



# Alteon Switched Firewall 4.0.2 Release Notes

---

part number: 217017-A, November 2004

4655 Great America Parkway  
Santa Clara, CA 95054  
Phone 1-800-4Nortel  
<http://www.nortelnetworks.com>

Copyright © 2004 Nortel Networks, Inc., 4655 Great America Parkway, Santa Clara, California, 95054, USA. All rights reserved. Part Number: 217017-A.

This document is protected by copyright and distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this document may be reproduced in any form by any means without prior written authorization of Nortel Networks, Inc. Documentation is provided “as is” without warranty of any kind, either express or implied, including any kind of implied or express warranty of non-infringement or the implied warranties of merchantability or fitness for a particular purpose.

U.S. Government End Users: This document is provided with a “commercial item” as defined by FAR 2.101 (Oct. 1995) and contains “commercial technical data” and “commercial software documentation” as those terms are used in FAR 12.211-12.212 (Oct. 1995). Government End Users are authorized to use this documentation only in accordance with those rights and restrictions set forth herein, consistent with FAR 12.211-12.212 (Oct. 1995), DFARS 227.7202 (JUN 1995) and DFARS 252.227-7015 (Nov. 1995).

Nortel Networks, Inc. reserves the right to change any products described herein at any time, and without notice. Nortel Networks, Inc. assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by Nortel Networks, Inc. The use and purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of Nortel Networks, Inc.

Alteon, Alteon WebSystems, Alteon Switched Firewall, ASF 6614, ASF 6414, Firewall OS, Firewall Director, ASF 5014, Accelerator OS, Firewall Accelerator, ASF 6600, and ASF 6400 are trademarks of Nortel Networks, Inc. in the United States and certain other countries.

Check Point, SecureXL, and SmartCenter, are trademarks of Check Point Software Technologies Ltd. FireWall-1 and VPN-1 are registered trademarks of Check Point Software Technologies Ltd. Any other trademarks appearing in this manual are owned by their respective companies.

Originated in the USA.

## Export

This product, software and related technology is subject to U.S. export control and may be subject to export or import regulations in other countries. Purchaser must strictly comply with all such laws and regulations. A license to export or reexport may be required by the U.S. Department of Commerce.

## Licensing

This product includes software developed by Check Point Software Technologies (<http://www.checkpoint.com>). This product also contains software developed by other parties.

For more information, see [Appendix D, “Software Licenses,”](#) in the ASF 4.0.2 User’s Guide and Command Reference.

## Common Criteria Certified Software

For more details, see [Appendix E, “Common Criteria Certified Software”](#) in the ASF 4.0.2 User’s Guide and Command Reference.

## Regulatory Compliance

### International regulatory statements of conformity

This is to certify that the Nortel Networks 8000 Series chassis and components installed within the chassis were evaluated to the international regulatory standards for electromagnetic compliance (EMC) and safety and were found to have met the requirements for the following international standards:

- EMC - Electromagnetic Emissions – CISPR 22, Class A
- EMC - Electromagnetic Immunity – CISPR 24
- Electrical Safety – IEC 60950, with CB member national deviations

Further, the equipment has been certified as compliant with the national standards as detailed below.

### National electromagnetic compliance (EMC) statements of compliance

#### FCC statement (USA only)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to take whatever measures may be necessary to correct the interference at their own expense.

#### ICES statement (Canada only)

##### Canadian Department of Communications Radio Interference Regulations

This digital apparatus does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

##### Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

#### CE marking statement (Europe only)

##### EN 55 022 statements

This is to certify that the Nortel Networks equipment are shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 022 Class A (CISPR 22).

**Warning:** This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take appropriate measures.

**Achtung:** Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten, in welchen Fällen der Benutzer für entsprechende Gegenmaßnahmen verantwortlich ist.

**Attention:** Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.

### **EN 55 024 statement**

This is to certify that the Nortel Networks equipment is shielded against the susceptibility to radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 024 (CISPR 24).

### **EC Declaration of Conformity**

This product conforms to the provisions of the R&TTE Directive 1999/5/EC.

### **VCCI statement (Japan/Nippon only)**

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

### **BSMI statement (Taiwan only)**

This is a Class A product based on the standard of the Bureau of Standards, Metrology and Inspection (BSMI) CNS 13438, Class A.

#### **警告使用者：**

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

### **MIC notice (Republic of Korea only)**

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application. Reference Regulatory label on the base of the equipment for specific Korean approval information.

## National Safety Statements of Compliance

### CE marking statement (Europe only)

#### EN 60 950 statement

This is to certify that the Nortel Networks equipment are in compliance with the requirements of EN 60 950 in accordance with the Low Voltage Directive. Additional national differences for all European Union countries have been evaluated for compliance. Some components installed within the 8000 Series chassis may use a nickel-metal hydride (NiMH) and/or lithium-ion battery. The NiMH and lithium-ion batteries are long-life batteries, and it is very possible that you will never need to replace them. However, should you need to replace them, refer to the individual component manual for directions on replacement and disposal of the battery.

