

Release Notes

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Release Purpose

SonicOS 5.9.0.3 provides several new features and resolves a number of issues found in earlier releases.

Platform Compatibility

The SonicOS 5.9.0.3 release is supported on the following Dell SonicWALL Deep Packet Inspection (DPI) security appliances:

- NSA E8510
- NSA E8500
- NSA E7500
- NSA E6500
- NSA E5500
- NSA 5000
- NSA 4500
- NSA 3500
- NSA 2400
- NSA 2400MX
- NSA 250M / NSA 250M Wireless
- NSA 240
- NSA 220 / NSA 220 Wireless
- TZ 215 / TZ 215 Wireless
- TZ 210 / TZ 210 Wireless
- TZ 205 / TZ 205 Wireless
- TZ 200 / TZ 200 Wireless
- TZ 105 / TZ 105 Wireless
- TZ 100 / TZ 100 Wireless

The Dell SonicWALL WXA series appliances (WXA 500 Live CD, WXA 5000 Virtual Appliance, WXA 2000/4000 Appliances) are also supported for use with Dell SonicWALL security appliances running SonicOS 5.9. The recommended firmware version for the WXA series appliances is 1.2 or higher.

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Upgrading Information

For information about obtaining the latest firmware, upgrading the firmware image on your Dell SonicWALL appliance, and importing configuration settings from another appliance, see the *SonicOS 5.9 Upgrade Guide* available on MySonicWALL or the Support/Product Documentation page for NSA or TZ series:

<http://www.sonicwall.com/us/en/support/3643.html>

Browser Support



SonicOS with Visualization uses advanced browser technologies such as HTML5, which are supported in most recent browsers. Dell SonicWALL recommends using the latest Chrome, Firefox, Internet Explorer, or Safari browsers for administration of SonicOS.

This release supports the following Web browsers:

- Chrome 18.0 and higher (recommended browser for dashboard real-time graphics display)
- Firefox 16.0 and higher
- Internet Explorer 8.0 and higher (do not use compatibility mode)
- Safari 5.0 and higher

Mobile device browsers are not recommended for Dell SonicWALL appliance system administration.

WWAN 3G/4G Support

SonicOS 5.9 supports a variety of 3G and 4G PC cards and USB devices for Wireless WAN connectivity. To use a 3G/4G interface you must have a 3G/4G PC card and a contract with a wireless service provider. A 3G/4G service provider should be selected based primarily on the availability of supported hardware, which is listed at:

<http://www.sonicwall.com/us/products/cardsupport.html>

In addition to devices supported on previous releases, SonicOS 5.9 includes support for the following 3G/4G devices:

- "T-Mobile Rocket 3.0" ZTE MF683 4G (USA)
- "AT&T Momentum" Sierra Wireless 313U 4G (USA)
- "AT&T Beam AirCard" Sierra Wireless 340U 4G (USA) (supported with LTE network, not with HSPA+)
- Pantech UML290 4G (USA)
- "Rogers Rocket Stick" Sierra Wireless 330U 4G (Canada)
- Huawei E398
- Huawei E353
- Kyocera 5005 (Vodafone's branded implementation of the Huawei E398)

Note: When connected to a Dell SonicWALL appliance, the performance and data throughput of most 3G/4G devices will be lower than when the device is connected directly to a personal computer. SonicOS uses the PPP interface rather than the proprietary interface for these devices. The performance is comparable to that from a Linux machine or other 4G routers.

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Known Issues

This section contains a list of known issues in the SonicOS 5.9.0.3 release.

3G/4G

Symptom	Condition / Workaround	Issue
The 4G device is connected, but no traffic passes through it.	Occurs when interface U0 is configured as the final backup or as the primary WAN, and the AT&T Beam AirCard Sierra Wireless 340U 4G device is connected without an external antenna. Thus, it is only able to negotiate HSPA+. Traffic does pass when using an external antenna to negotiate with the faster LTE network.	133999
The firewall shuts down or restarts automatically when a 3G or 4G USB device is inserted or removed.	Occurs when inserting or removing a 3G/4G USB device (a HuaWei E353 HSPA+ USB Stick) when the appliance is powered on. Workaround: The appliance should always be powered off when inserting or removing a USB device. Hot plug and play is not supported.	130973

Active/Active Clustering

Symptom	Condition / Workaround	Issue
The backup units do not synchronize with the updated configuration on the active units.	Occurs when all connection ports on both backup units are disconnected, and the CLI is used to configure X0 on the active unit, to enable the "RIP" and "Send Only" options. Then, the backup units are reconnected.	130316
No Virtual Group selection is available when using the Public Server Rule wizard on an Active/Active Clustering pair. The new policy is bound to Group 1.	Occurs when configuring a NAT policy and adding a public server for Group 2 from the Public Server Rule wizard. Workaround: Manually edit the NAT policy after using the wizard.	128631

Application Control

Symptom	Condition / Workaround	Issue
App Control policies do not block IPv6 traffic unless Intrusion Prevention Service (IPS) is enabled.	Occurs when IPS is disabled and an App Control policy is created from Firewall > App Control Advanced to block FTP traffic. A computer on the LAN side can still use an IPv6 IP address to connect to an FTP server. Workaround: Enable IPS. With IPS enabled, the App Control policy blocks the FTP connection	128410

