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Upgrading to SonicOS 7

Welcome to the SonicOS7Upgrade Guide for NSv Series.

This upgrade guide provides information about upgrading your NSv Series firewall from previous versions of SonicOS 6.5 or SonicOS 7 to the latest version of SonicOS 7.

NOTE: The initial deployment of SonicOS 7 must be a fresh install. Upgrading to SonicOS 7 from SonicOS 6.5.4.v via the SWI file is not supported.

This guide also provides related information including importing configuration settings from one NSv model to another and between NSv platforms, upgrading a High Availability pair, using System Update to upgrade both SonicOS and SonicCore, using SafeMode to upgrade SonicOS, and how to perform a Model Upgrade to increase the available number of cores on your NSv. See the following topics for details.

Topics:

- Obtaining the Latest SonicOS Firmware
- Creating a System Backup and Exporting Your Settings
- Upgrading via System Update in the NSv Management Console
- Upgrading SonicOS with Current Settings
- Upgrading a High Availability Pair
- Upgrading SonicOS with Factory Default Settings
- Using SafeMode to Upgrade the SonicOS Image
- Performing a Model Upgrade
- Importing Configuration Settings
- SonicWall Support

Obtaining the Latest SonicOS Firmware

To obtain a new SonicOS image file for your SonicWall NSv virtual firewall:

- 1. In a browser on your management computer, log into your MySonicWall account at https://www.mysonicwall.com.
- 2. In MySonicWall, navigate to **Product Management > My Products** in the left navigation pane to display the list of your registered NSv virtual firewalls.
- 3. Click on the serial number for your appliance to display a window frame with Product Details, Licenses, Firmware and Cloud Backup. The **Product Details** screen displays the type of **Hyper Visor**, such as AWS or VMware.

Product Details	Licenses	Firmware	Cloud Backups	
Serial Number	004 6	Friendly name	NSv_270_sw_211 🖌	
Tenant Name	TechPubs	Registered On	08 Aug 2021	
Managed By 🕕	On-Box	Support Expiration	08 Aug 2022	
Product Type	SONICWALL NSv 270	Registration Code	Q	
Authentication Code	К 3	Firmware Version	7.0.1 🔼	
Trusted	YES	Firewall Mode Switching	6	
Hyper Visor	VMWARE	Registration Token 🕕	***** ••*********************** ••	

4. Click the **Firmware** tab. The screen displays the recently available firmware versions. Scroll down to find firmware for your hypervisor.

	Licenses	Firmware	Clo	ud Backups
	Licenses			
 Updated release available rial Number 00401038B 	e 1524 Firmware Versio	n 7.0.0.0	Latest Released	7.0.1-R1283
	Type	N/A	Firmware	
	Release Date	N/A	Туре	Maintenance Release
			Release Date	Jun 01, 2021
Available Downloads				
NSv 270 KVM				
sonicwall_nsv_qemu_7.0. Release Date - Jun 01, 20 MB	1.0-1283-5db19878 21, Release type - Ma	.0.swi intenance Release,	File Size - 200.72	Version 7.0.1- R1283
SonicWall_NS _V _7.0.1.0-1 Release Date - May 31, 20	1 283_For_QEMU_VM 021, Release type - M	.zip aintenance Release	, File Size - 1.6 GB	Version 7.0.1-R1283
SNMP MIBs Release Date - May 28, 20)21, Release type - M	aintenance Release	, File Size - 46 KB	Version 7.0.1-R1456
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- 5. Optionally, click the **Browse All Firmware** button to display all available firmware versions. Depending on your NSv platform, the following file types are available:
 - SWI Upgrade image file for an existing deployment on any platform. If not displayed, a fresh installation may be required for this release. Check the *Release Notes*.
 - ZIP Contains image file for fresh installation on NSv Hyper-V or NSv KVM.
 - OVA Fresh installation image file for NSv VMware/ESXi.
 - **NOTE:** SonicOS 7 is the latest and the default version available on the Amazon Web Services or Microsoft Azure web sites. For information on how to deploy the SonicOS 6.5.4 version on AWS and Azure platforms, refer to the respective Knowledge Base article:
 - For NSv Azure, refer to the following Knowledge Base article: https://www.sonicwall.com/support/knowledge-base/how-do-i-deploy-an-old-version-of-nsv-onazure/191202144945079/
 - For NSv AWS, refer to the following Knowledge Base article: https://www.sonicwall.com/support/knowledge-base/deploying-previous-versions-of-nsv-onaws/201111071141760/
- 6. Mouse over the row for the firmware you want. Options appear at the right. The PDF icon for the *Release Notes* might only appear on the first row of that group, usually the row with the SWI.



7. Click the **Download** icon to download the firmware to your computer, and click the **PDF** icon to display the *Release Notes*. Be sure to download the firmware that matches your hypervisor.

Creating a System Backup and Exporting Your Settings

Before beginning the update process, make a system backup on your SonicWall NSv. When you click the **Create Backup** button, SonicOS takes a "snapshot" of your current system state, SonicOS image, and configuration preferences, and makes the snapshot the new System Backup image. You can save Backups locally or on the cloud. You can also schedule backups to occur automatically. Clicking **Create Backup** overwrites the existing Backup image as necessary.

