 (6600 accelerator with 5024 director)
- NSF 6416 (6400 accelerator with 5016 director)
- NSF 6616 (6600 accelerator with 5016 director)
- NSF 6426 (6400 accelerator with 5026 director)
- NSF 6626 (6600 accelerator with 5026 director)

### 5.2 Supported Check Point Releases

NSF 4.1.2 supports the following Check Point versions:

- Check Point NG with Application Intelligence R54 (FP4) with HFA-417
- Check Point NG with Application Intelligence R55 with HFA12 Or HFA-16
- Check Point NGX (R60)

#### 5.3 What's New

There is no new feature added in 4.1.2.

# 5.4 Configuration of the Gateway Cluster Object for R60

Please refer to Check Point user guide for a detailed description of the procedure to configure R60 SmartDashboard. The following guidelines should be followed while configuring SmartDashboard for NSF:

- While creating cluster object, both VPN as well as ClusterXL in the "Gateway Cluster Properties" window are selected by default. Make sure to unselect ClusterXL from the list of Check Point products. Also, unselect VPN if it is not used.
- While defining the gateway cluster for the NSF in Check Point SmartDashboard, the "3rd Party Configuration" in the gateway cluster properties should be configured as follows:
  - o Cluster Operation Mode: Load Sharing (mandatory)
  - o 3rd Party Solution: **OPSEC** (mandatory)
  - Support non-sticky connections: Yes (mandatory)
  - o Hide Cluster Members' outgoing traffic behind Cluster's IP Address: No
  - o Forward Cluster's incoming traffic to Cluster Members' IP Address: **No**
  - Configure the Check Point synchronization interface in the topology page. This
    configuration used to be under "Synchronization" tab in "Gateway Cluster Properties"
    window for R54 and R55.

# 5.5 Bugs Fixed Since 4.1.1 Release

# 6 Nortel Switched Firewall, 4.1.2.1 (07/07/2006)

### 6.1 Supported Hardware Platforms

NSF 4.1.2.1 supports the following hardware platforms:

- NSF 6414 (6400 accelerator with 5014 director)
- NSF 6614 (6600 accelerator with 5014 director)
- NSF 6424 (6400 accelerator with 5024 director)
- NSF 6624 (6600 accelerator with 5024 director)
- NSF 6416 (6400 accelerator with 5016 director)
- NSF 6616 (6600 accelerator with 5016 director)
- NSF 6426 (6400 accelerator with 5026 director)
- NSF 6626 (6600 accelerator with 5026 director)

### 6.2 Supported Check Point Releases

NSF 4.1.2.1 supports the following Check Point versions:

• Check Point NGX (R61)

#### 6.3 What's New

There is no new feature added in 4.1.2.1

#### 6.4 Bugs Fixed Since 4.1.2 Release

# 7 Nortel Switched Firewall, 4.1.3 (08/28/2006)

### 7.1 Supported Hardware Platforms

NSF 4.1.3 supports the following hardware platforms:

- NSF 6414 (6400 accelerator with 5014 director)
- NSF 6614 (6600 accelerator with 5014 director)
- NSF 6424 (6400 accelerator with 5024 director)
- NSF 6624 (6600 accelerator with 5024 director)
- NSF 6416 (6400 accelerator with 5016 director)
- NSF 6616 (6600 accelerator with 5016 director)
- NSF 6426 (6400 accelerator with 5026 director)
- NSF 6626 (6600 accelerator with 5026 director)

### 7.2 Supported Check Point Releases

NSF 4.1.3 supports the following Check Point versions:

- Check Point NG with Application Intelligence R55 with HFA18
- Check Point NGX R60 with HFA-03
- Check Point NGX R61

#### 7.3 What's New

The following new features are supported in this release:

### 7.3.1 CPU Usage

This feature provides a solution to view the average CPU usage using the CLI command "/info/clu".It computes the average CPU usage over a time period of 5 minutes collecting samples for each 30 seconds. The CPU Alarms which appeared during momentary peak CPU usage has also been corrected with this feature.

# 7.3.2 kept\_conns

New CLI command requested for displaying SFD kept connections in AIM table and AIM accelerated connections. When the CLI command /maint/debug/aim/kept\_conns is executed, a list of AIM accelerated and SFD kept connections are displayed from the AIM table.