Application Firewall

Symptom	Condition / Workaround	Issue
An application is blocked by the firewall even though the client IP address is in the "excluded IP address range" list.	Occurs when App Control is enabled and excluded traffic is sent through the firewall.	139176

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DPI-SSL

Symptom	Condition / Workaround	Issue
The certificate from a secure website, such as https://mail.google.com, is not changed to a Dell SonicWALL DPI-SSL certificate as it should be, and traffic cannot be inspected.	Occurs when the "Enable SSL Client Inspection" option is set on the DPI-SSL > Client SSL page, a SonicPoint-NDR is connected to the appliance, Guest Services is enabled on the WLAN zone, a wireless client connects to the SonicPoint, and the user logs into the guest account.	123097
A Remote Desktop Protocol (RDP) session cannot be established.	Occurs when the "Enable SSL Client Inspection" option is set on the DPI-SSL > Client SSL page, and a user tries to connect, using RDP, from a Windows 7 computer on the WLAN to another Windows 7 computer on the LAN.	102701

Firewall

Symptom	Condition / Workaround	Issue
The App Rule Match Object cannot match a Filename.	Occurs during an FTP download or upload when the App Rule Match Object is set with the Prefix Match, Hexadecimal Representation, and Negative Match options enabled. Workaround: Do not enable the Negative Match option with the Prefix Match option.	135634

Firmware

Symptom	Condition / Workaround	Issue
GMS cannot manage a firewall after upgrading a TZ210 appliance to the SonicOS 5.9.0.2 firmware.	Occurs when GMS is using the HTTPS Management method and the SonicOS appliance has WAN HTTPS Management disabled on the WAN interface.	139012

IPv6

Symptom	Condition / Workaround	Issue
IPv6 packets exceeding the Maximum Transmission Unit (MTU) are dropped instead of being fragmented.	Occurs when setting the MTU for an interface, and then sending IPv6 packets that exceed the MTU.	139108
An IPv6 Address Object in the Exclusion Address list of an App Rule policy is still blocked by that App Rule policy.	Occurs when a computer on the LAN with an IPv6 address that is included in the Exclusion Address list of an App Rule policy tries to connect to an IPv6 website that is blocked by that policy.	128363

Log

Symptom	Condition / Workaround	Issue
Log settings cannot be modified. The error message, "The format of the email address is incorrectly reported" is displayed.	Occurs when trying to modify the log settings in the Edit Log Category dialog on the Log > Settings page.	136248 131932

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Networking

Symptom	Condition / Workaround	Issue
The Gateway Anti-Virus (GAV) may not work in IPv6 Wiremode > Secure mode.	Occurs when using Wiremode > Secure mode with GAV enabled globally and per zone.	139250
Border Gateway Protocol (BGP) authentication does not work with IPv6 peers.	Occurs when configuring an IPv6 peer between a firewall and a router, then enabling BGP authentication on each side.	138888
The value of the "ifHCInBroadcastPkts" field in an SNMP-GET packet is different from the value displayed for Rx Broadcast Packets on the Network > Interfaces page.	Occurs when comparing the Rx Broadcast Packet values for each interface shown on the Network > Interfaces page with the values obtained from SNMP.	131306
Wire Mode and Tap Mode are disabled and cannot be selected from the IP Assignment menu on the Edit Interface dialog. The IP Assignment menu is set to Static and cannot be changed.	Occurs when editing an unassigned interface in a Stateful High Availability pair, and WAN is selected from the Zone menu.	131050
FTP and HTTP traffic does not pass through a pair of interfaces in Wire Mode that is set to Secure. Pings still pass.	Occurs when using a Stateful High Availability pair with Active/Active DPI enabled. The Active/Active DPI data interface is set to X7, while the Wire Mode interfaces are X2 and X6 in the LAN zone. The traffic between X2 and X6 fails, but traffic passes on the other static interfaces.	101359

Security Services

Symptom	Condition / Workaround	Issue
SonicOS drops the Client CFS Ping reply packets, and Client CFS Enforcement does not work on the SSL VPN zone.	Occurs when the source IP address of the Client CFS Ping packet is the WAN interface IP address.	135585
The Gateway AV Exclusion List does not prevent some IP addresses from being blocked.	Occurs when an FQDN Address Object is included in the Gateway AV Exclusion List.	121984

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System

Symptom	Condition / Workaround	Issue
A Web browser is automatically redirected the X1 WAN IP address of the SonicOS appliance instead of the X0 LAN IP address.	Occurs after a firmware upgrade when logging into the SonicOS appliance from the LAN zone.	140351
A SonicOS appliance configured for use with the SNMP agent does not respond with proper interface data	Occurs when the SNMP agent does a query to the SonicOS appliance with "Getbulk Request Ifname".	140343
The configuration mode on the LCD panel cannot be accessed and displays an Invalid Code error message.	Occurs when the administrator selects the Configuration option on the LCD panel and enters the new PIN code that was just changed on the System > Administration page.	130379
GMS 7.1 does not synchronize with SonicOS after making password changes in One Touch Configuration and then rebooting the appliance.	Occurs when password complexity is changed via One Touch Configuration from GMS. The One Touch Configuration options for Stateful Firewall Security require passwords containing alphabetic, numeric and symbolic characters. If the appliance has a simple password, such as the default "password", GMS cannot log in after the restart, and cannot be prompted to change the password.	124998
The management computer cannot manage the firewall because SonicOS cannot forward Ethernet packets larger than 1496 KB.	Occurs when the management computer is connected to an H3C 10GE switch which is connected in Trunk mode to a second switch and then connected to an NSA E8510 10GE interface.	121657

