



Alteon Firewall 5100 Series 2.2.7.7

Release Notes for VoIP Support

part number: 213456-P, January 2005

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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.

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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.

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Règlement sur le brouillage radioélectrique du ministère des Communications

l'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.

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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.

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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.

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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

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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 the Alteon Firewall 5100 Series (models ASF 5105, ASF 5106 ASF 5109, ASF 5112, ASF 5114, and ASF 5124) for Release 2.2.7.7. This supplement modifies information found in the complete documentation. Please keep this information with your Nortel Networks product manuals.

The following topics are addressed in these Release Notes:

- [“Late-Breaking News and Support” on page 8](#)
- [“Documentation” on page 9](#)
- [“Check Point Feature Pack Support” on page 10](#)
- [“Configuring Voice over IP Support” on page 11](#)
- [“Installing the Software” on page 17](#)
- [“Closed CRs” on page 19](#)

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 Standalone Firewall (5100 series)**)
 - 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

For Check Point User Documentation, go to <http://www.checkpoint.com/support/technical/documents/index.html>
- A Readme file for Release 2.2.7.7 is kept on the Software Detail Information page. Just click on the **ReadMe** link to download the file to your work station.

Documentation

The following manuals are supplied on a CD-ROM that ships with new products:

- *Alteon Firewall 5100 Series 2.2.5 User's Guide and Command Reference* (p/n. 213455-J)
- *Alteon Firewall 5100 Series User's Hardware Installation Guide* (p/n. 216382-B)
- *Alteon Firewall 5100 Series BBI Quick Guide* (p/n 216383-B)

The manuals are PDF files that can be read and printed using the free Acrobat Reader software available from Adobe Systems Incorporated (<http://www.adobe.com>).

To access a manual, open the “welcome.pdf” file on the *Alteon Firewall 5100 Series 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 **RIs** header. This will sort the page by Release and omit any document that doesn't have a Release version.

Check Point Product Name Changes

For FP-3 and later releases, Check Point changed the names of some products that are referenced in the Alteon Firewall 5100 system. These names have been changed, where applicable, in the Alteon Firewall 5100 Series user documentation, the Command Line Interface (CLI) and the Browser-Based Interface (BBI). A table of name changes is provided here:

Table 1 Check Point Product Name Changes for FP-3 and later releases

Current Name	Name Prior to NG FP-3
SmartDashboard	Policy Editor
SmartView Tracker	Log Manager or Log Viewer
SmartView Status	Status Manager or System Status
SmartView Monitor	Real-Time Monitor or Traffic Monitor
Smart Center Server	Management Server
SMART Clients	Management Clients
SmartUpdate (see note below)	SecureUpdate

NOTE – SmartUpdate/SecureUpdate is not supported by the Alteon Firewall for installing patches. You must use the Alteon Firewall software releases.

Check Point Feature Pack Support

Release 2.2.7.7 is a maintenance release that supports FireWall-1 NG Application Intelligence:

Table 2 Check Point version and corresponding ASF software images

NG Version	Hot Fix Accumulator	ASF Software Images
R54	H323-NAT fix (no HFA yet)	ASF5100_2.2.7.7_VOIPR54.img/.iso

NOTE – The last manufacturing release of Alteon Firewall is 2.2.5.0. Release 2.2.5.0 with support for R55 and HFA-03 is pre-installed on units shipped to the field.

Supported Management Server

Install a separate management server on Windows 2000 with Check Point R54 software. Install the Voice over IP patches on this server. For more information on installing the patches, contact Nortel Technical Support at <http://www.nortelnetworks.com/cs>.

