NSA E6500

Getting Started Guide



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your system.



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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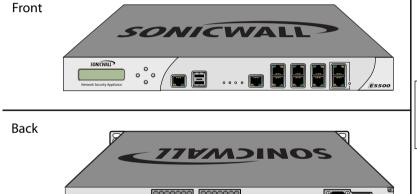
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In this Guide

This *Getting Started Guide* provides instructions for basic installation and configuration of the Dell SonicWALL Network Security Appliance (NSA) E6500 running SonicOS. After you complete this guide, computers on your Local Area Network (LAN) will have secure Internet access.

Dell SonicWALL NSA E6500



Form Factor Dimensions 10 rack-mountable 17 x 16.75 x 1.75 in 43.18 x 42.54 x 4.44 cm Weight WEEE Weight 17.30 lbs/7.9 kg



Note: Always observe proper safety and regulatory guidelines when removing administrator-serviceable parts from the Dell SonicWALL NSA E6500. Proper guidelines can be found in the Product Safety and Regulatory Information, on page 68.

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In this Section:

This section provides pre-configuration information. Review this section before setting up your Dell SonicWALL NSA E6500.

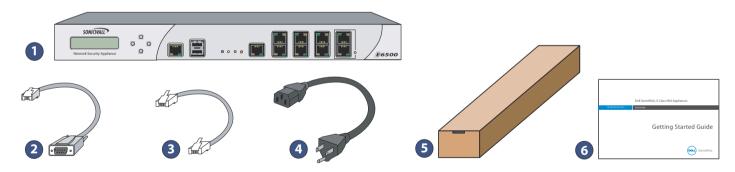
- Check Package Contents page 7
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Check Package Contents

Before setting up your Dell SonicWALL NSA E6500, verify that your package contains the following parts:

- 1. Dell SonicWALL NSA E6500
- 2. DB9 -> RJ45 (CLI) Cable
- 3. Ethernet Cable
- Standard Power Cord*
- Rack Kit
- 6. Getting Started Guide

*The included power cord(s) are approved for use only in specific countries or regions. Before using a power cord, verify that it is rated and approved for use in your location. The power cords are for AC mains installation only.



Missing Items? If any items are missing from your package, contact Dell SonicWALL Support:

Web: http://www.sonicwall.com/us/Support.html

Email: customer service@sonicwall.com

Obtain Configuration Information

Please record and keep for future reference the following setup information:

Registration Information

Serial Number:	Record the serial number found on the bottom panel of your SonicWALL appliance.
Authentication Code:	Record the authentication code found on the bottom panel of your SonicWALL appliance.

Networking Information

LAN IP Address:	Select a static IP address for your SonicWALL appliance that is within the range of your local subnet. If you are unsure, you can use the default IP address (192.168.168.168).
Subnet Mask:	Record the subnet mask for the local subnet where you are installing your SonicWALL appliance.
Ethernet WAN IP Address:	Select a static IP address for your Ethernet WAN. This setting only applies if you are already using an ISP that assigns a static IP address.

Administrator Information

Admin Name:	Select an administrator account name. (default is <i>admin</i>)
Admin Password:	Select an administrator password. (default is <i>password</i>)

Obtain Internet Service Provider (ISP) Information

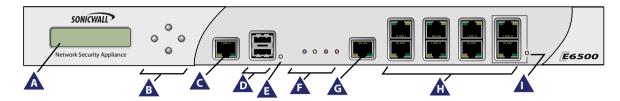
Record the following information about your current Internet service:

If You connect using	Please record
DHCP	No information is usually required: Some providers may require a Host name:
Static IP	IP Address:



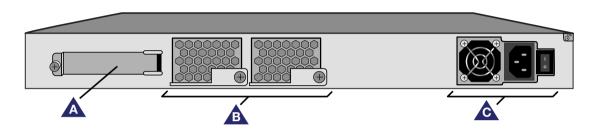
Note: If you are not using one of the network configurations above, refer to the SonicOS Administrator's Guide: http://www.sonicwall.com/us/support.html

The Front Panel



Icon	Feature	Description
A	LCD Screen	Displays the front panel bezel interface which can be used to display status information, make certain configuration changes, restart the appliance or boot the appliance in SafeMode.
В	Control Buttons	Used to navigate the front panel bezel interface.
C	Console Port	Used to access the SonicOS Command Line Interface (CLI) via the DB9 -> RJ45 cable.
lack	USB Ports (2)	Future extension.
Ē	Reset Button	Press and hold the button for a few seconds to manually reset the appliance.
A	LED (from left to right)	Power LED: Indicates the Dell SonicWALL NSA E6500 is powered on. Test LED: Flickering: Indicates the appliance is initializing. Steady blinking: Indicates the appliance is in SafeMode. Solid: Indicates that the appliance is in test mode.
		Alarm LED: Indicates an alarm condition.
		HD LED: Future extension.
G	HA Port	High Availability port.
A	X0-X7 (Copper)	Gigabit Ethernet ports.
Λ	Bypass Status LED	Future extension. Please check Release Notes for future availability.

The Back Panel



Icon	Feature	Description
A	Expansion Bay	Future extension.
В	Fans (2)	The Dell SonicWALL NSA E6500 includes two fans for system temperature control.
c	Power Supply	The Dell SonicWALL NSA E6500 power supply.



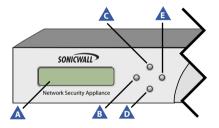
Warning: Potential Hazard from Fan



This manual contains specific warning and caution statements where they apply. Please read the Safety Instructions before use! See the Product Safety and Regulatory Information, on page 68.

Front Bezel Control Features

The Dell SonicWALL Network Security Appliance E-Class is equipped with a front panel bezel interface that allows an administrator to customize certain aspects of the appliance or simply monitor its status without having to log into it through a separate terminal.



Icon	Feature	Description
A	LCD Screen	Displays the front panel bezel interface which can be used to display status information, perform basic configurations, restart the appliance or boot the appliance in SafeMode.
BAAA	Control Buttons	Up, Down, Left and Right buttons, used to navigate the LCD menu system.



Note: Using the front bezel for configuration purposes prior to completing initial setup will bypass the Setup Wizard's automatic launch at startup.

LCD Control Buttons

The LCD interface is controlled by a D-pad, consisting of four buttons: Up, Down, Left, Right. The table below describes the functions of the buttons:

Icon	Button	Navigation Features
44	Up/Down	Selects options and navigates up and down lists.
В	Left	Cancels changes and returns to the previous menu.
A	Right	Confirms choices and enters menus. Also sets the appliance to screen-saver mode when used from the main menu.

Main Menu

Upon booting the LCD display will initially show the Main Menu. The menu is made up of four options:

Status	>	Contains basic status values including system resources, connections and port configuration values.
Configure	>	Allows configuration of basic system values including X0 (LAN) and X1 (WAN) port configuration. Requires system pin for access, default: 76642 .
Restart	>	Provides the ability to restart the appliance. Requires system pin for access.
Safe Mode	>	Provides the ability to restart and boot the appliance into SafeMode. Requires system pin for access.

Use the **Up** and **Down** button to select the menu you wish to enter and click the **Right** button to enter it.

Status

The Status menu allows you to view specific aspects of the appliance. Once selected, the LCD displays the Status List. This list is navigated using the **Up** and **Down** buttons. Status options available include:

- · Appliance serial number
- Firmware / ROM versions
- · Appliance name
- · Date and Time
- Uptime
- · CPU statistical readings
- · Current number of connections
- Interface (X0, X1) network settings
- Interface (X0, X1) data transfer statistics

The **X1 DNS1-3** entries will only be displayed if they have been set from the Configure menu. If their value is still 0.0.0.0 (default value), they will not appear in the Status List.

Configure

The Configure Menu allows you to configure specific aspects of the appliance. Once selected, the LCD will display a PIN request.



Note: The Default PIN is 76642. This number spells SONIC on a phone keypad. The PIN number can be changed from the **System > Administration** page.

All numbers are inputted using the 4 buttons. Select the individual digit field using the Left and Right button and select the desired number using the Up and Down Button. Digits increase incrementally from 0 to 9. Press the Right button to confirm your PIN and enter the Configuration Menu.

The appliance allows the user to navigate in and out of the Configuration Menu without having to re-enter the PIN. However, once the appliance enters Screen-Saver Mode. whether from the 6 second time out or from pressing the **Left** button from the Main Menu, the PIN number must be re-entered again to access the Configuration Menu.

After entering a new value for a setting in the configuration menu, you are asked if you want to commit changes. Using the 4-way D-pad, press the **Right** button for ves or the **Left** button for no



If you choose yes, the screen notifies you that the settings are updated.

Settings updated

Configuration Options

This option allows you to configure network port settings for the appliance. Once selected, the LCD displays a list of configurable options. Status options available include:

- X0 IP and subnet
- X1 Mode
- X1 IP and subnet
- X1 Gateway
- X1 DNS settings (3 available)
- · Restore defaults

The **X1 Mode** can be set to **Static** (default option) or to **DHCP**. If **DHCP** is selected, manual configuration options are not shown for X1 IP, subnet, gateway and DNS.

The **Restore Defaults** option will reset the appliance to default factory settings. If selected it will prompt for confirmation twice before restoring defaults.

If an option is selected but not modified, the appliance will display a message stating that no changes were made and will return the user to the edit value screen. If a change was made, it will prompt the user for confirmation before effecting the change.

Restart

This option allows you to safely restart without resorting to power cycling the appliance. Once selected, the LCD will display a confirmation prompt. Select **Y** for yes and press the **Right** button to confirm. The appliance will reboot.

SafeMode

This option will set the appliance to SafeMode. Once selected, the LCD will display a confirmation prompt. Select **Y** for yes and press the **Right** button to confirm. The appliance will change to SafeMode. Once SafeMode is enabled, the NSA E6500 must be controlled from the Web management interface.

Screen-Saver

If no button is pressed for over 60 seconds, or if the **Left** button is pressed from the Main Menu, the appliance will enter Screen-Saver mode. In this mode, the Status List will cycle, displaying every entry for a few seconds.

If the **Up** or **Down** button is pressed while in Screen-Saver mode, the appliance will display the adjacent status entry.

To exit Screen-Saver mode, press the **Right** button.