# 7.3.3 WebUI Ticker Data Saving Functionality

The data saving functionality in NSF Ticker allows the user to save the cluster, host and accelerator data into text files. This functionality is enabled by default. The data is saved in text files under the users' home directory.

# 7.4 Bugs Fixed Since 4.1.3 Release

- $\bullet$  Health Check Daemon and Config Daemon may not work properly after 248 days of uptime (Q01106902-03)
- NSF/BBI or Web UI based port configuration is causing BBI problems (Q01418950)
- Web Server did not work when adding new port or new filter (Q01334782)
- WEBUI TICKER: Not able to view history while running ticker for more than 10 days (Q01373575)

- WEBUI ticker: Throughput In and Out shown in Ebps when we do fail over (Q01329143)
- ISDLB: Switch reboots when we use /cfg/slb/isdfw/isd\_no command in GOD mode (Q01104528)
- mond.log file is not getting rotated when we run the system more than 10 days (Q01338744)
- New HFAs are missing for R55 & R60 (Q01410552)
- Unable to add Proxy ARP (Q01311541-01)
- oper group permissions (Q00910450-01)
- Validation should give error/warning msg when we delete the 10.10.1.0 from accesslist (Q01317877)
- SFD always get panic when installing R60 HFA-03 with kdb mode on (Q01340625)
- HFA is not getting upgraded during software from 4.1.1.0\_R55 to 4.1.2\_R55 (Q01338725)
- JOIN fails when we try to add a member with 16 bit mask (Q01338741)
- Not able to bring up copper gig port when we disable auto negotiation in 6600 (Q01095463)
- NSF 6600 / 4.1.1 / RSA sdconf.rec file is deleted from /var/ace after reboot (Q01408009)
- SFD cannot detect SFA after disabling jumbo frame and enabling trunking (001161524)
- Command /opt/tng/bin/lb is not giving the expected output (Q01245413-01)
- Hard disk space (/config) usage goes more than 70% after the upgrade (Q01351923)
- CLI : Request to have an info cmd to view the CPU usage over a period of time (Q01329192)
- SSI Restarting (Q01266907)

# 8 Appendix A: List of Known Issues

This Appendix provides detailed explanation on all the issues found and/or fixed in 4.1.x releases. The following information is provided for each issue:

- Last update date
- Affected releases
- Current status
- Description of the problem
- Description of the work around or fix, if available

# Issues Updated on 08/28/2006

### Health Check Daemon and Config Daemon may not work properly after 248 days of uptime

CR# Q01106902-03

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

The time variable used for health check daemon (hcd) and config daemon (cfgd) wraps around in 248.5 days. Current processing of this variable does not take care of the wrapping and could cause problems where "/info/clu" will show old date, cfgd will not configure accelerator when the SFA is rebooted, hcd will not send health check packets, naapd will not detect the other peers.

When you run "/info/clu," if the "Health Report as of ..." field shows an old time and does not get updated, this may indicate that the problem has occurred. To verify, please login as root and run "uptime" to see if the system has been up for more than 248 days. After 248.5 days, ::times() wraparound causes general havoc for the system.

For earlier releases, the work around for this problem is only to reboot the SFDs well ahead of 248 days. The issue has now been fixed in 3.5.7 release. The jiffies wrap around case is now taken care and the system runs normally even after 248.5 days.

#### NSF/BBI or Web UI based port configuration is causing BBI problems

CR # Q01418950

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

To update on port configuration page on BBI cause httpd to hang. Now we have the fix in HFA\_018 and hence the issue would be no longer seen.

### Web Server did not work when adding new port or new filter

CR # Q01334782

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

To update on port configuration page on BBI cause httpd to hang. Now we have the fix in HFA\_018 and hence the issue would be no longer seen.

### WEBUI TICKER: Not able to view history while running ticker for more than 10 days

CR # Q01373575

Last Updated: 08/28/2006 Affected Release: 4.1.x Current Status: Closed

If the user runs NSF ticker for more than 10 days, the history cannot be viewed. This issue has been fixed now.

