Versa Software-Defined Solutions for Service Providers

Transformative solutions to increase growth and value

The Service Provider industry has seen an incredible amount of disruption due to NFV and SDN in how their networks can be architected and delivered to enterprise consumers. This has been compounded by the change in enterprise requirements and consumption of services because of SaaS applications and a drive to increase cloud utilization.

These trends have driven service provider customers to need increased bandwidth, security and application driven networking to satisfy the requirements of their productivity and business applications and services. The traditional approach in service delivery that is a proprietary hardware appliance focused, fixed access and closed architecture is ill-suited to reliably meet these new enterprise requirements while maintaining operational efficiency and cost sensitivity.
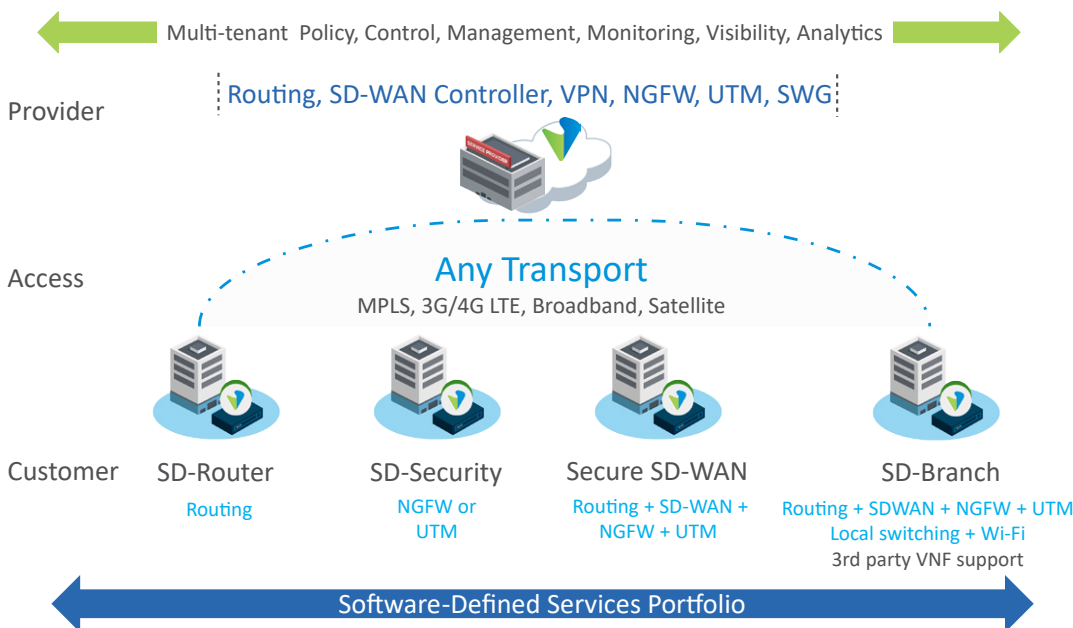
Service providers are transitioning to NFV and SDN based solutions to capture greater service agility, improve their time-to-revenue, ensure profitability and to build a foundation for new service creation. Versa helps make this transition achievable by our diverse portfolio of Software-Defined solutions designed for service providers to meet their enterprise customer requirements and needs.

A differentiated portfolio of SD services that helps maximize service agility, increase service offering and lower overall CAPEX and OPEX. To achieve this, the Versa portfolio of SD solutions consists of a range of services from SD-routing, SD-Security, Secure SD-WAN and a Software-Defined Branch solution giving the ultimate control, flexibility and simplicity to deliver a portfolio of profitable services.
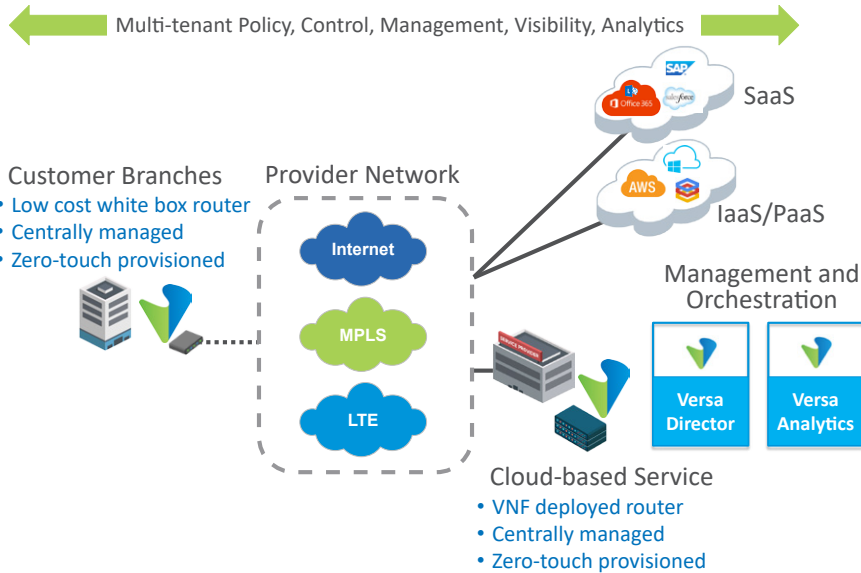
Benefits Overview