Front Bezel Configuration Example

LAN IP Configuration

The Dell SonicWALL NSA E6500 is assigned the default LAN IP of 192,168,168,168. Complete the following steps to change it to 192.168.168.10.

- Press Right to exit screen-saver mode if not at the root menu.
- Press **Down** to select the Configuration entry.



- Press **Right** to enter Configuration Mode.
- Input PIN (76642 by default: SONIC on a phone keypad.)



- Press **Up** or **Down** until the cursor displays 7, press **Right**.
- Press **Up** or **Down** until the cursor displays 6, press **Right**.
- Press Up or Down until the cursor displays 6, press Right.
- Press Up or Down until the cursor displays 4, press Right.
- Press **Up** or **Down** until the cursor displays 2, press **Right**.



10. Press Right.



- 11. Press **Down** until X1 IP is selected (four times).
- 12. Press Right to configure X1 IP.

```
X1 IP:
192,168,168,168
```

13. Edit X1 IP, press **Right** ten times to select the tenth digit.

```
X1 IP:
192.168.168.168
```

- 14. Press **UP** or **Down** until the cursor displays 0.
- 15. Press Right once to select the next digit.
- 16. Press **UP** or **Down** until the cursor displays 1.
- 17. Press Right once to select the next digit.
- 18. Press **Up** or **Down** until the cursor displays 0.

```
X1 IP:
192.168.168.01
```

- 19. Press Right to finish editing the X1 IP.
- 20. Press **Right** again to confirm changes.

In this Section:

This section provides instructions for registering your Dell SonicWALL NSA E6500.

- Before You Register page 19
- Creating a MySonicWALL Account page 20
- Registering and Licensing Your Appliance on MySonicWALL page 20



Note: Registration is an important part of the setup process and is necessary in order to receive the benefits of Dell SonicWALL security services, firmware updates, and technical support.

Before You Register

You need a MySonicWALL account to register the Dell SonicWALL NSA E6500. You can create a new MySonicWALL account on www.mysonicwall.com or directly from the Dell SonicWALL management interface. This section describes how to create an account by using the Web site.

You can use MySonicWALL to register your Dell SonicWALL appliance and activate or purchase licenses for Security Services, Analyzer Reporting and other services, support, or software before you even connect your device. This allows you to prepare for your deployment before making any changes to your existing network.

For a High Availability configuration, you must use MySonicWALL to associate a secondary unit that can share the Security Services licenses with your primary appliance.



Note: Your NSA E6500 does not need to be powered on during account creation or during the MySonicWALL registration and licensing process.



Note: After registering a new Dell SonicWALL appliance on MySonicWALL, you must also register the appliance from the SonicOS management interface. This allows the unit to synchronize with the License Server and to share licenses with the associated appliance, if any. See Accessing the Management Interface, on page 30.

Creating a MySonicWALL Account

To create a MySonicWALL account, perform the following steps:

- In your browser, navigate to www.mysonicwall.com.
- In the login screen, click the Register Now link If you are not a registered user.



- Complete the Registration form and then click **Register**.
- Verify that the information is correct and then click **Submit**.
- In the screen confirming that your account was created, click Continue.

Registering and Licensing Your Appliance on MySonicWALL

This section contains the following subsections:

- Product Registration page 20
- Licensing Security Services and Software page 21
- Registering a Second Appliance as a Backup page 22
- Registration Next Steps page 23

Product Registration

You must register your Dell SonicWALL security appliance on MySonicWALL to enable full functionality.

- Login to your MySonicWALL account. If you do not have an account, you can create one at www.mysonicwall.com. See Creating a MySonicWALL Account, on page 20.
- 2. On the main page, in the Register A Product field, type the appliance serial number and then click Next.
- On the My Products page, under Add New Product, type the friendly name for the appliance, select the Product Group if any, type the authentication code into the appropriate text boxes, and then click Register.
- 4. On the Product Survey page, fill in the requested information and then click Continue

Licensing Security Services and Software

The **Service Management - Associated Products** page in MySonicWALL lists security services, support options, and software such as Analyzer that you can purchase or try with a free trial. For details, click the **Info** button. Your current licenses are indicated in the **Status** column with either a license key or an expiration date. You can purchase additional services now or at a later time.

The following products and services are available for the Dell SonicWALL NSA E6500:

- · Service Bundles:
 - Client/Server Anti-Virus Suite
 - · Comprehensive Gateway Security Suite
- · Gateway Services:
 - Gateway AV, Anti-Spyware, Intrusion Prevention Service, Application Firewall
 - · Content Filtering: Premium Edition
 - · Stateful High Availability (HA) Upgrade
- · Desktop and Server Software:
 - Enforced Client Anti-Virus and Anti-Spyware
 - Global VPN Client
 - · Global VPN Client Enterprise
 - VPN Policy Upgrade (for site-to-site VPN)
 - · Global Management System
 - Analyzer

- · Support Services:
 - Dynamic Support 24x7
 - · Software and Firmware Updates
- Consulting Services:
 - · Implementation Service
 - · GMS Preventive Maintenance Service

To manage your licenses, perform the following tasks:

- In the MySonicWALL Service Management Associated Products page, check the **Applicable Services** table for services that your appliance is already licensed for. Your initial purchase may have included security services or other software bundled with the appliance. These licenses are enabled on MySonicWALL when the appliance is delivered to you.
- If you purchased a service subscription or upgrade from a sales representative separately, you will have an Activation Key for the product. This key is emailed to you after online purchases, or is on the front of the certificate that was included with your purchase. Locate the product on the Services Management page and click Enter Key in that row.
- In the Activate Service page, type or paste your key into the Activation Key field and then click Submit. Depending on the product, you will see an Expire date or a license key string in the Status column when you return to the Service Management page.

- 4. To license a product of service, do one of the following:
 - To try a Free Trial of a service, click **Try** in the Service Management page. A 30-day free trial is immediately activated. The Status page displays relevant information including the activation status, expiration date, number of licenses, and links to installation instructions or other documentation. The Service Management page is also updated to show the status of the free trial.
 - To purchase a product or service, click Buy Now.
- In the Buy Service page, type the number of licenses you want in the Quantity column for either the 1 year, 2 year, or 3 year license row and then click Add to Cart.
- In the **Checkout** page, follow the instructions to complete your purchase.

The MySonicWALL server will generate a license key for the product. The key is added to the license keyset. You can use the license keyset to manually apply all active licenses to your appliance.

Registering a Second Appliance as a Backup

To ensure that your network stays protected if your Dell SonicWALL NSA E6500 has an unexpected failure, you can associate a second appliance with the first in a high availability (HA) pair. You can associate the two appliances as part of the registration process on MySonicWALL. The second appliance will automatically share the Security Services licenses of the primary appliance.



Note: In order so setup an HA pair, you must use two NSA appliances of the same model.

To register a second appliance and associate it with the primary, perform the following steps:

- Login to your MySonicWALL account.
- 2. On the main page, in the Register A Product field, type the appliance serial number and then click Next.
- 3. On the My Products page, under Add New Product, type the friendly name for the appliance, select the Product Group if any, type the authentication code into the appropriate text boxes, and then click Register.
- 4. On the Product Survey page, fill in the requested information and then click Continue. The Create Association Page is displayed.

- On the Create Association Page, click the radio button to select the primary unit for this association, and then click Continue. The screen only displays units that are not already associated with other appliances.
- 6. On the Service Management Associated Products page, scroll down to the Associated Products section to verify that your product registered successfully. You should see the HA Primary unit listed in the Parent Product section, as well as a Status value of 0 in the Associated Products / Child Product Type section.
- 7. Although the Stateful High Availability Upgrade and all the Security Services licenses can be shared with the HA Primary unit, you must purchase a separate Analyzer license for the secondary unit. This will ensure that you do not miss any reporting data in the event of a failover. You must also purchase a separate support license for the secondary unit. Under DESKTOP & SERVER SOFTWARE, click **Buy Now** for Analyzer. Follow the instructions to complete the purchase.

To return to the Service Management - Associated Products page, click the serial number link for this appliance.

Registration Next Steps

Your Dell SonicWALL NSA E6500 or E6500 HA Pair is now registered and licensed on MySonicWALL. To complete the registration process in SonicOS and for more information, see:

- Accessing the Management Interface page 30
- Activating Licenses in SonicOS page 33
- Upgrading Firmware on Your Dell SonicWALL Appliance page 33

In this Section:

This section provides detailed overviews of advanced deployment scenarios as well as configuration instructions for connecting your Dell SonicWALL NSA F6500.

- Selecting a Deployment Scenario page 25
- Initial Setup page 29
- Configuring a Stateful HA Pair page 36
- Configuring L2 Bridge Mode page 42

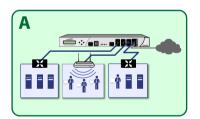


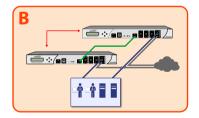
Tip: Before completing this section, fill out the information in Obtain Configuration Information, on page 8. You will need to enter this information during the Setup Wizard.

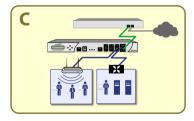
Selecting a Deployment Scenario

Before continuing, select a deployment scenario that best fits your network scheme. Reference the table below and the diagrams on the following pages for help in choosing a scenario.

Current Gateway Configuration	New Gateway Configuration	Use Scenario
No gateway appliance	Single NSA appliance as a primary gateway.	A - NAT/Route Mode Gateway
	Pair of NSA appliances for high availability.	B - NAT with State Sync Pair
Existing Internet gateway appliance	NSA appliance as replacement for an existing gateway appliance.	A - NAT/Route Mode Gateway
	NSA appliance in addition to an existing gateway appliance.	C - L2 Bridge Mode
Existing Dell SonicWALL gateway appliance	NSA appliance in addition to an existing Dell SonicWALL gateway appliance.	B - NAT with State Sync Pair







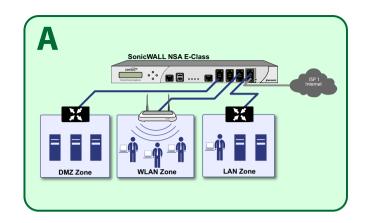
- Scenario A: NAT/Route Mode Gateway page 26
- Scenario B: State Sync Pair in NAT/Route Mode page 27
- Scenario C: L2 Bridge Mode page 28

Scenario A: NAT/Route Mode Gateway

For new network installations or installations where the Dell. SonicWALL NSA E6500 is replacing the existing network gateway.