You can also export the NSv configuration settings to a file on your local management station. This file serves as an external backup of the configuration settings, and can be imported into another NSv or into the same NSv if it is necessary to reboot SonicOS with factory default settings.

To save a system backup and export configuration settings to a file on your local management station:

- 1. In SonicOS 7, in the **DEVICE** view, navigate to **Settings > Firmware and Settings**. For a local backup, click on **Firmware & Local Backups**. For a cloud backup, click on **Cloud Backups**.
- 2. In SonicOS 6.5, in the MANAGE view, navigate to Updates | Firmware & Backups.
- 3. Click Create Backup and select one of the following:
 - Local Backup SonicOS takes a "snapshot" of your current system state, firmware, and configuration preferences, and saves it as the latest local backup file.
 In the Local Backup dialog, optionally select Retain Local Backup to prevent this backup from being overwritten by a future local backup. Optionally enter a comment in the Comment field, and then click OK to proceed with the backup.
 - **Cloud Backup** The Cloud Backup dialog is displayed. Optionally select **Retain Local Backup** to prevent this backup from being overwritten by a future cloud backup. You can retain a maximum of 3 configuration backup files per firmware version. Optionally enter a comment in the **Comment** field, and then click **OK** to proceed with the backup.
- 4. To export your settings to a local file on your management computer, click Import/Export Configuration (in SonicOS 7, this option is available on the Firmware & Local Backups screen) and select Export Configuration. In the popup dialog, which displays the name of the saved file, click Export to complete the process.

3

Upgrading via System Update in the NSv Management Console

When you upgrade using System Update, SonicCore is updated as well as SonicOS. All configuration and registration settings are retained.

When upgrading a High Availability pair using System Update, upgrade each unit individually.

You can access the orange NSv management console by opening the virtual console from your hypervisor or by connecting to it with SSH, and then pressing **Ctrl+s** followed by the **spacebar**, if needed.



To upgrade your NSv using System Update:

- 1. Select System Update in the left pane of the NSv management console.
- 2. Check for available system updates. Press the **Tab** key to move to the right pane, and use the **arrow keys** to select **Start Update** and then select **Yes** and press **Enter**.
- If a new version is available, it is displayed in the center of the screen. Select Start update and then press Enter. The update version will begin to download and can take a few minutes or, in some cases, a few hours.

△ CAUTION: Do not power off or reboot during the download.

 If you want to close the downloading progress display, press the ESC key. This allows you to move around the NSv management console or switch to the SonicOS CLI console with Ctrl+spacebar. SonicOS continues to run during the download.

- 5. When the download completes, the message **Reboot to complete update** is displayed in the NSv management console. Press **ESC** to close the status display.
- 6. Select **Reboot | Shutdown** in the left pane, then select **Reboot** in the right pane and select **Yes** and press **Enter** to start the reboot process.
 - CAUTION: You can reboot from the NSv management console as shown here, or from the VM menu. However, DO NOT reboot from the SonicOS web management interface or the CLI those methods will reboot to the old version.

After the reboot but before SonicOS comes up, the **Initializing services** message is displayed. **Do not power off or reboot again until this completes.**



- 7. When SonicOS comes up, view the **About** screen in the orange NSv management console to verify that SonicCore is updated.
- 8. Switch to the SonicOS console to verify that SonicOS is updated to the new version, and that the NSv is still registered and X0 still has the configured IP address.

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Initializing HVb engin Initializing IM API Lau	er	
Initializing AWS S3 Cli	ent	
Initializing Cloud Back	up Client	
Initializing IPu6 Inter	faces	
delay interval:60, cloc	krate:1, report interval:15	
Initializing SSLVPN Ser	ver	
Initializing DHCPv6 Ser	ver	
Initializing Router Adv	ertisement Daemon	
Initializing DHCPv6 Cli	ent	
Initializing DHCPv6 cli	ent runtime	
Initializing CLI		
Initializing Data-Plane	Timer Tick	
Starting ZeroTouch		
Upgrade Legacy BWM Conf	iguration	
Update Firmware Boot Hi	story	
Flushing Incomplete Arp	Entries	
Hamin Up Ports		
Initialize Mac lookup t	ables	
Initializing hardware w	atchaoy	
Sustan is in Palicy Med	8	
No wood to boototypy bo	e nounce NSu is registered	
no need to bootstrap be	Lause hao is registered	
Product Model	: NSU 270	
Product Code	: 27002	
Firmware Version	: SonicOSX 7.0.1-16-1317	
Serial Number	: 00401039D3CF	
X0 IP Addresses	: 192.168.55.1	
*** Startup time: 07/14	/2021 15:46:09.896 ***	
open the https manageme	nt file	
Commisht (a) 2021 Pari	ellell Inc	
copyright (c) 2021 Son1	CWall, INC.	
U		
User:Signature Download	ea	
SomicHall (c) 2019 Un	time	[Ctrl-s snacebar] to switch consols

(i) **NOTE:** The system might require two or three minutes to mark the update as successful. To avoid rolling back to the previous SonicCore version during a subsequent reboot, wait a couple of minutes before rebooting the system again.

