

Smart, simple branch connectivity and security.

Software Defined Secure Branch with Versa

The IT landscape is rapidly creating new challenges for traditional branch connectivity. Digital transformation and cloud services are driving the need to re-architect existing wide area networks (WANs) to support digital initiatives. This growth is exposing deficiencies and challenges with existing branch and WAN architecture.

For example, when centralized WAN architectures back-haul traffic to the data center, it's not suited for modernized cloud applications and can lead to poor user experience and performance. In addition, customers looking to address performance and user experience challenges using Software as a Service (SaaS) seek an increase in transport bandwidth, but rapidly discover additional risks and complexities. Also, business organizations often lack proper network security at the branch and are challenged by the complexities of managing multiple branch appliances.

These challenges are compelling IT teams to look for simpler, inexpensive and secure WAN solutions to remove bottlenecks to their digital business initiatives.

Realize the benefits of SD WAN and integrated security.

Verizon Software Defined Secure Branch solution helps IT organizations overcome the challenges of digital transformation. Businesses need to be confident that they are ready with secure, smart and simple WAN connectivity, which is why we provide Software Defined WAN (SD WAN), advanced security functions and central full-service management in a single solution.

Software Defined Secure Branch is a true software defined network (SDN) service. It utilizes Versa FlexVNF software at the network edge, running on either Verizon Universal customer premises equipment CPE (uCPE) that is deployed as part of a Virtual Network Services (VNS) implementation, or on a dedicated CPE device preloaded with FlexVNF software.

The FlexVNF software provides capabilities to perform familiar functions, such as Quality of Service (QoS), Access Control Lists (ACLs) and policy routing, in addition to the overlay control data plane. The uCPE that hosts the Versa FlexVNF can also be used to host other virtual network functions (VNFs). In those cases, Verizon will perform service chaining, as necessary, to improve overall solution functionality. Each FlexVNF establishes secure sessions with the Versa Director via IPSec and establishes additional IPSec sessions with other FlexVNF devices in the Software Defined Secure Branch network.

Deployment is simple with zero-touch provisioning, allowing businesses to deploy branches quickly and efficiently.

Solution components



CPE

- Dedicated CPE + FlexVNF software (preloaded)
- Universal CPE (uCPE) + FlexVNF software (remotely download) + addition NFV options



Versa Director and SDN Controller

Versa Director establishes a secure connection to each remote FlexVNF device in the network and administers the SD WAN overlay to share routes, security and policy information. This centralized policy engine in Versa Director provides an inbound and outbound policy mechanism to manage routing information, access control, segmentation, extranets and provisioning.

Through our Hosted Network Services, Versa Director works in conjunction with SDN controllers, providing the key orchestration and controlling elements in a Versa Software Defined Secure Branch configuration. The SDN controllers provide support for a network of up to 2,500 FlexVNF devices. The SDN controller is basically a BGP route reflector and IKE/key exchange server for the data plane mesh of IPSec-ESP tunnels.



Security

An optional, add-on Unified Threat Management (UTM) license is available.



Analytics

Depending on the service option selected, reporting and statistics are provided using our WAN Analysis reporting service, supplemented with specific SD WAN reporting that is common across all of our supported vendors. These tools are available to customers via the Verizon Enterprise Center.

Control costs and services.

Software Defined Secure Branch helps you control costs while providing the flexibility to choose from multiple CPE platforms and FlexVNF license and service tier options to meet specific site requirements. Our flexible pricing models offer cost-effective monthly billing options to help you balance capital expense (CAPEX) and operational expense (OPEX) spending.

Focus your resources where you need them the most.

Software Defined Secure Branch helps you reduce the complexity of managing your network resources. We offer management options at the network function level, regardless of your network architecture, including premises based, public or private cloud, or any hybrid combination around the globe.

With Full Management, we apply our world-class, end-to-end services from initial design and deployment right through to your on-going life-cycle management needs. With a Monitor/Notify management level available for select platforms, we'll work hand-in-hand with you to maintain efficient network operation and up-time, while you retain management control of your policies for security and privacy. Three minute device polling, auto-generated alarms and device/service outage notifications help provide reliable network function performance while enabling you to focus your in-house resources where you need them the most.

Explore the benefits of Software Defined Secure Branch.

- Rapidly scale and meet evolving needs with fast, on-demand deployment of CPE, SD WAN technology and security functions
- Quickly bring new branch locations on line with zero touch provisioning for the CPE you choose
- Customize security function deployed at the branch level
- Control the spread of breaches with network micro-segmentation
- Choose the deployment model and services you need to meet your application and security needs
- Control costs and CAPEX spending
- Free up resources to focus on business objectives

Why Verizon?

As your one-stop shop for managed services, we make it easy to get the agility, flexibility and performance you need to help secure your network and adapt to the rapidly changing demands of business. Verizon is recognized as a leader in delivering networking, security and cloud solutions that provide game-changing virtualization initiatives for the modern, hyper-connected world. We've helped 97 percent of the Fortune 500 solve some of their biggest challenges, and we can help you, too.

We have a rich ecosystem of VNF providers so you can select the services you need. With our experience managing more than 500,000 security, network and hosting devices, and over 4,000 customer networks in 150-plus countries, you can rely on our ability to smooth your transition to virtual network services and deliver the end-to-end managed services that will help you protect your mission-critical data and your business.

Learn more.

Find out how you can deploy and manage a more efficient, intelligent network with Virtual Network Services. Visit <https://enterprise.verizon.com/products/network/virtual-network-services/software-defined-secure-branch/> or contact your account representative today.

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