In this scenario, the NSA E6500 is configured in NAT/Route mode to operate as a single network gateway. Two Internet sources may be routed through the appliance for load balancing and failover purposes. Because only a single appliance is deployed, the added benefits of high availability with a stateful synchronized pair are not available.

To set up this scenario, follow the steps covered in Initial Setup, on page 29. If you have completed setup procedures in that section, continue to Additional Deployment Configuration, on page 46, to complete configuration.



Scenario B: State Sync Pair in NAT/Route Mode

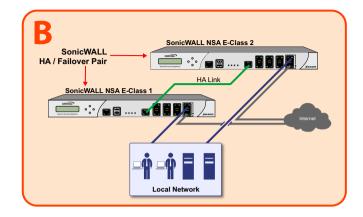
For network installations with two Dell SonicWALL NSA E6500 appliances configured as a stateful synchronized pair for redundant high-availability networking.

In this scenario, one NSA E6500 operates as the primary gateway device and the other NSA E6500 is in passive mode. All network connection information is synchronized between the two devices so that the secondary appliance can seamlessly switch to active mode without dropping any connections if the primary device loses connectivity.



Note: Active/Active pair functionality is also available for high-availability deployments. For more information on the benefits and setup instruction for Active/Active pair, see the "SonicOS Active/Active Feature Module" at http://www.sonicwall.com/us/support.html

To set up this scenario, follow the steps covered in Initial Setup, on page 29 and Configuring a Stateful HA Pair, on page 36. If you have completed setup procedures in those sections, continue to Additional Deployment Configuration, on page 46, to complete configuration.



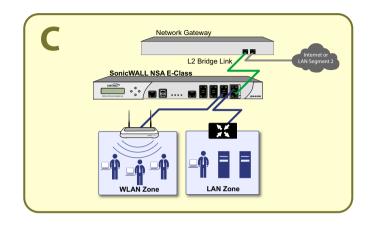
Scenario C: L2 Bridge Mode

For network installations where the Dell SonicWALL NSA E6500 is running in tandem with an existing network gateway.

In this scenario, the original gateway is maintained. The NSA E6500 is integrated seamlessly into the existing network, providing the benefits of deep packet inspection and comprehensive security services on all network traffic.

L2 Bridge Mode employs a secure learning bridge architecture, enabling it to pass and inspect traffic types that cannot be handled by many other methods of transparent security appliance integration. Using L2 Bridge Mode, a Dell SonicWALL security appliance can be non-disruptively added to any Ethernet network to provide in-line deep-packet inspection for all traversing IPv4 TCP and UDP traffic. L2 Bridge Mode can pass all traffic types, including IEEE 802.1q VLANs, Spanning Tree Protocol, multicast, broadcast and IPv6.

To set up this scenario, follow the steps covered in Initial Setup, on page 29 and Configuring L2 Bridge Mode, on page 42. If you have completed setup procedures in those sections, continue to Additional Deployment Configuration, on page 46, to complete configuration.



Initial Setup

This section provides initial configuration instructions for connecting your Dell SonicWALL NSA E6500. Follow these steps if you are setting up Scenario A, B, or C.

This section contains the following subsections:

- System Requirements page 29
- Connecting the WAN Port page 29
- Connecting the LAN Port page 30
- Applying Power page 30
- Accessing the Management Interface page 30
- Accessing the Setup Wizard page 31
- Connecting to Your Network page 32
- Testing Your Connection page 32
- Activating Licenses in SonicOS page 33
- Upgrading Firmware on Your Dell SonicWALL Appliance page 33

System Requirements

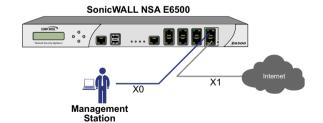
Before you begin the setup process, check to verify that you have:

- · An Internet connection
- A Web browser supporting Java Script and HTTP uploads

	Accepted Browser	Browser Version Number
(2)	Internet Explorer	8.0, 9.0, and 10.0 (do not use compatibility mode)
3	Firefox	16.0 or higher
0	Chrome	18.0 or higher
Ò	Safari	5.0 or higher for MacOS

Connecting the WAN Port

- Connect one end of an Ethernet cable to your Internet connection.
- Connect the other end of the cable to the X1 (WAN) port on vour NSA E6500.



Connecting the LAN Port

- Connect one end of the provided Ethernet cable to the computer you are using to manage the NSA E6500.
- Connect the other end of the cable to the X0 port on your NSA E6500.
 The Link LED above the X0 (LAN) port will light up in green or amber depending on the link throughput speed, indicating an active connection:
 - · Amber indicates 1 Gbps
 - · Green indicates 100 Mbps
 - Unlit while the right (activity) LED is illuminated indicates 10 Mbps

Applying Power

- 1. Plug the power cord into an appropriate power outlet.
- Turn on the power switch on the rear of the appliance next to the power cords.

The Power LEDs on the front panel light up blue when you plug in the Dell SonicWALL NSA E6500. The Alarm LED may light up and the Test LED will light up and may blink while the appliance performs a series of diagnostic tests.

When the Power LEDs are lit and the Test LED is no longer lit, the NSA E6500 is ready for configuration. This typically occurs within a few minutes of applying power to the appliance.



Warning: When disconnecting power, be sure to remove both power cords from the unit.



Note: If the Test or Alarm LEDs remain lit after the NSA E6500 has booted, restart the appliance by cycling power.

Accessing the Management Interface

The computer you use to manage the Dell SonicWALL NSA E6500 must be set up to accept a dynamic IP address, or it must have an unused IP address on the 192.168.168.x/24 subnet, such as 192.168.168.20.

To access the SonicOS Web-based management interface:

Start your Web browser.



Note: Disable pop-up blocking software or add the management IP address http://192.168.168.168 to your pop-up blocker's allow list.

Enter http://192.168.168.168 (the default LAN management IP address) in the Location or Address field.

- The SonicWALL Setup Wizard launches and guides you through the configuration and setup of your Dell SonicWALL NSA E6500.
 - The **Setup Wizard** launches upon initial loading of the NSA E6500 management interface.
- Follow the on-screen prompts to complete the Setup Wizard.

Depending on the changes made during your setup configuration, the appliance may restart.

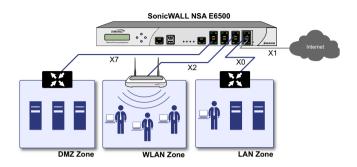
Accessing the Setup Wizard

If you cannot connect to the Dell SonicWALL NSA E6500 or the **Setup Wizard** does not display, verify the following configurations:

- Did you correctly enter the Dell SonicWALL NSA E6500 management IP address in your Web browser?
- Are the Local Area Connection settings on your computer set to use DHCP or set to a static IP address on the 192.168.168.x/24 subnet?
- Do you have the Ethernet cable connected to your computer and to the X0 (LAN) port on your appliance?
- Is the connector clip on your network cable properly seated in the port of the security appliance?

- Some browsers may not launch the Setup Wizard automatically. In this case:
 - Log into the NSA E6500 using "admin" as the user name and "password" as the password.
 - Click the **Wizards** button on the **System > Status** page.
 - Select Setup Wizard and click Next to launch the Setup Wizard.
 - Some pop-up blockers may prevent the launch of the Setup Wizard. You can temporarily disable your pop-up blocker, or add the management IP address of your SonicWALL appliance (192.168.168.168 by default) to your pop-up blocker's allow list.

Connecting to Your Network



The Dell SonicWALL NSA E6500 ships with the internal DHCP server active on the LAN port. However, if a DHCP server is already active on your LAN, the Dell SonicWALL will disable its own DHCP server to prevent conflicts.

As shown in the illustration on this page, ports X1 and X0 are preconfigured as WAN and LAN respectively. The remaining ports (X2-X7) can be configured to meet the needs of your network. In the graphical example on this page, the zones are: X1: WAN, X0: LAN, X2: WLAN, X7: DMZ.

Refer to the *SonicOS Administrator's Guide* for advanced configuration deployments.

Testing Your Connection

- After you exit the Setup Wizard, the login page reappears. Log back into the Management Interface and verify your IP and WAN connection.
- Ping a site outside of your local network, such as http://www.sonicwall.com.
- Open another Web browser and navigate to: http://www.sonicwall.com.
 - If you can view the Dell SonicWALL home page, you have configured your Dell SonicWALL NSA E6500 correctly. If you cannot view the Dell SonicWALL home page, renew your management station DHCP address.
- If you still cannot view a Web page, try one of these solutions:
 - Restart your Management Station to accept new network settings from the DHCP server in the SonicWALL appliance.
 - Restart your Internet Router to communicate with the DHCP Client in the SonicWALL appliance.

Activating Licenses in SonicOS

After completing the registration process in SonicOS, you must perform the following tasks to activate your licenses and enable your licensed services from within the SonicOS user interface:

- · Activate licenses
- · Enable security services
- Apply services to network zones

This section describes how to activate your licenses. For instructions on how to enable security services and apply services to network zones, see the following sections:

- Enabling Security Services in SonicOS page 51
- Applying Security Services to Zones page 52

To activate licensed services in SonicOS, you can enter the license keyset manually, or you can synchronize all licenses at once with MySonicWALL.

The Setup Wizard automatically synchronizes all licenses with MySonicWALL if the appliance has Internet access during initial setup. If initial setup is already complete, you can synchronize licenses from the **System > Licenses** page.

Manual upgrade using the license keyset is useful when your appliance is not connected to the Internet. The license keyset includes all license keys for services or software enabled on MySonicWALL. It is available on MySonicWALL at the top of the Service Management page for your SonicWALL appliance.

To activate licenses in SonicOS:

- Navigate to the **System > Licenses** page.
- Under Manage Security Services Online do one of the following:
 - · Enter your MySonicWALL credentials, then click the Synchronize button to synchronize licenses with MvSonicWALL.
 - Paste the license keyset into the Manual Upgrade Kevset field.
- Click Submit.