### WEBUI ticker: Throughput In and Out shown in Ebps when we do fail over

CR#Q01329143

Last Updated: 08/28/2006 Affected Release: 4.1.x Current Status: Closed

With NSF ticker, once the fail over is initiated, the Throughput graphs display traffic in Ebps. The issue has been fixed. Now the throughput comes down to zero at the fail over instance.

# Issues Updated on 08/28/2006

#### SSI RESTARTING

CR# Q01266907 Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

The SSI service restarts intermittently and causes daemons such as clicbd, cfgd, hc to disconnect from SSI and reconnect again. The impact is when user is logged-in to CLI/BBI and restart takes place, the user CLI/BBI is terminated and user needs to connect again. The issue is fixed now.

#### ISDLB: Switch reboots when we use /cfg/slb/isdfw/isd\_no command in GOD mode.

CR # Q01104528

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed If /cfg/slb/isdfw/isd\_no command was run without giving the isd number, it used to make switches reboot. Old build had this issue. Fix is already checked in. Not present in latest 4.1 build.

#### mond.log file is not getting rotated when we run the system more than 10 days

CR # Q01338744

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Fixed

mond.log file was not rotating when system is left running for more than 10 days which was harmful for hard disk memory

#### New HFAs are missing for R55 & R60

CR # Q01410552

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

New HFAs, HFA-18 & HFA-03, were missing for R55 and R60 respectively. The issue has been resolved.

#### Unable to add Proxy ARP

CR #Q01311541-01

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

User was unable to set PARP IP addresses like x.0.0.x or x.0.x.x or x.x.0.x which are valid IP format. Now user can add such type of IPs as Proxy ARP IPs.

#### oper group permissions

CR # Q00910450-01

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed oper group had permissions to load and unload policies i.e. they could access /maint/diag/ldplcy & /maint/diag/unldplcy.

# Validation should give error/warning msg when we delete the 10.10.1.0 from accesslist

CR # Q01317877

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

Validation was not showing any error if any network/host was added to the access list in absence of sfd subnet but apply was showing the error. However empty list is allowed.

Now the fix gives error if SFD subnet (10.10.1.0) or any of its subsuming nets (10.0.0.0 or 10.10.0.0) is missing and any other net/host is added to access list

#### SFD always get panic when installing R60 HFA-03 with kdb mode on

CR# Q01340625

Last Updated: 08/28/2006 Affected Release: 4.1.3 Current Status: Closed

This problem arises when we upgrade HFA-03 package manually on SFD for checkpoint R60. Now our forthcoming build has HFA-03 as inbuilt. So there is no need to separately install.

#### SFD always get panic when installing new HFA version with kdb mode on

CR# Q01340625-01

Last Updated: 08/28/2006 Affected Release: 4.1.3 Current Status: Open

This problem arises when we upgrade HFA package manually on SFD. With the kdb mode on, the SFD is getting panic when new HFA versions are installed.

#### HFA is not getting upgraded during software from 4.1.1.0\_R55 to 4.1.2\_R55

CR# Q01338725

Last Updated: 08/28/2006 Affected Release: 4.1.3 Current Status: Closed

HFA is not getting upgraded, after upgradation of the same checkpoint version. The reason behind is, cfgd restores the backup configuration after the upgrade, which overrides the latest upgraded hfa with old one. Now while upgrading process we took the backup of "/var/opt" directory before restoring the backup configuration. The backup of "/var/opt" directory contains latest upgraded hfa and it can be restored after it restored the backup checkpoint configuration.

### JOIN fails when we try to add a member with 16 bit mask

CR# Q01338741

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

A new cli is added to receive net mask as part of join.

# Not able to bring up copper gig port when we disable auto negotiation in 6600

CR# Q01095463

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

Added validation code for ports 9-12 in 6600

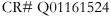
#### NSF 6600 / 4.1.1 / RSA sdconf.rec file is deleted from /var/ace after reboot

CR# Q01408009

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

The secureid file "sdconf.rec" is deleted from the /var/ace directory. This happens when the SFD hardware is "NE". In this case the file could not be properly imported since the floppy drive is not available. As a fix we now allow the file to imported locally via, floppy, USB and also remotely via ftp, ssh, tftp and scp. Validation handles the configuration of these file transfer modes based on the hardware.