Upgrading SonicOS with Current Settings

You can update the SonicOS image on a SonicWall NSv remotely if the LAN or WAN interface is configured for management access. You can also connect to the virtual console, put the NSv into SafeMode, and perform the upgrade. See *Using SafeMode to Upgrade the SonicOS Image* for that procedure.

To upload a new upgrade image to your SonicWall NSv and restart using current configuration settings:

- 1. Download the SonicOS SWI image file from MySonicWall and save it to a location on your local computer.
- 2. Point your browser to the NSv IP address, and log in as an administrator.
- 3. In the DEVICE view, on the Settings > Firmware and Settings page, on the Firmware & Local Backups screen, click Upload Firmware.
- 4. In the Backup of current settings popup dialog, click OK to continue with the firmware upload.
- In the Upload Firmware dialog, browse to the location where you saved the SonicOS firmware image file, select the file, and click Upload. After the firmware finishes uploading, it is displayed in the table on the Firmware & Local Backups screen.
- 6. Click the **Boot** icon in the **Uploaded Firmware Version** row and select **Boot firmware with Current Configuration**.
- 7. In the Warning dialog box, click OK. The NSv restarts and displays the login page.
- 8. Enter the user name and password.

Your default password must be changed at first time while logging in after upgrade. Create a password that meets the security requirements. A password should have at least one uppercase letter, one lowercase letter, one number, and one special character. For example, MyP@ssw0rd.

SOI Netwo	NICWALL [®] rk Security Appliance
Your default password mu Please enter a new passwo Old Password	ust be changed at first time login ord:
New Password	
Confirm New Password	
	Cancel Change Password

- 9. Perform the following steps to change password:
 - a. In the **Old Password** text box, enter your default password that was provided.
 - b. In the New Password text box, enter your new password.
 - c. In the **Confirm Password** text box,re-enter the new password again.
- 10. Click Change Password.

Your new SonicOS image version information is displayed on the **Settings > Status** page.

Upgrading a High Availability Pair

SonicOS on NSv Series supports High Availability (HA) on VMware ESXi, Hyper-V, KVM, and Azure platforms.

HA Stateful Synchronization is supported, which means that the secondary unit will automatically synchronize with the primary unit when SonicOS is updated on the primary. Simply upgrade the primary unit as described in Upgrading SonicOS with Current Settings.

However, when upgrading a High Availability pair using System Update, upgrade each unit individually. See the Upgrading via System Update in the NSv Management Console for details.

6

Upgrading SonicOS with Factory Default Settings

Upgrading with factory defaults returns your NSv to the initial configuration. All customized network settings, policies and other configuration will be lost, but logs and local backups remain in place.

To upload a new image to your NSv and restart it using the default configuration:

- 1. Download the SonicOS *SWI* image file from MySonicWall and save it to a location on your local computer.
- 2. Point your browser to the NSv IP address, and log in as an administrator.
- In the DEVICE view, on the Settings > Firmware and Settings page, use Create Backup to create a local or cloud backup.

Wait for the backup to complete.

- 4. On the Firmware & Local Backups screen, click Upload Firmware.
- 5. In the Backup of current settings popup dialog, click OK to continue with the firmware upload.
- In the Upload Firmware dialog, browse to the location where you saved the SonicOS image file, select the file, and click Upload. After the image finishes uploading, it is displayed in the table on the Firmware & Local Backups screen.
- 7. Click the **Boot** icon in the **Uploaded Firmware Version** row and select **Boot firmware with Factory Default Configuration**.
- 8. In the Warning dialog box, click OK. The NSv restarts and then displays the SonicOS login prompt.
 - (i) **NOTE:** The IP address for the X0 (LAN) interface reverts to the default, 192.168.168.168. You can log into SonicOS by connecting to X0 and pointing your browser to https://192.168.168.168. You can also use the virtual console to configure the LAN or WAN IP address, and then log in. See the *NSv Series Getting Started Guide* for information about using the virtual console.
- 9. Enter the user name and password.

Your default password must be changed at first time while logging in after upgrade. Create a password that meets the security requirements. A password should have at least one uppercase letter, one lowercase letter, one number, and one special character. For example, MyP@ssw0rd.

SOI	NIC WALL *
📢 Netwo	rk Security Appliance
Your default password mu	ust be changed at first time login
Please enter a new passwo	ord:
Old Password New Password	
Confirm New Password	Cancel Change Password

- 10. Perform the following steps to change password:
 - a. In the **Old Password** text box, enter your default password that was provided.
 - b. In the **New Password** text box, enter your new password.
 - c. In the **Confirm Password** text box,re-enter the new password again.
- 11. Click Change Password.
- 12. Your new SonicOS image version information is displayed on the **Settings > Status** page.

