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NORTEL

Nortel Security Solutions
Product Readme

> **Nortel Switched Firewall 6000 Series**
4.1.x - Readme

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Table of Contents

1	Introduction.....	5
2	Status of Known Issues and Limitations.....	6
3	Upgrading to NSF 4.1.x.....	12
3.1	Pre-Upgrade Preparation.....	15
3.2	Downloading the upgrade Package.....	15
3.3	Activating the new software.....	16
3.4	Post-Upgrade Verification.....	16
4	Nortel Switched Firewall, 4.1.1 (07/25/2005).....	16
4.1	Supported Hardware Platforms.....	16
4.2	Supported Check Point Releases.....	17
4.3	What's New.....	17
4.3.1	Integrated L2/L3 Firewall.....	17
4.3.2	Security Pack.....	17
4.3.3	Hitless Upgrade.....	18
4.3.4	Packet Capture.....	19
4.3.5	Multicast Routing.....	19
4.3.6	WebUI Enhancements.....	19
4.3.7	Detailed Explanation of Log Messages.....	19
4.3.8	Enhanced Director Load balancing.....	19
4.3.9	Gateway Persistency.....	20
4.3.10	UPS Support.....	20
4.3.11	USB Device Support.....	20
4.3.12	RADIUS Authentication.....	20
4.3.13	OSPF Route Maps.....	20
4.3.14	Accelerated Sequence Number Verification.....	20
4.3.15	SCP/SFTP Support.....	20
5	Nortel Switched Firewall, 4.1.2 (03/24/2006).....	21
5.1	Supported Hardware Platforms.....	21
5.2	Supported Check Point Releases.....	21
5.3	What's New.....	21
5.4	Configuration of the Gateway Cluster Object for R60.....	21
5.5	Bugs Fixed Since 4.1.1 Release.....	22
6	Nortel Switched Firewall, 4.1.2.1 (07/07/2006).....	22
6.1	Supported Hardware Platforms.....	22
6.2	Supported Check Point Releases.....	22
6.3	What's New.....	22
6.4	Bugs Fixed Since 4.1.2 Release.....	22
7	Nortel Switched Firewall, 4.1.3 (08/28/2006).....	23
7.1	Supported Hardware Platforms.....	23



7.2	Supported Check Point Releases	23
7.3	What's New	23
7.3.1	CPU Usage	23
7.3.2	kept_conns	23
7.3.3	WebUI Ticker Data Saving Functionality	24
7.4	Bugs Fixed Since 4.1.2.1 Release	24
8	Nortel Switched Firewall, 4.1.3.1 (09/08/2006)	25
8.1	Supported Hardware Platforms	25
8.2	Supported Check Point Releases	25
8.3	What's New	25
8.4	Bugs Fixed Since 4.1.3 Release	25
9	Nortel Switched Firewall, 4.1.3.4 (12/11/2006)	26
9.1	Supported Hardware Platforms	26
9.2	Supported Check Point Releases	26
9.3	What's New	26
9.4	Bugs Fixed Since 4.1.3.1 Release	26
10	Nortel Switched Firewall, 4.1.4 (04/30/2007)	26
10.1	Notes on Newly Supported Features	26
10.1.1	SecurID	26
10.1.2	Mechanism for installing Checkpoint HFA's on NSF	27
10.1.3	Checkpoint R65	27
10.1.4	CLI command to enable/disable TCP sequence verification	27
10.2	Bugs Fixed Since 4.1.3.4 Release	27
11	Appendix A: List of Known Issues	28



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
1.7	Readme for 4.1.3.1 release	09/08/2006	Santhosh Balasubramanian
1.8	Readme for 4.1.3.4 R62 release	12/14/2006	Samuel Praveen
2.0	Readme for 4.1.4 release	04/30/2007	Samuel Praveen



