

FORTINET AND SILVER PEAK INTEGRATED SECURITY SOLUTION FOR SD-WAN

End-to-end Security for Broadband and Hybrid WANs

As applications migrate to the cloud, geographically distributed enterprises increasingly view the wide area network (WAN) as critical to connecting users to applications, but are quickly realizing legacy WAN architectures were never designed for today's dynamic, Internet-based environments. One of the most striking consequences of the move to cloud is the shift in enterprise WAN traffic, with a dramatic increase in the volume of traffic destined for the cloud. Cloud-hosted SaaS applications perform optimally when users are connected directly to the Internet. Legacy MPLS-based WAN architectures are designed to backhaul all Internet-bound application traffic to a corporate data center gateway and then out to the cloud. With the accelerating adoption of SaaS applications, it's clear that hub-and-spoke topologies are not well suited to connect branch users to cloud-based applications. Add to this, the cost per-bit of MPLS is generally about 10x the cost of broadband Internet service. The combination of these factors is prompting enterprises to look to broadband Internet services as an alternative to MPLS, enabled by Software Defined WAN (SD-WAN) solutions. However, the adoption of Internet-based services as part of an SD-WAN architecture complicates the enterprise network security model.

Fortinet and Silver Peak have partnered to deliver a joint solution which enables enterprises to embrace the economics of broadband Internet services within the overall WAN architecture, while maintaining strict compliance with corporate security standards. The combination of the Silver Peak Unity EdgeConnect SD-WAN solution with the Fortinet FortiGate® firewall platform enables customers to deploy an enterprise network that combines a sophisticated, application aware hybrid-

WAN with the industry's most extensively validated security solution. The Silver Peak Unity EdgeConnect enables an Internet-based enterprise WAN service, and the FortiGate mitigates exposure to network threats while using the Fortinet security processing architecture to enable heavy content processing features, such as SSL inspection without compromising network or application performance.

HOW DOES IT WORK?

To address the needs of geographically distributed enterprises, Silver Peak Unity EdgeConnect provides reliable and secure virtual overlays to connect users to applications, and provides flexibility to use any combination of transport technologies without adverse impact to network or application performance. Enterprises can embrace broadband connectivity to connect users to applications whether they reside in the data center or the cloud, delivering a consistent user experience while greatly reducing operational and capital expenses. Other benefits include enhanced business agility to quickly deploy new applications and respond to rapidly-changing business requirements.

Fortinet and Silver Peak have collaborated to provide a solution which combines Fortinet FortiGate Enterprise Firewall Virtual Appliance (NGFW) software with the high-performance Silver Peak EdgeConnect SD-WAN solution. The joint solution enables customers to deploy an SD-WAN that integrates Fortinet best-in-class network security across the WAN. Supported architectures include both direct handoff of traffic to the public Internet, and backhauling of Internet traffic over Silver Peak SD-WAN tunnels to central/hub locations for handoff to the Fortinet enterprise firewall for further

ABOUT SILVER PEAK

Silver Peak is the global leader in broadband and hybrid WAN solutions. Silver Peak offers a high-performance SD-WAN solution that provides secure and reliable virtual overlays to connect users to applications with the flexibility to use any combination of underlying transport without compromising network or application performance. This results in greater business agility and lower costs. More than 2,000 globally distributed enterprises have deployed Silver Peak broadband and hybrid WAN solutions across 80 countries. Learn more at www.silver-peak.com/.

