

smoothwall®

The Web You Want

Secure Web Gateway

Network Guardian Upgrade Guide

For future reference

Network Guardian serial number:

Date installed:

Smoothwall contact:

Smoothwall® Network Guardian, Upgrade Guide, March 2015

Smoothwall publishes this guide in its present form without any guarantees. This guide replaces any other guides delivered with earlier versions of Network Guardian.

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Smoothwall.

For more information, contact: docs@smoothwall.net

© 2001 – 2015 Smoothwall Ltd. All rights reserved.

Trademark notice

Smoothwall and the Smoothwall logo are registered trademarks of Smoothwall Ltd.

Linux is a registered trademark of Linus Torvalds. Snort is a registered trademark of Sourcefire INC.

DansGuardian is a registered trademark of Daniel Barron. Microsoft, Internet Explorer, Window 95, Windows 98, Windows NT, Windows 2000 and Windows XP are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Netscape is a registered trademark of Netscape Communications Corporation in the United States and other countries. Apple and Mac are registered trademarks of Apple Computer Inc. Intel is a registered trademark of Intel Corporation. Core is a trademark of Intel Corporation.

All other products, services, companies, events and publications mentioned in this document, associated documents and in Smoothwall software may be trademarks, registered trademarks or service marks of their respective owners in the UK, US and/or other countries.

Acknowledgements

Smoothwall acknowledges the work, effort and talent of the Smoothwall GPL development team:

Lawrence Manning and Gordon Allan, William Anderson, Jan Erik Askildt, Daniel Barron, Emma Bickley, Imran Chaudhry, Alex Collins, Dan Cuthbert, Bob Dunlop, Moira Dunne, Nigel Fenton, Mathew Frank, Dan Goscomb, Pete Guyan, Nick Haddock, Alan Hourihane, Martin Houston, Steve Hughes, Eric S.

Johansson, Stephen L. Jones, Toni Kuokkanen, Luc Larochelle, Osmar Lioi, Richard Morrell, Piere-Yves Paulus, John Payne, Martin Pot, Stanford T. Prescott, Ralf Quint, Guy Reynolds, Kieran Reynolds, Paul Richards, Chris Ross, Scott Sanders, Emil Schweickerdt, Paul Tansom, Darren Taylor, Hilton Travis, Jez Tucker, Bill Ward, Rebecca Ward, Lucien Wells, Adam Wilkinson, Simon Wood, Nick Woodruffe, Marc Wormgoor.

Network Guardian contains graphics taken from the Open Icon Library project <http://openiconlibrary.sourceforge.net/>

Address	Smoothwall Limited 1 John Charles Way Leeds. LS12 6QA United Kingdom
Email	info@smoothwall.net
Web	www.smoothwall.net
Telephone	USA and Canada: 1 800 959 3760 United Kingdom: 0870 1 999 500 All other countries: +44 870 1 999 500
Fax	USA and Canada: 1 888 899 9164 United Kingdom: 0870 1 991 399 All other countries: +44 870 1 991 399

Contents

	About This Guide	1
	Audience and Scope	1
	Organization and Use	1
	Conventions.....	2
	Related Documentation.....	2
Chapter 1	Upgrading to Network Guardian	3
	Warning!	3
	Messages and Conventions.....	3
	Running Network Guardian's Quick Upgrade	4
	Running Network Guardian's Advanced Upgrade	7
Chapter 2	Accessing Network Guardian	11
	Accessing Network Guardian	11
	Connecting to the Internet	13
	Getting the Latest Blocklists.....	15
	Installing Updates	16

About This Guide

Network Guardian is a licenced feature of your Smoothwall System.

This manual provides guidance for upgrading Network Guardian.

Audience and Scope

This guide is aimed at system administrators maintaining and deploying Network Guardian.

This guide assumes the following prerequisite knowledge:

- An overall understanding of the functionality of the Smoothwall System
- An overall understanding of networking concepts

Note: We strongly recommend that everyone working with Smoothwall products attend Smoothwall training. For information on our current training courses, contact your Smoothwall representative.