Upgrading Firmware on Your Dell SonicWALL Appliance

The following procedures are for upgrading an existing SonicOS image to a newer version:

- Obtaining the Latest Firmware page 33
- Saving a Backup Copy of Your Preferences page 34
- Upgrading the Firmware page 34
- Using SafeMode to Upgrade Firmware page 35

Obtaining the Latest Firmware

- To obtain a new SonicOS firmware image file for your SonicWALL appliance, connect to your MySonicWALL account at http://www.mysonicwall.com.
- Copy the new SonicOS image file to a convenient location on your management station.

Saving a Backup Copy of Your Preferences

Before beginning the update process, make a system backup of your Dell SonicWALL appliance configuration settings. The backup feature saves a copy of the current configuration settings on your Dell SonicWALL appliance, protecting all your existing settings in the event that it becomes necessary to return to a previous configuration state.

In addition to using the backup feature to save your current configuration state to the Dell SonicWALL appliance, you can export the configuration preferences file to a directory on your local management station. This file serves as an external backup of the configuration preferences, and can be imported back into the Dell SonicWALL appliance.

Perform the following procedures to save a backup of your configuration settings and export them to a file on your local management station:

- On the **System > Settings** page, click **Create Backup**. Your configuration preferences are saved. The System Backup entry is displayed in the Firmware Management table.
- To export your settings to a local file, click **Export Settings**. A popup window displays the name of the saved file.

Upgrading the Firmware

Perform the following steps to upload new firmware to your Dell SonicWALL appliance and use your current configuration settings upon startup.



Note: The appliance must be properly registered before it can be upgraded. For more information, refer to Registering and Licensing Your Appliance on MySonicWALL, on page 20.

- Download the SonicOS firmware image file from MySonicWALL and save it to a location on your local computer.
- On the System > Settings page, click Upload New **Firmware**
- Browse to the location where you saved the SonicOS firmware image file, select the file and click the Upload button.
- 4. On the **System > Settings** page, click the **Boot** icon in the row for Uploaded Firmware - New! or Uploaded Firmware with Factory Default Settings - New!.
- In the confirmation dialog box, click **OK**. The SonicWALL appliance restarts and then displays the login page.
- Enter your user name and password. Your new SonicOS image version information is listed on the System > Settings page.

Using SafeMode to Upgrade Firmware

If you are unable to connect to the Dell SonicWALL appliance's management interface, you can restart the appliance in SafeMode. The SafeMode feature allows you to recover quickly from uncertain configuration states with a simplified management interface that includes the same settings available on the **System** > **Settings** page.

To use SafeMode to upgrade firmware on the Dell SonicWALL appliance, perform the following steps:

- Connect your computer to the X0 port on the appliance and configure your IP address with an address on the 192.168.168.0/24 subnet, such as 192.168.168.20.
- To configure the appliance in SafeMode, perform one of the following methods:
 - Use a narrow, straight object, like a straightened paper clip or a toothpick, to press and hold the **reset** button on the front of the security appliance for more than 20 seconds. The **reset** button is in a small hole next to the USB ports.
 - Use the LCD control buttons on the front bezel to set the appliance to SafeMode. Once selected, the LCD displays a confirmation prompt. Select Y and press the Right button to confirm. The Dell SonicWALL appliance changes to SafeMode.

The Test light starts blinking when the Dell SonicWALL appliance has rebooted into SafeMode.

- Point the Web browser on your computer to 192.168.168.168. The SafeMode management interface displays.
- 4. If you have made any configuration changes to the security appliance, select the Create Backup On Next Boot checkbox to make a backup copy of your current settings. Your settings will be saved when the appliance restarts.
- Click Upload New Firmware, and then browse to the location where you saved the SonicOS firmware image, select the file and click the Upload button.
- 6. Select the boot icon in the row for one of the following:
 - Uploaded Firmware New!
 Use this option to restart the appliance with your current configuration settings.
 - Uploaded Firmware with Factory Default Settings New!
 Use this option to restart the appliance with default configuration settings.
- 7. In the confirmation dialog box, click **OK** to proceed.

After successfully booting the firmware, the login screen is displayed. If you booted with factory default settings, enter the default user name and password (admin / password) to access the Dell SonicWALL management interface.

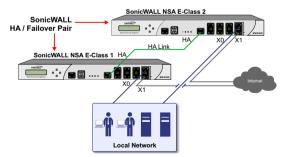
If You Are Following Scenario	Proceed to section:
A - NAT/Route Mode Gateway	Additional Deployment Configuration - page 46
B - NAT with State Sync Pair	Configuring a Stateful HA Pair - page 36
C - L2 Bridge Mode	Configuring L2 Bridge Mode - page 42

Configuring a Stateful HA Pair

This section provides instructions for configuring a pair of Dell SonicWALL NSA E6500 appliances for high availability (HA). This section is relevant to administrators following deployment Scenario B.

This section contains the following subsections:

- Initial High Availability Setup page 37
- Configuring High Availability page 37
- Configuring Advanced HA Settings page 38
- Configuring HA Monitoring Settings page 39
- Synchronizing Settings page 40
- HA License Configuration Overview page 41
- Associating Pre-Registered Appliances page 42
- Configuring L2 Bridge Mode page 42



Initial High Availability Setup

Before you begin the configuration of HA on the primary Dell SonicWALL appliance, perform the following setup:

- On the bottom panel of the secondary Dell SonicWALL appliance, locate the serial number and write the number down. You need to enter this number in the High Availability
 Settings page.
- Verify that the primary appliance and secondary appliance appliances are registered, running the same SonicOS versions.
- Make sure the primary and secondary appliances' LAN, WAN and other interfaces are properly configured for failover.
- Connect the HA ports on the primary and secondary appliances with a CAT6-rated crossover cable (red crossover cable). The primary and secondary appliances must have a dedicated connection using the HA interface. Dell SonicWALL recommends cross-connecting the two together using a CAT 6 crossover Ethernet cable, but a connection using a dedicated 100Mbps hub/switch is also valid.
- Power up the primary appliance, and then power up the secondary appliance.
- Do not make any configuration changes to the primary's HA interface; the High Availability configuration in an upcoming step takes care of this issue. When done, disconnect the workstation.

Configuring High Availability

The first task in setting up HA after initial setup is configuring the **High Availability** > **Settings** page on the primary Dell SonicWALL appliance. Once you configure HA on the primary appliance, it communicates the settings to the secondary appliance.

To configure HA on the primary SonicWALL, perform the following steps:

- Navigate to the High Availability > Settings page.
- 2. Select the Enable High Availability checkbox.
- 3. Under **SonicWALL Address Settings**, type in the serial number for the secondary SonicWALL appliance.

You can find the serial number on the bottom of the Dell SonicWALL appliance, or in the **System > Status** screen of the secondary unit. The serial number for the primary Dell SonicWALL appliance is automatically populated.

Click Apply to retain these settings.

Configuring Advanced HA Settings

- Navigate to the **High Availability** > **Advanced** page.
- To configure Stateful HA, select Enable Stateful Synchronization. A dialog box is displayed with recommended settings for the Heartbeat Interval and **Probe Interval** fields. The settings it shows are minimum recommended values. Lower values may cause unnecessary failovers, especially when the appliance is under a heavy load. You can use higher values if your SonicWALL handles a lot of network traffic. Click **OK**.
- To cause the HA pair to change back to the original primary unit when it becomes available after a failover, select the Enable Preempt Mode checkbox.
- To backup the firmware and settings when you upgrade the firmware version, select Generate/Overwrite Backup Firmware and Settings When Upgrading Firmware.
- Select the Enable Virtual MAC checkbox. Virtual MAC allows the primary and secondary appliances to share a single MAC address. This greatly simplifies the process of updating network ARP tables and caches when a failover occurs. Only the WAN switch that the two appliances are connected to needs to be notified. All outside devices will continue to route to the single shared MAC address.
- Optionally adjust the **Heartbeat Interval** to control how often the two units communicate. This timer is the length of time between status checks. By default this timer is set to 5000 milliseconds, the minimum recommended value is 1000 milliseconds. Using a longer interval will result in the appliance taking more time to detect when/if failures have occurred. Less than this may cause unnecessary failovers, especially when the appliance is under a heavy load.

- 7 Set the **Probe Interval** for the interval in seconds between communication with upstream or downstream systems. This timer controls the path monitoring speed. Path monitoring sends pings to specified IP addresses to monitor that the network critical path is still reachable. The default is 20 seconds, and the allowed range is from 5 to 255 seconds. It is recommended that you set the interval for at least 5 seconds. You can set the Probe IP Address(es) on the High Availability > Monitoring screen.
- In the **Probe Count** text-field, enter the desired number of consecutive probes before the appliance considers the network critical path to be reachable or broken. The minimum and default is 3 probes, and the maximum is 10.
- Typically, Dell SonicWALL recommends leaving the Failover Trigger Level (missed heart beats). Election Delay Time (seconds), and Dynamic Route Hold-Down Time fields to their default settings. These fields can be tuned later as necessary for your specific network environment.
 - The Failover Trigger Level (missed heart beats) timer is the number of heartbeats the appliance will miss before failing over. By default, this time is set to 5 missed heart beats. This timer is linked to the Heartbeat Interval timer for example, if you set the Heartbeat Interval to 10 seconds, and the Failover Trigger Level timer to 5, it will be 50 seconds before the appliance fails over.

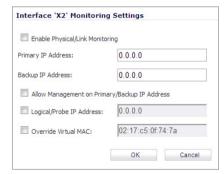
- The Election Delay Time can be used to specify an amount of time the appliance will wait to consider an interface up and stable before one of them takes the primary role. This is useful when dealing with switch ports that have a spanning-tree delay set
- The Dynamic Route Hold-Down Time setting is used when a failover occurs on a HA pair that is using either RIP or OSPF dynamic routing. When a failover occurs, Dynamic Route Hold-Down Time is the number of seconds the newly-active appliance keeps the dynamic routes it had previously learned in its route table. During this time, the newly-active appliance relearns the dynamic routes in the network. When the Dynamic Route Hold-Down Time duration expires, it deletes the old routes and implements the new routes it has learned from RIP or OSPF. The default value is 45 seconds. In large or complex networks, a larger value may improve network stability during a failover.
- Click the Include Certificates/Keys checkbox to have the appliances synchronize all certificates and keys.
- 11. Click **Synchronize Settings** to synchronize the settings between the primary and secondary appliances.
- 12. Click Synchronize Firmware if you previously uploaded new firmware to your Primary unit while the Secondary unit was offline, and it is now online and ready to upgrade to the new firmware. Synchronize Firmware is typically used after taking your Secondary appliance offline while you test a new firmware version on the Primary unit before upgrading both units to it.
- 13. Click **Accept** to retain the settings on this screen.

