SAFIRE

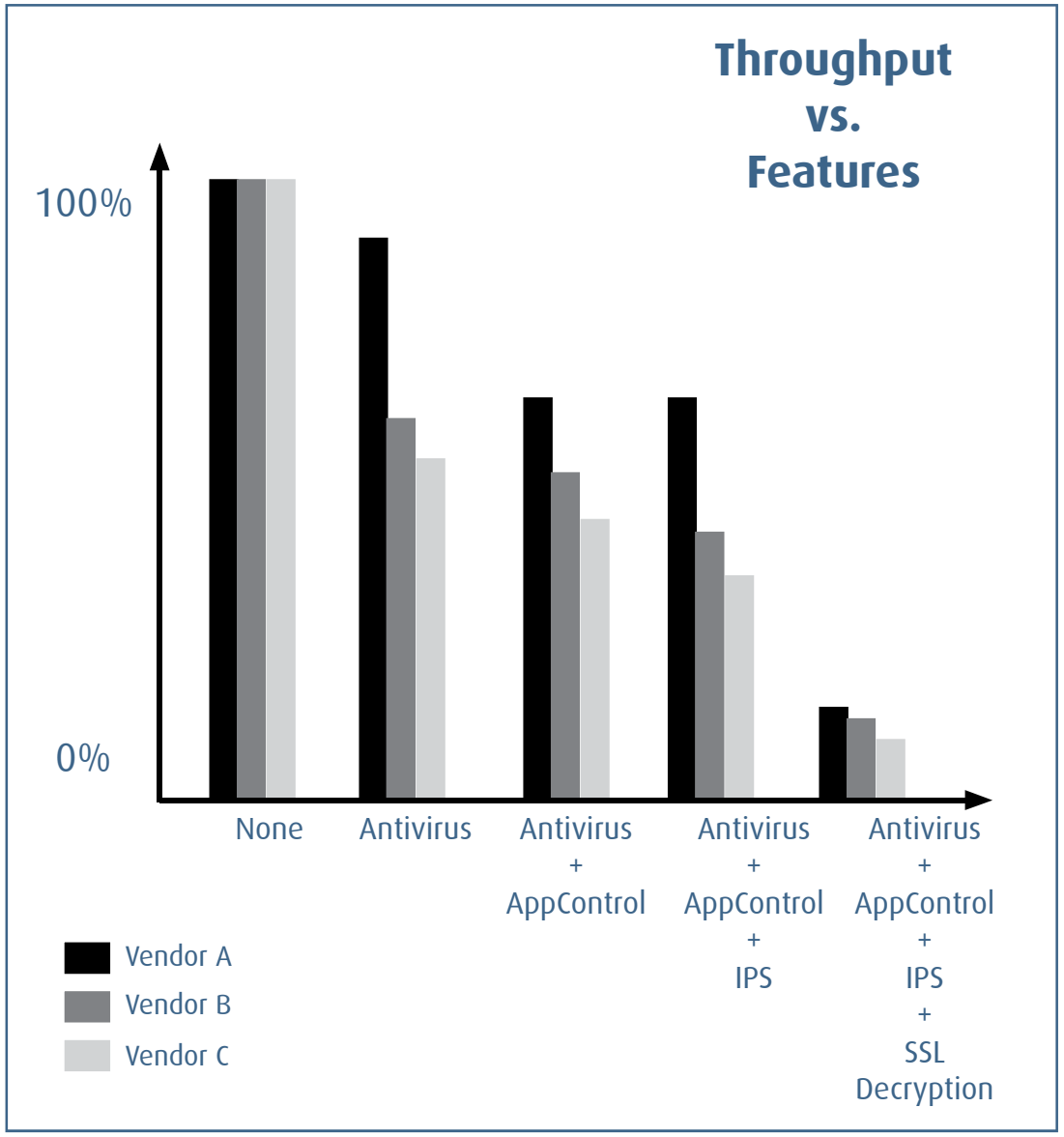
NEXT-GENERATION FIREWALL TESTER

Safire makes it easy to accurately measure the performance of Next-Generation Firewalls (NGFWs). Using realistic network traffic, Safire pinpoints performance bottlenecks in simple-to-understand graphs, clearly revealing how features like antivirus, appcontrol, IPS and SSL decryption impact throughput.

NGFWs are designed to improve network security when segmenting corporate LANs. Like most security solutions, the challenge is preventing the added security from impacting LAN performance. Each of the advanced security functions offered by NGFWs has a performance penalty. Combined, these features can easily reduce performance 90%! Slowing the network down to 10% of its true potential means frustrated users and reduced business performance.