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, means the issue is fixed in the particular build and 'blank' entry indicates that the CR existence is not verified in that 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							
				4.1.1	4.1.2	4.1.2.1	4.1.3	4.1.3.1	4.1.3.4	4.1.4	
Q01520395	Single fiber link failure of IAP does not fail over to copper	03/20/2007	Open	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01540553	Some packets are dropped while a checkpoint policy is pushed to the firewall	03/20/2007	Open	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01575439	NSF/inconsistencies between /info/acc and /info/det	03/20/2007	Open		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01451288	Sync port down/up whenever accelerator is reconfigured	03/20/2007	Closed		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01460485	Cable unplugged on GBICs doesn't failover	03/20/2007	Closed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01535310	IAP failure creates 2 MIPs in a cluster	03/20/2007	Closed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01441056	cfgd crashes after installing HFA_04 (both 4.1.3 and 3.5.7 builds)	03/20/2007	Closed				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q01488650	ASF prefers def gw advertised through ospf over def gw configured statically	03/20/2007	Closed					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Nortel Switched Firewall (NSF) 4.1.x - Readme

Q01525481	Accelerator is getting panic when we give -ive value for port statistics from ISD	03/20/2007	Closed				☒	☒	☒	☑
Q01530663	Not able to install ASF image on NE isd with 160 GB HDD	03/20/2007	Closed				☒	☒	☒	☑
Q01540529	SIC reset is needed after upgrade from 4.1.2 R60 to 4.1.3 R60	03/20/2007	Closed				☒	☒	☒	☑
Q01460968	No Special Character Support for Admin password	03/20/2007	Open				☒	☒	☒	☒
Q01587914	CLI command to enable/disable TCP sequence verification	03/20/2007	Closed				☒	☒	☒	☑
Q01456570	Firewall leaking nonIP packets when IDSLB is enabled	03/20/2007	Closed					☒	☒	☑
Q01469207	ASF6614 4.1.3/R60 - CheckPoint VPN is failing following HA failover	03/20/2007	Closed				☒	☒	☒	☑
Q01539020	Websense UFP filtering stops due to lack of ports	03/20/2007	Closed				☒	☒	☒	☑
Q01415915	NSF 4.1.2.0_R60 locks up after several hours because of memory leak	12/12/2006	Open		☒	☒	☒	☒	☒	☒
Q01496816	Large packets are getting dropped incorrectly	03/20/2007	Closed	☒	☒	☒	☒	☒	☒	☑
Q01509522	Under stress condition, after rebooting the ISD's, sync is in "error state".	12/01/2006	Open						☒	☒
Q01448475	IDSLB: Not able to set IDSLB group as 0 (to disable monitoring) on a particular VLAN.	09/08/2006	Closed				☒	☑		
Q01435035	IDSLB: IDS load balancing on NSF High Availability setup causes network loop	09/08/2006	Closed		☒	☒	☒	☑		



Nortel Switched Firewall (NSF) 4.1.x - Readme

Q01104528	Switch reboots when we use /cfg/slb/isdfw/isd_no command in GOD mode	08/28/2006	Closed		☒	☒	☑			
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		☒	☒	☑			
Q01311541-01	Unable to add Proxy ARP	08/28/2006	Closed			☒	☑			
Q00910450-01	Oper group permissions	08/28/2006	Closed			☒	☑			
Q01317877	Validation should give error/warning msg when we delete the 10.10.1.0 from accesslist	08/28/2006	Closed				☑			
Q01340625	SFD always get panic when installing R60 HFA-03 with kdb mode on	08/28/2006	Closed			☒	☑			
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				☑			
Q01095463	Not able to bring up copper gig port when we disable auto negotiation in 6600	08/28/2006	Closed			☒	☑			
Q01329192	Request to have an info cmd to view the CPU usage over a period of time	08/28/2006	Closed				☑			
Q01408009	NSF 6600 / 4.1.1 / RSA sdconf.rec file is deleted from /var/ace after reboot	08/28/2006	Closed				☑			
Q01266907	SSI Restarting	08/28/2006	Closed	☒	☒	☒	☑			
Q01445437	ASF continuously deleting and adding default route sent by Cisco	03/20/2007	Closed				☒	☒	☒	☑