- Simplified operations to decrease deployment time

- Scalable offerings to increase service portfolio

- Cloud-native for quicker and simpler integration

- Platform architecture to deliver new services

Versa Software-Defined services portfolio for Service Providers

Multi-tenant Policy, Control, Management, Monitoring, Visibility, Analytics

Provider — Routing, SD-WAN Controller, VPN, NGFW, UTM, SWG

Access — Any Transport
MPLS, 3G/4G LTE, Broadband, Satellite

Customer

SD-Router
Routing

SD-Security
NGFW or UTM

Secure SD-WAN
Routing + SD-WAN + NGFW + UTM

SD-Branch
Routing + SDWAN + NGFW + UTM
Local switching + Wi-Fi
3rd party VNF support

Software-Defined Services Portfolio

SOFTWARE-DEFINED USE CASES

Use Case #1 – Software-Defined Router

Multi-tenant Policy, Control, Management, Visibility, Analytics

SaaS

IaaS/PaaS

Customer Branches
- Low cost white box router
- Centrally managed
- Zero-touch provisioned

Provider Network

Internet

MPLS

LTE

Management and Orchestration

Versa Director

Versa Analytics

Cloud-based Service
- VNF deployed router
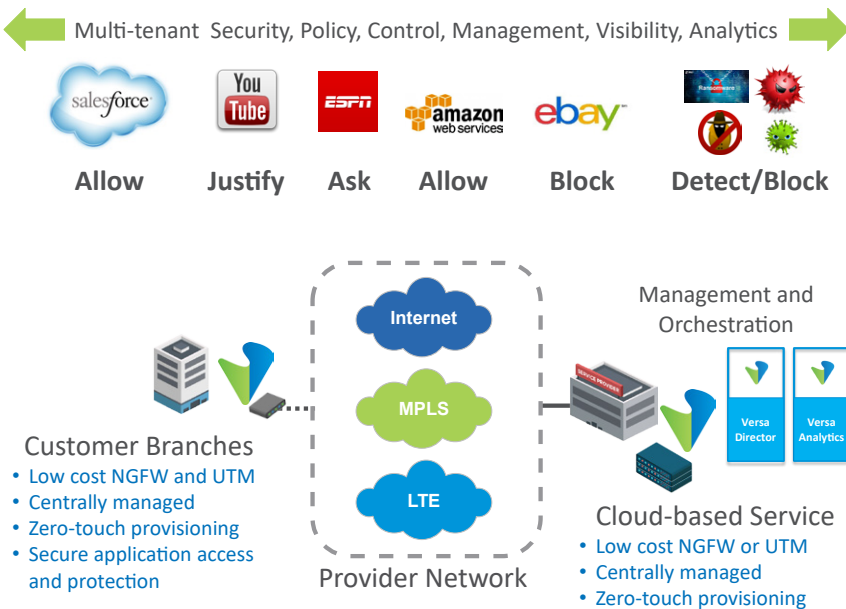- Centrally managed
- Zero-touch provisioned

- Manage the entire enterprise WAN with multi-tenant single-pane-of-glass management for control and visibility and automate the deployment of new branches with zero-touch provisioning.

- Deploy premises based white-box appliance or VNF cloud-based service significantly reducing cost and providing end-to-end flexibility of service offering.

- Multi-tenant SD-Router offering maximizing efficiency and lowering provider and premises infrastructure footprint and cost.

- Upgradeable service to SD-Security, SD-WAN, Secure SD-WAN and SD-Branch delivering incremental portfolio value.