Organization and Use

This guide is made up of the following chapters and appendices:

- [Chapter 1, Upgrading to Network Guardian on page 3](#)
- [Chapter 2, Accessing Network Guardian on page 11](#)

Conventions

The following typographical conventions are used in this guide:

Item	Convention	Example
Key product terms	Initial Capitals	Network Guardian Smoothwall System
Menu flow, and screen objects	Bold	System > Maintenance > Shutdown Click Save
Cross-references	Blue text	See Chapter 1, Upgrading to Network Guardian on page 3
References to other guides	Italics	Refer to the <i>Network Guardian Administration Guide</i>
Filenames and paths	Courier	The <code>portal.xml</code> file
Variables that users replace	<i>Courier Italics</i>	<code>http://<my_ip>/portal</code>
Links to external websites	Blue text, underlined	Refer to http://www.smoothwall.net/support

This guide is written in such a way as to be printed on both sides of the paper.

Related Documentation

The following guides provide additional information relating to Network Guardian:

- *Network Guardian Installation Guide*, which describes how to install Network Guardian
- *Network Guardian Administration Guide*, which describes how to configure Network Guardian
- *Network Guardian Operations Guide*, which describes how to use Network Guardian
- *Network Guardian User Portal Guide*, which describes how to use the Network Guardian user portal
- <http://www.smoothwall.net/> contains the Smoothwall support portal, knowledge base and the latest product manuals.

1 Upgrading to Network Guardian

This chapter describes how to upgrade from an earlier, compatible version of a Smoothwall System product to Network Guardian, including:

- [Warning! on page 3](#)
- [Messages and Conventions on page 3](#)
- [Running Network Guardian's Quick Upgrade on page 4](#)
- [Running Network Guardian's Advanced Upgrade on page 7](#)

Warning!

Network Guardian's upgrade program **ERASES ALL DATA** on the hard disk or storage volume it detects. This includes any inserted USB storage device. Smoothwall cannot be held responsible for any loss of data.

Do not interrupt the upgrade process. If you cancel after confirming you want to upgrade, your previous settings will be lost.

Messages and Conventions

Network Guardian's upgrade and initial setup programs use a text-based interface that is compatible with all types of graphic card.

The following keyboard controls are used to interact with the programs:

Key	Explanation
Arrows	Move the cursor/focus/highlight between options.

Key	Explanation
Tab	Advances the focus to the next screen object.
Space	Clicks a button if it has the focus.
Enter or Return	Clicks a button if it has the focus. Will click the Ok button if the focus is not currently on a button.

The following on-screen buttons are used throughout the installation and setup process:

Button	Explanation
Cancel	Exits the current program without saving or activating any changes. If the Setup program is being run as part of the first-time setup process, the Cancel button will exit the setup program and require the upgrade process to be restarted.
Done	Indicates that configuration of the current feature is complete. Changes will be saved and activated and control will return to the menu or upgrade procedure.
Finished	Exits once all configuration changes have been completed in the Setup program.
Ok	Confirms the selection of the highlighted option, acknowledges a message or proceeds to the next screen.

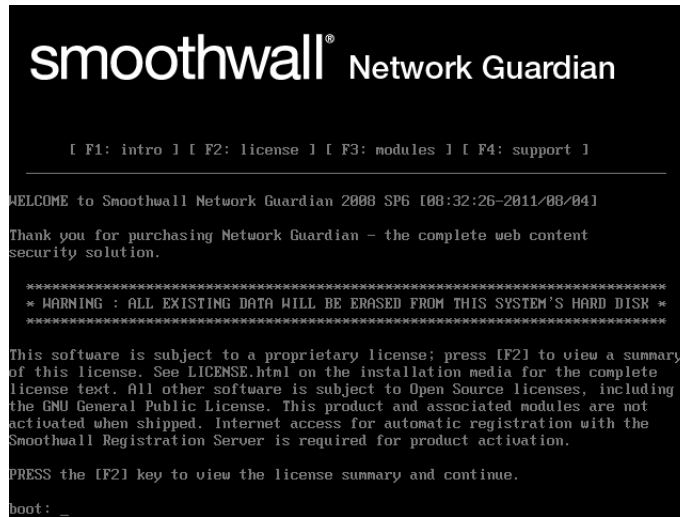
Running Network Guardian's Quick Upgrade

Note: Before you start, we strongly recommend that you archive your current Network Guardian settings. For more information, refer to the *Network Guardian Administration Guide*.