### SFD cannot detect SFA after disabling jumbo frame and enabling trunking



Last Updated: 08/28/2006 Affected Releases: 4.1.3 Current Status: Closed

The communication between SFD and SFA is lost when we try to enable a disabled non-gig port, which was part of Jumbo vlan then. The cfgd is not able to apply the switch configuration as the jumbo configurations are sent last to SFA.

The default Jumbo configuration is sent to the SFA ahead of port/vlan configuration to resolve this.

### Command /opt/tng/bin/lb is not giving the expected output

CR #Q01245413-01

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Fixed

There was a problem in the lb script which was wrongly reading /info/naap/dump output at switch end.

#### 4.1.1 drops packets that arrive out of order

CR # Q01231858

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

When packets arrive out of order, the switch was found to drop those. This created issues with browsing certain websites.

Workaround 1: Disabling acceleration will allow traffic to pass.

Workaround 2: Disable TCP Sequence Verification on the NSF.

This can be done as follows:

Login as root

a. Go to 'vi /opt/tng/conf/config'

b. Uncomment the second line (remove the # at the beginning)

#Disable AIM from registering TCP SEQ VERIFICATION capability

#NO TCP SEQ VERIFICATION=1

c. This must be done on each SFD and reboot the cluster.

# Hard disk space (/config) usage goes more than 70% after the upgrade

CR # Q01351923

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Closed

/config partition on the iSD was almost filled up to 70 % with R61 upgrade. Now the partition size has been increased to 2GB to accommodate more files.

#### CLI: Request to have an info cmd to view the CPU usage over a period of time

CR # Q01329192

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Fixed

The /info/clu command now displays the average CPU usage over a period of 5 minutes. This is updated every 30 seconds. This also solves the issue of unnessary alarms caused due to CPU usage exceeding the limit.

#### ASF continuously deleting and adding default route sent by Cisco

CR # Q0144543

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

When default routes are learnt via dynamic routing protocols, the ASF continuously adds and removes these routes. This also leads to excessive log messages filling up the /var directory to even 100%.

#### oper user is able to change the password of admin user

CR # Q01427432

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

Through the oper login, the user must not be able to change the password of admin user. Presently the oper user is able to change the admin user password. It denies the user to login further with the old admin password.

#### Hard disk usage calculation is wrong when we connect usb stick to the ISD

CR # Q01435023

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

After mounting a usb (using usbmount command from root), the hard disk usage is shown veryhigh from CLI. If the usb stick is 85% full, we display harddisk usage as 85 which is wrong. The problem happens only for usb. For

CD there is no such wrong calculation.

### Upgrade: Switch panic while doing hitless Upgrade from 4.1.2.0 to 4.1.3.0

CR # Q01435081

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

When doing a hitless upgrade from 4.1.2 to 4.1.3, the master gets upgraded successfully. While decommissioning, the back up current master switch gets a panic.

### Non MIP ISD remains in passing state after the upgradation to 4.1.3\_R61

CR # Q01438644

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

After downloading and activating the 4.1.3\_R61 package, and pushing the policy from CP, the status of non MIP SFD in /info/clu is seen to remain in passing state itself.

#### IDSLB: disable or enable IDS globally, there is a failover triggered always

CR # Q01448478

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

Whenever we disable or enable IDS globally, there is a failover triggered. Even when we disable and enable a group, failover is seen to occur.

### /cfg/acc/det, /info/det is not showing Active Accelerators

CR # Q01437950

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

info/net/if, /info/net/port shows all the interfaces and port details. and /info/clu shows firewall status as Accelerating but /info/det, /cfg/acc/det is showing no Active Accelerators are found.

This was seen in both standalone and HA set up with 6614 platform.

#### ASF6414 - Clearing accelerator stats from the director

CR # Q01444801

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

When two ASF6414 form a cluster, user is unable to clear statistics of any of the accelerators.

There are two issues.

- 1. ASF doesn't clear statistics value if you use "clear" CLI command on the director.
- 2. If there are two accelerators, accelerator2 doesn't respond to "prtstat" CLI command.

