

# What's New in Sophos Firewall



**SOPHOS**  
Cybersecurity evolved.

# Key New Features in Sophos Firewall OS v19.5

## Xstream SD-WAN and Routing

### SD-WAN Load Balancing

SFOS v19 introduced Xstream SD-WAN with many new SD-WAN capabilities such as profiles and routing strategies based on link performance, as well as Xstream FastPath acceleration of IPsec traffic, enhanced logging, monitoring and reporting, and much more.

SFOS v19.5 adds new SD-WAN load balancing to the Xstream SD-WAN feature list. This enables simultaneous routing of application traffic across multiple SD-WAN links for optimal performance and redundancy.

The graphic is divided into three main sections:

- Sophos Firewall SD-WAN Hardware:** Shows the Sophos Firewall XGS Series with Xstream FastPath Acceleration (SD-WAN | Apps | Cloud | IPsec) and the SD-RED 20/60 Zero-Touch Remote Edge Devices.
- Sophos Central SD-WAN Management:** Displays the SD-WAN Orchestration interface with a map and the SD-WAN Reporting dashboard with a line graph.
- Xstream SD-WAN in Sophos Firewall OS:** A grid of features:
  - 19 Performance SLA Link Selection:** Jitter | Latency | Packet Loss | Zero-Impact Transitions.
  - 19 Link Management and Enhanced Routing:** App | User | Service | Failover | Failback.
  - 19 Real-time Monitoring and Logging:** Link Performance | Routing.
  - 19 SD-WAN Profiles with Multiple Gateways:** Up to 8 Gateways.
  - 19.5 Link Load Balancing:** Simultaneously routing of application traffic across multiple links | MPLS | WAN | VPN | RED.
  - ∞ Synchronized App Control Awareness:** Obscure and Custom Apps.

At the bottom, it features **Azure Virtual WAN Support** with the Azure logo.

### IPsec VPN Concurrent Tunnel Capacity

SFOS v19.5 includes significant capacity and performance enhancements for IPsec with up to double the number of concurrent tunnels now supported. The exact IPsec tunnel capacity increases depend on model and will be published closer to launch after testing and benchmarking is complete.