Configuring HA Monitoring Settings

After configuring the HA settings, you need to configure the Monitoring settings for the LAN or WAN. This includes configuring unique IP addresses for each appliance in the Stateful HA pair. You will need to log into the appliances using these IP addresses in order to complete the registration process from within SonicOS, which will allow license sharing and synchronization.

Navigate to the **High Availability** > **Monitoring** page to configure the Monitoring settings.

 Click the Configure icon of the Interface for which you want to edit settings. The Edit HA Monitoring dialog box displays.



In the Primary IP Address field, enter the unique LAN or WAN management IP address of the Primary appliance.

- In the Secondary IP Address field, enter the unique LAN or WAN management IP address of the Secondary appliance.
- Select the Allow Management on Primary/Secondary IP Address checkbox
- Optionally Enable Physical / Link Monitoring by selecting the checkbox.
- Optionally enable Logical / Probe IP Address by selecting the checkbox and providing the IP Address of the target host.
- Click OK

You can repeat these steps to configure Monitoring on other interfaces.

For more information regarding the optional settings, see the SonicOS Administrator's Guide.

Synchronizing Settings

Once you have configured the HA setting on the primary Dell SonicWALL appliance, click the **Synchronize Settings** button. You should see a HA Peer Firewall has been updated message at the bottom of the management interface page. Also note that the management interface displays **Logged Into:** Primary SonicWALL Status: Active in the upper-right-hand corner.

By default, the Include Certificate/Keys setting is enabled. This specifies that Certificates, CRLs and associated settings (such as CRL auto-import URLs and OCSP settings) are synchronized between the primary and secondary units. When

Local Certificates are copied to the secondary unit, the associated Private Keys are also copied. Because the connection between the primary and secondary units is typically protected, this is generally not a security concern.



Note: A compromise between the convenience of synchronizing Certificates and the added security of not synchronizing Certificates is to temporarily enable the Include Certificate/Keys setting and manually synchronize the settings, and then disable Include Certificate/Kevs.

To verify that primary and secondary Dell SonicWALL appliances are functioning correctly, wait a few minutes, then power off the primary device. The secondary appliance should quickly take over.

From your management workstation, test connectivity through the secondary appliance by accessing a site on the public Internet – note that the secondary appliance, when active, assumes the complete identity of the primary appliance, including its IP addresses and Ethernet MAC addresses.

Log into the secondary appliance's unique LAN IP address. The management interface should now display Logged Into: Backup SonicWALL Status: Active in the upper-right-hand corner.

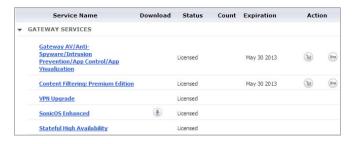
Now, power the primary appliance back on, wait a few minutes, then log back into the management interface. If stateful synchronization is enabled (automatically disabling preempt mode), the management GUI should still display **Logged Into: Backup SonicWALL Status: Active** in the upper-right-hand corner.

If you are using the Monitor Interfaces feature, experiment with disconnecting each monitored link to ensure correct configuration.

HA License Configuration Overview

You can configure HA license synchronization by associating two Dell SonicWALL appliances as HA primary and HF secondary on MySonicWALL. Note that the secondary appliance of your HA pair is referred to as the HF Secondary unit on MySonicWALL.

You must purchase a single set of security services licenses for the HA primary appliance. To use Stateful HA, you must first activate the Stateful High Availability Upgrade license for the primary unit in SonicOS. This is automatic if your appliance is connected to the Internet. See Registering and Licensing Your Appliance on MySonicWALL, on page 20.



License synchronization is used during HA so that the secondary appliance can maintain the same level of network protection provided before the failover. To enable HA, you can use the SonicOS UI to configure your two appliances as a HA pair in Active/Idle mode.

MySonicWALL provides several methods of associating the two appliances. You can start by registering a new appliance, and then choosing an already-registered unit to associate it with. You can associate two units that are both already registered. Or, you can select a registered unit and then add a new appliance with which to associate it.



Note: After registering new Dell SonicWALL appliances on MvSonicWALL, vou must also register each appliance from the SonicOS management interface by logging into the unique IP address assigned on the High Availability > Monitoring page and then clicking the registration link on the System > Status page. This allows each unit to synchronize with the license server and share licenses with the associated appliance.

Associating Pre-Registered Appliances

To associate two already-registered Dell SonicWALL appliances so that they can use HA license synchronization, perform the following steps:

- Login to MySonicWALL.
- In the left navigation bar, click My Products.
- On the My Products page, under Registered Products. scroll down to find the appliance that you want to use as the parent, or primary, unit. Click the product name or serial number.
- On the Service Management Associated Products page. scroll down to the Associated Products section.
- Under Associated Products, click HF Secondary.

- 6. On the My Product Associated Products page, in the text boxes under Associate New Products, type the serial number and the friendly name of the appliance that you want to associate as the child/secondary/secondary unit.
- 7. Select the group from the **Product Group** drop-down list. The product group setting specifies the MySonicWALL users who can upgrade or modify the appliance.
- Click Register.

If You Are Following Scenario	Proceed to:
,	Additional Deployment Configuration - page 46

Configuring L2 Bridge Mode

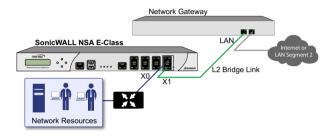
This section provides instructions to configure the Dell SonicWALL NSA E6500 appliance in tandem with an existing Internet gateway device. This section is relevant to users following deployment scenario C.

This section contains the following subsections:

- Connection Overview page 43
- Configuring the Primary Bridge Interface page 43
- Configuring the Secondary Bridge Interface page 43

Connection Overview

Connect the X1 port on your Dell SonicWALL NSA E6500 to the LAN port on your existing Internet gateway device. Then connect the X0 port on your NSA E6500 to your LAN.



Configuring the Primary Bridge Interface

The primary bridge interface is your existing Internet gateway device. The only step involved in setting up your primary bridge interface is to ensure that the WAN interface is configured for a static IP address. You will need this static IP address when configuring the secondary bridge.

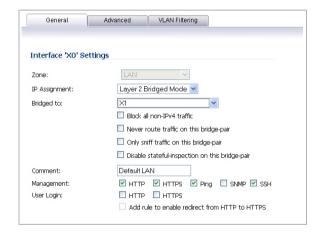


Note: The primary bridge interface must have a static IP assignment.

Configuring the Secondary Bridge Interface

Complete the following steps to configure the secondary bridge interface on the NSA F6500:

- Navigate to the **Network > Interfaces** page from the navigation panel.
- Click the Configure icon in the right column of the X0 (LAN) interface.



- In the IP Assignment drop-down, select Layer 2 Bridged Mode.
- 4. In the **Bridged to** drop-down, select the **X1** interface.
- Configure management options (HTTP, HTTPS, Ping, SNMP, SSH, User logins, or HTTP redirects).



Note: Do not enable Never route traffic on the bridge-pair unless your network topology requires that all packets entering the L2 Bridge remain on the L2 Bridge segments.

> You may optionally enable the Block all non-IPv4 traffic setting to prevent the L2 bridge from passing non-IPv4 traffic.

If You Are Following Scenario	Proceed to Section:
C - L2 Bridge Mode	Additional Deployment Configuration - page 46

In this Section:

This section provides basic configuration information to begin building network security policies for your deployment. This section also contains several SonicOS diagnostic tools and a deployment configuration reference checklist.

- An Introduction to Zones and Interfaces page 47
- Creating a NAT Policy page 48
- Enabling Security Services in SonicOS page 51
- Applying Security Services to Zones page 52
- Troubleshooting Diagnostic Tools page 52
- Deployment Configuration Reference Checklist page 54

An Introduction to Zones and Interfaces

Zones split a network infrastructure into logical areas, each with its own set of usage rules, security services, and policies. Most networks include multiple definitions for zones, including those for trusted, untrusted, public, encrypted, and wireless traffic.

Some basic (default) zone types include:

WAN— Untrusted resources outside your local network

LAN— Trusted local network resources

WLAN— Local wireless network resources originating from Dell SonicWALL wireless enabled appliances such as SonicPoints.

DMZ— Local network assets that must be accessible from the WAN zone (such as Web and FTP servers)

VPN— Trusted endpoints in an otherwise untrusted zone, such as the WAN

The security features and settings configured for the zones are enforced by binding a zone to one or more physical interfaces (such as, X0, X1, or X2) on the Dell SonicWALL appliance.

The X1 and X0 interfaces are preconfigured as WAN and LAN respectively. The remaining ports can be configured to meet the needs of your network, either by using basic zone types (WAN, LAN, WLAN, DMZ, VPN) or configuring a custom zone type to fit your network requirements (for example: Gaming Console Zone, Wireless Printer Zone, Wireless Ticket Scanner Zone).

A Zone is a logical grouping of one or more interfaces designed to make management, such as the definition and application of access rules, a simpler and more intuitive process than following a strict physical interface scheme.

By default, the Dell SonicWALL appliance's stateful packet inspection allows all communication from the LAN to the Internet, and blocks all traffic from the Internet to the LAN. The following behaviors are defined by the "Default" stateful inspection packet access rule enabled in the Dell SonicWALL appliance:

Originating Zone	Destination Zone	Action
LAN, WLAN	WAN, DMZ	Allow
DMZ	WAN	Allow
WAN	DMZ	Deny
WAN and DMZ	LAN or WLAN	Deny

Creating a NAT Policy

The Network Address Translation (NAT) engine in SonicOS allows users to define granular NAT policies for their incoming and outgoing traffic. By default, the Dell SonicWALL appliance has a preconfigured NAT policy to allow all systems connected to the LAN interface to perform Many-to-One NAT using the IP address of the WAN interface, and a policy to not perform NAT when traffic crosses between the other interfaces.