#### NSF 4.1.2\_R60 SNMP queries, not returned

CR # Q01434591

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

SNMP queries are returned with wrong IP setting because /cfg/sys/snmp/adv/trapsrcip is not working. SNMP traps and queries responses have a source IP of the interface. The configuration of /cfg/sys/snmp/adv/trapsrcip does not have any affect on the source IP.



CR # Q01437363

Last Updated: 08/28/2006 Affected Releases: 4.1.x Current Status: Open

Unable to use a RADIUS server as central database for cli logins.

Customer is still required to create the user accounts manually on the firewalls. Managing the creation and deletion of users from the RADIUS server is not possible presently.

# Issues Updated on 03/22/2006

#### PRIMARY PORT FAILING TO COPPER BACKUP FLIPS CLUSTER.

CR# Q01218241

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed

When the primary physical link of a port failed (fibre), the backup physical link (copper) was activated but a VRRP failover on the accelerator was triggered. By allowing enough time for port failure, vrrp failover was avoided.

#### SNMPD PROCESS KEEPS RESTARTING.

CR# Q01229738

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed

When the SSI process went down, SNMP went down and health check restarted snmpd process. The fix made the snmp daemon independent of SSI and does not go down when SSI internally restarts. The snmp daemon service is restarted once in every week.

#### NTP SERVER ACCESS IS NOT RESTRICTED TO SFD SUBNET.

CR# Q01208951

Last Updated: 03/22/2006 Affected Releases: 4.1.2 Current Status: Closed NTP server access was not restricted to SFD subnet. Technically, NTP server runs on MIP and other SFDs and accelerators access NTP server. Since iptables rule was missing, any host with access to MIP could talk to NTP and get details such as OS info, time etc. The fix was to make NTP accessible within SFD subnets and configured NTP servers.

### NSF 4.1.1 REPLACING A SFA SHOWS 3 SFA'S IN /INFO/DET.

CR# Q01234723

Last Updated: 03/22/2006 Affected Releases: 4.1.2 Current Status: Closed

After replacing an accelerator, 3 SFA'a are displayed under CLI command /info/det. The fix was to display only detected/reachable accelerators.

### UNNECESSARY/CONFUSING LOG MESSAGE RELATED TO SFD STATUS IN SINGLE SFD SETUP

CR# Q01248760

Last Updated: 03/22/2006 Affected Releases: 4.1.2 Current Status: Closed

When there is only one SFD-Accelerator (standalone) in the setup, the process which was invoked as part of determining isolation case from the cluster reported misleading information which was not appropriate for standalone setup. The fix was to check for type of cluster before writing log messages.

#### ACCELERATOR IS 1 HOUR AHEAD OF DIRECTORS

CR# Q01279395

Last Updated: 03/22/2006 Affected Releases: 4.1.x Current Status: Open

When the SFD date changes to Apr 02 2006 01:59:00 (timezone: North America), the SFD time changes to 3AM (PST) after one minute but the accelerator still shows 2AM PST.

#### L2 VLAN DOES NOT WORK PROPERLY

CR# Q01326194

Last Updated: 03/22/2006

Affected Releases: 4.1.2 R60, 4.1.2.1 R61

Current Status: Open

When a vlan is configured with two ports and L2FW is enabled for the vlan, CheckPoint NGX drops traffic in the vlan. This issue happens only in 4.1.2 R60 and 4.1.2.1 R61.

#### /CFG/SYS NOT AVAILABLE TO CHANGE NAAP VLAN ID ON ACCELERATOR

CR# Q01252655

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed

User is unable to set NAAP VLAN id in accelerator on NSF 4.1.1 since the /cfg/sys menu is not available in the accelerator when logged in as 'admin' user. The issue is fixed and now user can change default NAAP vlan. The /cfg/vlan menu is hidden in 'admin' mode since user should not accidentally change vlans in the accelerator.