System Testing

Symptom	Condition / Workaround	Issue
A IPv6 6rd interface cannot be deleted.	Occurs when manually adding an IPv6 6rd interface, and then trying to delete it.	138846

Users

Symptom	Condition / Workaround	Issue
Single Sign-On (SSO) does not work for users behind a proxy server.	Occurs when SSO tries to authenticate users behind a proxy server from the "X-Forwarded-For HTTP" header. Two local IP addresses are being saved in the cache: the initiator IP address and the user IP address. Normally these should be the same IP address, but they are not because the user is behind a proxy server and the initiator IP address is that of the proxy server.	135558
Single Sign-On (SSO) only works on Active-Active Clustering Virtual Group 1. SSO does not work on other Virtual Groups.	Occurs when SSO agents are configured in a clustered environment. Virtual Group 1 has a green status. However, all other Virtual Groups have a red status and do not work with the SSO Agent.	120202
Single Sign-On (SSO) does not work when Guest Services is enabled.	Occurs when both SSO and Guest Services are enabled. Guest Services blocks SSO authentication.	119001

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VoIP

Symptom	Condition / Workaround	Issue
SonicOS drops SIP packets from the WAN to a Layer 2 Bridged LAN interface, and cannot establish a VoIP call. Ping works across the same path. The call can be established when using the primary LAN interface.	Occurs when interface X5 (LAN) is configured in L2 bridge mode and bridged to X0 (LAN). A Cisco phone is connected to X5 and is used to make a call to a phone on the WAN side, but the call cannot be established.	128225

VPN

Symptom	Condition / Workaround	Issue
Traffic goes to the wrong VPN tunnel.	Occurs when two VPN tunnel interfaces are configured with Amazon VPC, and we add two numbered tunnel interfaces and BGP neighbors based on the Amazon VPC configuration. When Tunnel 1 goes down, the traffic switches to Tunnel 2. When Tunnel 1 comes back up, the traffic stays on Tunnel 2. When Tunnel 2 goes down, the traffic switches to Tunnel 1. But when Tunnel 2 comes back up, the traffic stops. The route table shows that packets are going through Tunnel 1, but a packet capture shows that packets are going through Tunnel 2.	135205
An active IPv6 VPN tunnel is not displayed in the table on the VPN > Settings screen of the head-end firewall.	Occurs when two IPv6 VPN tunnels are created on both the head-end appliance and a remote appliance. The head-end VPN > Settings screen shows "2 Currently Active IPv6 Tunnels", but it only displays one tunnel in the Currently Active VPN Tunnels table.	128633
An OSPF connection cannot be established between an NSA 240 and an NSA 7500.	Occurs when a VPN tunnel is configured between an NSA 240 and an NSA 7500, with Advanced Routing enabled on the NSA 240. A numbered tunnel interface is created on the NSA 7500 and is bound to the VPN tunnel. A VLAN is created on the NSA 240 with an IP address in the same subnet as the Tunnel Interface on the NSA 7500. OSPF is enabled on both appliances, but the NSA 240 does not respond to the OSPF "Hello" packet, and an OSPF connection cannot be established.	128419
User cannot change the Manual Key VPN policy to an IKE policy.	Occurs when the user attempts to change a Manual Key VPN policy to an IKE policy. The following message appears, "Remote IKE ID must be specified." Workaround: Delete the Manual Key policy and add a new IKE policy with the same IPsec gateway and source/destination networks.	112988
OSPF routing does not work properly.	Occurs when OSPF is configured, and a Tunnel Interface VPN policy is deleted and then re-created. OSPF will not connect until the appliance or the HA pair is restarted.	101510

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Wizards

Symptom	Condition / Workaround	Issue
Setup Wizard cannot complete the initial setup configuration and the firewall must be restarted.	<p>Occurs when trying to configure the initial setup using the Setup Wizard. The Setup Wizard stops on the WAN Settings page after the "Next" button is clicked, and the following message is displayed:</p> <pre>"User:09/09 11:30:19.800: NOTICE: webSrvrThreadTimer:4598: Web server thread tWebMain02 has been busy for 31 seconds in state Active; fd 79 2291235280.49206.80.2291235472:-2102248124 - > port -2097387164"</pre> <p>Workaround: Use the CLI to do the initial setup, or login to the firewall from the Web UI to do the configuration.</p>	135211

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Resolved Issues

This section contains a list of issues that are fixed in the SonicOS 5.9.0.3 release.

Content Filtering

Symptom	Condition / Workaround	Issue
The start of an AirPlay Mirroring session is delayed. Once the session starts, it goes down within 60 seconds.	Occurs when starting AirPlay on a device that is connected to the WLAN interface of a TZ 205W appliance running 5.9.0.2-103o firmware with CFS enabled.	136107
The internet cannot be browsed and the browser displays the message: Page Cannot Be Displayed.	Occurs when upgrading the firmware from 5.8 to 5.9 on an NSA 240 appliance that originally had Websense configured. After upgrading, the Websense option is not available, causing the internet browsing problem.	135556

DPI-SSL

Symptom	Condition / Workaround	Issue
A "certificate is not trusted" error displays in the Web browser because the Server DPI-SSL does not send the certificate chain in the Certificate message.	Occurs when the public certificate used for the Server DPI-SSL has one or more intermediate certificates in its chain.	139379