Nortel Switched Firewall (NSF) 4.1.x - Readme

Q01427432	Oper user can be able to change the password of admin user	03/20/2007	Closed				☒	☒	☒	☑
Q01435023	Hard disk usage calculation is wrong when we connect usb stick to the ISD	03/20/2007	Closed				☒	☒	☒	☑
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	03/20/2007	Closed				☒	☒	☒	☑
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				☑			
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				☑			
Q01334782	Web Server did not work when adding new port or new filter	08/04/2006	Closed				☑			



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Q01373575	WEBUI TICKER: Not able to view history while running ticker for more than 10 days	08/04/2006	Closed				✓			
Q01329143	WEBUI ticker : Throughput In and Out shown in Ebps when we do failover	08/04/2006	Closed				✓			
Q01351923	Hard disk space (/config) usage goes more than 70% after the upgrade	08/04/2006	Closed				✓			
Q01338725	HFA is not getting upgraded during software from 4.1.1.0_R55 to 4.1.2_R55	03/22/06	Closed	✗	✗	✗	✓			
Q01338744	mond.log file is not getting rotated when we run the system more than 10 days	03/22/06	Closed	✗	✗	✗	✓			
Q01218241	Primary port failing to copper backup flips cluster	03/22/06	Closed	✗	✓					
Q01229738	snmpd process keeps restarting	03/22/06	Closed	✗	✓					
Q01208951	NTP server access is not restricted to SFD subnet	03/22/06	Closed	✗	✓					
Q01234723	NSF 4.1.1 Replacing a SFA shows 3 SFA's in /info/det	03/22/06	Closed	✗	✓					
Q01248760	unnecessary/confusing log message related to SFD status in single SFD setup	03/22/06	Closed	✗	✓					
Q01279395	Accelerator is 1 hour ahead of DIRECTORS	03/22/06	Open	✗	✗	✗	✗	✗	✗	✗
Q01326194	L2 Vlan does not work properly	03/22/06	Open		✗	✗	✗	✗	✗	✗
Q01252655	/cfg/sys not available to change NAAP VLAN id on accelerator	03/22/06	Closed	✗	✓					
Q01284910	VPN Site to Site doesn't work	03/22/06	Open		✗	✗	✗	✗	✗	✗



Nortel Switched Firewall (NSF) 4.1.x - Readme

Q01296879	bogus errors on ports 27 and 28 of the accelerator	03/22/06	No Fix Planned	✘	✘	✘				
Q01335693	NSF /var/tmp/local_state file filling up	03/22/06	Closed	✘	✔					
Q01113493	FTP session fails when TCP sequence verification is enabled	03/22/06	Closed	✘	✘	✔				
Q01061470	Sync thro vnic is not supported with VPN	03/22/06	No Fix Planned	✘	✘	✘				
Q01050555	Using copper GBIC on dual ports of 6600	03/22/06	No Fix Planned	✘	✘	✘				
Q01104775	Proxy Arp entries above 1600 does not work	03/22/06	No Fix Planned	✘	✘	✘				
Q01052781	"Softdog driver open failure" message when accelerator boots up	03/22/06	No Fix Planned	✘	✘	✘				
Q01094577	Pimd restarts when ip address on pim enabled interface is changed	03/22/06	No Fix Planned	✘	✘	✘				
Q01089358	Changes made to routemaps do not take effect immediately	03/22/06	No Fix Planned	✘	✘	✘				
Q01142037	Issues related to large configurations	03/22/06	No Fix Planned	✘	✘	✘				
Q01117033	Incorrect UDP Blast behavior	03/22/06	No Fix Planned	✘	✘	✘				
Q01157944	Director runs out of memory during bootup	03/22/06	No Fix Planned	✘						
Q01174716	Dos attack traffic causes high MP CPU utilization on accelerator	03/22/06	Closed	✘	✔					
Q01164785	Error message for pmatch string longer than 40 characters is not clear	03/22/06	Closed	✘	✔					
Q01138787	Limit on number of virtual NICs	03/22/06	No Fix Planned	✘	✘	✘				
Q01159781	Changing subnet on RIP enabled interface requires restarting RIP	03/22/06	No Fix Planned	✘	✘	✘				
Q01158579	Static routes are lost after	03/22/06	No Fix	✘	✘	✘				