Figure 2 SmartDashboard with Network Objects

The screenshot shows the SmartDashboard Firewall configuration window. The main area displays a table of rules with the following data:

NO.	SOURCE	DESTINATION	SERVICE	ACTION	TRACK	INSTALL ON
1	kev_cluster	kev_cluster	* Any	accept	- None	* Policy Targets
2	kev_cluster	vrrp_ip	* Any	accept	- None	* Policy Targets
3	VoIP_domain_priv VoIP_domain_pub	VoIP_domain_pub VoIP_domain_priv	H323	accept	Log	* Policy Targets
4	* Any	* Any	* Any	drop	Log	* Policy Targets

Below the rule table is a list of network objects with the following columns: Name, IP, Comment, Behind NAT, Version, and Net Mask.

Name	IP	Comment	Behind NAT	Version	Net Mask
kev_cluster	134.177.227.245	This is the 5100 Cluster Object	No	NG with ...	
SPRADHAN-LT	172.25.3.38	Check Point Management Server (with 4 VoIP Pa...	No	NG with ...	
CSE_priv	10.10.10.101	Signalling Server on Private Side (should be NA...	Yes	N/A	
CSE_pub	47.11.197.40	Signalling Server on Public Side	No	N/A	
vrrp_ip	224.0.0.18	VRRRP IP address	No	N/A	
CSE_priv_phone	10.10.10.0	Private Phone's Network	Yes	N/A	255.255.255.0
CSE_pub_phone	134.177.227.0	Public Phone's Network	No	N/A	255.255.255.0
CSE_pub_phoneAhad	47.11.158.0	Ahad's Public Phone Network	No	N/A	255.255.255.0
Net_172.25.3.0	172.25.3.0	SSI (Management) subnet	No	N/A	255.255.255.0
mip_plus_vrrp		To avoid Antispoofing message for VRRP	No	N/A	
priv_phone		Private Phone Network Group (if you have > 1 ...	No	N/A	
pub_phone		Public Phone Network Group (if you have > 1 n...	No	N/A	
AuxiliaryNet			No	N/A	
DMZNet			No	N/A	
InternalNet			No	N/A	
LocalMachine		Check Point Local Machine	No	N/A	
VoIP_domain_priv		Private Domain (Private Phone Group + Private...	No	N/A	
VoIP_domain_pub		Public Domain (Public Phone Group + Public Sig...	No	N/A	

If you have two gatekeepers, a single rule is sufficient as shown in Figure 2. However, if you have a single gatekeeper and you need to support RAS messages, then allow an additional Check Point rule for service object **H323_RAS**, **H323_RAS_any**.

For the example shown in Figure 1, you must add a rule to allow H323_RAS messages from the 47.11.197.0 to 10.10.10.0 network if CSE_1 registers to the CSE_2 gatekeeper on the private side (see Figure 3).

Figure 3 SmartDashboard Supporting RAS Messages

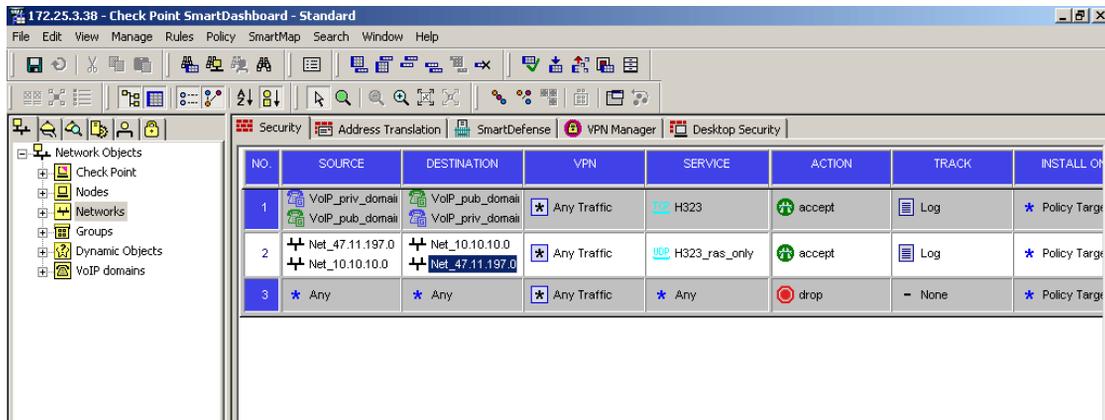


Figure 4 through Figure 8 are screen captures that show how the individual objects were defined.