Up until now there has been no simple, cost-effective solution to this problem. NGFWs are complex devices. Obtaining accurate and standardized performance specifications from firewall vendors can be hard. And as the topology of every LAN is different, and the type of traffic varies dramatically from company to company, IT managers often struggle to accurately characterize the performance of their NGFW. This is true both during the initial purchasing process, as well as after the NGFW has been deployed. Firmware updates and major infrastructure changes, such as link speed upgrade, network topology modifications and rolling out new applications, will also impact a NGFW's performance.

Up until now, the only way to comprehensively address this issue has been to invest in complex and expensive test solutions and consultants that often cost more than the NGFW itself.



Safire clearly documents the true performance of NGFWs under real-world conditions when different features are enabled.

Meet Safire – the "no-fuss" NGFW tester

Safire is a compact, cost-effective solution
Safire is different. Simply connect the small test unit to your NGFW, and then define a traffic profile that matches your specific network, and which features on the NGFW you want to measure. Initiate the test and within minutes Safire will compile a comprehensive PDF report detailing how each feature impacts performance with easy-to-understand graphs that clearly pinpoint the NGFW's breaking point and a wealth of other data.

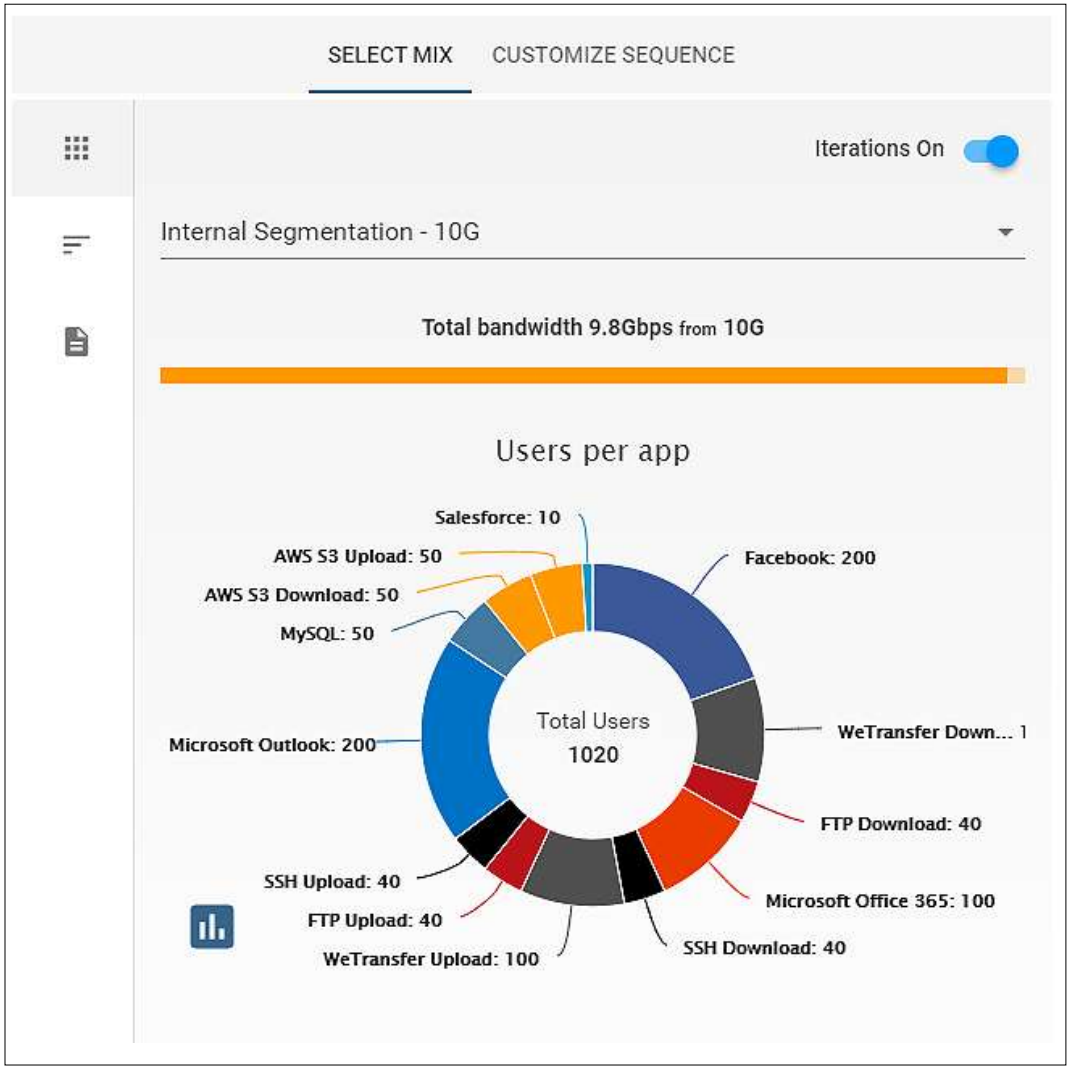
Safire is ideal for evaluating different NGFWs prior to purchase, and makes it easy to regularly test NGFW performance once deployed. This can be done, for example, in connection with NGFW firmware updates, or prior to going live with major infrastructure changes, such as link speed upgrades, network expansion, topology changes, or rolling out of new enterprise applications.

