



Versa Networks Secure Cloud IP

Company Overview

Versa Networks was founded in 2012 with a vision to remove the complexity out of networking and security infrastructure. Looking to the future, the founders saw that removing the “hard” from networking was necessary to enable organizations to digitize their business and embrace the cloud. With a revolutionary vision to transform the networking landscape for the coming decades, Versa Networks is bringing forth a vision of a more software-defined world to meet the challenges of the future.

Versa has been an early innovator in software-defined WAN (SD-WAN) with the Versa Secure Cloud IP Platform, and has more than 35 patents filed around its unique platform and software approach to networking and security.

Versa’s enterprise vision is to leverage the rapid advances in SDN and NFV, application-aware networking, and automation and fuse them with proven networking and security technologies to create highly scalable and reliable solutions for SD-WAN, branch security and software-defined connectivity services. The Versa Secure Cloud IP Platform provides unprecedented business advantages through a software-based approach to deliver unmatched agility, cost savings and flexibility while transforming the landscape of networking for the coming decades.

Why Next-Generation WANs and Versa Networks

Enterprise WANs have traditionally used MPLS for connectivity and proprietary single function appliances for connectivity and security. The addition of Internet and broadband options, along with the required security, has only increased the complexity of branch office networks. The result continues to be high cost and inflexible WAN and branch architectures, slow responses to service change requirements, and difficulty in deploying and managing the ongoing sprawl of branch hardware appliances.

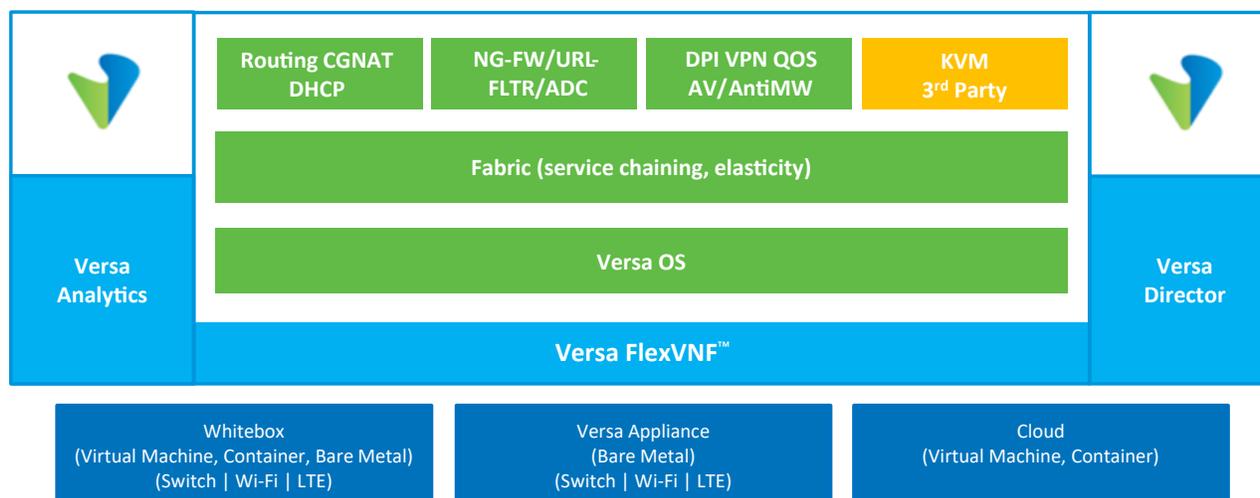
Today, with SD-WANs and software-based security services, enterprises can transition from legacy WANs using expensive private lines and proprietary hardware to a next-generation WAN and branch network architecture. By doing so, enterprises can harness a DevOps-oriented approach to building WANs and reduce TCO significantly while increasing IT agility.

To make this WAN and branch network transition achievable, Versa has created a carrier-grade and software-based solution for SD-WANs and virtualized branch security that runs on commodity hardware which is open and fully programmable.

Versa Secure Cloud IP Platform Overview

The Versa Secure Cloud IP Platform consists of three software components that work together to deliver highly flexible and scalable SD-WANs and virtualized security to software-define the branch office:

- **Versa FlexVNF:** The core building block for Versa VNF solutions, which includes a broad set of virtualized network and security services with carrier-grade multi-tenancy, programmability, service chaining, service elasticity and cost-effective deployment choices
- **Versa Director:** Single point of centralized control and management for both connectivity and services
- **Versa Analytics:** A real-time and historical analytics engine that provides control, visibility, prediction and a 360-degree feedback loop for adaptability and network and security event correlation.



The Versa Secure Cloud IP Platform is a cloud-native multi-tenant multi-service software platform that includes a wide range of advanced network and security functions that enable the primary use cases for a next generation enterprise WAN and branch – SD-WAN, SD-Security and a fully software-defined branch (SD-Branch).