High Availability

Symptom	Condition / Workaround	Issue
Changes to the VPN policy of a HA pair do not synchronize on the backup unit.	Occurs when editing the VPN policy on the primary unit of a HA pair.	137397
Wire Bandwidth randomly drops for a few minutes.	Occurs when running 6.1.1.4 firmware on a SuperMassive 9200 appliance.	137367

IPv6

Symptom	Condition / Workaround	Issue
A central site firewall cannot forward packets back to the WAN side of a remote firewall.	Occurs when traffic is forwarded from a remote firewall to a central site firewall via an IKEv2 VPN tunnel. When the central site firewall receives the traffic, the ESP packets are decapsulated and traffic cannot be forwarded back to the remote firewall.	139864
A site-to-site VPN tunnel does not work if an IPv6 6rd tunnel is also configured.	Occurs when the Advertise Subnet Prefix of the IPv6 Primary Static Address option is enabled on one of the interfaces of the site-to-site VPN tunnel.	133750

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Networking

Symptom	Condition / Workaround	Issue
Custom added Access Rules may get deleted.	Occurs when the Zone properties are modified.	138576
The firewall cannot be accessed via HTTPS when it is behind a NAT device.	Occurs when deploying a firewall behind a NAT device, and then enabling HTTPS management on the firewall.	138411
The SonicWALL security appliance may reboot.	Occurs when connecting to a Juniper SA2000 via the SSLVPN appliance the	136801
The speed/duplex for an interface is incorrectly displayed in the user interface and may not pass traffic.	Occurs when using an SFP module in place of either the X4 or X5 interface on a NSA E8510 appliance.	136779
Dynamic DNS always displays a network error status.	Occurs after configuring a DDNS profile on the Network > Dynamic DNS page. The page should display the online status.	135341
All generic firewall access rules manually created for a zone may be incorrectly deleted.	Occurs when the "Auto-generate Access Rules to allow traffic ..." options are disabled after changing setting on a zone.	133585
The DHCPv6 client does not receive IPv6 addresses.	Occurs when the DHCPv6 server does not reply after receiving the client DHCPv6 Solicit.	132113
Interfaces on an NSA2400 are going down/up numerous times a day.	Occurs when replacing the Ethernet switch PHY polling unit with a software implementation.	113621

System

Symptom	Condition / Workaround	Issue
Downloading a TSR may cause the user interface to become unresponsive and could take up to 20 minutes.	Occurs when using IPv6 and DHCPv6.	138587
The Firewall may stop passing traffic from the Local Area Network (LAN).	Occurs when a WLAN sub-interface is bridged to the X0 interface.	138220
The appliance sometimes restarts due to tDataPlaneTask task suspension.	Occurs when using Content Filtering on some zones.	137890
The following message displays in the user interface: "The server could not fulfill the request."	Occurs when exporting settings from the SonicOS user interface.	137778
The Reverse Name Resolution diagnostic tool in the firewall displays 0.0.0.0 for all DNS server.	Occurs after upgrading to SonicOS 5.9.0.0-91o firmware.	137278

Users

Symptom	Condition / Workaround	Issue
Users can access the management interface through a proxy server without needing to log in.	Occurs when a user going through a proxy server is redirected to the login page. Once they log in, all users behind them can access the management interface without login in.	136709

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VoIP

Symptom	Condition / Workaround	Issue
A video conference (at local site) displays a “disconnect” message and stops receiving video 2 minutes into the stream.	Occurs when a remote user connects to a video conference via a device behind the firewall on the local site. When the conference begins, the firewall changes the port used for outgoing NAT translation just before the RTP stream starts. So the remote site is sending data (via video conference) but the local firewall does not receive the traffic on the expected port.	139141

VPN

Symptom	Condition / Workaround	Issue
All VPN tunnels going to the secondary interface of a wireless LAN bridge go down.	Occurs when the secondary interface of a wireless LAN bridge is down. This condition should not also cause VPN tunnels to go down.	139320
Traffic is incorrectly routed through the WAN on a site-to-site VPN when a “Route all VPN” policy is enabled for a different subnet.	Occurs when doing the following: <ol style="list-style-type: none">1. Configure a site-to-site VPN between Site A and Site B with only the X0 subnet involved.2. Configure another site-to-site VPN between Site A's X2 subnet and Site C.3. Create VPN policies for routing all internet traffic from X2 through Site C.4. Enable both VPN policies.	136359 135513

Wireless

Symptom	Condition / Workaround	Issue
A SonicPoint NDR's primary channel displays as “5 1” even though it was configured to use channel 11.	Occurs when selecting Channel 11 for the primary channel in the 802.11n radio settings. Navigate to the SonicPoint > SonicPoints page and see that the channel displays as “5 1”.	138483
The default dynamic address object that holds the range of IP addresses reserved for the SonicPoints on a particular interface does not get updates.	Occurs when the number of SonicPoints that a particular interface accommodates is changed.	135026

Release Notes

New Features in SonicOS 5.9.0.3

SonicOS 5.9.0.3 provides the following new features and enhancements:

SonicPoint Layer 3 Management over SSL VPN

SonicOS 5.9.0.3 introduces the SonicPoint layer 3 management over SSL VPN feature. SonicPoint Device Profile settings are added in the SSL VPN > Client Settings screen.