You can create multiple NAT policies on a Dell SonicWALL appliance running SonicOS for the same object – for instance, you can specify that an internal server use one IP address when accessing Telnet servers, and to use a totally different IP address for all other protocols. Because the NAT engine in SonicOS supports inbound port forwarding, it is possible to hide multiple internal servers off the WAN IP address of the Dell SonicWALL appliance. The more granular the NAT Policy, the more precedence it takes.

Before configuring NAT Policies, you must create all Address Objects associated with the policy. For instance, if you are creating a One-to-One NAT policy, first create Address Objects for your public and private IP addresses.

Address Objects are one of four object classes (Address, User, Service and Schedule) in SonicOS. These Address Objects allow for entities to be defined one time, and to be re-used in multiple referential instances throughout the SonicOS interface.

For example, take an internal Web server with an IP address of 67.115.118.80. Rather than repeatedly typing in the IP address when constructing Access Rules or NAT Policies. Address Objects allow you to create a single entity called "My Web Server" as a Host Address Object with an IP address of 67.115.118.80. This Address Object. "My Web Server", can then be easily and efficiently selected from a drop-down menu in any configuration screen that employs Address Objects as a defining criterion.

Since there are multiple types of network address expressions, there are currently the following Address Objects types:

- Host— Host Address Objects define a single host by its IP address.
- · Range— Range Address Objects define a range of contiguous IP addresses.
- · Network— Network Address Objects are like Range objects in that they comprise multiple hosts, but rather than being bound by specified upper and lower range delimiters, the boundaries are defined by a valid netmask.
- MAC Address
 — MAC Address Objects allow for the identification of a host by its hardware address or MAC (Media Access Control) address.
- FQDN Address— FQDN Address Objects allow for the identification of a host by its Fully Qualified Domain Names (FQDN), such as www.sonicwall.com.

SonicOS provides a number of Default Address Objects that cannot be modified or deleted. You can use the Default Address Objects when creating a NAT policy, or you can create custom Address Objects to use. All Address Objects are available in the drop-down lists when creating a NAT policy.

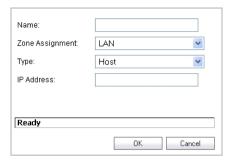
Configuring Address Objects

The **Network > Address Objects** page allows you to create and manage your Address Objects. You can view Address Objects in the following ways using the **View Style** menu:

- All Address Objects— displays all configured Address Objects.
- Custom Address Objects— displays Address Objects with custom properties.
- Default Address Objects— displays Address Objects configured by default on the Dell SonicWALL appliance.

To add an Address Object:

- 1. Navigate to the **Network > Address** Objects page.
- 2. Below the Address Objects table, click Add.
- In the Add Address Object dialog box, enter a name for the Address Object in the Name field.



- Select the zone to assign to the Address Object from the Zone Assignment drop-down list.
- Select Host, Range, Network, MAC, or FQDN from the Type menu.
 - If you selected Host, enter the IP address in the IP Address field
 - If you selected Range, enter the starting and ending IP addresses in the Starting IP Address and Ending IP Address fields
 - If you selected Network, enter the network IP address and netmask in the Network and Netmask fields.
 - If you selected MAC, enter the MAC address and netmask in the Network and MAC Address field.
 - If you selected FQDN, enter the domain name for the individual site or range of sites (with a wildcard) in the FQDN field.
- 6. Click OK.

Configuring NAT Policies

NAT policies allow you to control Network Address Translation based on matching combinations of Source IP address, Destination IP address and Destination Services. Policy-based NAT allows you to deploy different types of NAT simultaneously. The following NAT configurations are available in SonicOS:

- Many-to-One NAT Policy
- · Many-to-Many NAT Policy
- · One-to-One NAT Policy for Outbound Traffic
- One-to-One NAT Policy for Inbound Traffic (Reflexive)
- · One-to-Many NAT Load Balancing
- Inbound Port Address Translation via One-to-One NAT Policy
- Inbound Port Address Translation via WAN IP Address

This section describes how to configure a One-to-One NAT policy. One-to-One is the most common NAT policy used to route traffic to an internal server, such as a Web Server. Most of the time, this means that incoming requests from external IPs are translated from the IP address of the Dell SonicWALL appliance WAN port to the IP address of the internal web server.

For other NAT configurations, see the *SonicOS Administrator's Guide*.

An example configuration illustrates the use of the fields in the Add NAT Policy procedure. To add a One-to-One NAT policy that allows all Internet traffic to be routed through a public IP address, two policies are needed: one for the outbound traffic, and one for the inbound traffic. To add both parts of a One-to-One NAT policy, perform the following steps:

- Navigate to the Network > NAT Policies page. Click Add. The Add NAT Policy dialog box displays.
- 2. For Original Source, select Any.
- For Translated Source, select Original.
- For Original Destination, select X0 IP.
- For Translated Destination, select Create new address object and create a new address object using WAN for Zone Assignment and Host for Type.
- 6. For Original Service, select HTTP.
- For Translated Service, select Original.
- 8. For Inbound Interface, select X0.
- 9. For **Outbound Interface**, select **Any**.
- 10. For **Comment**, enter a short description.
- 11. Select the **Enable NAT Policy** checkbox.
- 12. Select the Create a reflexive policy checkbox if you want a matching NAT Policy to be automatically created in the opposite direction. This will create the outbound as well as the inbound policies.
- 13. Click OK

Enabling Security Services in SonicOS

You must enable each security service individually in the SonicOS user interface. See the following procedures to enable and configure the following three basic security services:

Gateway Anti-Virus



Intrusion Prevention



Anti-Spyware



For more information on configuring your security services, refer to the *SonicOS Administrator's Guide*.

Applying Security Services to Zones

A network zone is a logical group of one or more interfaces to which you can apply security rules to regulate traffic passing from one zone to another zone.

Security services such as Gateway Anti-Virus are automatically applied to the LAN and WAN network zones when you activate the license and enable the service. To protect other zones such as the DMZ or Wireless LAN (WLAN), you must apply the security services to the network zones. For example, you can configure Dell SonicWALL Intrusion Prevention Service for incoming and outgoing traffic on the WLAN zone to add more security for internal network traffic.

To apply services to network zones:

- Navigate to the **Network > Zones** page.
- In the Zone Settings table, click the Configure icon for the zone where you want to apply security services.
- In the Edit Zone dialog box on the **General** tab, select the checkboxes for the security services to enable on this zone.
- On the Edit Zone page, select the checkboxes for the security services that you want to enable.
- Click OK
- To enable security services on other zones, repeat steps 2 through 4 for each zone.

Troubleshooting Diagnostic Tools

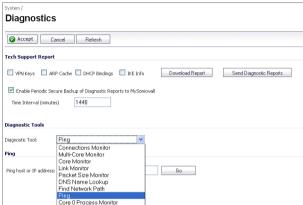
SonicOS provides a number of diagnostic tools to help you maintain your network and troubleshoot problems. Several tools can be accessed on the System > Diagnostics page, and others are available on other screens.

This section contains the following subsections:

- Using Ping page 53
- Using the Active Connections Monitor page 53
- Using Log > View page 53

Using Ping

Ping is available on the **System > Diagnostics** page.



The Ping test bounces a packet off a machine on the Internet and returns it to the sender. This test shows if the Dell SonicWALL appliance is able to contact the remote host. If users on the LAN are having problems accessing services on the Internet, try pinging the DNS server, or another machine at the ISP location. If the test is unsuccessful, try pinging devices outside the ISP. If you can ping devices outside of the ISP, then the problem lies with the ISP connection.

Using the Active Connections Monitor

The **Active Connections Monitor** displays real-time, exportable (plain text or CSV), filterable views of all connections to and through the Dell SonicWALL appliance. This tool is available on the **Systems > Diagnostics** page.

You can filter the results to display only connections matching certain criteria. You can filter by Source IP, Destination IP, Destination Port, Protocol, Src Interface and Dst Interface. Enter your filter criteria in the Active Connections Monitor Settings table.

The fields you enter values into are combined into a search string with a logical **AND**. Select the **Group Filters** box next to any two or more criteria to combine them with a logical **OR**.

Using Log > View

The Dell SonicWALL appliance maintains an Event log for tracking potential security threats. You can view the log in the **Log > View** page, or it can be automatically sent to an email address for convenience and archiving. The log is displayed in a table and can be sorted by column.

You can filter the results to display only event logs matching certain criteria. You can filter by **Priority**, **Category**, **Source** (**IP** or **Interface**), and **Destination** (**IP** or **Interface**). The fields you enter values into are combined into a search string with a logical **AND**. Select the **Group Filters** box next to any two or more criteria to combine them with a logical **OR**.

Deployment Configuration Reference Checklist

Use this checklist to find more information about various deployment tasks within the SonicOS Administrator's Guide.

For this Task	See this Chapter
Inspecting the rule base for inbound and outbound rules	Configuring Access Rules
Setting logging levels	Configuring Log Categories ("Logging Level" section)
Configuring threat prevention on all used zones	Configuring Zones ("Enabling Dell SonicWALL Security Services on Zones" section)
Configuring Web filtering protection	Configuring Dell SonicWALL Content Filtering Service
Changing administrator login	Configuring Administration Settings ("Administrator Name & Password" section)
Setting administrator email	Configuring Log Automation ("Email Log Automation" section)
Disabling HTTP and ping access	Configuring Interfaces ("Configuring Advanced Settings for the Interfaces" section)
Disabling or enabling DHCP	Setting Up the DHCP Server
Configuring user management	Managing Users and Authentication Settings
Configuring VPN policies	Configuring VPN Policies
Securing wireless access	Managing SonicPoints

In this Section:

This section provides overviews of customer support and training options for the Dell SonicWALL NSA E6500.

- Customer Support page 57
- Knowledge Portal page 57
- User Forums page 58
- Training page 59
- Related Documentation page 60
- Dynamic Tooltips page 61
- Dell SonicWALL Live Product Demos page 61

Customer Support

Dell SonicWALL offers Web-based and telephone support to customers who have a valid Warranty or who purchased a Support Contract. Please review our Warranty Support Policy for product coverage. Dell SonicWALL also offers a full range of consulting services to meet your needs, from our innovative implementation services to traditional statement of work-based services.