Using SafeMode to Upgrade the SonicOS Image

If you are unable to connect to the SonicOS management interface, you can restart the SonicWall NSv in SafeMode. The SafeMode feature allows you to quickly recover from uncertain configuration states with a simplified management interface that includes some of the functionality available in the **DEVICE | Settings > Firmware and Settings** page.

When you access the SafeMode interface in your browser, you will be prompted to enter the *Maintenance Key* for your NSv.

- In SonicOS 7.0.0, you must obtain the Maintenance Key from MySonicWall.
- In SonicOS 7.0.1, you can use the Auth Code as the key if your NSv is unregistered. The Auth Code is available in the SonicOS web management interface. After the appliance is registered, you will need to use the Maintenance Key, which is available from MySonicWall.

To obtain the Maintenance Key for your appliance:

- 1. Log into your MySonicWall account at https://www.mysonicwall.com.
- 2. Navigate to Product Management > My Products and locate your NSv in the table.
- 3. Click on the serial number for your NSv to display a window frame with Product Details, Licenses, Firmware and Cloud Backup.
- 4. In the **Product Details** screen, move your mouse pointer over the "eye" icon next to **Maintenance Key**. The key value is displayed in a popup until you move your mouse. Make a note of the key.

Authentica	ition Code	K7KH
	44ce40	fdb89
		labee
Irusted		YES
Maintenan	ice Kev 🛛 🥺	•
manteriun	ice ice y jm	η

To use SafeMode to upgrade the image on a SonicWall NSv:

- 1. Launch the virtual console and then click inside the console window.
- 2. Press Ctrl+s and then press the spacebar to switch to the NSv management console.

- 3. In the console, use the arrow keys to select the **Reboot | Shutdown** option and then press **Enter**. The right pane displays the **Reboot | Shutdown** options.
- 4. Navigate down to the **Boot SonicWall into safemode** option to highlight **Enable**, and then press **Enter**.

Systen Info Management Network Test Management Network Diagnostics NTP Server Lockdown Mode Systen Update Reboot i Shutdown About Logs	Reboot SonicHall Shutdown SonicHall Boot with factory default settings Boot SonicHall into debug Boot SonicHall into safemode	[Reboot] [Shutdown] [Pactory Default] [Debug] [Enable]
Up / Down to select items Thil to move between views Enter to action/edit an item	To log into the SonicWall web interfa	de 1 (Esc) ce visit:

- 5. Select **Yes** in the confirmation dialog and press **Enter** to confirm.
- The NSv immediately reboots and comes back up in SafeMode. When viewing the NSv management console in SafeMode, the URL for the SafeMode *web* interface is displayed at the bottom of the screen. In SafeMode, the web interface is served from an HTTP server. The HTTPS server is not started in SafeMode.
- 7. In a browser, navigate to the URL provided at the bottom of the NSv management console screen. The SafeMode web management interface displays.

	ecurity Virtual				
SonicOS is running in Safe Mode Safe Mode will allow you to do any of the followi > Download the Safe Mode Logs for trouble > Upload new SonicOS application image > Boot your choice of application image > Restore the settings to their factory defau	ing: shooting by the SonicWall Su It values	pport Team	SonicOS Product Info Model: NSv Unlicensed Product Code: 70000 GUID: Serial Number:		
Download Safe Mode Logs					
Restart @ Refresh Dipload Image					
Current Image Version Impo 6.5.0.2-8v-sonicosv- 4/25/2 3725793204 4/25/2	ort Date 2018, 6:14:00 PM	Last Used Date 4/25/2018, 6:14:03 PM	Status Not Running: Safe Mode	Boot	Image Actions N/A

8. Click **Upload Image** button to select the *SWI* file that you downloaded from MySonicWall, and then browse to the location where you saved the SonicOS image, select the file, and click **Upload**. Once the upload completes, the image is available in the **Image Management** list in the SafeMode web interface.

- 9. Click the **Boot** button in the row for **Available Image Version** and select one of the following:
 - Boot Available Image with Current Configuration

Use this option to restart the NSv with your current configuration settings.

Boot Available Image with Factory Default Configuration

Use this option to restart the NSv with factory default configuration settings. The configuration settings revert to default values, but logs and local backups remain in place.

- Boot Available Image with Backup Configuration
 Use this option to restart the NSv with saved backup configuration settings. You can choose which backup to use.
- 10. In the confirmation dialog, click **Boot** to proceed.

The NSv reboots with the new image

- 11. After successfully booting the SonicOS image, if the login screen is not displayed, point your browser to the firewall IP address. If you booted with factory default settings, the default IP address of the X0 interface is 192.168.168.168.
- 12. Enter the user name and password.

Your default password must be changed at first time while logging in after upgrade. Create a password that meets the security requirements. A password should have at least one uppercase letter, one lowercase letter, one number, and one special character. For example, MyP@ssw0rd.

SOI Netwo	NICWALL* rk Security Appliance
Your default password mu Please enter a new password Old Password	ist be changed at first time login ord:
Confirm New Password	Cancel Change Password

- 13. Perform the following steps to change password:
 - a. In the **Old Password** text box, enter your default password that was provided.
 - b. In the New Password text box, enter your new password.
 - c. In the Confirm Password text box, re-enter the new password again.
- 14. Click Change Password.