	importing configuration		Planned							
Q01149215	No validation check to prevent invalid subnet mask for IP ACL	03/22/06	Closed	☒	☑					
Q01133343	/info/sensors show CPU and board temperature to be negative	03/22/06	No Fix Planned	☒	☒	☒				
Q01150870	PIM: NSF does not support fragmented PIM messages	03/22/06	No Fix Planned	☒	☒	☒				
Q01157101	Validation error about accesslist after upgrade	03/22/06	No Fix Planned	☒	☒	☒				
Q01160601	"asfcapture" does not capture packets simultaneously on accelerator and director	03/22/06	Closed	☒	☑					
Q01157140	Unable to configure accelerator after upgrade from 4.0.x	03/22/06	No Fix Planned	☒	☒	☒				

3 Upgrading to NSF 4.1.x

Upgrade to 4.1.x is supported from 4.0.1 or later versions. 4.1.4 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 4.1.4 is given in the following table

Upgrading to NSF 4.1.4

From	To	Upgrade Steps
4.0.1-x	4.1.4 R60 4.1.4 R61 4.1.4 R62 4.1.4 R65	<ul style="list-style-type: none"> Do a clean install using iso image.
4.0.2.0a	4.1.4 R60 (HFA 05) Or R61(HFA 01) Or R62 Or R65	<ul style="list-style-type: none"> Use <code>"/boot/software/download"</code> to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg). This should be done only in one SFD. Activate 4.1.4 image using <code>"/boot/software/activate"</code>. 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.
4.0.3.0 4.0.4.0	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none"> Use <code>"/boot/software/download"</code> to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg). Activate 4.1.4 image using <code>"/boot/software/activate"</code>. This should be done only in one SFD.



		<ul style="list-style-type: none">• 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.
4.1.1	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none">• Use “/boot/software/download” to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg).• Activate 4.1.4 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.
4.1.2	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none">• Use “/boot/software/download” to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg).• Activate 4.1.4 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.
4.1.2.1	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none">• Use “/boot/software/download” to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg).• Activate 4.1.4 image using “/boot/software/activate”. This should be done only in one SFD.• Please wait until SFDs reboot and all upgrade process is complete.



		<ul style="list-style-type: none"> • Get topology in the Check Point management station and push the policy. • Do the post-upgrade verification.
4.1.3	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none"> • Use “/boot/software/download” to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg). • Activate 4.1.4 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.
4.1.3.4	4.1.4 R60 (HFA 05) Or R61 (HFA01) Or R62 Or R65	<ul style="list-style-type: none"> • Use “/boot/software/download” to download R60 or R61 or R62 or R65 upgrade package (NSF_Director_4.1.4_R60.pkg or NSF_Director_4.1.4_R61.pkg or NSF_Director_4.1.4_R62.pkg or NSF_Director_4.1.4_R65.pkg). • Activate 4.1.4 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 (4.1.4) 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.

- Login as root and run `"os-version"`. You will get the output `"1.5.1.3.tng4.1.4_R60"` or `"1.5.1.3.tng4.1.4_R61"` or `"1.5.1.3.tng4.1.4_R62"` or `"1.5.1.3.tng4.1.4_R65"`
- 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>/l2fw` 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 | 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.

4.3.14 Accelerated Sequence Number Verification

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:
 - Cluster Operation Mode: **Load Sharing** (mandatory)
 - 3rd Party Solution: **OPSEC** (mandatory)
 - Support non-sticky connections: **Yes** (mandatory)
 - Hide Cluster Members' outgoing traffic behind Cluster's IP Address: **No**
 - 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

No bug fixes added

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

No bug fixes added



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 4.1.2.1 Release

- 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 (Q01161524)
- 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 Nortel Switched Firewall, 4.1.3.1 (09/08/2006)

8.1 Supported Hardware Platforms

NSF 4.1.3.1 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)

8.2 Supported Check Point Releases

NSF 4.1.3.1 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

8.3 What's New

There is no new feature added in 4.1.3.1

8.4 Bugs Fixed Since 4.1.3 Release

- IDSLB: Not able to set IDSLB group as 0 (to disable monitoring) on a particular VLAN. (Q01448475)
- IDSLB: IDS load balancing on NSF High Availability setup causes network loop. (Q01435035)