All network and security services are centrally orchestrated and managed with native service chaining to enable the creation of a secure SD-WAN with full security for direct Internet access. Versa FlexVNF automatically adds and integrates NGFW, AV, Malware, IPS, secure web gateway (SWG) and URL filtering, as well as other security and third-party services, with advanced SD-WAN connectivity.

To maximize IT agility and reduce operating costs, the Versa Secure Cloud IP Platform provides complete zero-touch provisioning, automated configuration and centralized management based on programmable, DevOps-ready interfaces and APIs. With the versatile templates supported by Versa Director, an IT or network manager can instantly download and deploy SD-WAN and/or virtualized security onto a low-cost appliance (white box, bare metal, VM or container) at one or thousands of branch sites, or even in the public (AWS, Azure) or private cloud, simultaneously.

New services can be added and instantly service-chained across the entire enterprise WAN automatically via a simple configuration change.

Multiple Use Cases

Versa's software-based approach for virtualizing network and security functions – combined with low-cost commodity hardware – results in multiple use cases.

Secure SD-WAN

Versa enables large enterprises to re-architect their WAN and branch office networks through a carrier-grade and software-based approach to SD-WAN. By de-coupling software from hardware, network and security services can be designed to seamlessly interoperate with each other, and capital costs are significantly reduced through commodity appliances. This reduces the Capex and Opex of the WAN, while increasing IT responsiveness to business needs as branch architectures are simplified and made highly agile. The time required to manage the network is minimized, and branch security is strengthened and expanded.

The Versa Secure SD-WAN solution is highly elastic, with the ability to dynamically add capacity to support more or larger connectivity options, as well as new services. Several major enterprise F500 customers have deployed Versa SD-WAN with integrated security successfully across the globe.

To improve application performance and further reduce WAN costs, the Versa Secure SD-WAN solution can identify over 2600 specific applications and map them to the best route to meet internal SLAs per application. The depth of application visibility and identification mapped with robust traffic steering policies works to ensure that the user-experience of the application is always positive.

Virtualized Branch Security

For enterprises looking to increase their information security at branch offices, Versa provides integrated security for direct Internet access as well as supporting a centralized or cloud-based approach to providing security for compliance purposes.

Security functions can be deployed locally at the branch (e.g. next-generation firewalls and unified threat management (UTM) to enable and secure direct Internet access), centrally at the corporate data center, or a hybrid combination as business and compliance needs dictate. Provisioning is zero-touch and services are automatically chained and integrated, avoiding high-cost integration work and deployment delays.

As with Versa SD-WANs, customers' capital costs are greatly reduced using Versa Secure Cloud IP Platform software and commodity hardware vs. proprietary security appliances.

Benefits

Customers that deploy SD-WANs and branch security based on Versa can realize substantial operational efficiency and cost saving benefits, including:

- **80% lower total costs of operations (TCO)**

By standardizing on the Versa Cloud IP Platform and commodity hardware – instead of proprietary networking and security appliances – customers can slash their infrastructure Capex spend. Customers can significantly lower their Opex by reducing or eliminating branch office truck rolls, shortening help desk and troubleshooting time, and easily integrating new services into existing deployments. Combined with a usage-based subscription pricing model, Versa makes sure customers only pay for what they use.

- **Accelerate time-to-deployment from weeks to hours – increase IT agility**

Versa enables customers to roll out SD-WAN and branch security deployments quickly and without complex or proprietary hardware. As a result, new deployments can occur in hours. Network IT teams can adopt an agile, software-based DevOps model and remove the provisioning time and hardware dependency of traditional WAN and security architectures.

- **Improve application performance and security**

With the ability to identify over 2600 applications and map them to the most appropriate connectivity option, Versa Secure SD-WANs can improve application performance and lower overall WAN and branch costs. For example, recreational Internet traffic can be assigned to high speed but low cost broadband, while business-critical financial applications can be assigned to highly reliable but more costly MPLS. In the case of a failed or degraded SLA, affected traffic can be instantly routed to an alternative access circuit or end-to-end network path using versatile dynamic traffic steering..

For direct Internet access, Versa SD-WANs with integrated security apply very strong and proven security at the branch office without requiring a sprawl of appliances. Alternatively, Versa software-defined security can be partially deployed at the branch, cloud and partially at the data center or hub-site and service-chaining together, with or without third-party security appliances.

- **Simplify support & operations**

With zero-touch provisioning and centralized management, IT teams can significantly reduce the time required to manage networking and security services at the branch, resulting in up to 50% Opex savings. In addition, Versa Analytics big data analytics software provides customers with deep visibility and real-time intelligence into all networking and security functions to further simplify ongoing operations.

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