#### Lithium Battery Cautions

**Caution**—This product contains a lithium battery. Batteries are not customer replaceable parts. They may explode if mishandled. Do not dispose of the battery in fire. Do not disassemble or recharge.

**(Norge) ADVARSEL**—Litiumbatteri - Eksplosjonsfare. Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten. Brukt batteri returneres apparatleverandøren.

**(Sverige) VARNING**—Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

**(Danmark) ADVARSEL!** Litiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

**(Suomi) VAROITUS**—Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

#### Safety Information

**Caution**—Nortel Networks products are designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electric shock, do not plug Nortel Networks products into any other type of power system. Contact your facilities manager or a qualified electrician if you are not sure what type of power is supplied to your building.

**Caution**—Not all power cords have the same ratings. Household extension cords do not have overload protection and are not meant for use with computer systems. Do not use household extension cords with your Nortel Networks product.

**Caution**—Your Nortel Networks product is shipped with a grounding type (three-wire) power cord. To reduce the risk of electric shock, always plug the cord into a grounded power outlet.

## **NOM statement (Mexico only)**

The following information is provided on the devices described in this document in compliance with the safety requirements of the Norma Oficial Mexicana (NOM):

Exporter: Nortel Networks, Inc.  
4655 Great America Parkway  
Santa Clara CA 95054 USA

Importer: Nortel Networks de México, S.A. de C.V.  
Avenida Insurgentes Sur #1605  
Piso 30, Oficina  
Col. San Jose Insurgentes  
Deleg-Benito Juarez  
México D.F. 03900

Tel: 52 5 480 2100

Fax: 52 5 480 2199

Input: 100 to 240 VAC, 50 to 60 Hz, 9 A max. per power supply  
single supply, or + one redundant supply configurations

## **Información NOM (unicamente para México)**

La información siguiente se proporciona en el dispositivo o en los dispositivos descritos en este documento, en cumplimiento con los requisitos de la Norma Oficial Mexicana (NOM):

Exportador: Nortel Networks, Inc.  
4655 Great America Parkway  
Santa Clara, CA 95054 USA

Importador: Nortel Networks de México, S.A. de C.V.  
Avenida Insurgentes Sur #1605  
Piso 30, Oficina  
Col. San Jose Insurgentes  
Deleg-Benito Juarez  
México D.F. 03900

Tel: 52 5 480 2100

Fax: 52 5 480 2199

Embarcar a: 100 to 240 V CA, 50 to 60 Hz, 9 A max. por fuente de poder  
una fuente o una + configuraciones de una fuente redundante



# Release Notes

---

These release notes provide the latest information regarding your Alteon Switched Firewall, version 4.0.2 and higher.

## Documentation

---

This document is a supplement to the complete documentation suite. Please keep this document with your product manuals. For additional technical questions regarding the product architecture and features, refer to the product documentation.

- *Alteon Switched Firewall 4.0.2 User's Guide and Command Reference*  
(part number 217014-A)
- *Alteon Switched Firewall 4.0.2 Hardware Installation Guide*  
(part number 217016-A)
- *Alteon Switched Firewall 4.0.2 Browser-Based Interface Quick Access Guide*  
(part number 217015-A)

These documents are available on the Web. The manuals are PDF files which can be read and printed using the free Acrobat Reader software available from Adobe Systems Incorporated (<http://www.adobe.com>). To obtain a manual in hardcopy format, contact your Nortel Networks sales representative and order the part numbers.

To access a manual on the product CD, open the “welcome.pdf” file on the *Alteon Switched Firewall Documentation* CD-ROM and select a title. When the manual opens, you can navigate through it by selecting the bookmarks on the left side of the window or by scrolling through the pages.

You can also download the manuals from the Nortel Networks Technical Support Web site. To access the site, follow the procedure in “[Late-Breaking News and Support](#)” on page 8 but select **Documentation** instead of **Software**. The Documentation page will open sorted by date. Click on a title to open it in your browser.

To reduce clutter on the Documentation page, click on the **RI**s header. This will sort the page by Release and omit any document that doesn't have a Release version.

## Late-Breaking News and Support

---

Before you put your system into commission, please check the Nortel Networks Technical Support Web site for the latest software and documentation on the Alteon Firewall. Be sure to review the Readme file on the Software Detail Information page, which has the list of open Change Requests (CRs) and closed CRs for this release. To access the Web site:

- Point your browser to: <http://www.nortelnetworks.com/cs>. The Technical Support page will open.
- Select the “Browse product support” tab.
  - ① Select from **Product Family (Alteon / Alteon Switched Firewall System)**
  - ② ...choose a product... (**ASF Accelerated Firewall**)
  - ③ ...and get the content. (**Software**)Then click on **Go**.
- Click on a software title and enter the registered user name and password previously assigned to you by Nortel Networks Technical Support. This will open the Software Detail Information page.

