**VERSA** NETWORKS

# Software-Defined WAN and Security for the Enterprise

*A Transformative Network Architecture to Accelerate Digital Transformation*

Enterprises are embarking on a wave of digital transformation that is changing the fundamental approaches to how they are bringing business and productivity services to their internal and external customers. The enterprise IT landscape has evolved rapidly influenced by the increased importance of cloud, the explosion of Software-as-a-Service (SaaS) and the initial adoption of IoT (Internet of Things). This is changing how businesses are serving their customers but also how they are looking to architect their business networks across the globe. The rise of these new IT models and their expected user experience and agility is bringing to light the inefficiencies of existing wide area network (WAN) architectures and the cost of the connectivity services they consume.

Versa Networks provides a diverse set of software-defined infrastructure for enterprises to address their WAN and branch office challenges. Versa Software-Defined WAN (SD-WAN) enables enterprises to increase their bandwidth and cloud experience, improve flexibility and decrease the cost of their legacy WAN all with an application-driven and software-defined overlay solution. Versa enhances SD-WAN with Software-Defined Security (SD-Security) by offering next-generation firewall (NGFW) and unified threat management (UTM) services, securing application and user connectivity across the enterprise WAN, branch and private/public clouds. Enterprises can combine SD-WAN and SD-Security to transform to a software-defined branch (SD-Branch) and experience the operational, financial and security benefits of a fully software-defined services architecture.

### Benefits Overview

- **Up to 80% lower costs**
- **Up to 10x faster deployments**
- **Improve SaaS and application performance reliably**
- **Simplify support and operation**
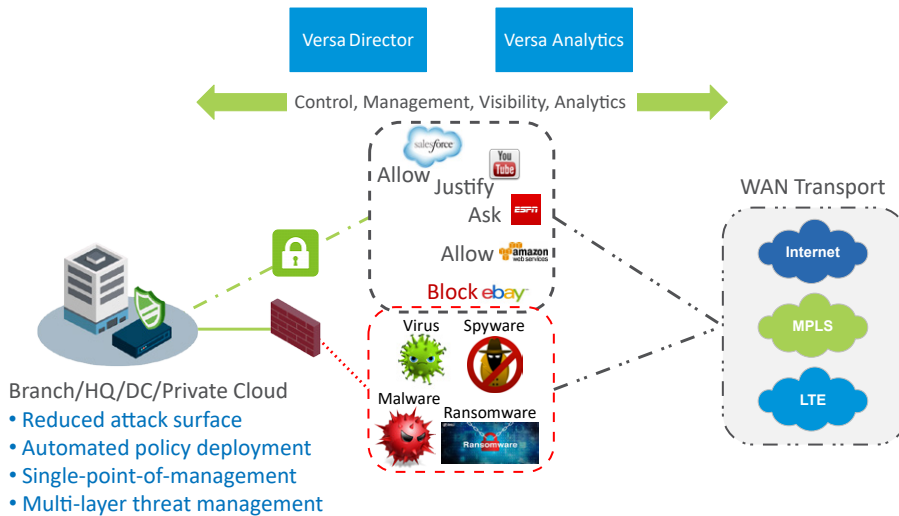
## SOFTWARE-DEFINED USE CASES

### Use Case #1 - Software-Defined WAN (SD-WAN)
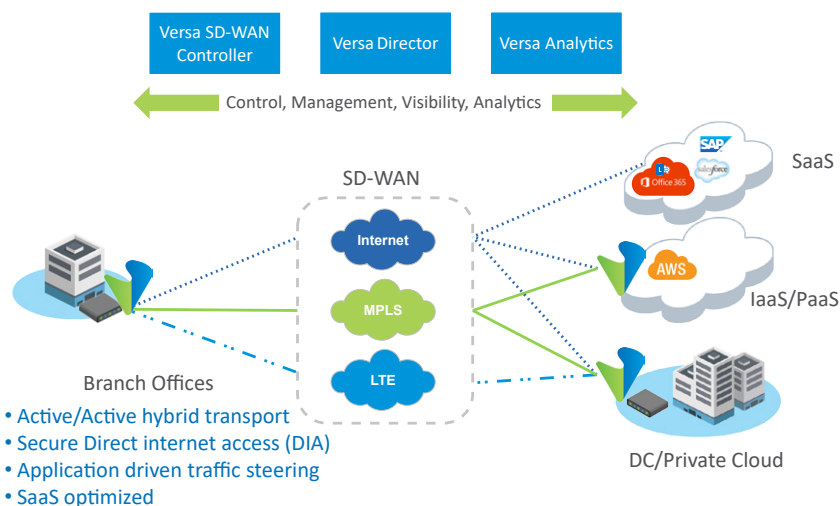


- **Dynamically create secure tunnels** between locations with any topology, independent of the underlying transport
- **Flexible secure topologies per application** or segment supporting direct, regional and hub Internet breakouts
- **Optimize traffic steering** for 2700+ applications and improve cloud and SaaS user experience with app-driven policies
- **Automate the deployment** of new branches with zero-touch provisioning