Network Guardian's quick upgrade automatically checks the computer and its hardware components, and upgrades your Smoothwall System accordingly.

To upgrade to Network Guardian:

1. Insert the Network Guardian installation CD into the CD-ROM drive and reboot the computer. The following screen is displayed:



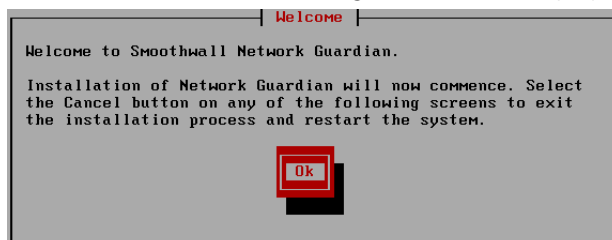
2. Press **Enter**. The following screen is displayed:



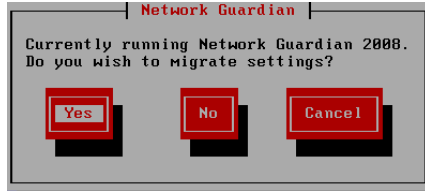
3. When the installation program has initialized the drivers, the following screen is displayed:



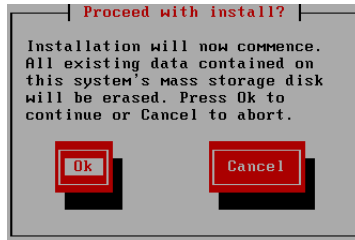
4. Wait 5 seconds for the following screen to be displayed:



- Press Enter to continue. You are prompted to confirm that you want to upgrade, for example:



- Select **Yes** and press Enter. The upgrade program saves your current settings and displays the following screen:



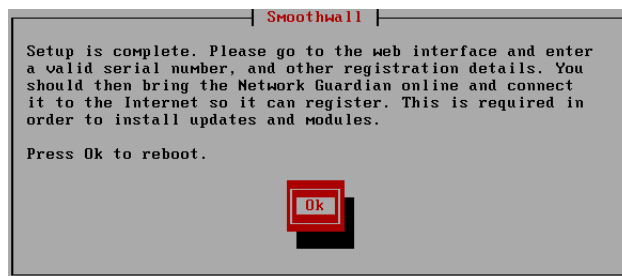
Note: Installing Network Guardian will **ERASE ALL DATA** from the computer's hard disk, storage device or any inserted USB storage device. Ensure that all valuable data is safely backed up before you continue.

This screen is the last opportunity you have to cancel the installation before data is erased. Smoothwall cannot be held responsible for any loss of data.

- Press Enter to continue. Network Guardian files are installed. When complete, the Congratulations! screen is displayed:



- Select **Ok** and press Enter. The following screen is displayed:



- Select **Ok** and press Enter to reboot the computer.

After rebooting, you can access Network Guardian from a network client running a web browser. For more information, see [Chapter 2, Accessing Network Guardian on page 11](#).

Running Network Guardian's Advanced Upgrade

Network Guardian's advanced upgrade enables you to install and remove Network Guardian modules to suit your environment.

Note: Before you start, we strongly recommend that you archive your current Network Guardian settings. For a detailed description of how to do this, refer to your *Network Guardian Administration Guide*.