#### VPN SITE TO SITE DOESN'T WORK

CR# Q01284910

Last Updated: 03/22/2006 Affected Releases: 4.1.2 R60

Current Status: Open

Both site-to-site and client-to-site VPN will not work in 4.0.4-R60 with the default management station settings. The work around to resolve this problem is described below:

- 1. Configure the VPN gateway object in the Check Point SmartDashboard and save the configuration. Close the management station if it is opened.
- 2. Open a dos window.
- 3. Type "cd \program files\checkpoint\smartconsole\r60\program". If you have installed Check Point management software in a different location, you should cd to appropriate directory.
- 4. Type in "guidbedit" and connect to management station.
- 5. Hit "Ctrl F" (for find) and type "reroute" in the "Find What" box
- 6. Click on the "Find Next" button
- 7. It should take you to the "reroute\_encryted\_packets" in the "Field Name" column
- 8. Change the "Value" to false.
- 9. Hit "F3" and it should find the next instance of "reroute\_encryted\_packets"
- 10. Change its "Value" to false.
- 11. click on "File" and click on "Save All"
- 12. Close the guidbedit window and start it again and double check the values of "reroute\_encryted\_packets" are set to false.
- 13. Close the guidbedit window after verifying the values.
- 14. Start the management station and push the policy to the firewall.

In addition, if the encryption domain is NAT'ed and VPN community is used, it may be necessary to disable NAT inside the VPN community. The Disable NAT inside the VPN Community property checkbox can be toggled in the SmartDashboard (VPN Manager tab -> Community object properties -> Advanced VPN Properties tab). Disabling the reroute\_encrypted\_packets property for a NPV community also prevents Excluded Services within the VPN from working. The Excluded Services tab is also inside SmartDashboard (VPN Manager tab -> Community object properties).

#### BOGUS ERRORS ON PORTS 27 AND 28 OF THE ACCELERATOR

CR# Q01296879

Last Updated: 03/22/2006 Affected Releases: 4.1.x

Current Status: No Fix Planned

The error counters go up on ports 27 and 28 even when nothing is plugged into the ports. The error s only appears at the accelerator ports 27 & 28 and they appear only when both SFA and SFD reboot at the same time.

/stats/port 27/clear would clear this statistics.

#### NO VALIDATION CHECK TO PREVENT INVALID SUBNET MASK FOR IP ACL

CR# Q01149215

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed

While configuring IP ACL, 0.0.0.0 is not considered a valid subnet mask. However, there is no validation to prevent user from configuring 0.0.0.0 as a subnet mask for IP ACL entry. This invalid configuration will be rejected by the accelerator and you will see the following error under "/info/det". IP subnet mask cannot be set to 0.0.0.0. The issue has been fixed now.

#### NSF /VAR/TMP/LOCAL STATE FILE FILLING UP

CR# Q01335693

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed When cfgd started, it created dynamic registry nodes in /var/tmp/local\_state and the last node which was written disappeared. When cfgd tried to access it again, it caught an exception and exited. Health check restarted cfgd which triggered ACCEL OFF and ACCEL ON states on the accelerator.

The issue was the local\_state file quickly filled up and the file was rotated. The rotation of the new file was the reason for exception and it was fixed.

## Issues Updated on 08/23/2005

#### FTP SESSION FAILS WHEN TCP SEQUENCE VERIFICATION IS ENABLED

CR# Q01113493

Last Updated: 08/23/2005 Affected Releases: 4.1.1 Current Status: Closed

When TCP sequence verification is enabled in Check Point SmartDefense, the FIN packet of the FTP data session is incorrectly dropped with a Check Point log message indicating TCP sequence check failure. With some FTP clients, this will cause the FTP session to hang while the client waits indefinitely for the data connection to close.

The workaround is to turn off TCP sequence verification. Open SmartDashboard and from the SmartDefense tab, go to "Network Security | TCP" and uncheck "Sequence Verifier". Save the changes and push policy to NSF again.

# Issues Updated on 07/25/2005

#### SYNC THRO VNIC IS NOT SUPPORTED WITH VPN

CR# Q01061470

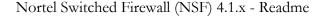
Last Updated: 07/25/2005 Affected Releases: 4.1.x

Current Status: No Fix Planned

If VPN is selected in the cluster object properties of the NSF cluster object in Check Point SmartDashboard, you should not use "sync thro vnic" as this will cause VPN traffic to fail occasionally. Please use a dedicated port on the director for Check Point sync.

