
Branch Overview



For supported software information, click [here](#).

A Versa SD-WAN network consists of two basic components: a headend and a branch. This article provides an overview of the Versa branch. For an overview of the headend, see [Headend Overview](#).

A Versa branch consists of Versa Operating System™ (VOS™) software that is running on a network services device located in a branch office. The VOS appliance is connected through a public network (such as the internet) or through a private network (such as an MPLS network), or through both, to the Versa Controller, which is one of the Versa headend components located in a data center. The headend components—Versa Director, Versa Analytics, and Versa Controller—work in conjunction with each other to manage a network of VOS appliances located at different branch offices.

The VOS software is a highly available distributed network services that supports multitenancy.

The VOS supports a variety of network services, including the following:

- Routing services
 - Carrier-grade NAT
 - Layer 3 routing for customer-premises equipment (CPE)
 - Provider edge services
 - Route reflector
- Security services
 - Application detection and control
 - DDoS protection
 - DNS filtering
 - Intrusion detection system and intrusion prevention system (IDP/IPS)
 - Layer 3 and Layer 4 firewalls
 - Network antivirus and antimalware services
 - Next-generation firewalls
 - URL filtering
 - Unified threat management
 - Zero-day attack prevention
- VPN services

- Site-to-site IPsec VPNs
- Network services
 - BFD
 - DHCP server and relay
 - Ethernet OAM
 - QoS
 - VRRP
- Software-defined wide-area network (SD-WAN) services with link SLA monitoring

The VOS software is configured and managed by Versa Director, which also provides a REST-based API to allow integration of third-party applications for managing branch devices.

The underlying platform for each VOS device can be a Versa CSG700 series appliance, white box hardware, an x86-based bare-metal device, a public cloud platform, or a virtual machine (VM). You can also deploy a Versa Controller on a Versa CSG700 series appliance or on white box hardware.

You can configure the VOS software to perform these functions:

- Branch router or CPE
- Hub router
- SD-WAN gateway
- SD-WAN controller (for the headend)

Supported Software Information

Releases 20.2 and later support all content described in this article.

Additional Information

[Branch Hardware and Software Requirements](#)

[Branch Initial Software Configuration](#)

[Branch Installation](#)

[Headend Overview](#)