Figure 4 Global Properties VoIP Tab

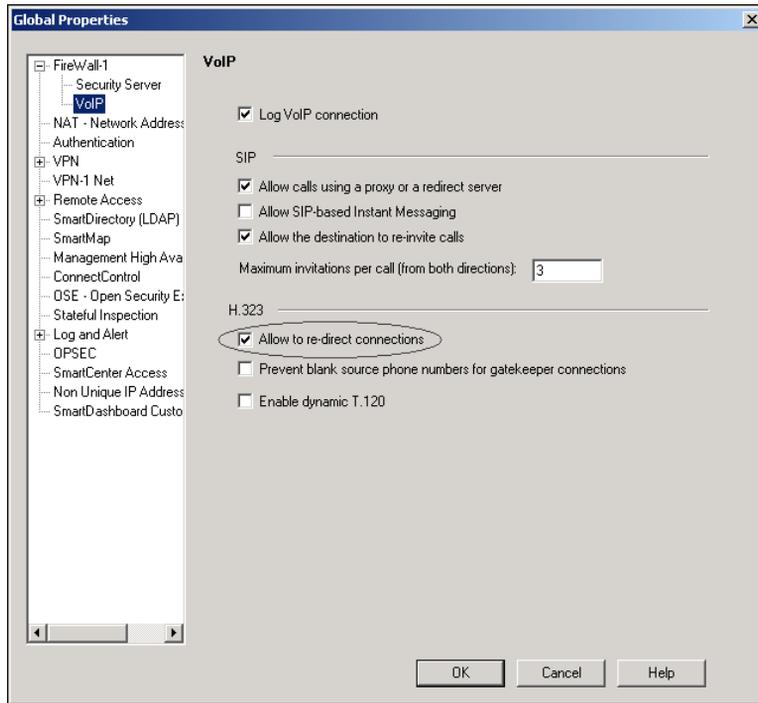


Figure 5 Group Properties for Private Phone and Public Phone Networks

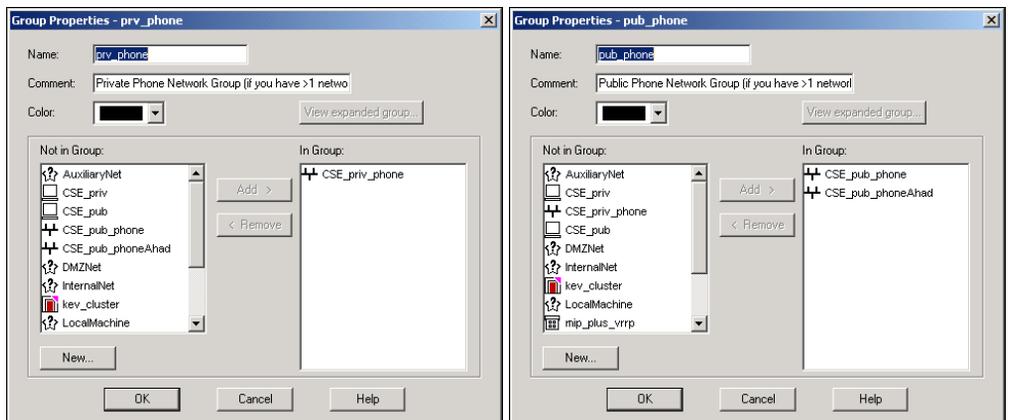


Figure 6 Hide-NAT Network Properties for Private Phone Networks

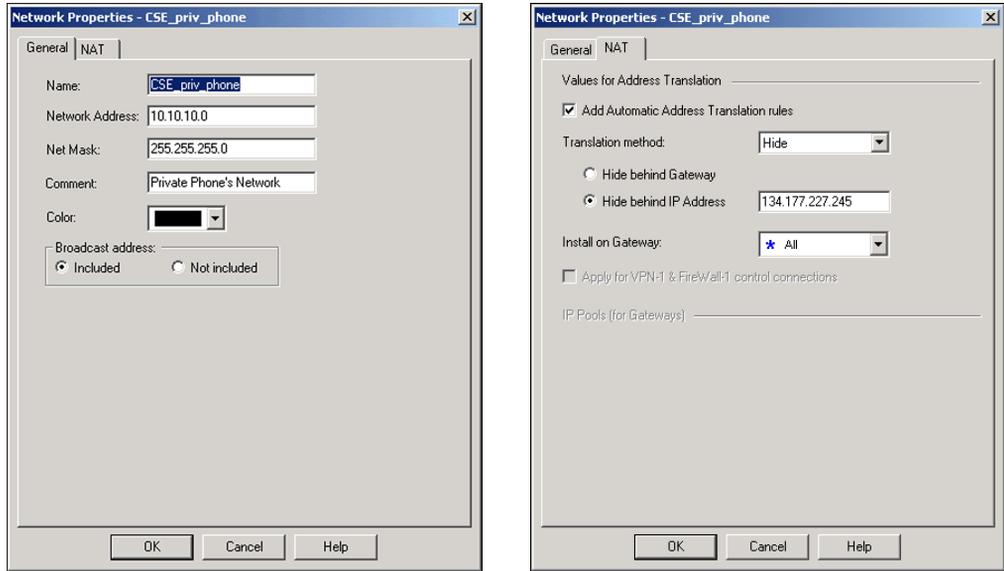


Figure 7 VoIP Private Domain Definition