SSL VPN /

Client Settings

Accept

Default Device Profile

Name	Description	Address for IPv4	Zone for IPv4	Address for IPv6	Zone for IPv6	Configure
Default Device Profile	Default Device Profile	?	Unknown	?	Unknown	

SonicPoint L3 Management Default Device Profile

Name	Description	Address	Zone	Configure
Default Device Profile for SonicPointN	Default Device Profile for SonicPointN	?	Unknown	

Just like the Device Profiles for other SonicOS firmware versions, this new Device Profile has the basic SSL VPN setting such as: Zone, Network Address, Client Setting, and Client Routes.

Dell SonicWALL | Network Security Appliance

Settings Client Routes SP L3 Settings

Basic Settings

Name:

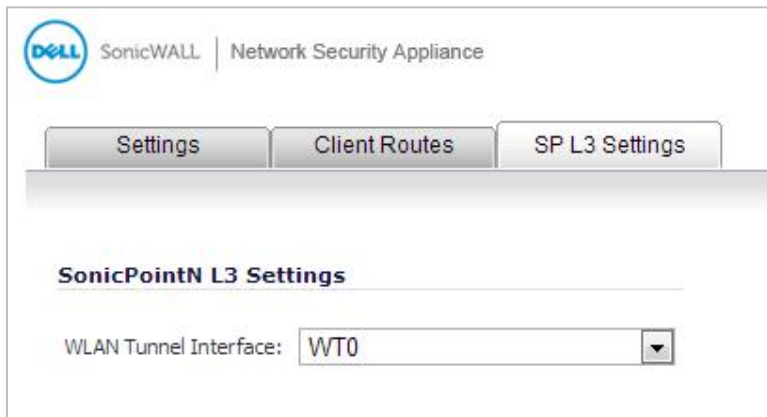
Description:

Zone IP V4:

Network Address IP V4:

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One special setting in the SonicPointN device profile is the “SP L3 Settings” tab. In this tab, users need to select the corresponding WLAN Tunnel interface for SonicPointN SSL VPN Management.




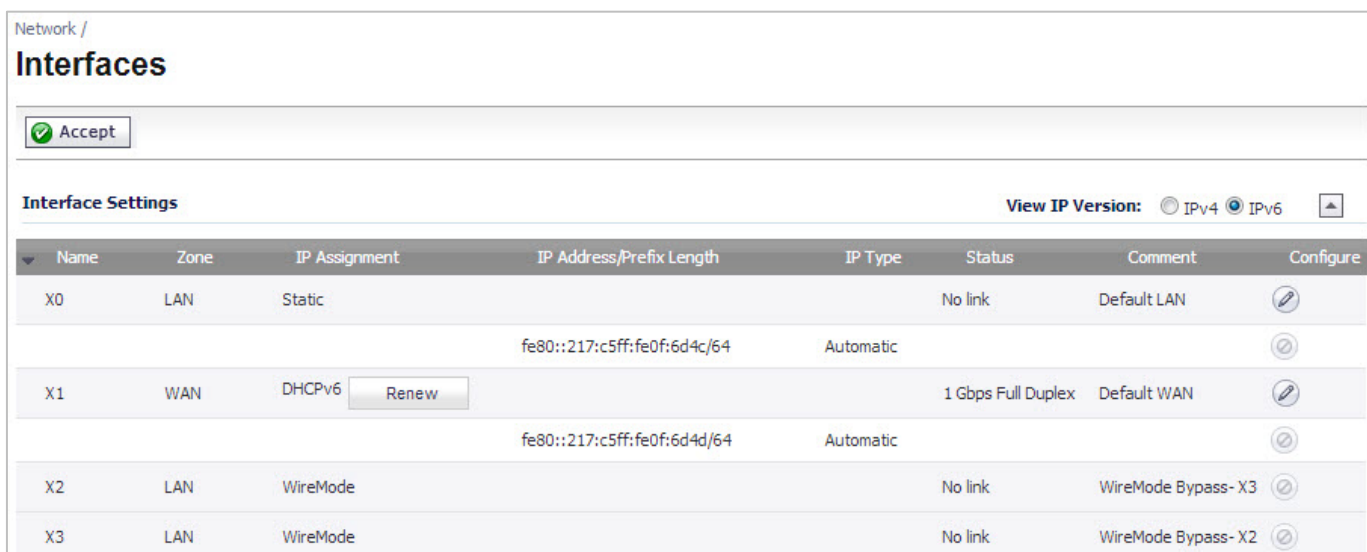
IPv6 Wired Mode Support

WireMode interfaces in SonicOS 5.9.0.3 are supported for use with IPv6. Wire Mode is a simplified form of Layer 2 Bridge Mode and operates using a bump-in-the-wire implementation. A Wire Mode interface does not take any IP address and it is typically configured as a bridge between a pair of interfaces. No packets received on a Wire Mode interface will be destined to the firewall, they only bridge traffic.

Wire Mode operates in any one these 4 different modes:

- Bypass Mode
- Secure Mode
- Inspect/Scan Mode
- Tap Mode

 **Note:** Any WireMode interfaces configured in IPv4 will also be available in IPv6, however they are not editable. WireMode interfaces can only be added, edited, or deleted in IPv4.