Highly realistic traffic mixes
One reason why Safire is so effective is it includes a pre-defined library of application traffic and protocols to ensure highly realistic traffic mixes.

Each enterprise has a unique traffic signature. Performance testing NGFWs, where application-awareness is widely used for policing enterprise network traffic, requires real-world traffic that match the unique traffic pattern in your network.

Safire makes it easy to create custom traffic mixes of up-to-date applications and protocols from the real world to reveal the true bottleneck of your firewall.

Save time and money
Another key advantage is Safire's easy-to-use web UI which quickly generates simple-to-understand graphical reports. This speeds up decision-making process, clearly pinpointing performance bottlenecks of NGFWs as different security policies and features are enabled on the same or different firewalls.



Safire's intuitive GUI lets you quickly define precise mixes of application traffic and users to accurately emulate your network's real traffic profile.

Key Safire features

Check goodput and throughput

Safire clearly documents goodput, which is the application-level throughput (i.e. the number of useful information bits delivered by the network to a pecific destination per unit of time). It also measures Layer 1 throughput with different concurrent sessions, packet sizes, traffic mixes, and traffic characteristics in easy-to-understand graphs.

Security Perimeter and Internal Segmentation

Test with asymmetric or symmetric traffic patterns and different mixes on various NGFW deployment topologies. Security perimeter firewalls protect enterprise against inbound traffic. Internal segmentation firewalls protect internal LAN network segments, where the demand for performance is much higher than those at the edge.

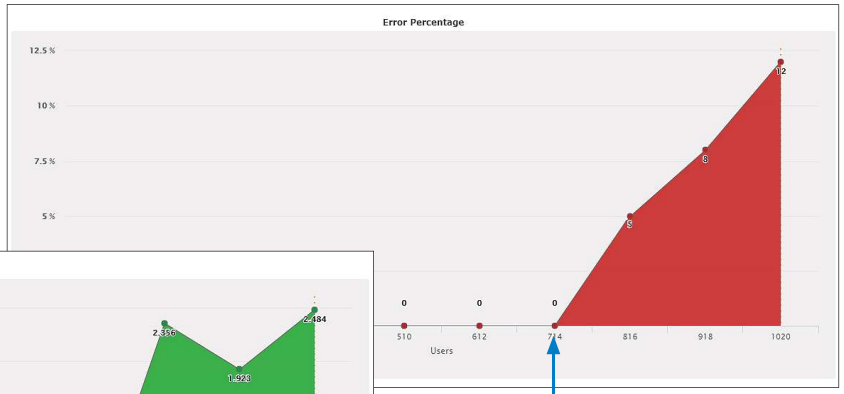
SSL Deep Inspection Performance Test

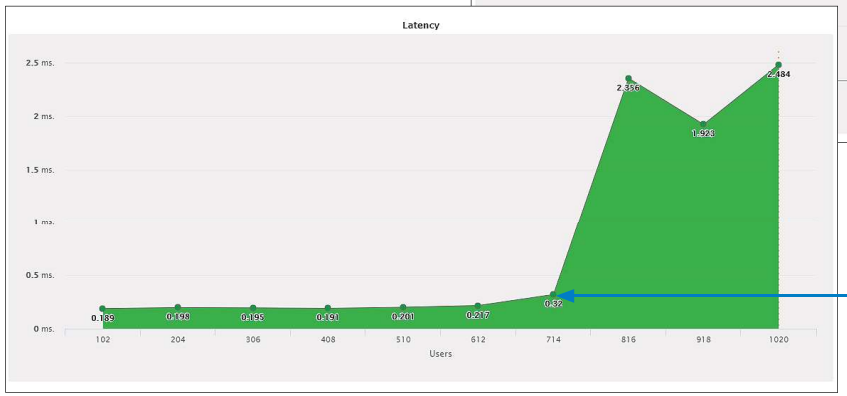
Run tests with the latest standardized TLS encryption to identify the impact of enabling SSL deep inspection policy on your NGFWs.

Smart Test Result Analysis

Quickly compare different test results for a smart analysis on how different firewalls perform with the same features enabled, or how the same firewall performs when different features and policies are enabled.

Easy-to-understand reports
Safire produces attractive PDF reports that highlight important performance indicators for efficient decision-making.



