SD-WAN VMWARE

Enables simple, agile and secure branch office wide area networks

Key Features

- Performance and Reliability
- Cloud Network
- Virtual Services
- Automation and Orchestration
- PCI 3.0 Compliance

Software-Defined WAN

Saicom SD-WAN (Software-Defined - Wide Area Network) is ideal for connecting multiple branches into a single network, over the internet - dynamically, securely and more cost-effectively than traditional networking solutions. SD-WAN leverages broadband and private links and offers a platform for virtual service delivery that is available to businesses of all sizes.

Centralised orchestration for configuring connectivity and setting up shaping and security policies across multiple sites; link remediation, load balancing and redundancy are key features of SD-WAN.

What makes up VMware SD-WAN by VeloCloud?

VMware Cloud-Delivered SD-WAN enables quick and cost-effective deployment of new branches, provides Enterprise-grade WAN by leveraging broadband and private links, and offers a platform for Virtual Service delivery.
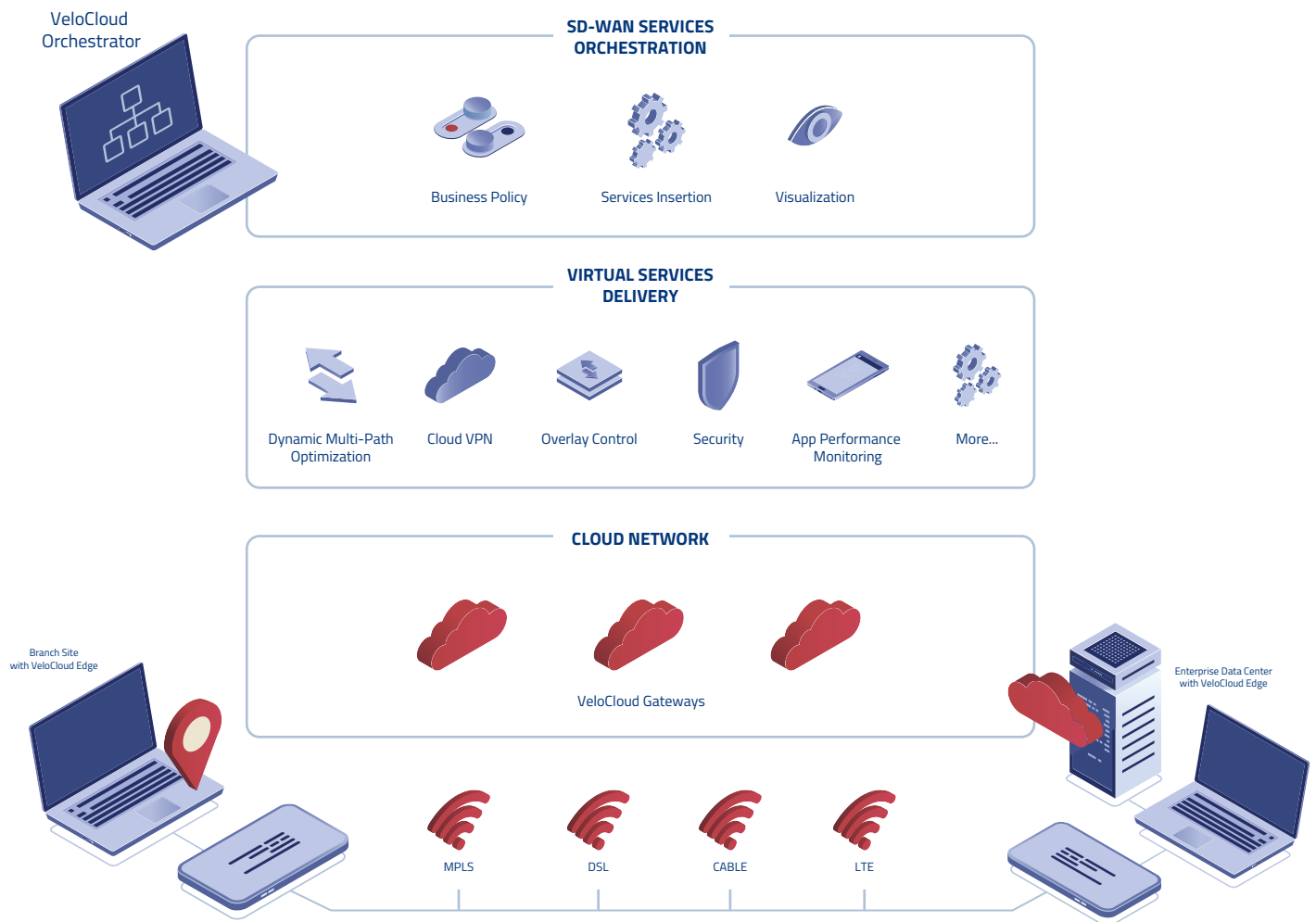
A distributed network of VMware Gateways

