RELEASE NOTES:

Alteon Switched Firewall™

Release 2.0.2

Part Number: 213028-D, September 2002

NØRTEL
NETWORKS™

Alteon Web Systems
Intelligent Webworking™

Release Notes

These release notes provide the latest information regarding your Alteon Switched Firewall, version 2.0.2 and higher. This supplement modifies information found in the complete documentation. Please keep this information with your Nortel Networks product manuals.

Documentation on CD-ROM

The *Alteon Switched Firewall Installation and User's Guide* (part number 212535-B) is supplied on a CD-ROM included with this product. The manual is a PDF file which can be read and printed using the free Acrobat Reader software available from Adobe Systems Incorporated (http://www.adobe.com).

To access the manual, open the "212535b.pdf" file on the *Alteon Switched Firewall Documentation* CD-ROM. When the manual opens, you can navigate through the book by selecting the pre-defined bookmarks on the right side of the window, and by scrolling through the pages.

NOTE – To obtain a manual in hardcopy format, contact your Nortel Networks sales representative and order part number 212535.

Late-Breaking News

Please check your software and documentation CD-ROMs for any readme.txt file. The readme file may contain important information regarding the product. View the file in any standard text editor.

How to Get Help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel Networks service program, contact one of the following Nortel Networks Technical Solutions Centers:

Technical Solutions Center	Telephone
Europe, Middle East, and Africa	(33) (4) 92-966-968
North America	(800) 4NORTEL or (800) 466-7835
Asia Pacific	(61) (2) 9927-8800
China	(800) 810-5000

Additional information about the Nortel Networks Technical Solutions Centers is available at the following URL:

http://www.nortelnetworks.com/help/contact/global

An Express Routing Code (ERC) is available for many Nortel Networks products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, refer to the following URL:

http://www.nortelnetworks.com/help/contact/erc/index.html

Alteon*Web*Systems

Changes Since Release 2.0

For instruction on upgrading your ASF to software release 2.0.2, see Chapter 9, "Upgrading the Software," in your *ASF Installation and User's Guide.*

Supports Check Point Hotfix 1 for Feature Pack-2

ASF software release 2.0.2 fully supports Check Point FireWall-1 NG Hotfix 1 for Feature Pack-2. Hotfix 1 includes the following enhancements:

■ Open SSL vulnerabilities have been closed

■ Better handles port ranges when using the NAT Hide feature

■ More accurate time-out duration for inactive SSH and Telnet sessions

To activate Hotfix 1 on the ASF with software release 2.0.2, use the following command:

```
>> # /cfg/fw/software/fp2hf
```

See the Check Point Web site (www.checkpoint.com) for more information regarding Hotfix 1 for Feature Pack-2.

Parameter Increases

■ VLANs: increased to 252 (from 242)

Changes Since Release 1.0

Product Name Change

The ASF components have been renamed for integration into Nortel Networks' larger vision for network security products. Although the manual uses the new product names, the information still applies to the Alteon "SFA" and "SFD" products you may currently use.

The following table clarifies how the documentation describes your older ASF products:

Table 1 ASF Product Names

Component	Old Name	New Name
Firewall Accelerators	185-SFA	ASF 5700
	184-SFA	ASF 5600
	AD4-SFA	ASF 5400
	AD3-SFA	ASF 5300
Firewall Directors	SFD-310	ASF 5010
	SFD-308	ASF 5008

Parameter Increases

■ Static routes: increased to 128 (from 20) on the ASF 5008 and to 512 on the ASF 5010

■ Proxy ARP entries: increased to 2,000 (from 256)

Gateway Load Balancing

The Alteon Switched Firewall (ASF) can be configured to perform strict failover or round-robin load balancing among up to four default gateways. Health checks are performed on the gateways so that failed gateways are removed from the distribution. If multiple default gateways are configured and enabled, the following metrics can be used to determine which default gateway is selected:

■ `strict`: The gateway number determines its level of preference. Gateway #1 acts as the preferred default IP gateway until it fails or is disabled, at which point the next in line will take over as the default IP gateway.

■ `roundrobin`: This provides basic gateway load balancing. The ASF sends each new gateway request to the next healthy, enabled gateway in line. All gateway requests to the same destination IP address are resolved to the same gateway.

See the `metric` option on the Advanced Network Menu (`/cfg/net/adv`) described on page 164 of your ASF manual.

OSPF Support

The ASF now supports the Open Shortest Path First (OSPF) routing protocol. The ASF implementation of OSPF provides the following features:

■ Can be used as an OSPF Internal Router (IR) or Area Border Router (ABR)
■ Configurable time interval between successive calculations of the shortest path tree
■ Stub area metrics used to potentially influence routing decisions
■ Default routes and weight metrics
■ Route summarization
■ Virtual links
■ Authentication among neighboring routing devices: simple (type 1 plain text) passwords, or MD5 (encrypted) data and passwords
■ Host routes

For details and examples, see "Open Shortest Path First" on page 303 of your ASF manual.

Jumbo Frame Support

Jumbo Frame support is available on a per-VLAN basis. When this feature is enabled, the ASF can handle frames that are far larger (up to 9018 octets) than the maximum normal Ethernet frame size, thus reducing the overhead for host frame processing.

See the `jumbo` option on the VLAN Menu (`/cfg/net/vlan`) described on page 157 of your ASF manual.

Port Trunking

Physical ports can be grouped together to provide a single super-bandwidth connection between the ASF and other trunk-capable devices. Up to four trunk groups can be configured, each with up to four physical links.

For details and examples, see "Port Trunking" on page 152 of your ASF manual.

Enhanced Session Synchronization

Firewall Directors can be synchronized to provide stateful failover of sessions. With synchronization, if a Firewall Director fails, its open sessions will be transparently reassigned to a healthy Firewall Director.

Synchronization of Firewall Directors for stateful failover can now be accomplished in one of two ways:

- In the new method, synchronization uses the NAAP connection that already exists between the Firewall Director and Firewall Accelerator. This requires no additional cabling, but can impact ASF performance under heavy traffic.

- Another method isolates synchronization traffic using dedicated ports (10/100 Mbps port 2) on the Firewall Directors. Using the dedicated ports requires additional cabling, but can provide better performance under heavy traffic. This method has been has been simplified so that it is no longer necessary to define the synchronization Ethernet device number.

For details and examples, see "Synchronizing Firewall Directors" on page 288 of your ASF manual.

Feature Pack and Hot-fix Installer

It is no longer necessary to perform a full cluster upgrade when Check Point Feature Packs or Hot-fixes become available. Supported upgrades to the ASF's built-in Check Point software can be obtained from Nortel Networks (or authorized distributor) and installed separately.

Automatic Firewall Accelerator Upgrades

It is no longer necessary to manually upgrade the Firewall Accelerator software after installing a Firewall Director software upgrade. Using the SSI, any software upgrade is now automatically extended to all active cluster components.