#### USING COPPER GBIC ON DUAL PORTS OF 6600

CR# Q01050555



Last Updated: 07/25/2005 Affected Releases: 4.1.x

Current Status: No Fix Planned

The 6600 accelerator has dual connecters for ports 3, 4, 5 and 6. You can use either copper of fiber GBICs for the GBIC slots. If you use copper GBICs, link negotiation happens between the accelerator and the GBIC causing the accelerator to consider that link as up as soon as the copper GBIC is inserted. If GBIC is configured as you preferred connector, the accelerator will switch over to the copper GBIC as soon as it is inserted even of there is no cable connected. To prevent this, you should set the GBIC port as the backup if you plan to use copper GBICs.

#### PROXY ARP ENTRIES ABOVE 1600 DOES NOT WORK

CR# Q01104775

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If you have more than 1600 proxy arp addresses defined, the system will not do proxy arp for entries above the first 1600.

#### "SOFTDOG DRIVER OPEN FAILURE" MESSAGE WHEN ACCELERATOR BOOTS UP

CR# Q01052781

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

When the accelerator is booting up, you will see the above error message if you are connected to the serial console of the accelerator. The message is harmless and can be safely ignored.

#### PIMD RESTARTS WHEN IP ADDRESS ON PIM ENABLED INTERFACE IS CHANGED

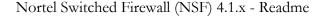
CR# Q01094577

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If the IP address of a PIM enabled interface is changed, it will cause the pimd process to restart. This may cause disruption of multicast traffic for a few seconds.

#### CHANGES MADE TO ROUTEMAPS DO NOT TAKE EFFECT IMMEDIATELY



CR# Q01089358

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If more than one redistribution is enabled, changes made to routemaps do not take effect even after the changes are applied. As a workaround, please disable and enable OSPF redistributions when routemaps are updated.

#### ISSUES RELATED TO LARGE CONFIGURATIONS

CR# Q01142037

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If the NSF configuration is very large, the system will take a long time to apply the configuration or may fail to apply the configuration. Other symptoms include "accel off", failing CLI commands under "/info" menu and high CPU usage on the director as it tries to apply the configuration. Examples of large configurations include 1500+ proxy arp addresses, 4000+ static routes and 2000+ filters.

#### INCORRECT UDP BLAST BEHAVIOR

CR# Q01117033

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

The CLI allows user to specify multiple UDP ports and port ranges to be protected against UDP blast. However the system applies the UDP blast control to all ports that are between the lowest and highest user specified ports. For example, if you configure UDP blast protection for ports 1000 and 2000, all UDP ports between 1000 and 2000 also get UDP blast protection.

Under heavy stress, when traffic is more than 50% of gig line rate, the system is unable to enforce the configured UDP blast protection (Q01157980).

#### DIRECTOR RUNS OUT OF MEMORY DURING BOOTUP

CR# Q01157944

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed If Check Point sync is enabled, the director tries to sync it's session table with that of the cluster members during bootup. However, if session rate is more than 4000 per second and all the sessions are being synched, the director will run out of memory trying to sync up its session table. FW flags were added to fwkern.conf which limits memory usage for sync at startup.

#### DOS ATTACK TRAFFIC CAUSES HIGH MP CPU UTILIZATION ON ACCELERATOR

CR# Q01174716

Last Updated: 02/22/2006 Affected Releases: 4.1.1 Current Status: Closed

When DOS attack protection is enabled on a port, the accelerator will generate one syslog message per 128 attack packets dropped. However, if the number of attack packets is large enough, the amount of syslogs generated is enough to overwhelm the MP. Release 4.1.2 has CLI command which sets limit on logs generated per second.

#### ERROR MESSAGE FOR PMATCH STRING LONGER THAN 40 CHARACTERS IS NOT CLEAR

CR# Q01164785

Last Updated: 07/25/2005 Affected Releases: 4.1.1 Current Status: Closed

When configuring pattern matching string under "/cfg/net/adv/filt <n>/adv/pmatch" menu, there is a limit of 40 characters on the length of the pmatch string. If the length of the configured pmatch string is more than 40 characters, you will get the following error when you try to apply the configuration:

Update failed: Match String: Unable to set registry value: bad type of argument in set operation

The validation checks for maximum string length and fixed in 4.1.2.