If you are not a registered user, please click on the **Register** link on the left-hand column of the Nortel Networks Technical Support Web site, and complete the registration process.

---

**NOTE** – The Nortel Networks Technical Support Web site also provides access to customer support for accounts under warranty or accounts that are covered by a maintenance contract.

---

- You must authenticate at the Check Point Web site to obtain the Alteon Firewall software. Instructions are provided on the Software Detail Information page to help you access and navigate the Check Point Web site.

For Check Point Release Notes, go to [http://www.checkpoint.com/techsupport/installation/ng/release\\_notes.html](http://www.checkpoint.com/techsupport/installation/ng/release_notes.html)

For Check Point User Documentation, go to <http://www.checkpoint.com/support/technical/documents/index.html>
- A Readme file for Release 4.0.2 is kept on the Software Detail Information page. Just click on the **ReadMe** link to download the file to your work station.



# Release 4.0.2 Changes

---

## Software Support

Alteon Switched Firewall version 4.0.2 supports Check Point™ FireWall-1® NG with the following software:

- Application Intelligence R55 and Hotfix Accumulator 08 (HFA\_08)
- Application Intelligence R54 and Hotfix Accumulator 412 (HFA\_412)

## Hardware Support

The Alteon Switched Firewall software version 4.0.2 has the following features:

- Supports hardware bundles ASF 6614 and 6414
  - ASF 6614 consists of the Firewall Accelerator 6600 and the Firewall Director 5014.
  - ASF 6414 consists of the Firewall Accelerator 6400 and the Firewall Director 5014.

## Supporting GRE Tunnel

ASF 4.0.2 release supports GRE tunnel. One of the Firewall Directors in the ASF cluster can terminate the GRE tunnel. Packets originating from the Firewall Director (for example, OSPF packets) and external packets from other networks can be sent through the GRE tunnel. Since GRE tunnels terminate on the Firewall Director, all the packets that are sent through the tunnel are forwarded to the Firewall Director. Therefore, it is recommended not to send large amount of data through the GRE tunnel.

## Identifying Firewall Directors

A new command has been added to the CLI that allows you to give a user friendly name to each Firewall Director. The command is

```
/cfg/sys/clu/host <n>/<name>
```

where <n> is the host number and <name> is the host name. When you login as “admin”, the name of that director is displayed as part of the banner. This allows you to easily identify the Firewall Director.

## Upgrading Check Point Software Automatically

A simplified 1-step upgrade procedure is provided in ASF 4.0.2 unlike in earlier ASF releases where upgrading was a two-step process that required you to upgrade Nortel software and Check Point software separately.

The pkg file provided with ASF 4.0.2 version includes the upgrade packages for both Nortel and Check Point software. The new upgrade procedure automatically updates the Check Point software to the same version as a clean install from the CD. It is no longer required to run `/cfg/fw/software/*` or install RPMs using `/boot/software/patch/install` for upgrading Check Point software. Please refer to the Readme File for a detailed upgrade procedure.

## Upgrading from CD-ROM

A new command in the CLI (`/boot/software/cdrom`) allows the user to get the upgrade pkg file from the CD-ROM instead of using the FTP command. This command however, is available only after you upgrade to ASF 4.0.2 software.

Refer to the Readme file for additional prerequisites prior to upgrading the software.

The ASF installation CD containing the pkg file can be used to import the file. You can also burn your own CD containing the pkg file. The system searches the CD-ROM for \*.pkg. If only one file is found, it is imported automatically. If multiple files are found, the list of files is displayed and you are prompted to enter the full path. If no files are found, you are prompted to enter the full path. After the operation is completed, `/boot/software/cur` displays the version that was imported with the status `unpacked`. You may activate the new version as described in the chapter “Upgrading the Software,” in the ASF 4.0.2 *User’s Guide and Command Reference*.

---

**NOTE** – Note that the upgrade process requires the file extension to be .pkg. The CD-ROM is automatically ejected at the end of the operation. Please refer to Readme file for a detailed steps for the upgrade procedure.

---

## Configuring AIM Connection Table Size

A new command in the CLI (`/cfg/fw/sxl/cons`) is provided to override the default maximum value of the AIM connection table size. The minimum allowed table size is 40,000. The maximum allowed number depends on the Firewall Accelerator type. It is not recommended to change the maximum size of the AIM table. The default value is sufficient for most networks. However, if you are changing the connection table size, use the CLI command `/maint/debug/aim/acp/tbl` on each Firewall Director to make sure that the size of all the tables are below their maximum limit.

## Using the BBI to Download MIB Files

For your convenience, the MIB files are available on the Firewall Director. Using the Browser based Interface (BBI), you can download the 3 MIB files: Base OID, `alteon-isd`, and `alteon-asf`. To access the MIB files, click Administration > SNMP > MIBs on the Main Page Menu of the BBI.

