



# SILVER PEAK AND WIND RIVER

## Accelerating the Deployment of Managed SD-WAN and WAN Optimization NFV Solution

As part of the Wind River® Titanium Cloud™ Ecosystem, Silver Peak and Wind River have partnered to certify the Silver Peak Unity EdgeConnect SD-WAN solution on Wind River Titanium Cloud, offering a variety of benefits to carrier Network Functions Virtualization (NFV) deployments, including:

- Greater service agility with zero-touch provisioning
- High network reliability with performance-based service level agreements (SLAs)
- Significant performance gain on Intel® architecture for Silver Peak Unity EdgeConnect NFV functions
- Reduced time-to-market for new managed service offerings
- New revenue growth with higher-performance value-added services

### ACCELERATE THE DEPLOYMENT OF VIRTUALIZED SD-WAN SERVICES

As service providers seek to accelerate the delivery of new managed services that include on-demand and cloud connectivity service options, they are moving away from a traditional operational model built on the acquisition of proprietary appliance-based networking infrastructure. The advent of Software-Defined Networking (SDN) and NFV enables service providers to move toward a model that supports accelerated trials of virtualized services such as SD-WAN and easier and lower-cost turn-up of new value-added services such as branch security.

NFV creates opportunities for cost savings through reductions in capital expenditures (CAPEX) and operating expenses (OPEX). CAPEX reduction comes from the use of commodity hardware, simplified customer premises equipment devices, and workload consolidation, while OPEX is minimized as a result of reduced provisioning and maintenance costs. The ability to easily and economically launch new virtualized services such as SD-WAN and WAN optimization enables service providers to increase their average revenue per user.

### An Ecosystem Enabling the Promise of NFV for Service Providers

Through the Titanium Cloud Ecosystem, Wind River has collaborated with industry-leading hardware and software companies to ensure the availability of interoperable standard NFV products optimized for deployment with Titanium Cloud. Using solutions from the Titanium Cloud Ecosystem will accelerate time-to-market, reduce risk, and significantly improve the deployment of an end-to-end NFV infrastructure.



#### Ecosystem Component

- VNF provider

#### Solution

- Silver Peak Unity EdgeConnect SD-WAN

#### Value

- Significant performance gain on Intel architecture
- High network reliability with performance-based SLAs
- New revenue growth with higher-performance value-added services

## NFV TO MEET THE PERFORMANCE AND DEPLOYMENT DEMANDS OF SERVICE PROVIDERS

Because the Unity EdgeConnect SD-WAN virtual network function (VNF) has been pre-validated with Titanium Cloud, it can be easily integrated into NFV deployments. Service providers and telecom equipment manufacturers building infrastructure based on the Titanium Cloud NFV platform can now offer Silver Peak’s industry-leading, carrier grade SD-WAN solution as part of their overall NFV offering.

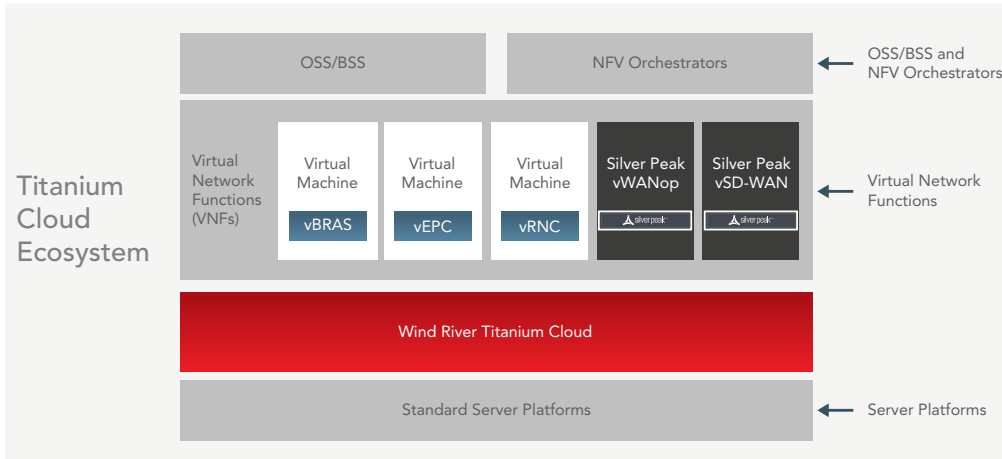


Figure 1. Titanium Cloud components with Silver Peak Unity EdgeConnect vSD-WAN and Unity Boost vWAN Op