For further information, visit:

http://www.sonicwall.com/us/support/contact.html



Knowledge Portal

The Knowledge Portal is a resource which allows users to search for Dell SonicWALL documents based on the following types of search tools:

- Browse
- · Search for keywords
- Full-text search

For further information, visit:

http://www.sonicwall.com/us/en/support/2213.html



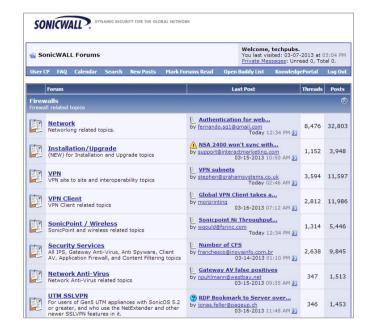
User Forums

The Dell SonicWALL User Forums is a resource that provides users the ability to communicate and discuss a variety of security and appliance subject matters. In this forum, the following categories are available for users:

- Content Security Manager topics
- · Continuous Data Protection topics
- · Email Security related topics
- · Firewall related topics
- · Network Anti-Virus related topics
- · Security Services and Content Filtering topics
- · GMS and Analyzer related topics
- · SonicPoint and Wireless related topics
- · SSL VPN related topics
- TZ 190 / Wireless WAN 3G Capability
- · VPN Client related topics
- VPN site-to-site and interoperability topics

For further information, visit:

https://forum.sonicwall.com/



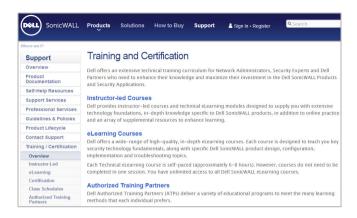
Training

Dell SonicWALL offers an extensive sales and technical training curriculum for Network Administrators, Security Experts and Dell SonicWALL Medallion Partners who need to enhance their knowledge and maximize their investment in Dell SonicWALL Products and Security Applications. Dell SonicWALL Training provides the following resources for its customers:

- E-Training
- · Instructor-Led Training
- · Custom Training
- · Technical Certification
- · Authorized Training Partners

For further information, visit:

http://www.sonicwall.com/us/support/training.html



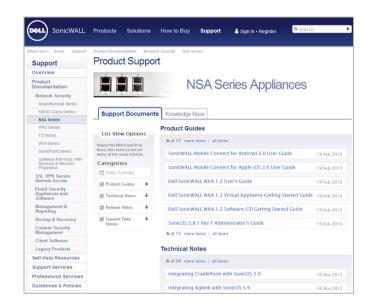
Related Documentation

See the following related documents for more information:

- · SonicOS Administrator's Guide
- · SonicOS Release Notes
- · SonicOS Feature Modules
 - · Application Firewall
 - Dashboard
 - · HA License Sync
 - · Multiple Admin
 - · NAT Load Balancing
 - Packet Capture
 - RF Management
 - Single Sign On
 - SSL Control
 - · Virtual Access Points
- Dell SonicWALL GVC Administrator's Guide
- · Dell SonicWALL Analyzer Administrator's Guide
- Dell SonicWALL GAV Administrator's Guide
- · Dell SonicWALL IPS Administrator's Guide
- · Dell SonicWALL Anti-Spyware Administrator's Guide
- · Dell SonicWALL CFS Administrator's Guide

For further information, visit:

http://www.sonicwall.com/us/en/support.html



Dynamic Tooltips

SonicOS features dynamic tooltips that appear over various elements of the GUI when the mouse hovers over them. Elements that display these tooltips include text fields, radio buttons, and checkboxes.



Dell SonicWALL Live Product Demos

The Dell SonicWALL Live Demo Site provides free test drives of Dell SonicWALL security products and services through interactive live product installations:

- · Unified Threat Management Platform
- · Secure Cellular Wireless
- · Continuous Data Protection
- SSL VPN Secure Remote Access
- · Content Filtering
- · Secure Wireless Solutions
- · Email Security
- · GMS and Analyzer

For further information, visit: http://livedemo.sonicwall.com/



In this Section:

This section provides illustrated rack mounting instructions for the Dell SonicWALL NSA E6500.

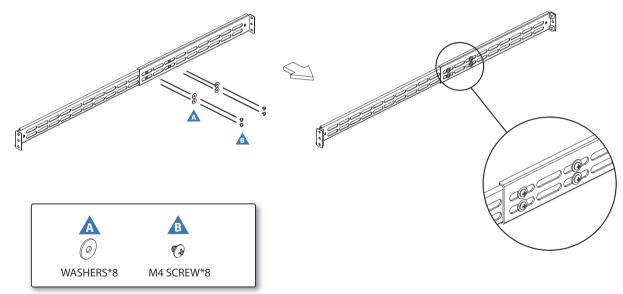
• Rack Mounting Instructions - page 63

Rack Mounting Instructions

Assemble the Slide Rail



Fasten 4 screws to the rail.



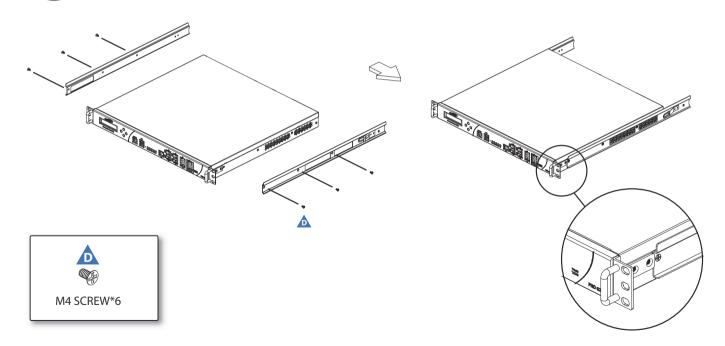
Assemble the Slide Rail

Fasten two-sided screws to the rail. M5 SCREW*8 M5 Nut*8

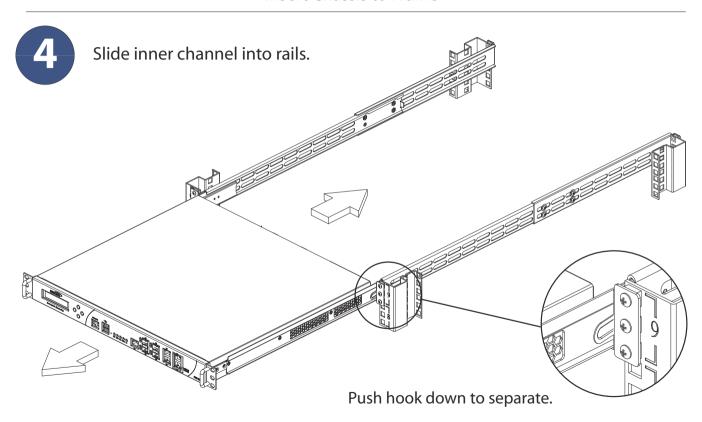
Assemble Inner Rail to Chassis

3

Fasten 6 screws to attach the inner channel onto the chassis.



Insert Chassis to Frame



In this Section:

This section provides regulatory along with trademark and copyright information.

- Safety and Regulatory Information page 69
- Warranty Information page 73
- Copyright Notice page 73

Safety and Regulatory Information

Regulatory Model/Type	Product Name
1RK12-04F	E6500
1RK22-074	

Safety Instructions

The following conditions are required for proper installation:

- The Dell SonicWALL appliance is designed to be mounted in a standard 19-inch rack mount cabinet.
- Use the mounting hardware recommended by the rack manufacturer and ensure that the rack is adequate for the application.
- Ensure that no water or excessive moisture can enter the unit.
- Allow unrestricted airflow around the unit and through the vents on the side of the unit. A minimum of 1 inch (25.44mm) clearance is recommended.
- Route cables away from power lines, fluorescent lighting fixtures, and sources
 of noise such as radios, transmitters, and broadband amplifiers.
- of noise such as radios, transmitters, and broadband amplifiers.

 This product is not intended to be installed and used in a home or public area accessible to the general population. When installed in schools, this equipment
- must be installed in a secure location accessible only by trained personnel.

 Mount in a location away from direct sunlight and sources of heat. A maximum ambient temperature of 104° F (40° C) is recommended.
- If installed in a closed or multi-rack assembly, the operating ambient temperature
 of the rack environment may be greater than the room ambient. Therefore,
 consideration should be given to installing the equipment in an environment
 compatible with the maximum recommended ambient temperature.
- Mount the Dell SonicWALL appliances evenly in the rack in order to prevent a hazardous condition caused by uneven mechanical loading.
- Four mounting screws, compatible with the rack design, must be used and handtightened to ensure secure installation. Choose a mounting location where all four mounting holes line up with those of the mounting bars of the 19-inch rack mount cabinet.
- A suitably rated and approved branch circuit breaker shall be provided as part of the building installation. Follow local code when purchasing materials or components.
- Consideration must be given to the connection of the equipment to the supply circuit. Appropriate consideration of equipment nameplate ratings must be used when addressing this concern. Do not overload the circuit.

- Reliable grounding of rack-mounted equipment must be maintained. Particular attention must be given to power supply connections other than direct connections to the branch circuits, such as power strips.
- As shipped from the factory this Dell SonicWALL product includes two power supplies for redundant AC power and added reliability.
- To disconnect AC power, both power cords must be removed.
- The included power cord(s) are approved for use only in specific countries or regions. Before using a power cord, verify that it is rated and approved for use in your location.
- This model is shipped as AC mains configuration using standard 3 conductor appliance couplers.
- Never remove or install a power supply with the AC power cord attached to the power supply being removed or installed.
- Thumbscrews should be tightened with a tool after both installation and subsequent access to the rear of the product.



Warning—Potential Hazard from Fan

Before replacing the fan unit, carefully read and follow the instructions provided with the unit.

Lithium Battery Warning

The Lithium Battery used in the Dell SonicWALL Internet security appliance may not be replaced by the user. The appliance must be returned to a Dell SonicWALL authorized service center for replacement with the same or equivalent type recommended by the manufacturer. If, for any reason, the battery or Dell SonicWALL Internet security appliance must be disposed of, do so following the battery manufacturer's instructions.

Cable Connections

All Ethernet and RS232 (Console) cables are designed for intra-building connection to other equipment. Do not connect these ports directly to communication wiring or other wiring that exits the building where the Dell SonicWALL is located.