9 Nortel Switched Firewall, 4.1.3.4 (12/11/2006)

9.1 *Supported Hardware Platforms*

NSF 4.1.3.4 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)

9.2 *Supported Check Point Releases*

NSF 4.1.3.4 supports the following Check Point versions:

- Check Point VPN-1 <TM> & Firewall-1 <R> NGX (R62) – Build 120

9.3 *What's New*

There is no new feature added in 4.1.3.4

9.4 *Bugs Fixed Since 4.1.3.1 Release*

No bug fixes added

10 Nortel Switched Firewall, 4.1.4 (04/30/2007)

10.1 *Notes on Newly Supported Features*

The following features are added in this release.

10.1.1 *SecurID*

This is a new feature added for supporting SecurID authentication for SSH login to the NSF firewalls.

From 4.1.4 release onwards, logging in to the NSF CLI via SSH can be authenticated via the SecurID mechanism. In other words, whenever the user tries to login to the NSF CLI via the SSH, first the name username would be prompted. After this, instead of a regular password, a pass code needs to be entered. An ACE Agent, which is running on the NSF, would then send the login credentials to an ACE Server. After the successful authentication from the ACE server, the user would be logged in.



10.1.2 Mechanism for installing Checkpoint HFA's on NSF

A new CLI command, `/boot/software/hfainstall`, is added in release 4.1.4. This command provides an easy method for users to install Check Point HFAs on NSF from the admin CLI.

Executing this command from any SFD automatically installs the HFA on all cluster members.

10.1.3 Checkpoint R65

Release 4.1.4 supports Check Point NGX R65, version VPN-1(TM) & FireWall-1 (R) NGX (R65) – Build 427.

NGX R65 includes expanded intelligent inspection technologies in *VPN-1 Power and incorporates additional complex application support into state of the art stateful-inspection and application intelligence technology.

10.1.4 CLI command to enable/disable TCP sequence verification

If standard copper ports are used as NAAP ports, the SFA will add TCP sequence information to the normal frame, which may cause the frame size to cross 1500 bytes (jumbo frames) if the normal frame size is close to 1500 bytes. This makes the SFA to drop the frame without forwarding to SFD. In order to make the SFA send the jumbo frame to the SFD, TCP Sequence Verification should be disabled. Once disabled, the SFA will not add the TCP sequence information to the frame. In order to disable/enable TCP Sequence verification, CLI support has been added.

"`/maint/diag/tcpseq`" menu will enable and disable the TCP Sequence verification. This CLI menu also provides the warning message to the user to enable/disable the TCP Sequence verification on Check Point Management server. If the TCP Sequence verification option is enabled/disabled on the CLI, it should also be enabled/disabled on the Checkpoint management station. Ideally speaking, the TCP sequence verification option should be the same on the firewall and the checkpoint management station

10.2 Bugs Fixed Since 4.1.3.4 Release

- Sync port down/up whenever accelerator is reconfigured (CR Q01451288)
- Cable unplugged on GBICs doesn't failover (CR Q01460485)
- IAP failure creates 2 MIPs in a cluster (CR Q01535310)
- `cfgd` crashes after installing HFA_04 (both 4.1.3 and 3.5.7 builds)
- (CR Q01441056)
- ASF prefers def gw advertised through ospf over def gw configured statically
- (CR Q01488650)
- Accelerator is getting panic when we give `-ive` value for port statistics from ISD (Q01525481)



- Not able to install ASF image on NE isd with 160 GB HDD (CR Q01530663)
- SIC reset is needed after upgrade from 4.1.2 R60 to 4.1.3 R60 (CR Q01540529)
- CLI command to enable/disable TCP sequence verification (CR Q01587914)
- Firewall leaking nonIP packets when IDSLB is enabled (CR Q01456570)
- ASF6614 4.1.3/R60 - CheckPoint VPN is failing following HA failover (CR Q01469207)
- Websense UFP filtering stops due to lack of ports (CR Q01539020)

11 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 04/30/2007

ISSUES WITH SYNC OVER VNIC:

Although NSF supports "Sync over VNIC" configuration, please note that for better performance it is always recommended to use a dedicated SFD port for Check Point state synchronization.

