

This Former Spirent Business is Now Part of VIAVI

Contact Us +1 844 GO VIAVI | (+1 844 468 4284)

To learn more about VIAVI, visit viavisolutions.com/en-us/spirent-acquisition

Spirent Avalanche

IPSec Testing

Application Performance Testing Solution

Road warriors, telecommuters and business partners all rely on the secure communications capabilities offered by IPSec. Spirent Avalanche enables Network Equipment Manufacturers, Service Providers, and Enterprise customers to realistically test their IPSec VPN gateways and cloud-based IPSec deployments.

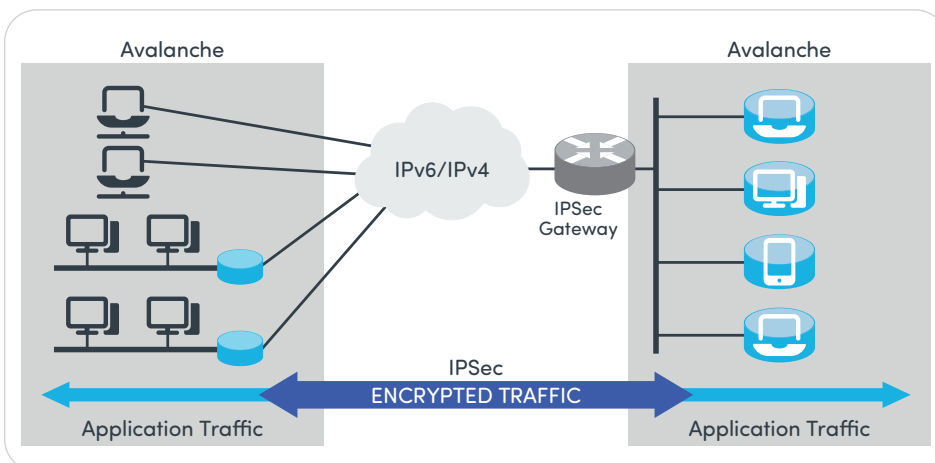
Benefits

Spirent Avalanche's IPSec feature provides complete performance assessment of IPSec gateways to quickly understand and correct deficiencies before deployment. The use of real application protocols over encrypted tunnels is the best way to truly understand the gateway's effect on user experience.

- **Quicker Time to Test:** Integrated IPSec allows full performance characterization of gateways, leading to faster production roll-outs
- **Avoiding Downtime:** High-performance testing with real traffic identifies proper sizing for your environment while providing comprehensive statistics to locate problem areas
- **Investment Protection:** Support for both IPv4 and IPv6 ensures testing needs can be supported now and for future generation testing
- **Minimizing Cost:** IPSec is a fully integrated Avalanche application that supports many use cases, minimizing the number of test applications to learn
- Comprehensive statistics quickly identify problem areas
- Tunnel Control
 - Persistent and non-persistent tunnels
 - IKE Message Retry timers
 - Max Retry
 - Expire timers
 - Commit Bit support
 - Advanced Re-Keying events capabilities
 - Phase 1 Reconnect
 - Phase 2 Re-Key with old key timer
 - SA lifetimes

Applications

- Compare application performance with and without IPSec
- Test user data, voice, and video over IPSec tunnels
- Determine maximum tunnel capacity of IPSec gateways
- Measure tunnel set-up and tear-down rates
- Test IPSec tunnel set-up, tear-down and encryption inside the cloud
- Find maximum tunnel throughput
- Test IPSec services over cloud and virtualized environments and devices
- Analyze the effects of aggressive tunnel re-keying
- Measure the user experience through encrypted tunnels
- Support for IKEv1 and IKEv2 for demanding IPSec applications
- Emulate IPSec deployment scenarios for IPv4 and IPv6 networks, including:
 - IPv4 over IPv4
 - IPv4 over IPv6
 - IPv6 over IPv6
- Test site-to-site and remote access tunnels



Technical Specifications

IPSec Protocols	
• AH+ESP	• Tunnel Mode
IPSec Parameters	
• Main Mode and Aggressive Mode • Authentication – Pre-Shared Keys – X.509 Certificates – RSA Digital Signatures/Certificates • Initial Contact Support • Configurable Vendor ID • Extended Authentication (XAuth) – ModeConfig address assignment – Generic (username and password) – RemoteVPN – Nortel Contivity – Checkpoint Hybrid • IKE Phase 2 – Quick Mode – Perfect Forward Secrecy (PFS) – Dead Peer Detection	• Tunneling and Encryption over IPv4 and IPv6 – Support for IKEv1 and v2 – IKEv1 Encryption Support - DES, 3DES, ESPNULL, AES-128, AES-192, AES-256, AES-128-GCM-8, AES-256-GCM-8, AES-128-GCM-12, AES-256-GCM-12, AES-128-GCM-16, AES-256-GCM-16, AES-128-GMAC, AES-192-GMAC, AES-256-GMAC, HASH: HMAC-MD5 and HMAC SHA -1 - Diffe-Hellman Groups: 1, 2, 5, 14, 15, 16, 19, 20, and 24 – IKEv2 Encryption Support - DES, 3DES, ESPNULL, AES-128, AES-192, AES-256, AES-128-GCM-8, AES-256-GCM-8, AES-128-GCM-12, AES-256-GCM-12, AES-128-GCM-16, AES-256-GCM-16, AES-128-GMAC, AES-192-GMAC, AES-256-GMAC, HASH: HMAC-MD5, HMAC SHA -1, AES-XCBC-MAC, SHA-256, SHA-384, SHA-512 - Diffe-Hellman Groups: 1, 2, 5, 14, 15, 16, 19, 20, and 24 – Supports thousands of site-to-site tunnels per-test – Persistent and non-persistent tunnels – IKE Message Retry timers • Max Retry • Expire timers – Commit Bit Support – Re-Keying • Phase 1 Reconnect • Phase 2 Re-Key with old key timer • SA Lifetimes

Ordering Information

Description	Part Number
Avalanche IPSec for C100/C200	CMP-ASW-IPSEC
Supported Modules/Platforms • Spirent CF30 Appliances • Spirent CFv • Spirent C200 Appliances • Spirent CF400 Appliances • Compatible STC Modules	Spirent Services Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at www.spirent.com or contact your Spirent sales representative.

Available in license bundles for CF30 and CF400 Appliances.

Please contact your Spirent sales representative for more details, including ordering information for other test devices and CFv.

About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled. For more information visit: www.spirent.com

Americas 1-800-SPIRENT

+1-800-774-7368 | sales@spirent.com

Europe and the Middle East

+44 (0) 1293 767979 | emeainfo@spirent.com

Asia and the Pacific

+86-10-8518-2539 | salesasia@spirent.com