Network /

Interfaces

Accept

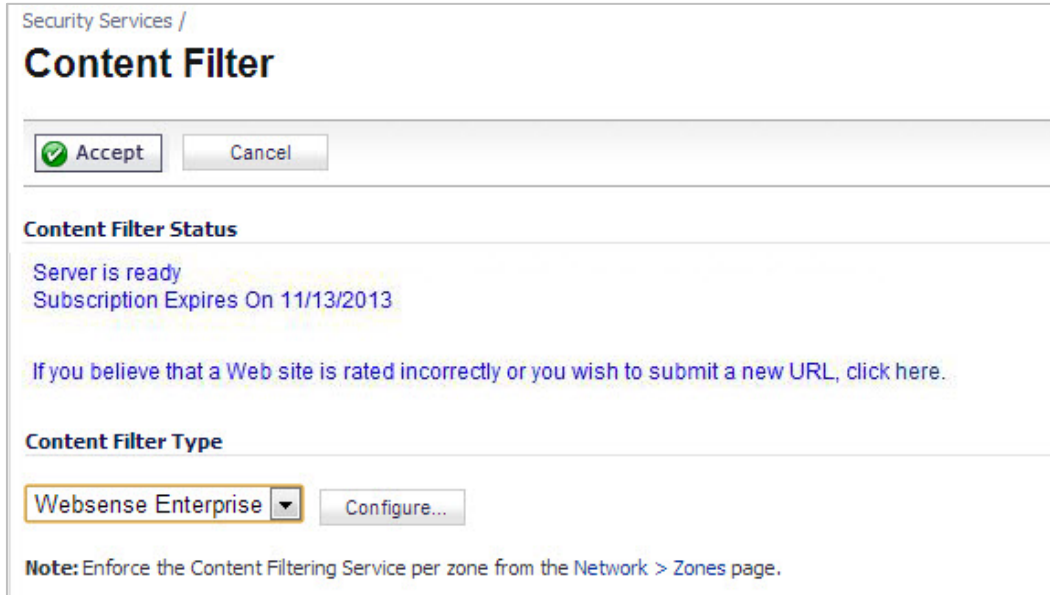
Interface Settings View IP Version: IPv4 IPv6

Name	Zone	IP Assignment	IP Address/Prefix Length	IP Type	Status	Comment	Configure
X0	LAN	Static			No link	Default LAN	
			fe80::217:c5ff:fe0f:6d4c/64	Automatic			
X1	WAN	DHCPv6 <input type="button" value="Renew"/>			1 Gbps Full Duplex	Default WAN	
			fe80::217:c5ff:fe0f:6d4d/64	Automatic			
X2	LAN	WireMode			No link	WireMode Bypass- X3	
X3	LAN	WireMode			No link	WireMode Bypass- X2	

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HTTPS Sites Filtering using Websense

HTTPS sites filtering using Websense is an enhancement of the SonicWALL CFS feature. It allows firewall administrators to block HTTPS network access according to content category policies configured through the Websense Manager.



Security Services /

Content Filter

Accept Cancel

Content Filter Status

Server is ready
Subscription Expires On 11/13/2013

If you believe that a Web site is rated incorrectly or you wish to submit a new URL, [click here](#).

Content Filter Type

Websense Enterprise

Note: Enforce the Content Filtering Service per zone from the [Network > Zones](#) page.

RSA KAT Test for FIPS

For the RSA signing KAT test, this is a small addition, which uses the predefined message body and known RSA key to run the signing process every time when the SonicWALL security appliance is powered up. The signature from the RSA signing process is compared with the known answer to inspect whether the SonicWALL security appliance has any crypto problems. If something wrong happens, the SonicWALL security appliance will fall into FIPS error state to be locked up.

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Supported Key Features

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Supported Key Features by Platform

The following table lists the key features in SonicOS 5.9 and shows which appliance series supports them.

Feature / Enhancement	NSA E-Class Series	NSA Series	TZ 215 Series	TZ 210 Series	TZ 205 Series	TZ 200 Series	TZ 105 Series	TZ 100 Series
Active-Active Clustering	✓	✗	✗	✗	✗	✗	✗	✗
Amazon VPC Support	✓	✓ ¹	✗	✗	✗	✗	✗	✗
App Rules Enhancement	✓	✓	✓	✓	✓	✗	✓	✗
AppFlow Reports	✓	✓	✓	✓	✗	✗	✗	✗
ArcSight Syslog Format Support	✓	✓	✓	✓	✓	✗	✓	✗
Bandwidth Management Enhancement	✓	✓	✓	✓	✓	✓	✓	✓
BGP Advanced Routing	✓	✓ ²	✓ ³	✗	✗	✗	✗	✗
CLI Enhancements ⁴	✓	✓	✓	✓	✓	✓	✓	✓
Client CFS Enforcement	✓	✓	✓	✓	✓	✓	✓	✓
Common Access Card Support	✓	✓	✓	✓	✓	✓	✓	✓
IKE Dead Peer Detection	✓	✓	✓	✓	✓	✓	✓	✓
IKEv2 Configuration Payload Support	✓	✓	✓	✓	✓	✓	✓	✓
IPv6	✓	✓	✓	✓	✓	✗	✓	✗
IPv6 6rd	✓	✓	✓	✓	✓	✗	✓	✗
IPv6 BGP	✓	✓	✓	✓	✓	✗	✓	✗
IPv6 DHCP-PD	✓	✓	✓	✓	✓	✗	✓	✗
IPv6 for Backend Servers	✓	✓	✓	✓	✓	✗	✓	✗
LDAP Group Membership by Organizational Unit	✓	✓	✓	✓	✓	✓	✓	✓

¹ Not supported on NSA 240 or NSA 220 series.