The Sync may be affected when there is heavy traffic. Under stress it may lead to memory leak and high CPU usage.

Single fiber link failure of IAP does not fail over to copper

CR # Q01520395
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Open

When a single Rx or Tx fiber is disconnected, the fiber link is reported DOWN by both the accelerators, but the copper link does not come UP. When both Rx & Tx fibers are disconnected, then the copper port becomes active.



This is a hardware limitation and switch architecture will not fail-over to the backup copper port when only a single fiber link is down.

Some packets are dropped while a checkpoint policy is pushed to the firewall

CR # Q01540553
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Open

While pushing a policy to the firewall, some packets are getting dropped. The packet drops causes an interruption in established connections/sessions that are going through the firewall. These connections must be re-established after the policy push.

As a work around, it's suggested to configure the policy settings during the maintenance window so that the failure can be minimized. Also, disabling the firewall acceleration 'fwaccel off' on all cluster members seems to solve the issue.

Output displayed by /info/acc and /info/det commands is not consistent

CR # Q01575439
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Open

The outputs of the commands /info/acc and /info/det are not consistent from time to time. The IP address / SFA/MAC relation is NOT the same in outputs of the commands. The issue happens on any type of accelerator model.

The issue is only a display problem and it doesn't have any impact on the actual operation of the firewalls.

Sync port down/up whenever accelerator is reconfigured



CR # Q01451288
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

Whenever an accelerator was reconfigured, the sync interface link goes down and comes up again. In 4.1.4, the configuration daemon has been modified which checks if there's any sync configuration changes. Only then, the sync device is brought down and made up again.

Cable unplugged on GBICs doesn't failover

CR # Q01460485
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.2
Current Status: Closed

When `/info/link` command was run from the backup accelerator, it shows the status of the primary's ports only. So when a port goes down, or is disconnected from the backup - `/info/link` does not show this link state change - even when directly connected to the backup. Also, no SNMP trap is generated for this event (backup accel link state change).

This issue was happening when the autoneg is set to 'off' on dual ports fiber link.

The underlying switch architecture doesn't support autoneg off settings on the dual ports fiber link. A validation function is added to prevent the user from disabling the autoneg and the problem is no longer seen.

IAP failure creates 2 MIPs in a cluster

CR # Q01535310
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Closed

In a specific cluster topology of 3 or more directors, two ore more directors connected to the backup accelerator, the IAP link failure was causing the cluster to be split into two. Each cluster then elected a MIP and this causes OSPF daemon to run on both the directors.

In 4.1.4, a validation has been added to prevent the directors to become MIP if the accelerator connected to it is a backup. Hence only the Director that's connected to the master accelerator becomes the MIP and the



other directors connected to the backup accelerators continue to be non-MIP.

cfgd crashes after installing HFA_04 (both 4.1.3 and 3.5.7 builds)

CR # Q01441056
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.3
Current Status: Closed

After installing the HFA_04 and rebooting the Firewall, the cfg daemon was not running. Health check daemon tries to restart the cfg daemon but cfgd keeps crashing.

The issue was happening due to the less disk space allocated to the /config partition where all Check Point related configuration is stored.

The issue is fixed in 4.1.4 in the following method:

- Changed the /config partition size to 2GB, which is sufficient for the Check Point configuration in 4.1.4
- Check Point's "var-opt" directory moved from /config partition to /logs after confirming enough disk space on /logs
- The script will check whether we have sufficient disk space on var-opt directory before installing any HFAs

ASF prefers default gateway advertised through ospf over default gateway configured statically

CR # Q01488650
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

In a typical routing configuration where a default gateway is configured on the NSF CLI and also another default gateway learned through an external OSPF router, preference was given to the default route learned through OSPF.

Modified the routing code in 4.1.4 after which the statically configured gateway is given precedence over OSPF default route.

Entering negative port number for checking the port statistics causes the accelerator panic



CR # Q01525481
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

From the Firewall console, running the “/maint/debug/ac1/prtstat/stat -1” command caused the accelerator panic.