You can manage the NSv from the X0 interface or another LAN interface, or from the WAN interface, if configured.

Upgrading an Existing Deployment from SonicOS 6.5.4.v to SonicOS 7.0

SonicWall provides the Secure Upgrade process for upgrading an existing SonicOS 6.5.4.v NSv deployment to SonicOS 7.0.1 or higher.

Upgrade from 6.5.4.v to 7.0.1 requires a Secure Upgrade license key that is purchased separately. You can choose from any of the following:

- SONICWALL NSV 270 SECURE UPGRADE VIRTUAL APPLIANCE ONLY NO ATTACHED SUBSCRIPTION (EXISTING SONICWALL CUSTOMERS ONLY)
- SONICWALL NSV 470 SECURE UPGRADE VIRTUAL APPLIANCE ONLY NO ATTACHED SUBSCRIPTION (EXISTING SONICWALL CUSTOMERS ONLY)
- SONICWALL NSV 870 SECURE UPGRADE VIRTUAL APPLIANCE ONLY NO ATTACHED SUBSCRIPTION (EXISTING SONICWALL CUSTOMERS ONLY)
- SONICWALL NSV 270 SECURE UPGRADE PLUS ESSENTIAL EDITION (2YR, 3YR, or 5YR)
- SONICWALL NSV 470 SECURE UPGRADE PLUS ESSENTIAL EDITION (2YR, 3YR, or 5YR)
- SONICWALL NSV 870 SECURE UPGRADE PLUS ESSENTIAL EDITION (2YR, 3YR, or 5YR)

To upgrade an existing SonicOS 6.5.4.v NSv deployment to SonicOS 7.0.1 or higher:

- 1. Purchase a Secure Upgrade license key.
- 2. Log into MySonicWall and register the Secure Upgrade serial number. Enter a descriptive "friendly" name in the available field, shown here as "SecureUpgrade1".

🗲 MySonicWall 🛛 🗛				
Register Products	2 PRODUCT REGISTRATION DETA	ILS MANAGEMENT OF		
dsds Products 00401000296C Register another serial number	✓ 98954XHD	SecureUpgrade1	004010383965 🖋 🗑	Firewall
🕹 Download CSV template 🛛 🗳 Upk	ad .CSV for bulk registration	Cancel Cho	ose management options	

- 3. Click Choose management options.
- 4. In the Secure Upgrade popup window, select **Register Only** at the top.

		2		······ 3	IT OPTIONS		
CHOUSE A TENANT		PRODUCT REGISTRATION	N DETAILS	MANAGEMER	IT OPTIONS		
SonicWALL, Inc. Products				Secure L	lpgrade Plus - S	SonicWALL	
004010399C7D	~	TY25-42TK		-			
		0	Please select the	e Trade-In Unit:		Registe	er only
Register another serial numbers and the serial numbers and the serial numbers are serial numbers.	per		NAME	SERIAL NUMBER	PRODUCT LINE	EXPIRAT V Reg	ister only
			SonicCore_vFW	00401034A401	NSv 800	22 Jan 2 Reg	ister and transfer
			SONICWALL NSv	00401034A3F9	NSv 200	-	
			SONICWALL NSv	004010000007	NSv 200 Trial		
			SONICWALL NSv	00401034DDDE	NSv 800	02 Sep 2033	02 Sep 2033
			SONICWALL NSv	00401034DC66	NSv 800	22 Sep 2019	22 Sep 2019
			SONICWALL NSV	004010292F14	NSv 800	22 Sep 2019	22 Sep 2019
			lakshmi	00401034E007	NSv 400	07 Oct 2019	07 Oct 2019
			2ZV5	00401034DFE4	NSv 200	09 Jan 2020	09 Jan 2020
			CRHJ9CJV	00401000034C	NSv 200 Azure	27 Mar 2020	27 Mar 2020
			AZB5NU2N	004010000328	NSv 800	27 Mar 2020	27 Mar 2020
			SONICWALL NSv	00401034DDE6	NSv 400	02 Apr 2020	02 Apr 2020
			SONICWALL NSv	00401000ADEE	NSv 200	-22	
			NSv10_129	004010000608	NSv 200		
			Total: 64 item(s)				

- 5. Select the Trade-In Unit from the list of registered NSv instances. This is the SonicOS 6.5.4.v NSv instance to be upgraded to SonicOS 7.
- 6. Click **Done** after selecting the Trade-In Unit. The Secure Upgrade serial number is then registered to your MySonicWall account.
- 7. The action item **Secure Upgrade Transfer** is added to the **To do list** at the bottom of the page.