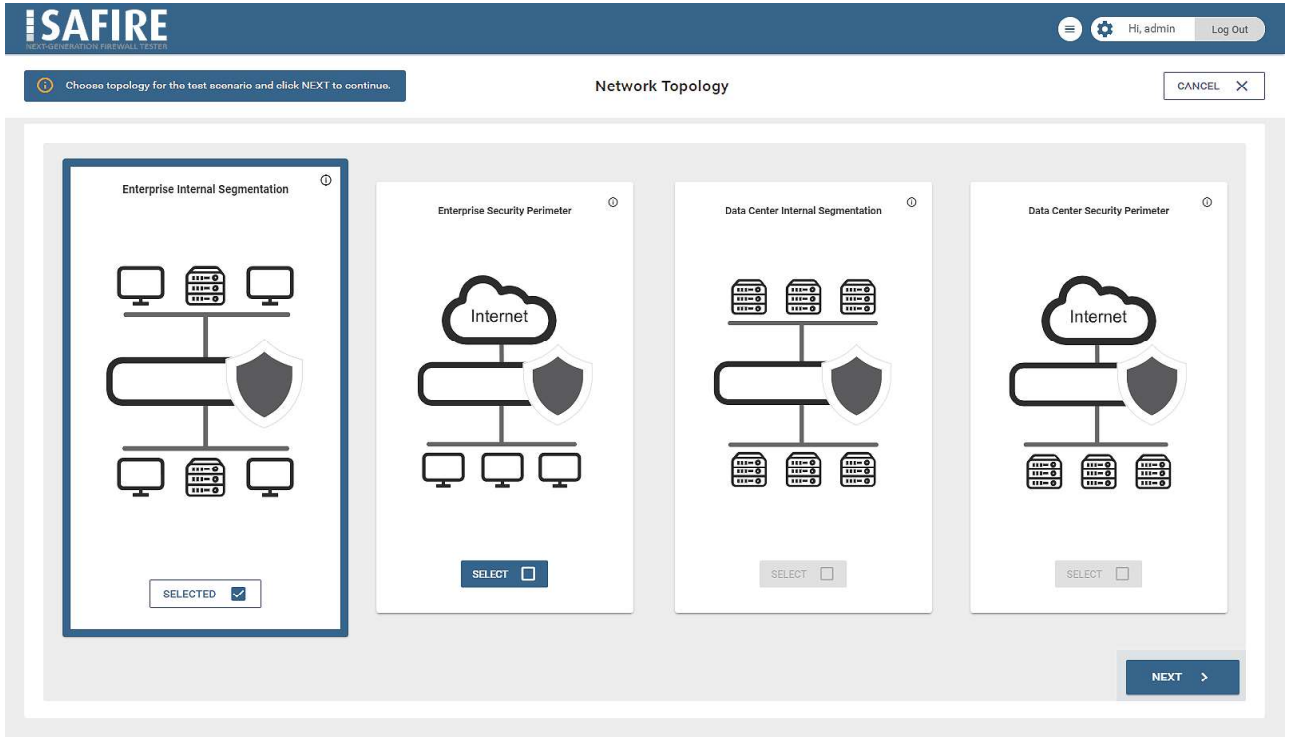


Safire makes it easy to pinpoint a NGFW's "breaking point" i.e. when latency and error rates suddenly climb to unacceptable levels.

Top 5 scenarios

Safire is a simple and cost-efficient tool for:

1. Comparing different NGFWs during the purchasing process
2. Validating performance prior to installation
3. Checking performance after software updates and patches
4. Verifying performance following any significant LAN changes
5. Measuring performance impact of new application scenarios



Safire's user-friendly browser-based GUI makes it easy to define the test configuration, track its progress and document the results.

Ordering Information

P/N: **C-Safire-24PE-10G**

Safire 1-slot chassis (non-modular, fixed), 24 packet engines, unit controller, AC power, excl. tvcrs. Provides two L4-7 SFP+ test ports 2 x 2-speed 10GBASE/SR/LR/DAC.

Supports these transceivers:

- **E10GSFPSR** - Intel® Ethernet SFP+ SR Optic (1000BASE-SX 1G Ethernet & 10GBASE-SR 10G Ethernet)
- **E10GSFPLR** - Intel® Ethernet SFP+ LR Optic (1000BASE-LX 1G Ethernet & 10GBASE-LR 10G Ethernet)

Specifications

Dimensions
1U Safire
- W: 19" (48.26 cm)
- H: 1.75" (4.45 cm)
- D: 9.8" (25 cm)
- Weight: 10 lbs (4.5 kg)

Max. Noise
- Safire: 49 dBa

Power
- AC Voltage: 100-240V
- Frequency: 50-60Hz
- Max. Power: 200W

Environmental
- Operating Temp: 10 to 35° C
- Storage Temp: -40 to 70° C
- Humidity: 8% to 90% non-condensing

www.xenanetworks.com
sales@xenanetworks.com