Versa SD-WAN enables enterprises to quickly deploy an application-driven and secure hybrid enterprise WAN to increase performance and reliability, while reducing the operational complexities of legacy WAN architecture.
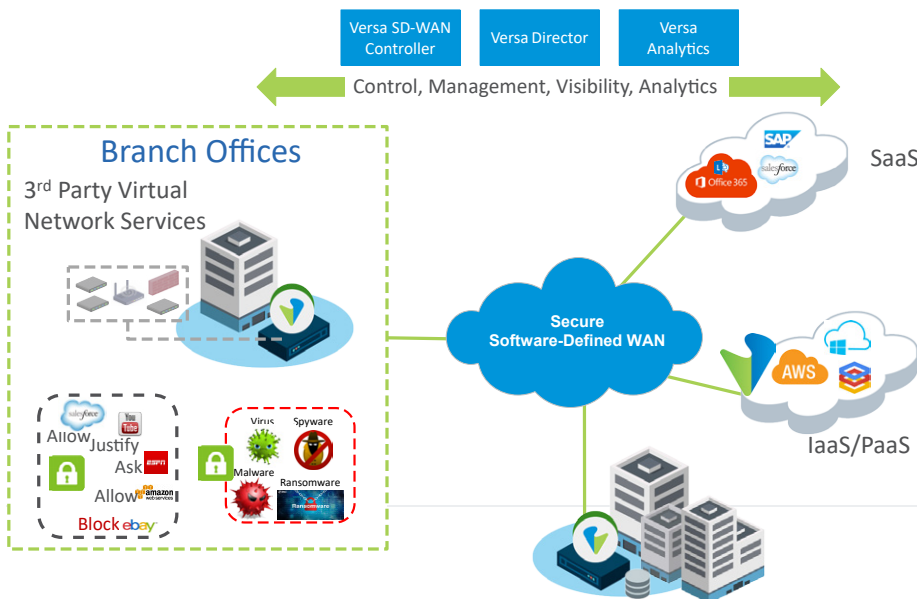
## Use Case #2 — Software-Defined Security (SD-Security)

Versa Director

Versa Analytics

Control, Management, Visibility, Analytics

salesforce
Allow    You Tube
Justify
Ask    ESPN
Allow    amazon web services
Block ebay

Virus    Spyware
Malware    Ransomware

WAN Transport

Internet

MPLS

LTE

Branch/HQ/DC/Private Cloud
• Reduced attack surface
• Automated policy deployment
• Single-point-of-management
• Multi-layer threat management

• **Fully integrated and layered security** services deepen and simplify branch security

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

• **Application and user level protection**, filtering and security

• **Hierarchical per-tenant/segment policy** and enforcement to address critical and business application requirements

Versa Software-Defined Security (SD-Security) enables enterprises to dynamically deploy and secure WAN and application access providing defense in-depth for the enterprise branch and WAN with a unified policy and security service framework.

## Use Case #3 — Software-Defined Branch (SD-Branch)

Versa SD-WAN Controller

Versa Director

Versa Analytics

Control, Management, Visibility, Analytics

### Branch Offices
3rd Party Virtual Network Services

salesforce
Allow    You Tube
Justify
Ask    ESPN
Allow    amazon networks
Block ebay

Virus    Spyware
Malware    Ransomware

SAP
Office 365    salesforce
SaaS

Secure
Software-Defined WAN

AWS
IaaS/PaaS

• **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 networking, SD-WAN and SD-Security services

Versa Software-Defined Branch (SD-Branch) transforms the enterprise branch through a cloud-native multi-tenant software platform with networking and security services. Enterprise IT can deploy a unified and fully automated services platform to solve their complex WAN and branch architectures.