To upgrade to Network Guardian:

1. Insert the Network Guardian installation CD into the CD-ROM drive and reboot the computer. The following screen is displayed:

```

smoothwall® Network Guardian

[ F1: intro ] [ F2: license ] [ F3: modules ] [ F4: support ]

WELCOME to Smoothwall Network Guardian 2000 SP6 [00:32:26-2011/08/04]

Thank you for purchasing Network Guardian - the complete web content
security solution.

*****
* WARNING : ALL EXISTING DATA WILL BE ERASED FROM THIS SYSTEM'S HARD DISK *
*****

This software is subject to a proprietary license; press [F2] to view a summary
of this license. See LICENSE.html on the installation media for the complete
license text. All other software is subject to Open Source licenses, including
the GNU General Public License. This product and associated modules are not
activated when shipped. Internet access for automatic registration with the
Smoothwall Registration Server is required for product activation.

PRESS the [F2] key to view the license summary and continue.

boot: _

```

2. Press **Enter**. The following screen is displayed:

```

| Smoothwall |
Initialising drivers...

```

3. When the installation program has initialized the drivers, the following screen is displayed:

```

Press SPACE BAR if you wish to enable advanced mode; 4 sec remaining

```

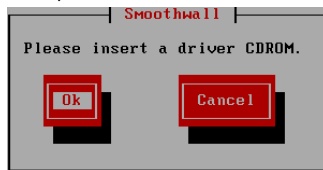
4. Press the space bar to access Network Guardian's advanced install. The following screen is displayed:



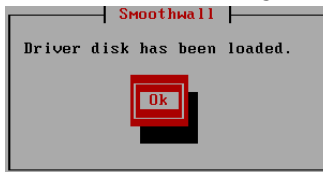
5. Press **Enter** to continue. The following screen is displayed:



6. If you are installing Network Guardian on a computer which requires non-standard drivers, this is where you install them. If you are not installing drivers, select **Done**, press Enter and go to [step 11](#).
7. Select the medium on which the drivers are stored, select **Ok** and press Enter. You are prompted to insert the medium, for example:



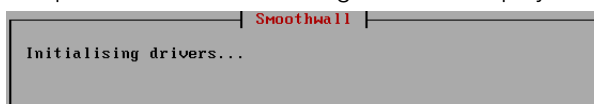
8. Insert the medium into the appropriate drive and press Enter. The installation program loads the drivers and the following screen is displayed:



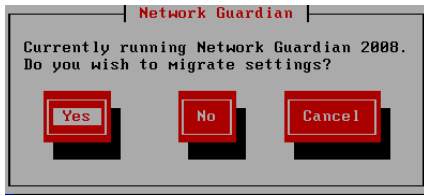
9. Press Enter. The following screen is displayed:



10. Repeat [step 7](#). to [step 9](#). above if you need to install more drivers. To continue, select **Done** and press Enter. The following screen is displayed:



- When the drivers have been initialized again, you are prompted to confirm that you want to upgrade, for example:



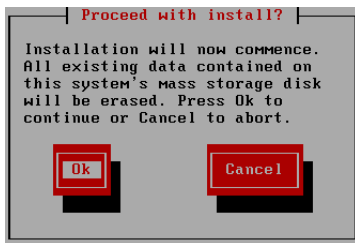
- Select **Yes** and press Enter. The upgrade program saves your current settings and displays the disk partitioning options screen:



- Here you can configure partition options.

Option	Description
Minimal swap partition	Select this option to reduce swap partition requirements.

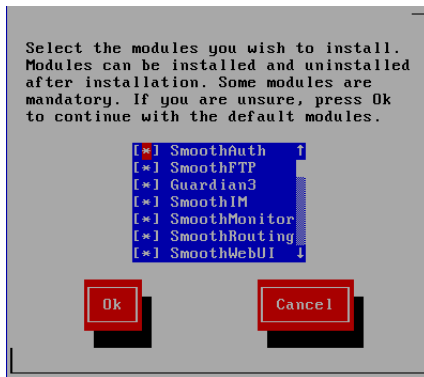
- Select **Ok** to continue. The following screen is displayed:



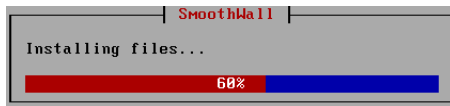
Note: Installing Network Guardian will **ERASE ALL DATA** from the computer's hard disk, storage device or any inserted USB storage device. Ensure that all valuable data is safely backed up before you continue.