A validation check for the port number input has been added in 4.1.4 before trying to read the port statistics.

Not able to install iso image on NSF 6000 NE models with 160 GB HDD

CR # Q01530663
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

Installation fails when installing NSF600 iso image on NE models with 160 GB HDD. The latest NSF6000 NE models are shipped with 160GB HDD compared to 80GB HDD earlier. During installation process, necessary partitions are created and formatted. But all the previous install scripts are tuned to support 80GB HDD only. But with the increase in the HDD size, the installation times out while formatting the newly created partitions.

To address this issue, during the install process, the idle check daemon which handles the session time out is stopped. Also, since the installation can take longer time, a progress bar is added to the install script to indicate the installation status.

If you're running pre-4.1.4 release and would like to upgrade to 4.1.4, then this issue is not applicable. The happened only when the users try to re-install the software image on the box with 160GB HDD.

To verify whether your hardware has 160GB HDD and needs a re-install of image, please refer to the NSF6000 series firewall Release notes version 4.1.4.

Fore more information, please refer to the NSF6000 series firewalls customer support bulletin ID: 2007007922, Rev 1.



SIC reset is needed after upgrade from 4.1.2 R60 to 4.1.3 R60

CR # Q01540529
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Closed. No fix planned.

When upgrade from 4.1.2 R60 to 4.1.x R60, its required to re-establish the trust with the Check Point SmartCenter server (or in other terms, reset SIC operation needs to be performed).

This is a design limitation in the way Check Point daemons are installed on the Firewall and it always require a reset SIC after upgrade.

A feature limitation document on this issue is written. Please contact Nortel technical support for a copy of this document.

No special character support for login password

CR # Q01460968
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Current Status: Open

Configuring special characters like "\$" for login password is not supported. The password settings are only restricted to support alpha-numeric characters only.

CLI command to enable/disable TCP sequence verification

CR # Q01587914
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

With TCP Sequence verification configuration enabled on the SFD, once the session is established on the Firewall and the information is sent to the accelerator, the sequence verification would be handled by the accelerator device directly.

However, enabling the TCP sequence verification adds an extra 24 bytes of header information to the frame. This exceeds the maximum frame size supported by the underlying switch ports. Hence the traffic coming on non-jumbo capable ports (ports 1-8 on 6600 SFA and ports 1-24 on 6400 SFA) would be dropped.



A new CLI command “/maint/debug/tcpseq/” is added which can enable/disable TCP sequence verification.

Please note that enabling/disabling TCP sequence verification from the CLI requires a similar configuration on the Check Point SmartDefense settings.

Backup accelerator processing nonIP multicast packets when IDSLB is enabled

CR # Q01456570
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

When IDSLB was enabled and non-IP multicast packets are received by the Firewall, the backup accelerator was treating the packets as unknown and flooding the packets causing a network loop. Examples for non-IP multicast traffic are Cisco's CDP & HSRP.

A validation has been added in the switch code which doesn't process unknown traffic when its acting as 'backup'.

ASF6614 4.1.3/R60 - CheckPoint VPN is failing following HA failover

CR # Q01469207
Last Updated: 03/20/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

In a typical cluster topology consisting of a single SFA and multiple SFD's, when the fail-over happens, the sessions are not re-bound properly to the available SFD. Though the CR mentions the VPN traffic, this CR is applicable for regular firewall traffic as well.

This issue was happening as the SFA will re-bound the sessions only when the accelerator status is master alone.

A fix is added in the accelerator code which handles the session re-bounding in standalone case as well.



Websense UFP filtering stops due to lack of ports

CR # Q01539020
Last Updated: 04/30/2007
Affected Releases: 4.1.x
Fixed in Release: 4.1.4
Current Status: Closed

When a new cluster is created, the local port range used for maintaining session information on the Firewall members is calculated based on the assumption that the max. no. of members in a cluster can be 255.

Hence the local port range available for each Firewall member is limited. With Websense, multiple connections are opened and the local port range can exhaust very quickly.

