

11 REASONS TO UPGRADE TO AN NSA 4600/5600/6600 FROM AN NSA 4500/5000/E5500/E6500/E7500/E8500/E8510

Quick Glance

Legacy NSA

Current NSA Firewalls



Feature	NSA 4500/5000	NSA E5500/E6500	NSA E7500	NSA E8500/E8510	NSA 4600/5600	NSA 6600
Processors	8x550 MHz	8x550 MHz 16x550 MHz	16x600 MHz	16x800 MHz	8x1.1 GHz 10x1.3 GHz	24x1.0 GHz
Memory	512 MB 1 GB	1 GB	2 GB	4 GB	4 GB	4 GB
Physical interfaces	6x1-GbE, 1Mgmt	8x1-GbE, 1x1-GbE HA, 1Mgmt	4x1-GbE SFP, 4x1-GbE, 1x1-GbE HA, 1Mgmt	4x1-GbE SFP, 4x1-GbE, 1x1-GbE HA, 1Mgmt 2x10-GbE SFP+, 4x1-GbE, 1x1-GbE HA, 1Mgmt	2x10-GbE SFP+, 4x1-GbE SFP, 12x1-GbE, 1Mgmt	4x10-GbE SFP+, 8x1-GbE SFP, 8x1-GbE, 1Mgmt
Deep Packet Inspection (DPI) performance	600 Mbps 800 Mbps	850 Mbps 1.59 Gbps	1.7 Gbps	2.2 Gbps	800 Mbps 1.6 Gbps	3 Gbps
SSL Inspection and Decryption (DPI SSL) performance	250 Mbps	250 Mbps 550 Mbps	600Mbps	700 Mbps	500 Mbps 800 Mbps	1.3 Gbps
Connections per second	10,000/sec 12,000/sec	30,000/sec 60,000/sec	64,000/sec	85,000/sec	40,000/sec 60,000/sec	90,000/sec
Single sign-on (SSO) users	1,000	2,500 4,000	7,000	7,000	50,000 60,000	70,000
DPI SSL licenses included	✗	✗	✗	✗	✓	✓
DPI SSL enhancements	✗	✗	✗	✗	✓	✓
Capture Advanced Threat Prevention service	✗	✗	✗	✗	✓	✓
Content Filtering 4.0 features	✗	✗	✗	✗	✓	✓

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1. Higher performance to meet the demands of modern-day threat prevention

- **The Benefit:** Having more and faster processors allows the NSA 4600/5600/6600 firewalls to process network traffic more quickly, delivering better overall performance needed for modern-day threat prevention.
- **The Difference:** Current NSA series firewalls have up to 3x the number of security processors as their predecessors (24 vs. 8). In addition, NSA 4600/5600/6600 firewalls leverage faster CPU core speeds compared to legacy NSA firewalls.

2. More local storage for rules/policies, user IDs and log messages

- **The Benefit:** Increased onboard memory allows for more rules/policies, users and log messages to be stored on the firewall.
- **The Difference:** The NSA 4600/5600/6600 have 4 GB of onboard memory which is up to 4x that of legacy NSA series firewalls with the exception of the E8500 series).

3. Higher port density and 10-GbE SFP+ interfaces

- **The Benefit:** Having a greater number of ports allows organizations to connect more devices directly to the SonicWall firewall without needing to purchase a switch. The NSA 4600/5600/6600 also have 10-GbE SFP+ ports for organizations that require increased throughput to support bandwidth-intensive applications and data transfer. The NSA E8510 is the only legacy NSA firewall with 10-GbE SFP+ ports.
- **The Difference:** The NSA 4600/5600/6600 have up to 3x the number of ports as the legacy NSA firewalls (20 vs. 6). In addition, the NSA E8510 is the only legacy NSA firewall with 10-GbE SFP+ ports. The NSA 4600 and NSA 5600 both have two 10-GbE SFP+ ports and the NSA 6600 has four.