### Silver Peak: Unity EdgeConnect SD-WAN Solution

The Silver Peak Unity EdgeConnect SD-WAN solution is comprised of three fully integrated components:

- Unity EdgeConnect zero-touch physical and virtual appliances
- Unity Boost WAN optimization performance software
- Unity Orchestrator<sup>SP</sup>, a multi-tenant orchestrator, to streamline service management for thousands of customers

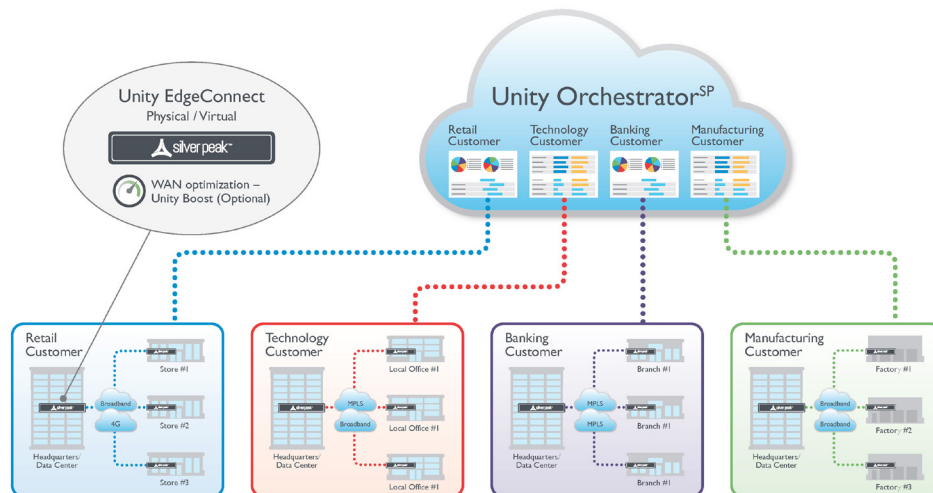


Figure 2. Silver Peak Unity Orchestrator and Unity EdgeConnect

## MORE INFORMATION

Detailed technical information about Silver Peak can be found at [www.silver-peak.com](http://www.silver-peak.com).

Detailed technical information about Wind River Titanium Cloud can be found at [www.windriver.com/products/titanium-cloud](http://www.windriver.com/products/titanium-cloud), or contact [salesinquiry@windriver.com](mailto:salesinquiry@windriver.com).

Additional information about the Titanium Cloud Ecosystem can be found at [www.windriver.com/announces/titanium\\_cloud\\_partner\\_program](http://www.windriver.com/announces/titanium_cloud_partner_program).

Silver Peak Unity EdgeConnect enables service providers to expand revenues for tiered, high-performance WAN deployments that are both on-net and off-net. This includes extending SD-WAN services to include new SaaS cloud connectivity services for business applications from any type of WAN transport. Service provider benefits of the Silver Peak Unity EdgeConnect solution include:

- **High performance:** Enable SLAs over any transport (MPLS, broadband, LTE).
- **Speed:** Reduce installation intervals to hours/days with overlay deployments.
- **Scalability:** Centralize orchestration and ZTP for thousands of customers.
- **Extensibility:** Interface via REST APIs to third-party orchestration and OSS/BSS.
- **Service agility:** Drive rapid service creation and flexible service chaining.

### Wind River: Titanium Cloud

As the industry's first fully integrated and feature-complete NFV software platform, Titanium Cloud enables an NFV infrastructure to achieve the superior reliability and high performance mandated for telecom networks. It delivers six nines (99.9999%) of reliability, compared to the three nines of virtualized platforms based on common enterprise software. Combining open source and open industry standards, with required carrier grade extensions, Titanium Cloud is the only commercial server solution enabling service providers to maintain the rigorous uptime required as networks transition to a virtualized infrastructure. With Titanium Cloud, service providers can now meet the "always on" expectations of consumers.

## SUMMARY

The integrated carrier grade NFV joint solution of Silver Peak Unity EdgeConnect SD-WAN and Titanium Cloud enables service providers to easily and economically deploy NFV-based virtual network services. By collaborating with Wind River through the Titanium Cloud Ecosystem, service providers are able to deploy Silver Peak's best-in-class, performance-optimized SD-WAN solution on an open platform, enabling the rapid creation of innovative and reliable managed SD-WAN services.