KEY BENEFITS

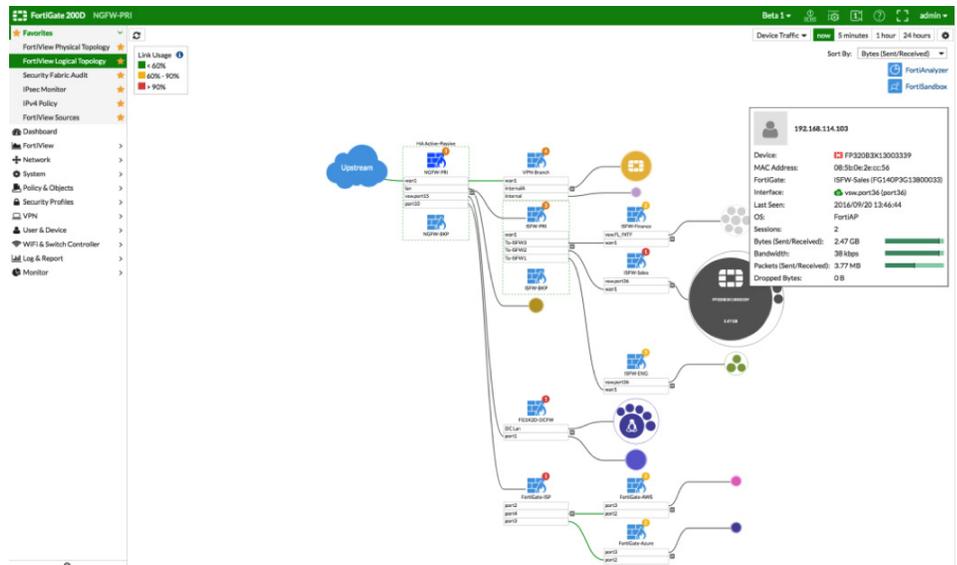
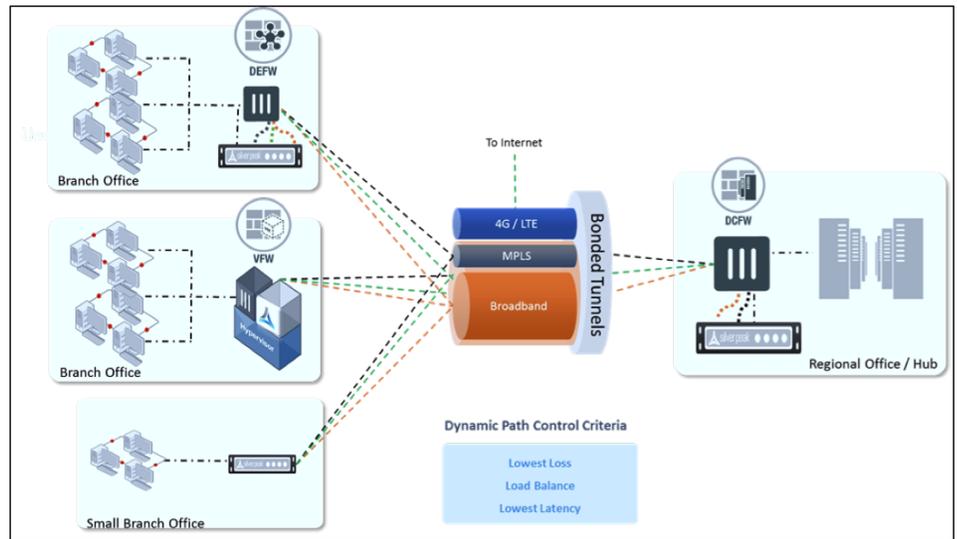
- Easily extend the Fortinet Security Fabric architecture end-to-end across the wide area network.
- Reduce costs by deploying both Fortinet FortiGate and Silver Peak Unity EdgeConnect as virtual appliances on a purpose-built FortiHypervisor or any industry-standard x86 server.
- Utilize inexpensive Internet connectivity from in any branch location while maintaining corporate security policies including visibility into SSL encrypted traffic.
- Rapidly deploy new branch office locations that include integration with the Fortinet FortiGate enterprise firewall platform.



inspection. Silver Peak and Fortinet both support installation as a physical or virtual appliance, providing customers with the flexibility to architect the deployment model that best aligns with their requirements.

Fortinet's FortiGate and FortiOS have more than a hundred unique security and networking features which eliminate point products, simplify deployments and lower TCO (Total Cost of Ownership), all while delivering robust security. Wireless and wired (switch) management, protection and guest-networking can often be the next steps in a process for deploying a branch office. The provisioning of ports and wireless access can be a cumbersome and expensive task. The Fortinet FortiGate wireless AP and switch controller eases AP deployment, eliminating the complexity and security concerns typically associated with deploying ports for phones and user data.

Fortinet provides physical and logical topology visualization and other powerful capabilities in FortiOS's FortiView, which leverages the Fortinet Security Fabric functionality to allow greater visibility, oversight and control of the network. The Security Fabric enables network and security components to collect and share information in order to coordinate and effectively preempt exposure to security threats. As illustrated in the figure below, these powerful features provide unparalleled network security, visibility and control.



FORTIVIEW TOPOLOGY VISUALIZATION.

SOLUTION BENEFITS

- Optimized cloud application performance: Secure Internet breakout from the branch enables direct hand-off of SaaS application traffic, maximizing application performance and providing visibility into SSL encrypted traffic.
- Enables migration to hybrid WAN: Eases the integration of cost-effective

- broadband Internet services into the enterprise WAN.
- Reduced networking costs: Silver Peak Unity EdgeConnect dynamic path control supports active-active load sharing across multiple WAN links, enabling the use of inexpensive Internet bandwidth, thereby reducing or eliminating the requirement for expensive MPLS service.

- Compatible with existing Fortinet security posture: Supports local or centralized FortiGate firewalls and requires no change to existing security architecture. Provides multiple options for flexibility including both the Physical and Virtual FortiGate firewalls, with the option to use the FortiHypervisor for improved VM performance. Enables secure hosting of services from branch firewall DMZ.