Versa Software-defined Router (SD-Router) enables service providers to quickly and easily deploy a low-cost white-box appliance CPE router solution or a VNF cloud-based service that is zero-touch provisioned and multi-tenant. The Versa SD-Router is centrally managed with Versa Director providing a single-pane of management for the entire WAN delivering a lower cost, reliable and operationally simpler managed router service.
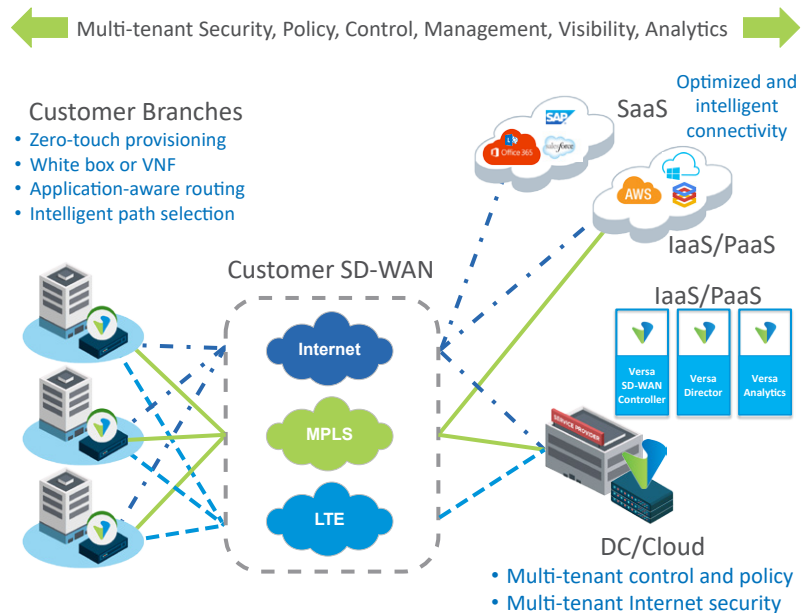
Use Case #2 – Software-Defined Security (SD-Security)

Multi-tenant Security, Policy, Control, Management, Visibility, Analytics

Allow   **Justify**   **Ask**   **Allow**   **Block**   **Detect/Block**

Internet

MPLS

LTE

Management and Orchestration

Versa Director

Versa Analytics

Customer Branches
- Low cost NGFW and UTM
- Centrally managed
- Zero-touch provisioning
- Secure application access and protection

Provider Network

Cloud-based Service
- Low cost NGFW or UTM
- Centrally managed
- Zero-touch provisioning

- One-touch management and automation of all security services and policies.

- Fully integrated and layered multi-tenant security services that deepen and simplify branch security.

- Broad set of security functions, including next-generation firewall, secure web gateway, AV, malware and IPS.

- Application and user level protection, filtering and security.

- Flexible deployment within Versa SD-WAN at the branch, cloud and/or data center for defense in depth.

Versa Software-defined Security (SD-Security) enables service providers to dynamically deploy and secure WAN and application access providing defense in-depth for the branch and WAN with a unified policy and security service framework for their customers.
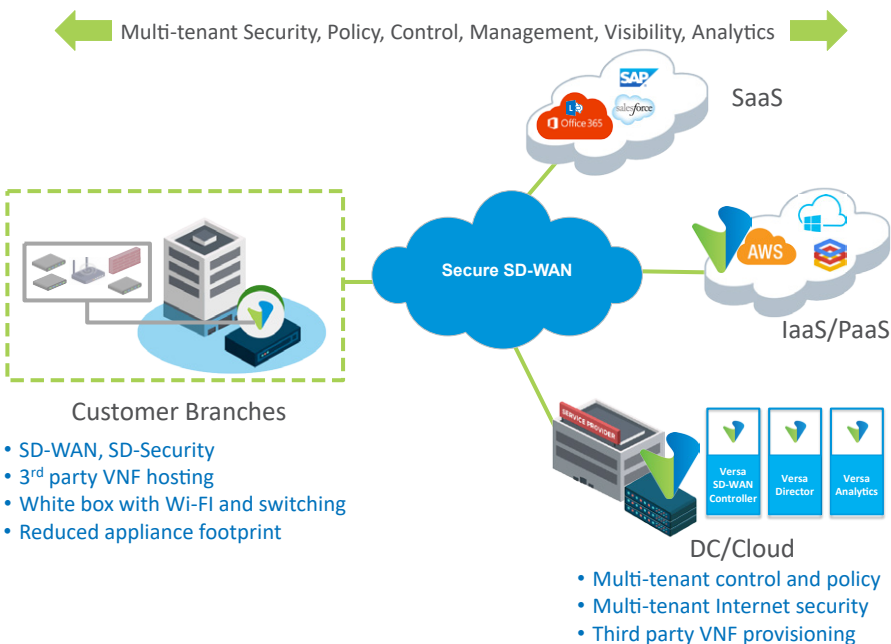
Use Case #3 – Software-Defined WAN (SD-WAN)