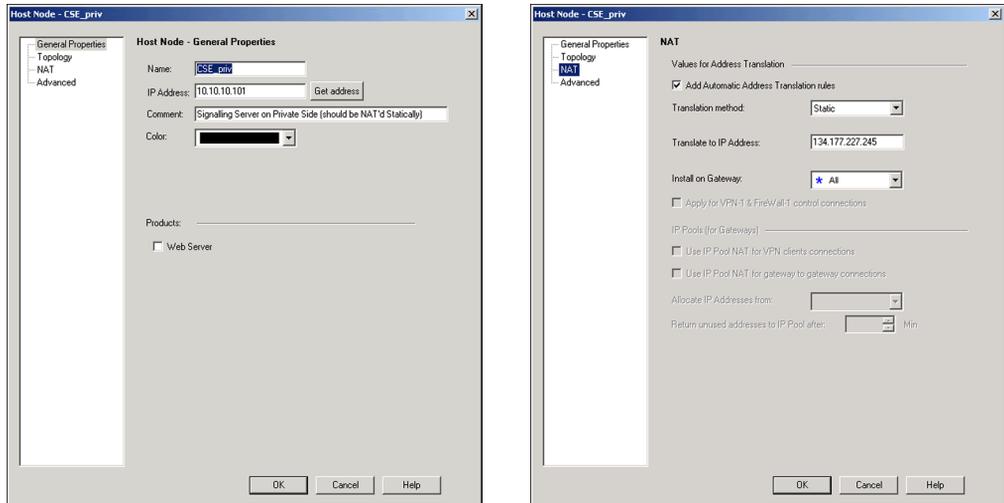
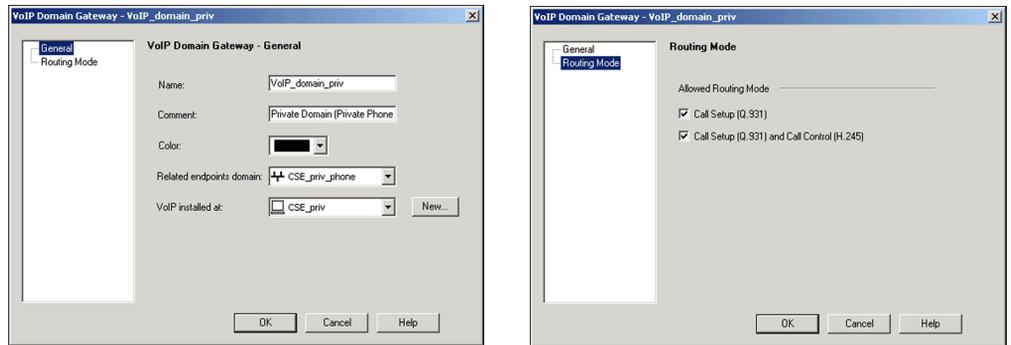
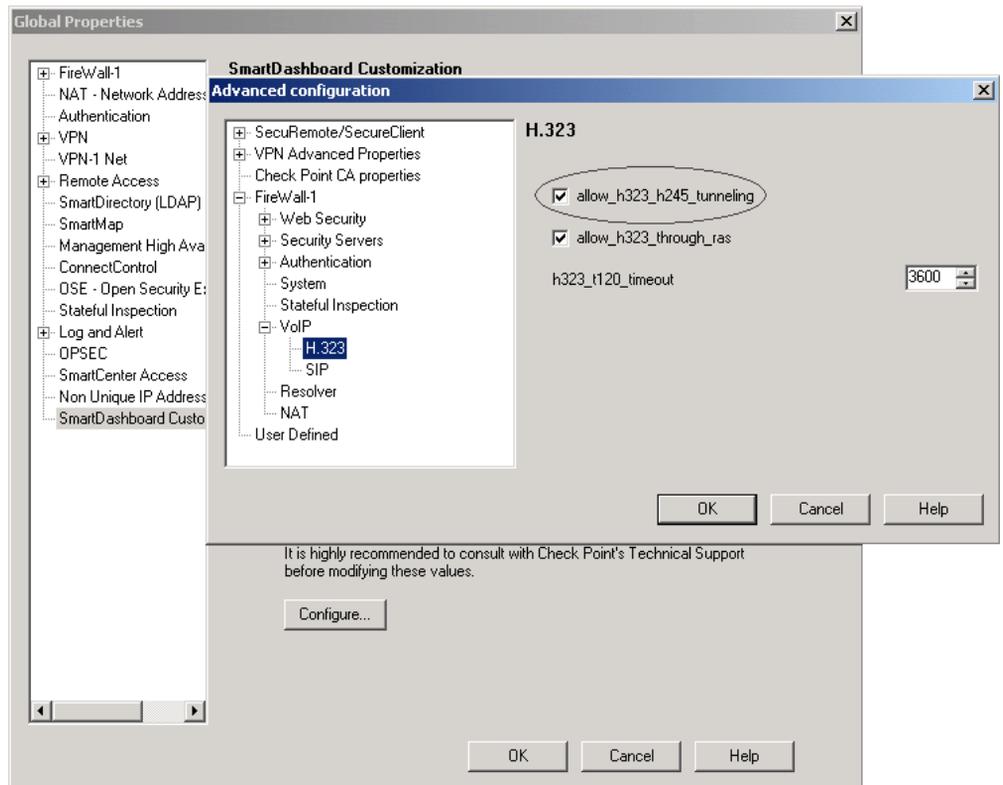


Figure 8 VoIP Public Domain Definition



In [Figure 9](#), select the Install Policy Window and check the Display Web Access View on the Global Properties window. Then, select the Configure button on the Global Properties window to open the Advanced Configuration window and configure as shown in [Figure 9](#).

Figure 9 H245 Enabled



Upgrading the Software

Alteon Firewall 2.2.7.7 does not allow you to upgrade from a previous release. Follow the instructions in the next section to do a new install.