This screen is the last opportunity you have to cancel the installation process before data is erased from the hard disk/storage device. Smoothwall cannot be held responsible for any loss of data.

15. Select **Ok** to continue. The installation program prepares the computer and installs Network Guardian. The Modules screen is displayed.



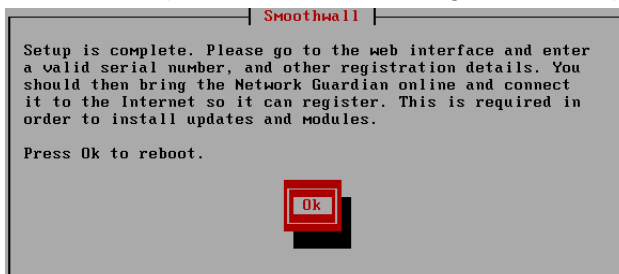
16. Select the modules you want to install, select **Ok** and press Enter to continue. Installation progress is displayed, for example:



Once complete, the Congratulations! screen is displayed:



17. Select **Ok** and press Enter. The following screen is displayed:



18. Select **Ok** and press Enter to reboot the computer.
19. After rebooting, you can access Network Guardian from a network client running a web browser. For more information, see [Chapter 2, Accessing Network Guardian on page 11](#).

2 Accessing Network Guardian

This chapter describes how to access your upgraded Network Guardian, including:

- [Accessing Network Guardian on page 11](#)
- [Connecting to the Internet on page 13](#)
- [Getting the Latest Blocklists on page 15](#)
- [Installing Updates on page 16](#)

Accessing Network Guardian

Note: All examples are illustrated using a Google Chrome browser. For a list of supported browsers, contact your Smoothwall representative.

To access Network Guardian for the first time, do the following:

1. In the browser of your choice, enter the address of your Network Guardian, using the format:

`https://<Network_Guardian_IP_Address>:411`

For example:

`https://10.0.0.3:441`

Note: The address above uses HTTPS to ensure secure communication with your Network Guardian. It is possible to use HTTP on port 81 if you are satisfied with less security.

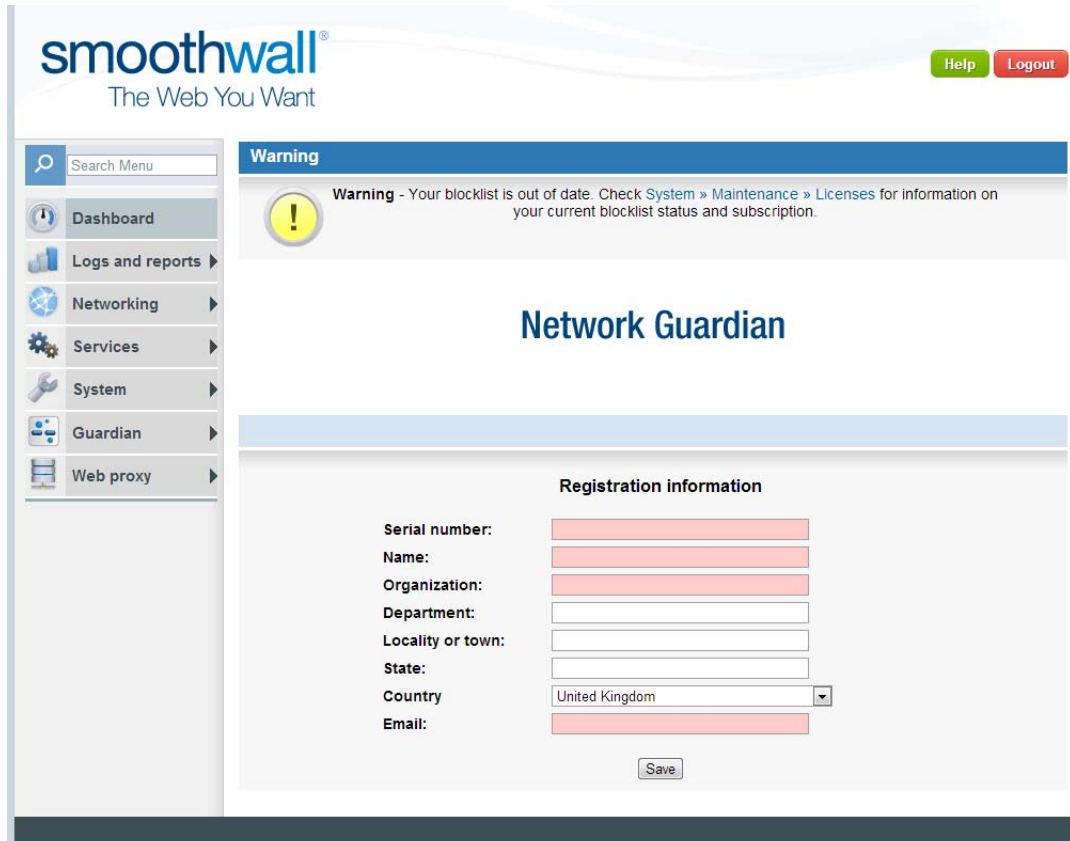
2. If accessing over port 441, accept Network Guardian's certificate.
3. From the login page, enter the following information:

Field	Information
Username	Enter <code>admin</code> . This is the name of the default Network Guardian administrator account.

Field	Information
Password	Enter the admin password.

- Click **Login**.

The **Registration** page opens:



- Enter the following information:

Information	Enter:
Serial number	The serial number you received with your copy of Network Guardian. Serial numbers are not case sensitive and can be entered with or without spaces. If you do not have a serial number, contact your Smoothwall representative or, visit http://www.smoothwall.net/ for more information.
Name	The name of the administrative contact person for Network Guardian.
Organization	The name of the organization in which Network Guardian will reside.
Department	The name of the department in which Network Guardian will reside.
Locality or town	Location information for Network Guardian.
State	Regional location information for Network Guardian.
Country	The country in which Network Guardian will reside

Information	Enter:
Email	The email address of the administrative contact for Network Guardian. This should be a valid and actively used email account.

- Click **Save**.
- When prompted, review the information you have supplied, and then click **Confirm**.

The **Dashboard** opens.

The **Dashboard** is Network Guardian's default home page.

For a detailed description of the Dashboard, refer to the *Network Guardian Operations Guide*.

Connecting to the Internet

If the Smoothwall System you are upgrading from was connected to the Internet, the upgrade program preserves the connection. If an external connection does not exist, you can choose to create one.

To connect Network Guardian to the Internet, do the following:

1. Browse to **Networking > Configuration > Interfaces**:

Networking » Configuration » Interfaces Interfaces | DNS | Link load balancing | Source NAT & LLB policies | Port forwards

[Add new interface](#)

	Link	Name	Interface info	
<input type="checkbox"/>		NIC 1 Ethernet port 1	Role Basic interface IP address 192.168.137.186 MAC address 08:00:27:fb:2a:8a MTU 1500 bytes Device 82540EM Gigabit Ethernet Controller (Intel Corporation)	
		▶ IP addresses		
<input type="checkbox"/>		NIC 2 Ethernet port 2	Role Basic interface MAC address 08:00:27:3e:15:50 Device 82540EM Gigabit Ethernet Controller (Intel Corporation)	
		▶ IP addresses		

[Delete](#)

Note: The interface you use to connect to the Internet must exist as a physical port on your appliance, that is, as a NIC as shown above.

2. Highlight the relevant interface, and click **Edit**.
3. Configure the following:
 - **Name** — Configure a meaningful name for this connection.
 - **Use as** — Select **External**.
 - **Spoof MAC** — If MAC address spoofing is required, enter the new MAC address here.
 - **MTU** — If required, you can set the Maximum Transmission Unit (MTU) size, in bytes, for packets using this connection.
 - **Comment** — Configure an optional comment for this external interface.

An additional button, **Show comments**, is displayed on the **Ethernet interfaces** table if any comments are configured. Clicking this displays configured comments under the interface name.