Sicherheitsanweisungen

Für eine ordnungsgemäße Montage sollten die folgenden Hinweise beachtet werden:

- Das Dell SonicWALL Modell ist für eine Montage in einem standardmäßigen 19-Zoll-Rack konzipiert.
- Vergewissern Sie sich, dass das Rack für dieses Gerät geeignet ist und verwenden Sie das vom Rack-Hersteller empfohlene Montagezubehör.
- Stellen Sie sicher, dass das Gerät vor Wasser und hoher Luftfeuchtigkeit. aeschützt ist.
- Stellen Sie sicher, dass die Luft um das Gerät herum zirkulieren kann und die Lüftungsschlitze an der Seite des Gehäuses frei sind. Hier ist ein Belüftungsabstand von mindestens 26 mm einzuhalten.
- Achten Sie darauf, das sich die Netzwerkkabel nicht in der unmittelbaren Nähe von Stromleitungen. Leuchtstoffröhren und Störquellen wie Funksendern oder Breitbandverstärkern befinden
- Dieses Produkt ist nicht dafür entwickelt, um in Bereichen mit öffentlichem Zugang betrieben zu werden. Wenn es in Schulen betrieben wird, stellen Sie sicher, dass das Gerät in einem abgeschlossenen Raum installiert wird, der nur von speziell ausgebildetem Personal betreten werden kann.
- Wählen Sie für die Montage einen Ort, der keinem direkten Sonnenlicht ausgesetzt ist und sich nicht in der Nähe von Wärmequellen befindet. Die Umgebungstemperatur darf nicht mehr als 40 °C beträgen.
- Wenn das Gerät in einem geschlossenen 19"-Gehäuse oder mit mehreren anderen Geräten eingesetzt ist, wird die Temperatur in der Gehäuse höher sein als die Umgebungstemperatur. Achten Sie darauf, daß die Umgebungstemperatur nicht mehr als 40° C beträgt.
- Bringen Sie die Dell SonicWALL waagerecht im Rack an, um mögliche Gefahren durch ungleiche mechanische Belastung zu vermeiden.
- Verwenden Sie für eine sichere Montage vier passende Befestigungsschrauben, und ziehen Sie diese mit der Hand an. Wählen Sie einen Ort im 19-Zoll-Rack, wo alle vier Befestigungen der Montageschien verwendet werden.
- Ein angemessen dimensionierter und geprüfte Sicherung, sollte Bestandteil der Haus-Installation sein. Bitte folgen die den lokalen Richtlinien beim Einkauf von Material oder Komponenten.
- Prüfen Sie den Anschluss des Geräts an die Stromversorgung, damit der Überstromschutz sowie die elektrische Leitung nicht von einer eventuellen Überlastung der Stromversorgung beeinflusst werden. Prüfen Sie dabei sorgfältig die Angaben auf dem Aufkleber des Geräts. Überlasten Sie nicht den Stromkreis
- Eine sichere Erdung der Geräte im Rack muss gewährleistet sein. Insbesondere muss auf nicht direkte Anschlüsse an Stromquellen geachtet werden wie z. B. bei Verwendung von Mehrfachsteckdosen.
- Dieses Produkt wird mit zwei Wechselstrom-Netzteilen zur redundanten Stromversorgung fuer erhöhte Verfu"gbarkeit ausgeliefert.

- Um den Wechselstrom (AC) zu unterbrechen muessen beide Stromkabel entfernt werden
- Das im Lieferumfang enthaltene bzw. die im Lieferumfang enthaltenen Netzkabel sind nur für die Verwendung in bestimmten Ländern und Regionen zugelassen. Überprüfen Sie bitte vor der Verwendung eines Netzkabels, ob es für die Verwendung in Ihrem Land oder Ihrer Region zugelassen ist und den geforderten Normen entspricht.
- Die Wechselstrom Konfiguration verwendet standardisierte Kaltgerätekabel.
- Wenn Sie das Netzteil wechseln, entfernen Sie unbedingt die Stromversorgung von dem zu wechselnden Netzteil.
- Vergewissern Sie sich, dass die Schrauben nach dem Austausch mit entsprechendem Werkzeug fest angezogen werden.



Achtung-Lüfter Potentielle Gefahrenquelle

 Lesen Sie vor dem Austausch der Lüftereinheit die Anleitung, die mit dem Gerät geliefert wurde und befolgen Sie die Anweisungen.

Hinweis zur Lithiumbatterie

Die in der Internet Security Appliance von Dell SonicWALL verwendete Lithiumbatterie darf nicht vom Benutzer ausgetauscht werden. Zum Austauschen der Batterie muss die Dell SonicWALL in ein von Dell SonicWALL autorisiertes Service-Center gebracht werden. Dort wird die Batterie durch denselben oder entsprechenden, vom Hersteller empfohlenen Batterietvo ersetzt. Beachten Sie bei einer Entsorgung der Batterie oder der Dell SonicWALL Internet Security Appliance die diesbezüglichen Anweisungen des Herstellers.

Kabelverbindungen

Alle Ethernet- und RS232-C-Kabel eignen sich für die Verbindung von Geräten in Innenräumen, Schließen Sie an die Anschlüsse der Dell SonicWALL keine Kabel an, die aus dem Gebäude in dem sich das Gerät befindet herausgeführt werden.

安全說明

需要滿足以下條件以谁行下確安裝:

- 戴爾 SonicWALL 設備被設計成安裝在一個標準的 19 吋機架安裝櫃。需要滿足以下條件以進行正確安裝:
- · 使用機架製造商推薦的裝載硬體,確認機架足夠裝置所需
- 請確認裝置內不會滲入水分或過多的濕氣。
- 裝置週邊請保持通風,特別是裝置通風口側。建議裝置與牆 壁間至少要有1英吋(25.44公釐)的淨空。
- 纜線的路徑應遠離電源線、日光燈,以及會產生雜訊的來源, 如無線電、發送器與寬頻放大器。
- 本產品的設計目的不是安裝並使用於住家或一般大眾可接觸 到的公共區域。如果是安裝在學校,本設備只能安裝在受訓人 員能接觸到的安全位置。
- · 架設位置需遠離陽光直射與熱源。建議周圍溫度最高溫不 要 超過 104°F (40°C)。
- 如果是安裝於封閉式或多組機架配件,機架環境的周圍操作 溫度可能會高過室內周遭。因此,在與上述建議之最高周圍溫 度相容的環境中安裝設備時,應將此列入考量。
- 將戴爾 SonicWALL 裝置平坦地裝設在機架中,如此才能避免 因不均勻的機械負荷造成危險狀況。
- · 必須使用四顆與機架設計相容的安裝螺釘,並用手鎖緊螺釘,確定安裝牢固。選擇一個安裝位置,將四個裝載洞孔對齊 19 时架設機櫃的安裝桿。
- 應當提供一個合適額定值並且已被認可的分支電路斷路器作 為安裝該裝置的一部分。在購買材料或部件時,應遵循當地安 全代碼。
- 必須留心裝置與電源電路的連接問題,電路過載對過電流保護與電路電線的影響需降至最低。解決這個問題時,需正確考慮裝置銘牌額定值。不要過載電路。

- 必須維護可靠的機架裝載設備接地。必須特別留意電源供應器連線,而不是直接連接到電源板之類的分支電路。
- 從工廠運出時,這個戴爾 SonicWALL 產品包括為後備交流電源和增加可靠性而附帶的兩個電源。
- 要斷開交流電源,兩條電源線都必須被拔除。
- 隨附的電源線僅限於特定的國家或地區使用。使用前,請確認電源線的額定值目已被認可在你的地區上使用。
- 這個型號出貨時附帶的交流電源,是標準三芯器具耦合器的配置。
- 切勿在交流電源線還連接著電源時移除或安裝電源。
- 當安裝及後續接觸產品背面之後,必須用工具將指旋螺釘鎖緊。



風扇潛在危險警告

• 更換風扇部件前,請仔細閱讀,並遵循所提供的指示。

鋰雷池警告

使用者不得自行更換 戴爾 SonicWALL 網際網路安全性裝置中使用的鋰電池。必須將 戴爾 SonicWALL 送回 戴爾 SonicWALL 授權的服務中心,以更換相同的鋰電池或製造商推薦的同類型鋰電池。若因任何原因必須丟棄電池或 戴爾 SonicWALL 網際網路安全性裝置,請嚴格遵守電池製造商的指示。

纜線連結

所有乙太網路與 RS232 (主控台)線路都是為與其他裝置進行內 建連接所設計的。請不要將這些連接埠直接連接至通訊線路,或 其他連出 戴爾 SonicWALL 所在建築的線路。

FCC Part 15 Class A Notice

NOTE: This equipment was tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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. And if not installed and used in accordance with the instruction manual, the device may cause harmful interference to radio

communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at his own expense.

Caution: Modifying this equipment or using this equipment for purposes not shown in this manual without the written consent of Dell. Inc. could void the user's authority to operate this equipment.

RMSI Statement

警告使用者:

此為甲類資訊技術設備,於居住環境中使用時,可能會造成射 **厢擾動**,在此種情況下,使用者會被要求採取某些適當的對策。

VCCI Statement

この装置は、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 VCCI - A されることがあります。

Canadian Radio Frequency Emissions Statement

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à toutes la norme NMB-003 du Canada.

Complies with CISPR 22 (EN 55022) Class A

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 adequate measures.

Declaration of Conformity

Application of council Directive 2004/108/EC (EMC) and 2006/95/EC (LVD)

Standards to which conformity is declared

EN 55022 (2006) +A1 (2007) Class A EN 55024 (1998) +A1 (2001), +A2 (2003) EN 61000-3-2 (2006) EN 61000-3-3 (2008) EN 60950-1 (2006) +A11

National Deviations: AR, AT, AU, BE, BR, CA, CH, CN, CZ, DE, DK, FI, FR, GB, GR, HÚ, IL, IN, IT, JP, KÉ, KR. MY. NL. NO. PL. SE. SG. SI. SK. ÚS

Regulatory Information for Korea



Ministry of Information and Telecommunication Certification Number SWL-1RK22-074 SWL-1RK12-050

All products with country code "A" and "J" are made in the USA. All products with country code "B" are made in China. All products with country code "C" or "D" are made in Taiwan R.O.C. All certificates held by NetSonic, Inc.

A급 기기 (업무용 정보통신기기)

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