In 4.1.4, the local port range is divided among the cluster members based on the total count of cluster members currently configured.

Issues Updated on 12/14/2006

NSF 4.1.2.0_R60 locks up after several hours because of memory leak

CR # Q01415915
Last Updated: 12/11/2006
Affected Releases: 4.1.x
Current Status: Open

SFD locks up requiring a reboot to recover because of memory leak. After booting the director, it will lock up after a few hours. This happens on 4.1.2.0_R60. This is a CP issue. This occurs when the sync is enabled in a standalone setup. The case as mentioned can happen when there is no second director. We have opened a case with CP.

Large Packets are getting dropped incorrectly

CR # Q01496816
Last Updated: 03/20/2007
Affected Releases: 4.1.x
Current Status: Closed. No fix planned

In 4.1.x, we have a new feature called TCP Sequence Verification, which appends additional state information to TCP packets. Since the 6600 hardware supports larger size packets only on uplink ports 9 to



12, as per the hardware architecture the best practice is to connect the SFD to SFA in ports 9-12. To support large size packets on copper ports (1-8), the TCP Sequence Verification should be disabled. You may also refer to CR Q01587914 for more information on this.

Under stress condition, After rebooting the ISD's, sync is in "error state"

CR # Q01509522
Last Updated: 12/11/2006
Affected Releases: 4.1.x
Current Status: Open

Under stress condition, after rebooting the ISD's, sync is in "error state". After pushing the policy from CP, sync state is changing into working state. Mainly the problem is occurring while rebooting the MIP holding ISDs. This problem happens for the 5016-NE1 with 6600 switch, 5010- dell ISD with 5600 switch hardwares under the stress condition.

Issues Updated on 09/08/2006

IDSLB: Not able to set IDSLB group as 0 (to disable monitoring) on a particular VLAN

CR # Q01448475
Last Updated: 09/07/2006
Affected Releases: 4.1.x
Current Status: Closed

The IDSLB configuration on the VLAN for which the IDSGroup is configured as '0' or 'none' is not getting pushed to switch as ISD treats that Monitoring is not enabled on particular VLAN, but this has to be informed to switch as well. This is fixed now.

IDSLB: IDS load balancing on NSF High Availability setup causes network loop

CR # Q01435035
Last Updated: 09/07/2006
Affected Releases: 4.1.x
Current Status: Closed

The Backup switch processed the ARP packets coming from Master switch received via IAP and sent out, causing a loop and ARP flooding. Now, switch VRRP state is checked before processing ARP packet and hence network loop is avoided from backup switch.



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, cfdg 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 be 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



CR# Q01161524
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



Nortel Switched Firewall (NSF) 4.1.x - Readme

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 unnecessary alarms caused due to CPU usage exceeding the limit.

ASF continuously deleting and adding default route sent by Cisco

CR # Q01445437
Last Updated: 03/20/2007
Affected Releases: 4.1.x
Current Status: Closed

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%.. This is fixed now

oper user is able to change the password of admin user

CR # Q01427432
Last Updated: 03/20/2007
Affected Releases: 4.1.x
Current Status: Closed

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. This is fixed now and Oper user can be able to change its own password and admin password cannot be changed by Oper user



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

CR # Q01435023
Last Updated: 03/20/2007
Affected Releases: 4.1.x
Current Status: Closed

After mounting a usb (using usbmount command from root), the hard disk usage is shown very high 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. This is fixed now

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: 03/20/2007

Affected Releases: 4.1.x

Current Status: Closed

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.

Radius user accounts on NSF



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 (time zone: North America), the SFD time changes to 3AM (PST) after one minute but the accelerator still shows 2AMPST.

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_encrypted_packets`" in the "Field Name" column
8. Change the "Value" to false.
9. Hit "`F3`" and it should find the next instance of "`reroute_encrypted_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_encrypted_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 connectors for ports 3, 4, 5 and 6. You can use either copper or 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 if 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: No Fix Planned

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



Nortel Switched Firewall (NSF) 4.1.x - Readme

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 bootstrap 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 have 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



Nortel Switched Firewall (NSF) 4.1.x - Readme

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 up-to-date". 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.