4. Click **Add**.

You must assign the IP address, and gateway if provided, as advised by your ISP. This can either be a static IP address or one assigned dynamically. For a detailed description of how to do this, refer to the *Network Guardian Administration Guide*.

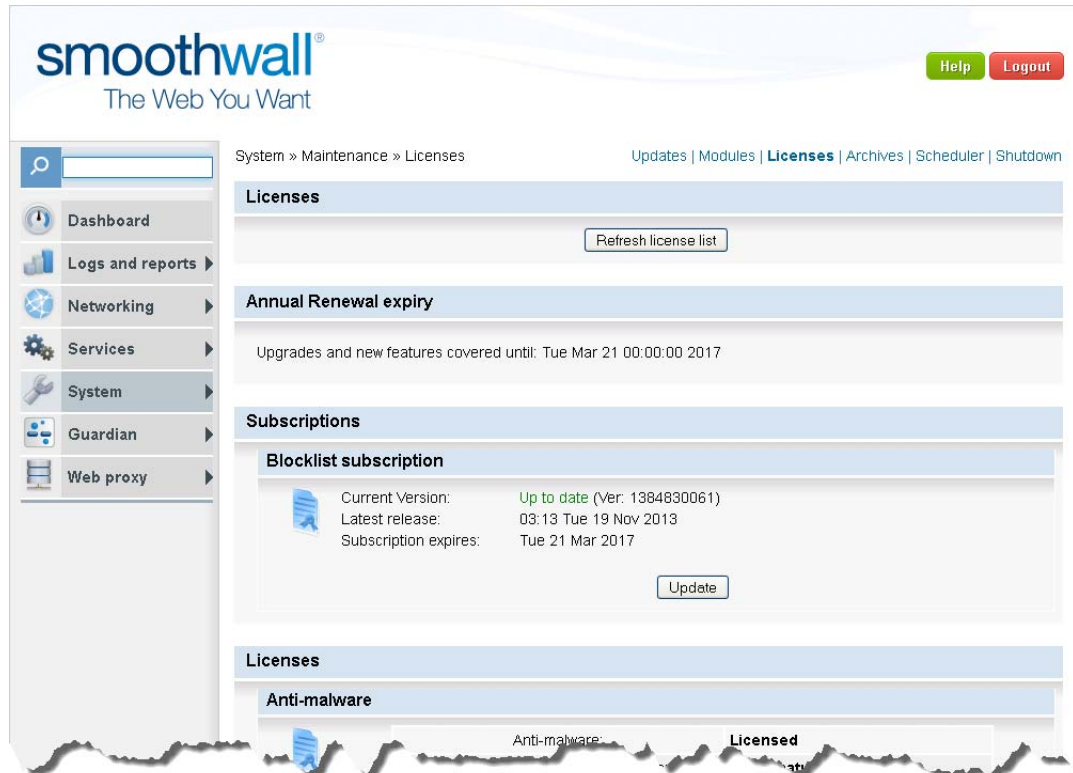
Note: IPv6 is not yet supported. For more information, refer to your Smoothwall representative.

Getting the Latest Blocklists

A blocklist is a group of settings which is updated on a regular basis by Smoothwall to maintain Network Guardian's list of undesirable, inappropriate or objectionable content.

To get the latest blocklist:

1. Browse to the **System > Maintenance > Licenses** page:



The screenshot shows the Smoothwall Network Guardian web interface. The top navigation bar includes the Smoothwall logo, the tagline "The Web You Want", and "Help" and "Logout" buttons. The breadcrumb trail is "System > Maintenance > Licenses". The main content area is titled "Licenses" and contains a "Refresh license list" button. Below this is the "Annual Renewal expiry" section, which states "Upgrades and new features covered until: Tue Mar 21 00:00:00 2017". The "Subscriptions" section is titled "Blocklist subscription" and displays the following information:

Current Version:	Up to date (Ver: 1384830061)
Latest release:	03:13 Tue 19 Nov 2013
Subscription expires:	Tue 21 Mar 2017

An "Update" button is located below this information. At the bottom of the page, there is a section for "Anti-malware" with a "Licensed" status.