SecureUpgrade1					- <mark> </mark>
Product Details	Licenses	Cloud Backups			
Serial Number		00401000296C	Friendly name	SecureUpgrade1 🥖	
Tenant Name		dsds Products	Registered On	07 Apr 2021	
Managed By 🕕		On-Box 🥖	Support Expiration	07 Apr 2023	
Product Type		SONICWALL NSV 470 SECURE UPGRA DE PLUS ESSENTIAL EDITION 2YR	Registration Code	9HHGMY9W	
Authentication Code		98954XHD	Firmware Version	7.0.1	
Trusted		YES	Firewall Mode Switching	0	
Registration Token	+		Maintenance Key 🗢		
To do list Update data center Secure Upgrade Tra	for Capture Advan ansfer.	ced Threat Protection	Associated Products SonicPoint (0) SonicWave (0) HA Secondary (0) Storage Module (0)		

You can perform the service transfer *after* you have deployed the SonicOS 7 NSv instance and moved the configuration settings ("prefs") from the SonicOS 6.5.4.v NSv to the new SonicOS 7 NSv.

The service transfer moves all active services from the SonicOS 6.5.4.v NSv to the new SonicOS 7 NSv and then deregisters the SonicOS 6.5.4.v NSv.

- (i) **NOTE:** If you do not perform the service transfer within 60 days, the transfer will be performed automatically.
- 8. Deploy a new SonicOS 7 NSv instance with the desired model and platform. Refer to the *NSv Getting Started Guide* for the installation procedure.
- 9. Register the SonicOS 7 NSv using the **Secure Upgrade** serial number. When prompted to select either Classic mode or Policy mode, select Classic mode. Classic mode supports configuration settings import from a SonicOS 6.5.4.v NSv.

Registration initiates a 60-day countdown at the end of which the SonicOS 6.5.4.v NSv is deregistered, completing the Secure Upgrade Transfer.

- 10. Log into the SonicOS 6.5.4.v NSv and export the configuration settings to a file on your management computer.
- 11. Using the migration tool (https://migratetool.global.sonicwall.com/), migrate the SonicOS 6 NSv preferences to SonicOS 7 NSv model.



Home M MO	Prefs Import Warning! The firewall configuration file that is being imported is from a different model: NSV 200 It may contain configuration settings not supported by the firewall. Please use the firewall migration tool for configuration import: https://migratetool.global.sonicwall.com
9 <u>4</u> Miroon of 210-ght19619	Cancel OK name spinisting The extra constant of the constant o
	Before import ing new configuration, it is recommended to export the current configuration or uplead a copy to the cloud. The active configuration will be overwritten upon import of a new configuration file. Your SonicWall appliance will reboot automatically once the import has completed. Uplead file to be imported sonicwall-NSV_200-6,5,4, Browse Cancel Export Local Copy import

The upgrade is now complete and the SonicOS 7 NSv is ready for use.

Performing a Model Upgrade

Model Upgrade provides additional cores to increase computing power. You can upgrade your NSv to a model with a higher number of cores by selecting and purchasing the desired SKU for the higher model on MySonicWall and then applying the activation key on the Service Management page. Model Upgrade SKUs are available for single NSv appliances and for High Availability pairs.

Model Upgrade on NSv AWS or NSv Azure platforms might require moving to a new virtual machine model from the vendor (Amazon AWS or Microsoft Azure) if it does not already have the CPU and memory allocations required for the new NSv model, For information about VM models supported by these vendors, refer to the *NSv Series Getting Started Guide* for your platform.

() NOTE: Be sure to manually update the memory and CPU/processor settings in the VM console before this upgrade. For details about changing your hypervisor settings, see the Upgrading to a Higher Capacity NSv Model section in the NSv Series Getting Started Guide for your platform. For the new memory and CPU/processor values, refer to the Product Matrix and Requirements section in the NSv Series Getting Started Guide for your platform.

Upon activation of the Model Upgrade service, the product ID of the NSv is updated to match the ID of the new model. This update is also communicated to the SonicWall License Manager to update the product code for the NSv serial number.

	NSv 270	NSv 470	NSv 870	
NSv 270		Supported	Supported	
NSv 470			Supported	

SUPPORTED MODEL UPGRADES, SINGLE NSV AND HA PAIRS, ALL NSV PLATFORMS

Depending on your NSv deployment, refer to one of the following sections:

- For Model Upgrade on a single NSv, see Performing a Model Upgrade on a Single NSv.
- For Model Upgrade on NSv AWS or NSv Azure platforms when the current NSv does not already have the CPU and memory allocations in the vendor VM that are required for the new NSv model, see Performing a Model Upgrade on NSv AWS or NSv Azure.
- For Model Upgrade on a High Availability pair, see Performing a Model Upgrade on an HA Pair.

Performing a Model Upgrade on a Single NSv

This procedure works for Model Upgrade on NSv ESXi, NSv Hyper-V, and NSv KVM, and **Step 2** through **Step 9** also apply to NSv AWS or NSv Azure platforms that have enough CPU and memory for the upgrade in the underlying vendor VM model.

