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# Threat-Centric Security for Service Providers

## Cisco Firepower 9300 and Cisco Firepower 4100 Series Hardware Platforms

Service providers have told us that APIs are no longer enough. Security services integration is too costly, and the efficacy is inadequate.

Until now, service providers' only viable security approach has been the deployment of scalable point solutions. This approach limits integration, leaving gaps in threat visibility and correlation. Furthermore, disparate security appliances hinder the dynamic protection of workloads and data flows as they traverse physical, virtual, and cloud topologies.

Cisco reimagines service provider security by integrating its own security services and those of its partners. With intelligent service stitching, the capability helps optimize both threat defense and network performance. This approach supports the full realization of open and programmable networks. Security policies consistently follow data flows and workloads across the network fabric.

Security is central to the Cisco® Evolved Programmable Network architecture for service providers (Figure 1). The architecture protects data and availability for service providers and their customers. As well, Cisco's rapid provisioning makes new security services practical to deploy. Security thus becomes a value-added strategic business differentiator.

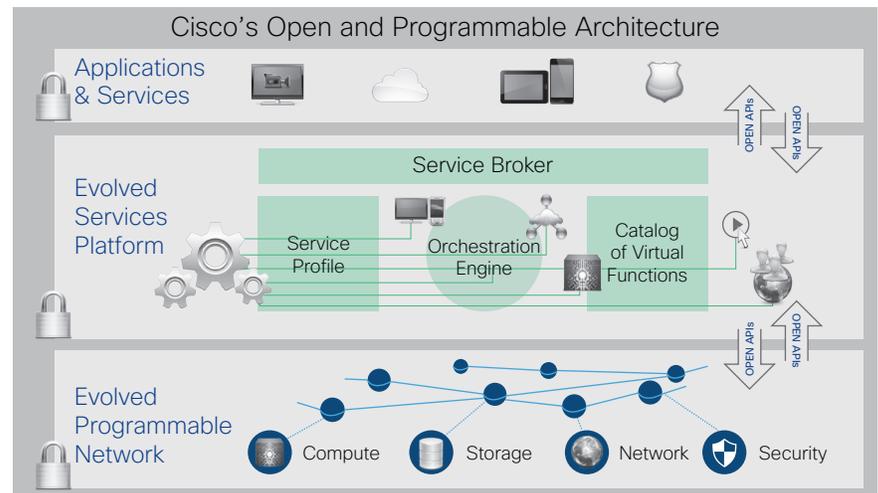**Figure 1.** The Cisco Service Provider Architecture



## Third-Party Validation

Cisco Firepower 9300 is the industry's first physical and virtual security solution that has been validated by a third party for securing service provider cloud and network functions virtualization (NFV) environments. Read the EANTC report commissioned by Light Reading.

## Benefits

- **Integrates security services** from Cisco and its partners on carrier-class, NEBS-ready platforms

- **Closes visibility gaps** at scale to protect your operations and customers

- **Speeds time to market** for new service offerings with agility across physical, virtual, and cloud deployments

Our unique threat-focused approach is available with the Cisco Firepower™ 9300 Security Appliance and the Cisco Firepower 4100 Series high-performance carrier-class platforms. Both platforms can deliver multiple Cisco security services, including the Cisco ASA firewall, Cisco Firepower next-generation firewall, Cisco next-generation IPS (NGIPS), and Cisco Advanced Malware Protection (AMP). The platforms can support the Cisco Firepower Threat Defense or the ASA software image and the Radware DefensePro distributed-denial-of-service mitigation capability.

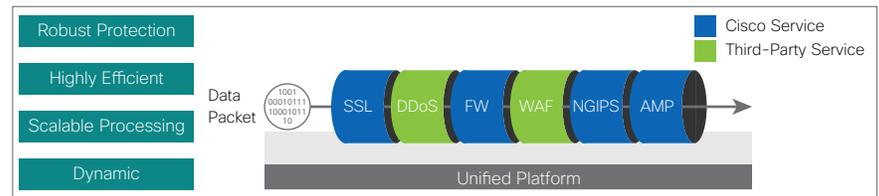## Transforming Best-in-Class Solutions

Deploying point solutions has been critical to fulfilling service-level agreements. However, this approach relies on manual and inefficient processes (Figure 2).

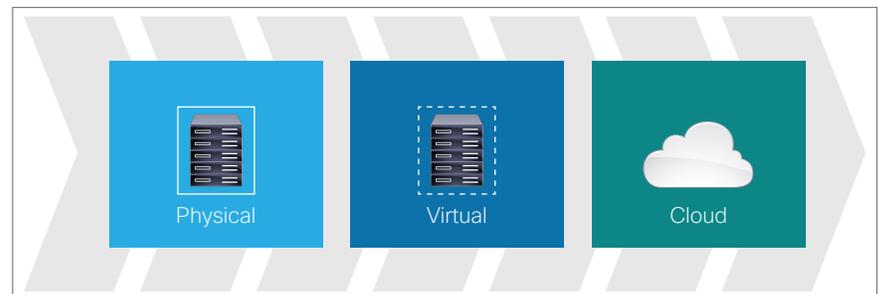**Figure 2.** Previous Approach with Point Solutions
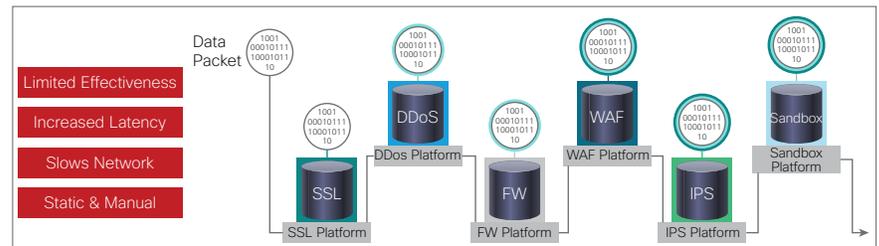


## Our Unique Approach

**Figure 3.** Tight Integration and Intelligent Service Stitching



Cisco's threat-centric security approach tightly integrates security services beyond APIs across physical, virtual, and cloud topologies (Figure 4).

**Figure 4.** Integration Protection Across the Network Fabric

With Cisco's approach, costs are lowered and the operations of service providers and their customers are protected with scalable, dynamic, and threat-centric security.



Cisco Firepower 9300 is a carrier-class platform that scales with security modules to meet business needs. It provides:

- Performance that is 600 percent higher and a port density 30 percent greater than the Cisco ASA 5585-X Adaptive Security Appliance
- Terabit backplane and high power efficiency
- Low latency and high efficiency through intelligent service stitching of multiservice and multivendor (Cisco and third-party) security applications
- Swappable application-blade architecture for flexible configuration and easy performance scaling
- 10, 40, or 100 Gigabit Ethernet



Cisco Firepower 4100 Series carrier-class platforms deliver:

- Performance that is 200 percent higher and a port density 30 percent greater than the Cisco ASA 5585-X Adaptive Security Appliance
- High efficiency through intelligent service stitching of multiservice and multivendor (Cisco and third-party) security applications
- 10 or 40 Gigabit Ethernet (GE) I/O Next Steps

To learn more about the Cisco Firepower 9300 Security Appliance or the Cisco Firepower 4100 Series, please visit https://www.cisco.com/go/sp.