² Not supported on NSA 240. NSA 250M series and NSA 220 series require a license for BGP.

³ Requires License

⁴ Limited CLI command set is supported on NSA 240 and all TZ models

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Feature / Enhancement	NSA E-Class Series	NSA Series	TZ 215 Series	TZ 210 Series	TZ 205 Series	TZ 200 Series	TZ 105 Series	TZ 100 Series
LDAP User Group Monitoring	✓	✓	✓	✓	✓	✓	✓	✓
Log Monitor Filter Input Box	✓	✓	✓	✓	✓	✓	✓	✓
Logging Enhancement	✓	✓	✓	✓	✓	✓	✓	✓
MOBIKE	✓	✓	✓	✓	✓	✗	✓	✗
NetExtender WXAC Integration	✓	✓	✓	✓	✓	✓	✓	✓
Network Device Protection Profile (NDPP Mode)	✓	✓	✓	✓	✓	✓	✓	✓
Numbered Tunnel Interfaces for Route Based VPN	✓	✓ ⁵	✗	✗	✗	✗	✗	✗
One-Touch Configuration Overrides	✓	✓	✓	✓	✓	✗	✓	✗
OpenSSH Vulnerability Security Enhancements	✓	✓	✓	✓	✓	✓	✓	✓
Path MTU Discovery	✓	✓	✓	✓	✓	✓	✓	✓
Proxied Users Identification and login	✓	✓	✓	✓	✓	✓	✓	✓
Reassembly-Free Regular Expression for DPI Engine	✓	✓	✓	✓	✓	✗	✓	✗
SHA-2 in IPsec	✓	✓	✓	✓	✓	✓	✓	✓
SNMPv3	✓	✓	✓	✓	✓	✓	✓	✓
SSL VPN Mobile Connect Bookmark	✓	✓	✓	✓	✓	✓	✓	✓
SSL-VPN Multi-Core Scalability	✓	✓	✓	✗	✓	✗	✗	✗
SSO RADIUS Accounting	✓	✓ ⁶	✗	✗	✗	✗	✗	✗
TSR Enhancements	✓	✓	✓	✓	✓	✓	✓	✓
UDP/ICMP Flood Protection	✓	✓	✓	✓	✓	✗	✓	✗
Wire Mode 2.0	✓	✓ ⁷	✗	✗	✗	✗	✗	✗
WWAN 4G support	✓	✓	✓	✓	✓	✓	✓	✗

⁵ Supported only on NSA 250M and higher models; not supported on NSA 2400MX

⁶ Supported only on NSA 3500 and higher models

⁷ Supported only on NSA 3500 and higher models

Release Notes

Feature / Enhancement	NSA E-Class Series	NSA Series	TZ 215 Series	TZ 210 Series	TZ 205 Series	TZ 200 Series	TZ 105 Series	TZ 100 Series
XD Lookup for Access Rules	✓	✓	✓	✓	✓	✓	✓	✓
YouTube for Schools Support	✓	✓	✓	✓	✓	✓	✓	✓

Supported SonicPoint and Wireless Features by Platform

Feature / Enhancement	NSA E-Class Series	NSA Series	TZ 215 Series	TZ 210 Series	TZ 205 Series	TZ 200 Series	TZ 105 Series	TZ 100 Series
External Guest Service Apache / PHP support	✓	✓	✓	✓	✓	✓	✓	✓
External Guest Service FQDN support	✓	✓	✓	✓	✓	✓	✓	✓
Guest Admin Support	✓	✓	✓	✓	✓	✗	✓	✗
Internal Radio IDS scan scheduling ⁸	✗	✓	✓	✓	✓	✓	✓	✓
SonicPoint 802.11e (WMM) QoS	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint Auto Provisioning	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint retain custom configuration	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint DFS support	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint Diagnostics Enhancement	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint FairNet Support	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint RADIUS Server Failover	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint WPA TKIP Countermeasures and MIC Failure Flooding Detection and Protection	✓	✓	✓	✓	✓	✓	✓	✓
SonicPoint Layer 3 Management	✓	✓ ⁹	✓	✗	✗	✗	✗	✗
Traffic Quota-based Guest Svc Policy	✓	✓	✓	✓	✓	✓	✓	✓
Virtual Access Point ACL Support	✓	✓	✓	✓	✓	✓	✓	✓
Virtual Access Point group sharing across dual radios	✓	✓	✓	✓	✓	✓	✓	✓
Virtual Access Point Layer 2 bridging	✓	✓	✓	✓	✓	✓	✓	✓
Virtual Access Point scheduling	✓	✓	✓	✓	✓	✓	✓	✓

⁸ Only supported on platforms with internal wireless radio

⁹ Not supported on NSA 240

Release Notes

Feature / Enhancement	NSA E-Class Series	NSA Series	TZ 215 Series	TZ 210 Series	TZ 205 Series	TZ 200 Series	TZ 105 Series	TZ 100 Series
Wireless Client Bridge Support ¹⁰	✗	✓	✓	✓	✓	✓	✓	✓
Wireless PCI Rogue detect/prevention	✓	✓	✓	✓	✓	✓	✓	✓
Wireless Radio Built-in Scan Sched ¹¹	✗	✓	✓	✓	✓	✓	✓	✓

Supported/Unsupported IPv6 Features

The table in this section summarizes the key SonicOS 5.9.0.3 features that support IPv6.