# VERSA COMPONENTS
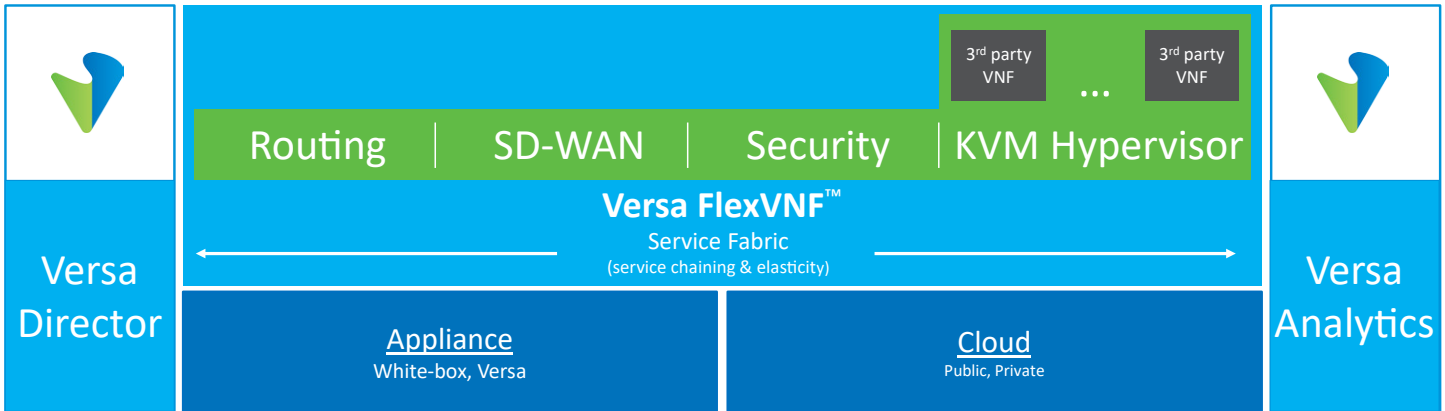


## Versa FlexVNF Highlights

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



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

- VM, Whitebox, and DC/private/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.
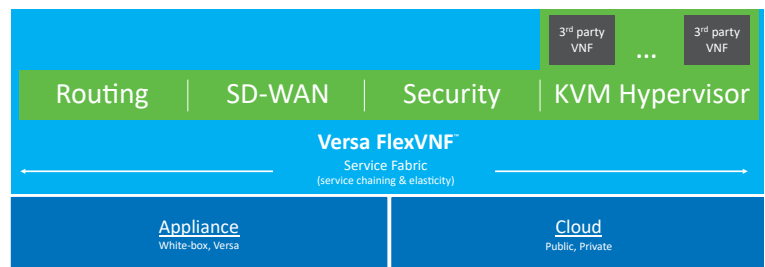
## Versa Director Highlights

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, deployment and management of physical and virtual services.
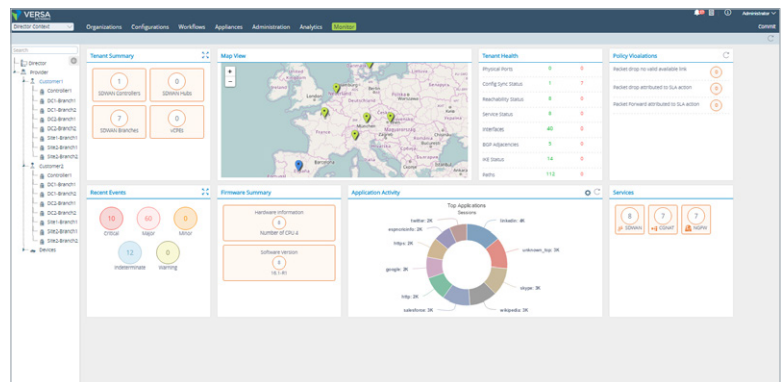
## Versa Analytics Highlights

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
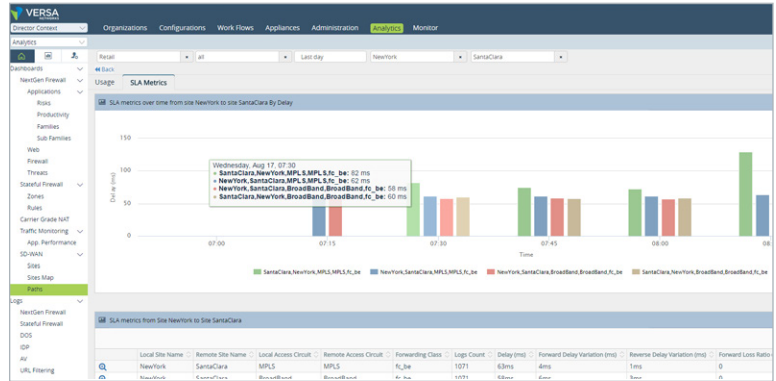
For more information on Versa Networks solutions for SD-WAN, SD-Security and SD-Branch visit www.versa-networks.com

## 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.