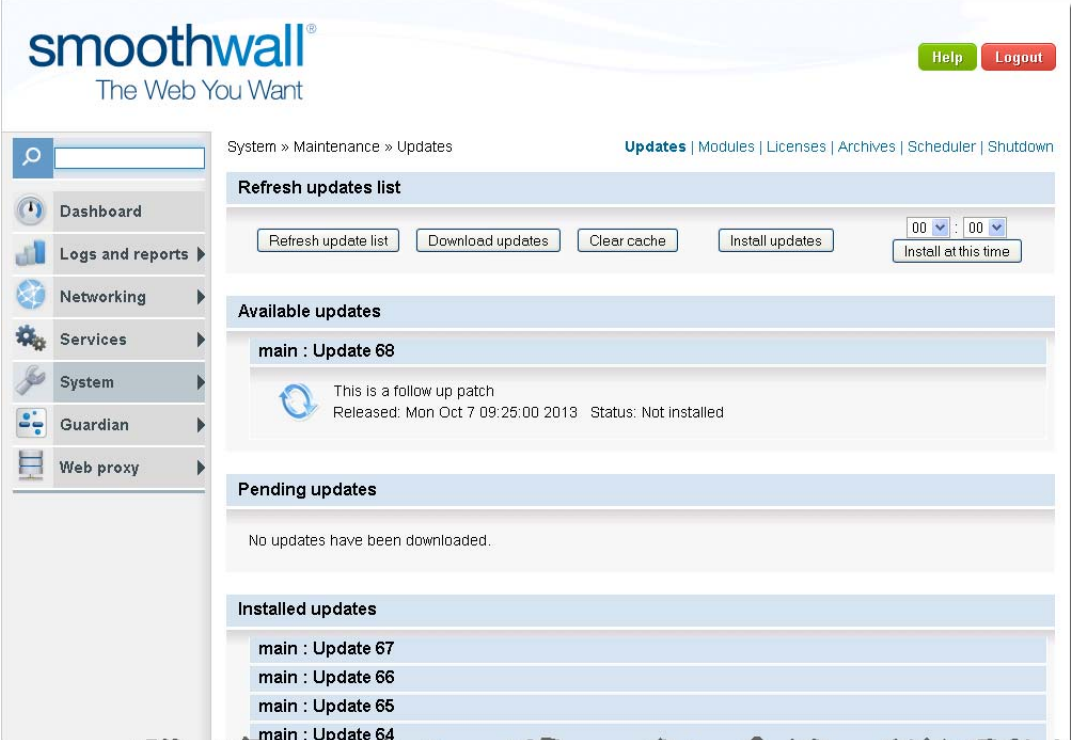
2. In the Blocklist subscription area, click **Update**. Network Guardian downloads and installs the latest blocklists.

Installing Updates

You should ensure that Network Guardian has the latest updates installed.

To check for and install updates, do the following:

1. Browse to **System > Maintenance > Updates** :



The screenshot shows the Smoothwall Network Guardian web interface. The top navigation bar includes the Smoothwall logo, the tagline "The Web You Want", and "Help" and "Logout" buttons. The breadcrumb trail is "System » Maintenance » Updates". The main content area is titled "Updates" and contains several sections:

- Refresh updates list:** A section with buttons for "Refresh update list", "Download updates", "Clear cache", and "Install updates". It also features a timer set to "00 : 00" and an "Install at this time" button.
- Available updates:** A section showing one update: "main : Update 68". Below the title, it states "This is a follow up patch" and "Released: Mon Oct 7 09:25:00 2013 Status: Not installed".
- Pending updates:** A section with the message "No updates have been downloaded."
- Installed updates:** A section listing four installed updates: "main : Update 67", "main : Update 66", "main : Update 65", and "main : Update 64".

2. Click **Refresh update list**.
The **Available updates** panel displays any updates available.
3. Click **Download updates**.
4. Once all updates have downloaded, click **Install updates**.

You may need to reboot Network Guardian once all updates have been installed. Follow the instructions on the pages.

smoothwall[®]

The Web You Want