To perform a model upgrade on a single NSv:

- 1. In the VM console of your hypervisor, adjust the memory and CPU/processor settings of the NSv you are upgrading to match the required settings for the new model.
- 2. In a browser on your management computer, log into your MySonicWall account at https://www.mysonicwall.com.
- 3. In MySonicWall, navigate to **Product Management > My Products** in the left navigation pane to display the list of your registered NSv virtual firewalls.
- 4. Click the link for the NSv that you wish to upgrade. The Service Management page opens.
- 5. Under **Applicable Services** in the **GATEWAY SERVICES** section, click the Cart icon in the Model Upgrade row to buy the SKU for the higher model. Or, obtain the license from your SonicWall sales contact. Copy the resulting activation key into your clipboard or make a note of it.
- 6. Click the Key icon in the Model Upgrade row to open the Activate Service: Model Upgrade dialog.
- 7. Enter the key into the Activation Key field and then click Submit.
- 8. Log into the NSv, navigate to the **DEVICE | Settings > Licenses** page and click **Synchronize**.
- 9. Restart the NSv if prompted, or navigate to **Settings > Restart** and click **Restart System** to reboot the NSv.

Your NSv is updated to the new model, both in MySonicWall and in the License Manager. All services and maximum limits are now applied according to the updated Product ID.

Performing a Model Upgrade on NSv AWS or NSv Azure

If your NSv AWS or NSv Azure does not already have the CPU and memory allocations in the vendor VM that are required for the new NSv model, use the following procedure for the Model Upgrade. If the CPU and memory are already adequate for the new NSv model, you can use the steps provided in Performing a Model Upgrade on a Single NSv.

To perform a model upgrade on NSv AWS or NSv Azure:

- 1. Log into your current NSv and navigate to **DEVICE | Settings > Firmware and Settings**.
- 2. Click Import/Export Configuration and select Export Configuration to export your settings.

- 3. Navigate to **HOME | Dashboard > System > Device** and write down the values shown in the **Serial Number** and **Authentication Code** fields.
- 4. Navigate to **DEVICE | Settings > Licenses** and click **DEREGISTER**, then click **OK** in the confirmation dialog.
- 5. In either Amazon AWS or Microsoft Azure, deploy the same NSv model as you had before, but select a higher VM model from the vendor, with the CPU and memory capacity required for your desired higher NSv model. For information about VM models supported by these vendors, refer to the *NSv Series Getting Started Guide* for your platform.
- 6. Log into your new NSv and register it using the same serial number and authentication code that you saved in Step 3.
- 7. Navigate to **DEVICE | Settings > Firmware and Settings** and select **Import Configuration** to import your saved settings.
- 8. To complete the Model Upgrade process, perform Step 2 through Step 9 of the procedure in Performing a Model Upgrade on a Single NSv.

Performing a Model Upgrade on an HA Pair

For Model Upgrade on a High Availability pair, you need two activation keys, one for the primary unit and one for the secondary unit. The primary unit upgrade key is generated using a regular SKU, while the secondary unit upgrade key is generated using an HA SKU. First, associate the HA pair (if not already associated) in MySonicWall before the model upgrade, then perform similar steps as you would for a single node model upgrade on both the primary and secondary units to complete the model upgrade on your HA pair.

To perform a model upgrade on a High Availability pair:

- 1. In the VM console of your hypervisor, adjust the memory and CPU settings of the NSv you are upgrading to match the required settings for the new model.
- 2. Log into your MySonicWall account and associate the HA secondary unit with the primary unit (if not already associated).
- 3. Click the link for the primary unit to open the **Service Management** page for it. Buy the Model Upgrade license using the Cart icon, if needed.
- 4. Click the Key icon in the Model Upgrade row to open the Activate Service: Model Upgrade dialog.
- 5. Enter the key into the Activation Key field and then click Submit.
- 6. Go to the **Service Management** page for the secondary unit. Buy the Model Upgrade license (HA SKU) using the Cart icon, if needed.
- 7. Click the Key icon in the Model Upgrade row, enter the key (the HA SKU key) into the **Activation Key** field and then click **Submit**.
- 8. Log into the HA Pair as an administrator. This logs you into the active (primary) unit.
- 9. Navigate to the **DEVICE | Settings > Licenses** page and click **Synchronize**.

10. Restart the NSv if prompted, or navigate to **DEVICE | Settings > Restart** and click **Restart System** to reboot the primary unit.

After bootup, the NSv will stay in the STANDBY state and the previously idle (secondary) NSv will become the active unit

- 11. Log into the HA Pair again, as administrator. This logs you into the secondary NSv, which is now the active unit.
- 12. Navigate to the **DEVICE | Settings > Licenses** page and click **Synchronize**.
- 13. Restart the NSv if prompted, or navigate to **DEVICE | Settings > Restart** and click **Restart System** to reboot the secondary unit.

While this unit boots up, the first unit becomes active again and the HA Pair is upgraded and synchronized.

Importing Configuration Settings

You can import configuration settings from one NSv model to another on the same platform, which can save a lot of time when replacing or deploying a new NSv. This feature is also useful when you need multiple NSv virtual firewalls with similar configuration settings.

Before importing settings, you need a configuration file exported from an NSv whose settings you want. You can export configuration settings from an NSv to a file on your management computer at any time.