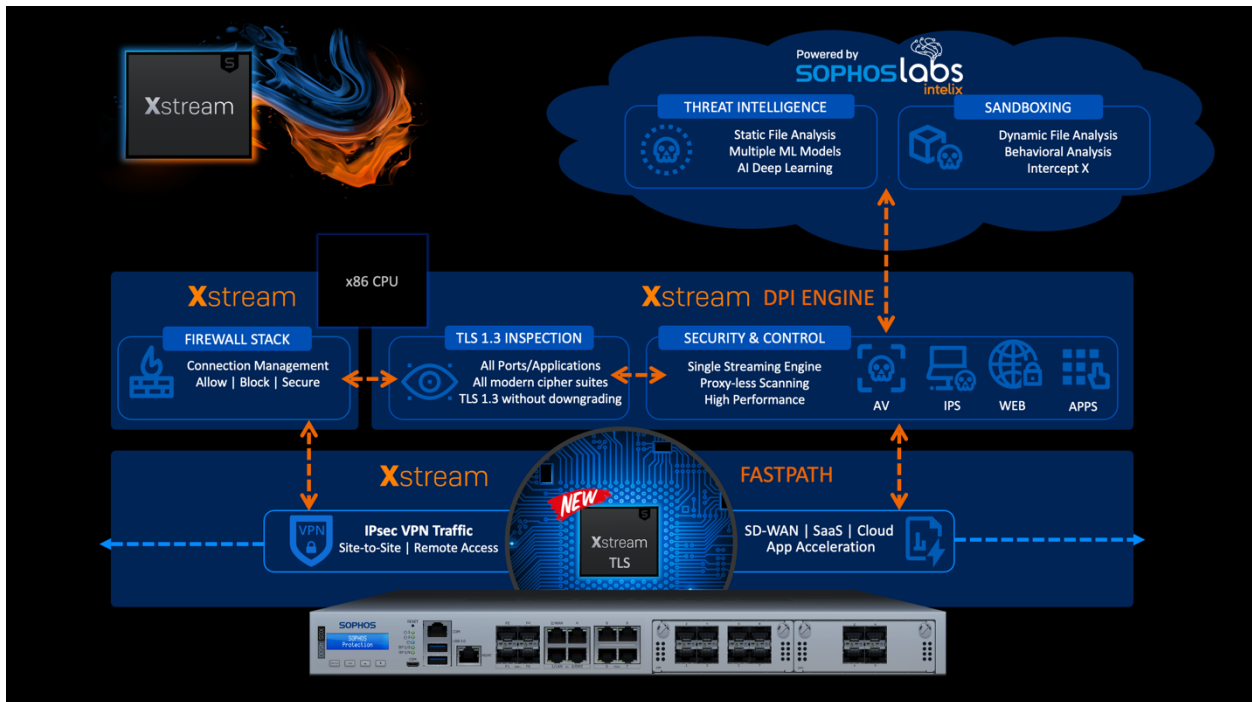
## Dynamic Routing with OSPFv3

SFOS v19.5 introduces a new dynamic routing engine with OSPFv3 (IPv6) support which has been one of our top requested features. OSPFv3, or Open Shortest Path First version 3, is a link-state routing protocol that enables dynamic routing, enhanced flexibility, improved security, better performance, and reduced complexity.

## Xstream Protection and Performance

### Xstream FastPath Acceleration for TLS Encrypted Traffic

Sophos Firewall OS v18 introduced the Xstream Architecture that enables FastPath acceleration of trusted traffic flows. The new XGS Series hardware appliances added dedicated Xstream Flow Processors for hardware acceleration of trusted traffic flows. One of the great benefits of the programmable flow processor is that additional features and capabilities can be added over time to further improve performance.



SFOS v19.5 adds TLS encrypted traffic FastPath acceleration for select XGS Series appliances which automatically puts TLS encrypted traffic flows on the FastPath through the Xstream Flow Processor. This takes full advantage of the hardware crypto capabilities within the Xstream Flow Processor and has the benefit of improving overall throughput and freeing up CPU resources for other tasks like deep-packet inspection. This new capability will be supported on the XGS 4300, 4500, 5500 and 6500.

## High Availability (HA)

### Status, Visibility and Ease-of-Use

Several user interface enhancements improve the status and visibility of your high-availability cluster with a new control center widget, enhanced status panel, and new node names for easy device identification.

High availability status

**HA** Connected (Active-Passive)  
HA nodes are connected and fully functional.

Node name	Serial number	Current role	Current status	Last status change
Node1 (Local) Initial primary. Holds license for cluster.	SFDemo-c07-kabir-vm-21	Primary	Active	03:54:58 AM, Apr 08, 2022
Node2 (Peer)	SFDemo-c07-kabir-vm-22	Auxiliary	Passive	03:54:39 AM, Apr 08, 2022

In addition to the features mentioned above, new command line interface options and improved status within Sophos Central round out this set of enhancements.

The end result is a much improved management experience, with less errors in identifying the correct device for licensing administration or initial configuration.

### Redundant Link Support

High Availability pairs can now be connected with redundant HA links to add resiliency and prevent split-brain conditioning. Up to 4 links can be provisioned for HA pairs. In addition, VLAN interfaces are now supported for HA links, and VLAN interface monitoring is now available. SG UTM customers will be familiar with these capabilities.

## Other Quality of Life Enhancements

**Host and Service Object Search** – A popular feature carried over from our SG UTM product line, you can now perform free text searches for host and service objects by name (or any text within the name) or by value to simplify rule setup. This enables you to quickly search the object store to determine if an object of interest already exists to ensure redundant objects aren't being created unnecessarily.

**Enhanced .log file storage** – Now admin/Support can configure more than one log file archives for better troubleshooting and retention more log file for advanced troubleshooting. This is another featured carried over from our SG UTM platform.

**Azure AD SSO for web console UI login** – offers and alternate easy and secure way to authenticate administrators on your firewall.

**Enhanced 40G Interface Support** – including auto-detection of advanced port configurations including link mode and auto-negotiation. Also supports breakout of 40G interfaces on XGS 5500/ 6500 appliances into 4 x 10G interfaces using DAC or Fibre breakout cables.

## New Hardware Support

**5G and LTE Interface Modules** – launching alongside v19.5 are new 4G and 5G hardware modules for XGS 116(w), 126(w), and 136(w) models that offer high-speed internet connections to cellular networks.

- A new 4G CAT-7 module offers increased upload speeds of up to 150 Mbps
- A new 5G module enables 5G cellular network connections using the 5G Sub-6 bands with download speeds of up to 4.5 Gbps and upload speeds of up to 600 Mbps (depending on carrier and region)

Further details on the new hardware modules will be announced closer to launch.