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Release Purpose

SonicOS 5.9.1.0 is a Feature Release for Dell SonicWALL NSA E-Class, NSA, and TZ series network security appliances.

Platform Compatibility

The SonicOS 5.9.1.0 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.
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 www.sonicwall.com Support/Product Documentation page for NSA or TZ series:


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.

New Features

SonicOS 5.9.1.0 includes the following new features for Dell SonicWALL NSA and TZ series appliances.

**SonicPoint AC**

SonicPoint AC provides higher throughput in the 5-GHz band by providing more antennas, wider channels, more spatial streams, and other features that boost throughput and reliability. SonicPoint supports both the 5-GHz and 2.4-GHz radio bands. SonicPoint AC has the following key technical components:
- Wider Channels—80 MHz and 160 MHz channel bandwidths
- New Modulation and Coding—256-QAM, rate 3/4 and 5/6 added as option modes
- Up to 8 Spatial Streams—Adding spatial streams increases throughput proportionally. Two streams doubles the throughput of a single stream. Eight streams increases the throughput eight times.
- Multi-User MIMO—Multiple Input Multiple Output spatial division multiplexing provides transmitting and receiving of multiple independent data streams simultaneously.

SonicPoint AC requires POE+ (802.3at Type 2) which supplies 30 watts peak power.

**Remote MAC Access Control**

The Enable Remote MAC Access Control option has been added for SonicPoints.

**SSL VPN Based Management for SonicPoints**

As a part of SonicWALL Advanced Management Protocol (SAMP) suite, SonicWALL SSL VPN Based Management Protocol (SSMP) utilizes the SonicWALL SSL VPN solution to provide remote SonicPoint N management. SonicPoint N has integrated NetExtender client and supports SSL VPN remote access in the standalone models as the following figure shows.
### Known Issues

This section contains a list of known issues in the SonicOS 5.9.1.0 release.

#### High Availability

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition / Workaround</th>
<th>Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Active firewall displays a fatal error and the Secondary firewall reboots.</td>
<td>Occurs when trying to generate guest accounts on the active firewall.</td>
<td>152595</td>
</tr>
</tbody>
</table>

#### SonicPoints

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition / Workaround</th>
<th>Issue</th>
</tr>
</thead>
</table>
| The wrong MAC address is added to the custom group that is set to list "All Rogue Access Points" and "All Rogue Devices", and only one radio is listed. The MAC addresses and Station IP addresses for both the 2.4 GHz Radio (Radio 1) and the 5 GHz Radio (Radio 0) should be listed. | Occurs when a SonicPoint has both the 2.4 GHz Radio (Radio 1) and the 5 GHz Radio (Radio 0) enabled, and the SonicPoint is connected to the LAN interface of the firewall, and a wireless client is connected to the SonicPoint, and the following options are enabled on the SonicPoint:  
  - WIDP Sensor is always on  
  - Wireless Intrusion Detection and Prevention  
  - Add connected unauthorized AP into Rogue AP list  
  - Enable ARP cache lookup to detect connected rogue AP  
  - Block traffic from rogue AP and its associated clients | 152941  |
| The SonicPoint ACe and NDRv2 devices both reboot, and the 2.4 GHz channel does not synchronize correctly. | Occurs when Auto-provisioning is enabled for the SonicPoint NDR Provisioning Profile and the SonicPoint AC Provisioning Profile on the WLAN zone, and either of these profiles is modified. | 151773  |
| The IP address displayed in the station status of the SonicPoint is different from the IP address displayed on the client PC. | Occurs when a wireless PC is connected to a SonicPoint Ace or SonicPoint NDRv2. | 151768  |
| SonicPoint EAP authentication with the second RADIUS server does not complete successfully. | Occurs when a SonicPoint is connected to a firewall and the Authentication Type is WPA2-EAP, and the IP address of the first RADIUS Server is a fake IP address, but the IP address of the second RADIUS Server is real IP address, and a connection is established from a wireless PC to the SonicPoint. | 151566  |

#### SSL VPN

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition / Workaround</th>
<th>Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSL VPN NetExtender clients cannot establish connections to the firewall.</td>
<td>Occurs when the WAN interface (X1) is configured in Point to Point Tunneling Protocol (PPTP) mode. All other modes work fine.</td>
<td>153519</td>
</tr>
<tr>
<td>A Virtual Office bookmark returns the following error message: “Failed in SSL Decrypt”</td>
<td>Occurs when an SSL VPN client is logged into the firewall through a Remote Desktop Connection and tries to launch the edp5activex bookmark.</td>
<td>153272</td>
</tr>
</tbody>
</table>
## Release Notes

### Symptom

<table>
<thead>
<tr>
<th>Symptom</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Web Management and SSH Management over SSL VPN do not respond.</td>
<td>Occurs when the WAN zone is configured for SSL VPN, and the &quot;Enable Web Management over SSL VPN&quot; option is selected, the default device profile is configured with an address range of 192.168.168.10 to 192.168.168.20 on subnet X0, a Firewall Access Rule is configured with Matrix View Style: SSLVPN &gt; LAN allow, Source Port: Any, Service: HTTPS Management, Source: (the selected Device Profile's &quot;SSLVPN IP Range&quot; object), Destination: X0 IP, a local user is configured with SSLVPN service, Sonicwall Admin privileges, VPN Access: X0 subnet , NX on wan pc connects to the server, open <a href="https://192.168.168.168">https://192.168.168.168</a>.</td>
<td>153399</td>
</tr>
<tr>
<td>Virtual assist cannot be downloaded through the portal page.</td>
<td>Occurs when using Internet Explorer (IE) as the browser and the WAN zone is configured for SSL VPN.</td>
<td>153354</td>
</tr>
<tr>
<td>The SSLVPN WAN Access Rule does not get removed from the Access Rule table after it is changed.</td>
<td>Occurs when the “Tunnel All Mode” option is changed from enabled to disabled and the network IP address is changed at the same time.</td>
<td>153276</td>
</tr>
<tr>
<td>The NetExtender Client cannot be downloaded from the SSL VPN &gt; Virtual Office page.</td>
<td>Occurs when the user is logged into the firewall from a Windows device and clicks the Download NetExtender button on the SSL VPN &gt; Virtual Office page.</td>
<td>153104</td>
</tr>
</tbody>
</table>

### System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition / Workaround</th>
<th>Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Importing a CA Certificate does not complete successfully.</td>
<td>Occurs when the date and time of the certificate is changed to a valid date that is within the expiration date.</td>
<td>152836</td>
</tr>
</tbody>
</table>
Related Technical Documentation

Release Notes and User Guides
Dell SonicWALL E-Class NSA Series Release Notes and User Guides are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-e-class-nsa-series/release-notes-guides

Dell SonicWALL NSA Series Release Notes and User Guides are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-nsa-series/release-notes-guides

Dell SonicWALL TZ Series Release Notes and User Guides are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-tz-series/release-notes-guides

Knowledge Base Articles
Dell SonicWALL E-Class NSA Series Knowledge Base articles and links are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-e-class-nsa-series/kb

Dell SonicWALL NSA Series Knowledge Base articles and links are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-nsa-series/kb

Dell SonicWALL TZ Series Knowledge Base articles and links are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-tz-series/kb#

Instructional Videos
Dell SonicWALL E-Class NSA Series instructional videos are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-e-class-nsa-series/videos

Dell SonicWALL NSA Series instructional videos are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-nsa-series/videos

Dell SonicWALL TZ Series instructional videos are available on the Dell Software Support site:

https://support.software.dell.com/sonicwall-tz-series/videos

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