To see which appliance platforms support IPv6, refer to the “Supported Key Features by Platform” section.

Features Available with IPv6	Features Not Available with IPv6
<ul style="list-style-type: none"> • 6to4 tunnel (allows IPv6 nodes to connect to outside IPv6 services over an IPv4 network) • Access Rules • Address Objects • Anti-Spyware • Application Firewall • Attack prevention: <ul style="list-style-type: none"> ○ Land Attack ○ Ping of Death ○ Smurf ○ SYN Flood • Connection Cache • Connection Limiting for IPv6 connections • Connection Monitor • Content Filtering Service • DHCP • DNS client • DNS lookup and reverse name lookup • Dynamic Routing (RIPng and OSPFv3) • EPRT • EPSV • FTP • Gateway Anti-Virus • High Availability: <ul style="list-style-type: none"> ○ Connection Cache ○ FTP ○ IPv6 management IP address ○ NDP ○ SonicPoint • HTTP/HTTPS management over IPv6 • ICMP • IKEv2 • Intrusion Prevention Service • IP Spoof Protection • IPv4 Syslog messages, including messages with 	<ul style="list-style-type: none"> • Anti-Spam • Command Line Interface • DHCP over VPN • DHCP Relay • Dynamic Address Objects for IPv6 addresses • Dynamic DNS • FQDN • Global VPN Client (GVC) • GMS • H.323 • High Availability: <ul style="list-style-type: none"> ○ Multicast ○ Oracle SQL/Net ○ RTSP ○ VoIP • IKEv1 • IPv6 Syslog messages • L2TP • LDAP • MAC-IP Anti-Spoof • NAT between IPv6 and IPv4 addresses • NAT High Availability probing • NAT load balancing • NetBIOS over VPN • NTP • QoS Mapping • RADIUS • RAS Multicast Forwarding • Route-based VPNs • Single Sign On • SIP • SMTP Real-Time Black List (RBL) Filtering • SSH • Transparent Mode

¹⁰ Only supported on platforms with internal wireless radio

¹¹ Only supported on platforms with internal wireless radio

Release Notes

Features Available with IPv6	Features Not Available with IPv6
<ul style="list-style-type: none">IPv6 addresses• IPv6 BGP• IPv6 for Backend Servers• Layer 2 Bridge Mode• Logging IPv6 events• Login uniqueness• Multicast Routing with Multicast Listener Discovery• NAT• Neighbor Discovery Protocol• NetExtender connections for users with IPv6 addresses• Packet Capture• Ping• Policy Based Routing• PPPoE• Remote management• Security services for IPv6 traffic with DPI• Site-to-site IPv6 tunnel with IPsec for security• SonicPoint IPv6 support• SNMP• SSL VPN• Stateful inspection of IPv6 traffic• User status• Visualization• VLAN interfaces with IPv6 addresses• VPN policies• Wireless• WireMode	<ul style="list-style-type: none">• ViewPoint• Virtual Assistant• Web proxy

Release Notes

Related Technical Documentation

Dell SonicWALL user guides and reference documentation are available at the Dell SonicWALL Technical Documentation Online Library: <http://www.sonicwall.com/us/Support.html>

For basic and advanced deployment examples, refer to SonicOS Guides and SonicOS TechNotes available on the website.

The screenshot shows the Dell SonicWALL Support website interface. At the top, there is a navigation bar with the Dell logo, 'SonicWALL' brand name, and links for 'Products', 'Solutions', 'How to Buy', 'Support', 'Sign In', and 'Register'. A search bar is located on the right. Below the navigation bar, the breadcrumb trail reads: 'Support > Product Documentation > Network Security > NSA E-Class Series'. The main content area is titled 'Product Support' and features a large image of the E-Class NSA Series Appliances. To the right of the image is the title 'E-Class NSA Series Appliances' and social media sharing buttons for Facebook, LinkedIn, and Twitter. Below the image, there are two tabs: 'Support Documents' (selected) and 'Knowledge Base'. The 'Support Documents' section is divided into three columns: 'List View Options' (with filters for Video Tutorials, Product Guides, Technical Notes, FAQs, Release Notes, and Support Data Sheets), 'Product Guides' (listing guides like 'SonicWALL Mobile Connect for Apple iOS 2.0 User Guide' and 'SonicOS 5.9 Administrator's Guide'), and 'Technical Notes' (listing notes like 'Configuring SonicOS for Amazon VPC Tech Note' and 'Integrating CradlePoint with SonicOS 5.9'). A left-hand navigation menu contains various support categories such as 'Overview', 'Product Documentation', 'Network Security', 'SuperMassive Series', 'NSA E-Class Series', 'NSA Series', 'PRO Series', 'TZ Series', 'WXA Series', 'SonicPoint Series', 'Gateway Anti-Virus, Anti-Spyware & Intrusion Prevention', 'Comprehensive Anti-Spam Service', 'Content Filtering Service', 'SSL VPN Secure Remote Access', 'Email Security Appliances and Software', 'Management & Reporting', 'Content Security Management', 'Client Software', 'Legacy Products', 'Self-Help Resources', 'Support Services', 'Professional Services', 'Guidelines & Policies', 'Product Lifecycle', 'Contact Support', 'Report a Vulnerability', and 'Training / Certification'.

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