4. Faster Deep Packet Inspection (DPI) performance

- **The Benefit:** With increased network bandwidth requirements from apps, video streaming and social media, a faster DPI performance firewall provides a secure network without performance degradation. Having a faster DPI performance firewall provides organizations with a greater capacity to utilize higher Internet speeds and support more concurrent users.
- **The Difference:** The NSA 6600 offers significantly faster DPI performance than any legacy NSA firewall (6x vs. the NSA 4500 and almost 1.5x vs. the NSA E8510).

5. Higher performance DPI scanning of SSL-encrypted traffic

- **The Benefit:** Scanning of SSL-encrypted traffic (DPI SSL) is CPU-intensive and can slow down network performance. Faster DPI scanning of encrypted traffic enables organizations to have greater network performance and utilization.
- **The Difference:** The NSA 5600 and NSA 6600 offer faster DPI SSL performance than every legacy NSA firewall, with the NSA 6600 delivering almost 1.4x the performance of the NSA E8510 (3.0 Gbps vs. 2.2 Gbps).

6. More connections per second to support increased simultaneous user sessions

- **The Benefit:** Having a higher number of connections per second provides greater scalability by enabling more simultaneous sessions to be active per second and tracked by the firewall.
- **The Difference:** The NSA 6600 provides a 9x connection per second improvement when compared with the NSA 4500 (90,000 vs. 10,000) and a 1.4x improvement compared to the NSA E7500.

7. Reduced IT support costs and improved security with more SSO users

- **The Benefit:** The single sign-on (SSO) feature improves employee productivity and reduces IT support costs by enabling users to gain access to connected systems with a single ID and password. SSO also provides the ability to track users by ID, simplifying policy creation and reporting.
- **The Difference:** The current generation of NSA series firewalls enables a dramatically higher population of users to benefit from the use of a single sign-on feature, with the NSA 6600 offering a 10x increase over the NSA E7500/E8500/E8510 (70,000 vs. 7,000).

8. Reduced IT costs to support encrypted traffic inspection

- **The Benefit:** The SonicWall 2016 Security Annual Threat Report found increased encrypted traffic, leading to more under-the-radar hacks. Deep packet inspection of encrypted traffic (SSL/TLS) is mandatory for organizations of all sizes.
- **The Difference:** The NSA 4600/5600/6600 include the license by default to inspect encrypted traffic at no additional cost thereby reducing the capital expense. All legacy NSA firewalls require a separate DPI SSL license to scan encrypted traffic.

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9. Greater security, manageability, troubleshooting and ease-of-use through DPI SSL enhancements

- **The Benefit:** Multiple enhancements in SonicOS 6.2.5 significantly advance capabilities associated with deep packet inspection of SSL-encrypted traffic, including providing more efficient inspection of DPI SSL traffic, as well as improved troubleshooting, better scalability and an increase in the number of default certificates supported.
- **The Difference:** The NSA 4600/5600/6600 run SonicOS 6.2.5 firmware which includes support for key DPI SSL enhancements not available on legacy NSA firewalls which run SonicOS 5.9 firmware.

10. Increased security against advanced threats through SonicWall Capture

- **The Benefit:** Advanced threats are on the rise affecting all businesses. SonicWall Capture, a multi-engine cloud-based service, provides high security effectiveness against advanced persistent threats and zero-day attacks.
- **The Difference:** SonicWall Capture, a cloud-based service is available for the 4600/5600/6600. This service is not available for legacy NSA firewalls.

11. Fine-grained web/URL filtering controls and ease of use with Content Filtering Service 4.0

- **The Benefit:** SonicWall Content Filtering Service (CFS) v. 4.0 provides additional administrative controls to enforce more comprehensive protection and productivity policies as well as blocking inappropriate, unproductive and illegal web content from the network for better performance and ease of use.
- **The Difference:** The NSA 4600/5600/6600 run SonicOS 6.2.6 firmware which includes support for wildcard matching, embedded URI filtering, granular block page controls and more features available in CFS 4.0. Legacy NSA firewalls run SonicOS 5.9 firmware which does offer these capabilities.