◄ Multi-tenant Security, Policy, Control, Management, Visibility, Analytics ►

Customer Branches
- Zero-touch provisioning
- White box or VNF
- Application-aware routing
- Intelligent path selection

Customer SD-WAN

Internet

MPLS

LTE

SaaS

Optimized and intelligent connectivity

IaaS/PaaS

IaaS/PaaS

Versa SD-WAN Controller | Versa Director | Versa Analytics

DC/Cloud
- Multi-tenant control and policy
- Multi-tenant Internet security

- Dynamically create secure tunnels between locations with any topology, independent of the underlying MPLS, LTE, or broadband transport supporting direct, regional and hub Internet breakouts.

- Optimize traffic steering for 2700+ applications and improve customer cloud and SaaS experience with app-driven policies.

- Manage the entire enterprise WAN with multi-tenant application-level control and visibility and automate the deployment of new branches with zero-touch provisioning.

- Secure direct internet access (DIA) with integrated NGFW and UTM services and increase bandwidth and reliability with active/active transport links.

- Integrate into existing SP and customer infrastructure with advanced underlay routing support and visibility.

Versa SD-WAN enables service providers to quickly deploy an application driven and secure WAN to increase customer performance, reliability and reduce the operational complexities of legacy branch deployment.

Use Case #4 – Software-Defined Branch (SD-Branch)

◄ Multi-tenant Security, Policy, Control, Management, Visibility, Analytics ►

SaaS

Secure SD-WAN

AWS

IaaS/PaaS

Versa SD-WAN Controller | Versa Director | Versa Analytics

Customer Branches
- SD-WAN, SD-Security
- 3rd party VNF hosting
- White box with Wi-FI and switching
- Reduced appliance footprint

DC/Cloud
- Multi-tenant control and policy
- Multi-tenant Internet security
- Third party VNF provisioning

- Cloud native and multi-tenant services platform with native IP networking and security services consolidating and software-defining the enterprise branch

- Flexible deployment choices at the branch, hub or cloud utilizing Versa or 3rd party white-box appliances or virtual instances

- Distributed services and centralized control for unmatched elasticity and simplicity

- Fully virtualized stack of services providing for underlay, SD-WAN and SD-Security services

Versa Software-Defined Branch (SD-Branch) transforms the branch with a cloud-native multi-tenant software platform with integrated networking and security services. Service providers can now offer a unified and fully automated distributed services platform solving their customer's complex business challenges.

VERSA COMPONENTS
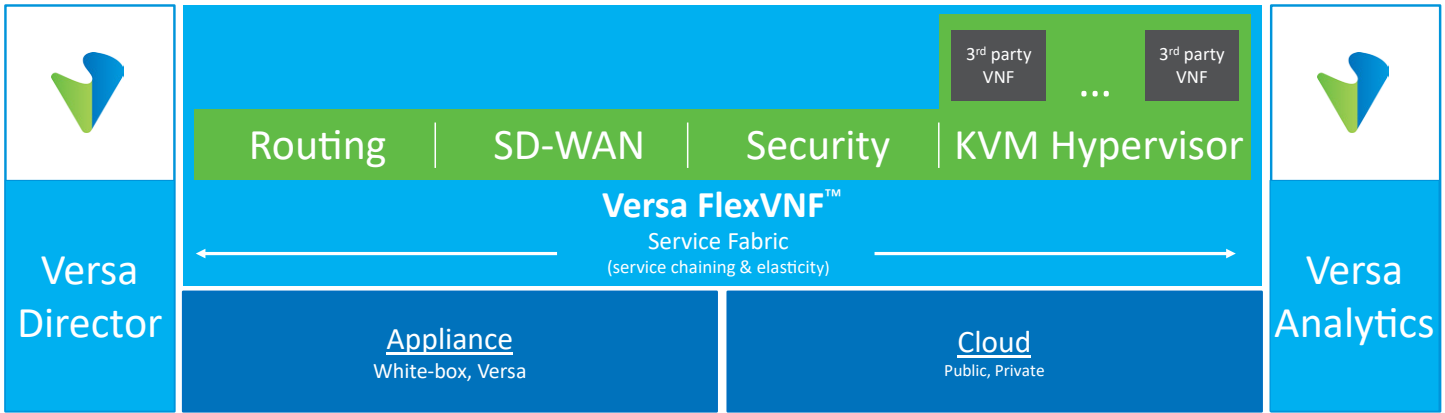
Versa FlexVNF Highlights

Versa FlexVNF provides the broadest set of VNFs in industry from advanced networking and SD-WAN to a wide range of security functions.