#### LIMIT ON NUMBER OF VIRTUAL NICS

CR# Q01138787 Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

NSF has a limit of 252 on the number of virtual NICs supported. Each L3 VLAN translates to one VNIC. Each port in an L2 VLAN translates to a VNIC. If your configuration results in more than 252 VNICs, all traffic coming to VNICs above 252 will be dropped.

#### CHANGING SUBNET ON RIP ENABLED INTERFACE REQUIRES RESTARTING RIP

CR# Q01159781

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If the subnet mask on a RIP enabled interface is changed, the RIP daemon will continue advertising the old subnet mask. Please login as root on the MIP director and run "service ripd restart" to restart the RIP daemon and force it to stop advertising the old subnet mask.

#### STATIC ROUTES ARE LOST AFTER IMPORTING CONFIGURATION

CR# Q01158579

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

If you exported a configuration from 4.0.2 or earlier using "/cfg/ptcfg" and later imported it into 4.1.1 using "/cfg/gtcfg", the static routes will not be restored. This is because of the difference in the static route structure between the versions. To recover the static routes, login as root on the MIP director and run "/opt/tng/bin/post-upgrade --routes -verbose".

#### /INFO/SENSORS SHOW CPU AND BOARD TEMPERATURE TO BE NEGATIVE

CR# Q01133343

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

"/info/sensor" CLI command displays the hardware monitoring information like CPU temperature, motherboard temperature, fan speeds etc. Sometimes, it may not be able to get the correct values and will end up displaying "-1" for CPU and motherboard temperatures. You can recover from this situation by rebooting the director. If the problem recurs, please disable hardware monitoring by logging in as root and running the following commands.

make-part-rw / on
chkconfig sensord off

reboot

#### PIM: NSF DOES NOT SUPPORT FRAGMENTED PIM MESSAGES

CR# Q01150870

Last Updated: 07/25/2005 Affected Releases: 4.1.1

Current Status: No Fix Planned

When using PIM, fragmented "join" or "prune" messages are not supported. Fragmented bootstram message (BSM) is also not supported (Q01150866) . Please ensure that these PIM control messages do not get fragmented.

#### VALIDATION ERROR ABOUT ACCESSLIST AFTER UPGRADE

CR# Q01157101

Last Updated: 03/22/2006 Affected Releases: 4.1.1

Current Status: No Fix Planned

If you upgrade from 4.0.x to 4.1.1, you will get the following validation error when you try to make some configuration change and apply.

Invalid setting for /cfg/sys/accesslist. As an accesslist has been configured the MIP and all hosts has to be part of the accesslist.

This is a new requirement in 4.1.1 that the NSF internal subnet has to be added to the accesslist. This is automatically done for you during clean install. In upgrade case, please add the NSF internal subnet to the accesslist to fix the above error.

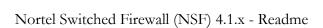
#### "ASFCAPTURE" DOES NOT CAPTURE PACKETS SIMULTANEOUSLY ON ACCELERATOR AND DIRECTOR

CR# Q01160601

Last Updated: 03/22/2006 Affected Releases: 4.1.1 Current Status: Closed

The packet capture utility, "asfcapture", captures packets only on the director even if the command line specifies both the director and accelerator as capture locations. The fix was to modify capture options from "sw" to "all" when accelerators and directors capture is enabled.

#### UNABLE TO CONFIGURE ACCELERATOR AFTER UPGRADE FROM 4.0.X



CR# Q01157140

Last Updated: 03/22/2006 Affected Releases: 4.1.x

Current Status: No Fix Planned

When upgrading from 4.0.x to 4.1.x, please make sure that the system was able to successfully configure the accelerators after upgrade is complete. You can do this by running "/info/det" and making sure the status of each accelerator says "Accelerator is configured and unicast/igmp/pim routes are uptodate". If the accelerator was not configured, please login to the accelerator CLI as 'admin', set the accelerator to boot with factory default config using "/boot/conf fact" and reboot the accelerator using "/boot/reset". This extra step is necessary because of changes in factory default configuration between 4.0.x and 4.1.x software.