To export the configuration settings from an appliance running SonicOS 7, navigate to the **DEVICE | Settings > Firmware and Settings** page, click **Import/Export Configuration** and select **Export Configuration**. In the popup dialog, click **Export** to complete the process. Refer to **Creating a System Backup and Exporting Your Settings** for more information.

You can then import the settings file to another appliance by selecting **Import Configuration** from the **Import/Export Configuration** list.

You can also import settings from an NSv running SonicOS 6.5.4.4v to an NSv on the same platform running SonicOS 7.

Topics:

- Settings Import Support Across NSv Platforms
- Settings Import Support Across NSv Models
- Settings Export and Import Procedures

Settings Import Support Across NSv Platforms

Configuration settings import is supported between NSv virtual firewalls on the same platform, but cross-platform settings import is not supported. The NSv Cross-Platform Settings Import Support table illustrates support for importing configuration settings between NSv virtual firewall platforms.

NSV CROSS-PLATFORM SETTINGS IMPORT SUPPORT

		NSv AWS	NSv Azure	NSv Hyper-V	NSv KVM	NSv VMware
SOURCE	NSv AWS	Y	Ν	Ν	N	N
PLATFORM	NSv Azure	Ν	Y	Ν	Ν	Ν
	NSv Hyper-V	Ν	Ν	Y	Ν	Ν
	NSv KVM	N	N	N	Y	N
	NSv VMware	N	N	N	N	Y

DESTINATION PLATFORM

LEGEND

Y	Supported
N	Unsupported . While importing the settings file may be successful across platforms with equivalent features, cross-platform settings import is not recommended.

Settings Import Support Across NSv Models

The following table illustrates support for importing configuration settings between NSv virtual firewall models. The source firewalls are in the left column, and the destination firewalls are listed across the top.

CONFIGURATION SETTINGS IMPORT SUPPORT ON NSV MODELS

		NSv 270	NSv 470	NSv 870
	NSv 270	Y	Y	Y
	NSv 470	Ν	Y	Y
	NSv 870	Ν	Ν	Y
SOURCE	NSv 10	Y	Y	Y
NSv	NSv 25	Y	Y	Y
	NSv 50	Y	Y	Y
	NSv 100	Y	Y	Y
	NSv 200	Y	Y	Y
	NSv 300	Ν	Y	Y
	NSv 400	Ν	Y	Y
	NSv 800	Ν	Ν	Y
	NSv 1600	Ν	Ν	Ν

DESTINATION NS*v*

LEGEND

Y	Supported
N	Unsupported . While importing the settings file may be successful, firewall limitations may result in the removal of items such as DHCP scopes, VPN settings, etc.

Settings Export and Import Procedures

To export the configuration settings from an NSv running SonicOS 7:

- 1. Navigate to the **DEVICE | Settings > Firmware and Settings** page in SonicOS.
- On the Firmware & Local Backups screen, click Import/Export Configuration and select Export Configuration.
 The exported configuration settings file is saved to your Downloads folder. The file type extension is .exp.

To export the configuration settings from an NSv running SonicOS 6.5.4.4v:

- 1. Navigate to the MANAGE | Updates | Settings page in SonicOS.
- 2. Click the Import/Export Configuration drop-down list and select Export Configuration.
- In the popup dialog, click Export.
 The exported configuration settings file is saved to your Downloads folder. The file type extension is .exp.

To import configuration settings to an NSv running SonicOS7:

- 1. Navigate to the **DEVICE | Settings > Firmware and Settings** page in SonicOS.
- 2. On the Firmware & Local Backups screen, click Import/Export Configuration and select Import Configuration.
- 3. The popup dialog advises you to export a copy of the current configuration before importing new configuration settings. Do one of the following:
 - Click **Export Local Copy** to export the current settings to your management computer. Then repeat the step to open the **Import Configuration** dialog.
 - If you have already saved the current settings or prefer not to, click **Browse** and select the **.exp** file to import, or enter the filename into the **Upload file to be imported** field. Then click **Import**.
- 4. The imported configuration overwrites the existing configuration settings and then the NSv automatically reboots.

SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to https://www.sonicwall.com/support.

The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View and participate in the Community forum discussions at https://community.sonicwall.com/technology-and-support.
- View video tutorials
- Access https://mysonicwall.com
- Learn about SonicWall professional services
- Review SonicWall Support services and warranty information
- Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit https://www.sonicwall.com/support/contact-support.

About This Document

SonicOS Upgrade Guide for the NSv Series Updated - March 2023 Software Version - 7 232-005380-20 Rev B

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For more information, visit https://www.sonicwall.com/legal.

End User Product Agreement

To view the SonicWall End User Product Agreement, go to: https://www.sonicwall.com/legal/end-user-product-agreements/.

Open Source Code

SonicWall Inc. is able to provide a machine-readable copy of open source code with restrictive licenses such as GPL, LGPL, AGPL when applicable per license requirements. To obtain a complete machine-readable copy, send your written requests, along with certified check or money order in the amount of USD 25.00 payable to "SonicWall Inc.", to:

General Public License Source Code Request Attn: Jennifer Anderson 1033 McCarthy Blvd Milpitas, CA 95035