- Advanced Routing, SD-WAN, CGNAT, NGFW, UTM

- VM, Whitebox, and Public Cloud deployments

- Zero-touch provisioning (ZTP) for IT workflow simplification

- Per Application flow traffic steering

- End to End segmentation and encryption

- Integrated Hypervisor for hosting of 3rd party network or security services.
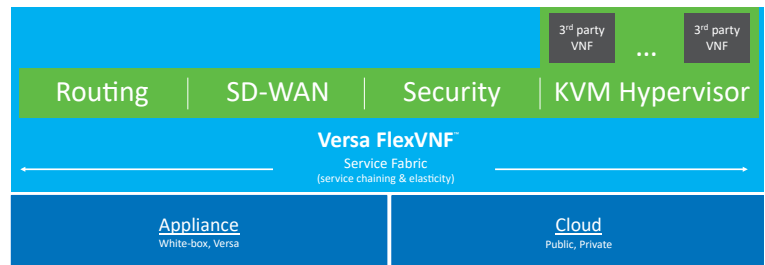
Versa Director Highlights

Versa Director provides the essential management, monitoring and orchestration capabilities needed to deliver Versa's software-defined services from a single-pane-of-glass console:


- Life-cycle management and CRUD operations

- Multi-organizational support and management

- Centralized application policy management

- Integrated with 3rd party Orchestration, SDN and Management tools

- Multi-Service chain definition, deploy and management of physical and virtual services.
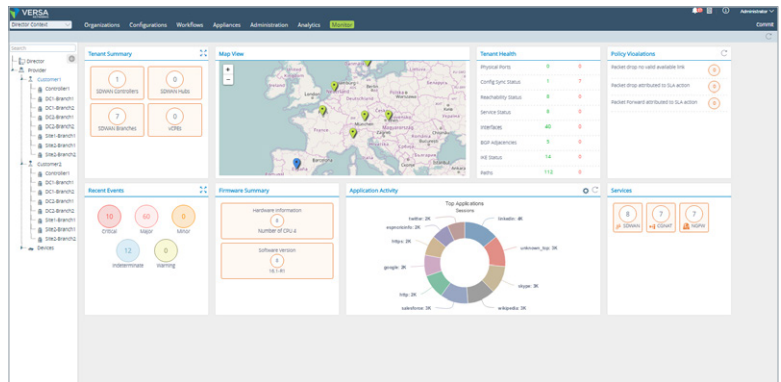
Versa Analytics Highlights

Versa Analytics is a big data solution that provides real-time and historical visibility, baselining, correlation, prediction and closed-loop feedback for Versa software-defined solutions.

- Policy driven data logging framework
- Real-time and Historical traffic usage and anomaly detection
- Reporting for multiple network and security services
- Multi-organizational reporting
- 3rd party Application and monitoring tool integration
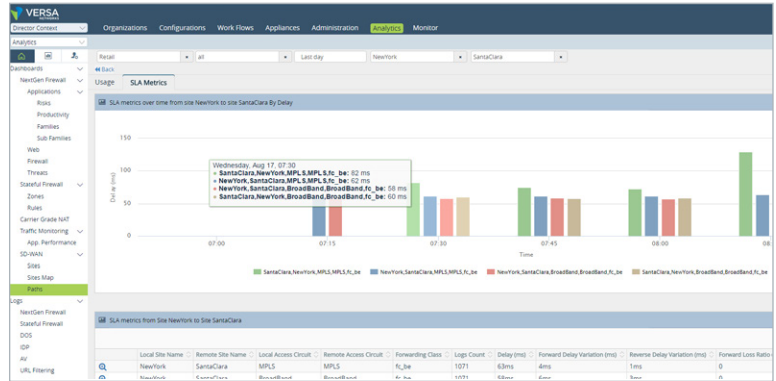
For more information on Versa Networks solutions for SD-WAN, SD-Security and SD-Branch visit www.versa-networks.com

About Versa Networks

Founded by network industry veterans, Versa Networks is an innovative vendor in the SD-WAN and SD-Security market. Versa's solutions enable service providers and large enterprises to transform the WAN and branch networks to achieve unprecedented business advantages. Versa's carrier-grade NFV software provides unmatched agility, cost savings, and flexibility, compared to traditional network hardware. The company is backed by premier venture investors Sequoia, Mayfield, Artis Ventures and Verizon Ventures.

For more information visit http://www.versa-networks.com and follow us @versanetworks.