Installing the Software

The Alteon Firewall provides a variety of ways to install your software. Before you begin downloading software, consider the following information.

Alteon Firewall Software Install Options

There are two image versions of Alteon Firewall software; .iso and .img:

- The **.iso image** is for creating the Alteon Firewall software CD. You must download the .iso image to a server that your CD-ROM burner has access to.
- The **.img image** is installed from an ftp or tftp server using the `boot` user login with the `ForgetMe` password. The .img image overwrites the current software version.

Before Installing

Be sure to save your configuration to an ftp or tftp server using the `/cfg/ptcfg` command and restore it after reinstallation using the `/cfg/gtcfg` command. All configuration parameters are lost when you install an ISO or IMG image.

Installing the .ISO Image

Follow the instructions below to download and install the .ISO image.

1. **Point your browser to the Nortel Networks Technical Support Web site (see “[Late-Breaking News and Support](#)” on page 8 for instructions).**
2. **Select the Alteon Firewall 2.2.7.7 image file (.iso) for R54.**
3. **Copy the file to your ftp/tftp server.**
4. **Put a blank CD in your CD-ROM burner, select the “File/Burn Image” option (or equivalent), and burn the Release 2.2.7.7 image onto the blank CD.**
5. **Install the CD in the Alteon Firewall CD-ROM drive.**
6. **Reboot the Alteon Firewall and login as root (no password is necessary).**

7. Run the ASF installation script:

```
# install-asf <model # (asf5105, asf5106, asf5109, asf5112, asf5114, asf5124)>
```

Wait for the installation script to finish. If the Alteon Firewall does not reboot automatically, remove the software CD and reboot the system manually.

8. Login as admin and restore the configuration from the ftp/tftp server using the /cfg/gtcfg command.

NOTE – Step 7 sets policy on the Alteon Firewall to *deny all* by default. For Step 8 to work, you must provide access to your tftp/ftp server. To do this, use the /maint/diag/fw/unldplcy command, but exercise caution; the command provides access to all. Follow up with a policy push from your SmartCenter server as soon as possible.

Installing the .IMG Image

The .img image overwrites the current software version. To download the .img image, login as the boot user with the ForgetMe password.

1. Point your browser to the Nortel Networks Technical Support Web site (see [“Late-Breaking News and Support” on page 8](#) for instructions).
2. Select the Alteon Firewall 2.2.7.7 image file (.img) for R54.
3. Copy the file to your ftp/tftp server.
4. Burn the .pkg file onto a blank CD by following the instructions for your CD-ROM burner for creating a data CD.
5. At the Firewall CLI enter the cdrom command.

```
>> Main# /boot/software/cdrom
Insert the installation CD-ROM. Press ENTER when ready ...
```

6. Install the CD in the Firewall CD-ROM drive.
7. The Firewall prompts for the full directory path in the event that you have copied the .img file to the local hard disk. If you have done this, enter the full path (e.g., /dir1/dir2/ASF5100_2.2.7.7_VOIPR54.img) and press ENTER.

If the system finds the .img file at the specified directory on the hard drive, copy to the Firewall application directory begins.

8. The copy process will take as long as ten minutes. You will know that the process has completed when the file version shows up in the current software status display.

Activating Release 2.2.7.7

You can activate .pkg image at your convenience using the `/boot/software/activate` command.

```
>> Software Management# activate
Enter software version to activate: 2.2.7.7
Confirm action 'activate'? [y/n]: y
Activate ok, rebooting
```

For more information on activating the software you just installed, follow the instructions in the *Alteon Firewall 2.2.5 User's Guide and Command Reference* (see “Activating the Software Upgrade Package”).

Activation is complete when rebooting finishes and the login prompt appears.

Closed CRs

For a list of CRs that were closed for this release, see the Readme file that accompanies the 2.2.7.7 software. See [“Late-Breaking News and Support” on page 8](#) for instructions on how to access the Readme file on the Nortel Networks Technical Support Web site.