A distributed network of service gateways deployed at top tier cloud datacenters around the world, providing scalability, redundancy and on-demand flexibility. VMware Gateways provide optimised data paths to all applications, branches and datacenters along with the ability to deliver network services from the cloud.

A cloud-based VMware Orchestrator

The VMware Edges are zero-touch enterprise-class appliances that provide secure optimised connectivity to private, public and hybrid applications, compute and virtualised services. VMware Edges perform deep application recognition, application and packet steering, performance metrics and end-to-end quality of service in addition to hosting Virtual Network Function (VNF) services.

A branch platform VMware Edge

The VMware Orchestrator provides centralised enterprise-wide installation, configuration and orchestrating of the data flow through the cloud network. The VMware Orchestrator enables one-click provisioning of virtual services in the branch, the cloud, or the enterprise datacenter.

VeloCloud
Orchestrator

SD-WAN SERVICES ORCHESTRATION

Business Policy

Services Insertion

Visualization

VIRTUAL SERVICES DELIVERY

Dynamic Multi-Path Optimization

Cloud VPN

Overlay Control

Security

App Performance Monitoring

More...

CLOUD NETWORK

Branch Site
with VeloCloud Edge

VeloCloud Gateways

Enterprise Data Center
with VeloCloud Edge

MPLS

DSL

CABLE

LTE

Key Features

VMware SD-WAN provides bandwidth expansion as well as direct optimal access to enterprise and cloud applications and data. It also enables virtual services insertion in cloud and on premise – while dramatically improving operational automation.

Performance and Reliability
Deliver hybrid WAN with high performance, reliability and transport, and provider flexibility to ensure optimal performance even for demanding applications, such as voice and video.

Cloud Network
Eliminate data centre backhaul penalties with a cloud-ready network to provide an optimised direct path to public and private enterprise clouds.

Virtual Services
Reduce the branch office footprint with a single click with seamless insertion and chaining of virtualised services on premise and in the cloud.

Automation and Orchestration
Enable zero-touch branch network deployment with automation and business policy-based orchestration.

PCI 3.0 Compliance
Meets PCI 3.0 compliance with advanced security. Stateful and context aware firewall (application, user, device) for advanced security coupled with Automatic, single click Cloud VPN for branch-to-data centre and direct branch-to-branch traffic.

The main benefits of using VMware SD-WAN

VMware Cloud-Delivered SD-WAN enables quick and cost-effective deployment of new branches, provides Enterprise-grade WAN by leveraging broadband and private links, and offers a platform for Virtual Service delivery.

Performance

Dynamic Path Selection
VMware Dynamic Multipath Optimization comprises of automatic link monitoring, auto-detection of provider and auto-configuration of link characteristics, routing and QoS settings.

Link Steering and Remediation
On-demand, Per-packet link steering is performed automatically based on the measured performance metric, intelligent application learning, business priority of the application, and link cost. Delivers sub-second blackout and brownout protection to improve application availability. Remediates link degradation by through forward error correction, activating jitter buffering and synthetic packet production.

Smart QoS
Granular classification of 2,500+ applications enables smart control. Out-of-the-box defaults set the Quality of Service (QoS) policies for common business objectives with IT required only to establish traffic priority. Knowledge of application profile enables automation of QoS configurations and bandwidth allocations.

Application Performance Monitoring
VMware continuously computes a VMware Quality Score (VQS) to assess performance of critical voice, video, or data applications at any given time with the ability to alert IT staff. This analysis provides administrators a comprehensive before-and-after view into application behavior on individual links and the VMware enhancements.

Cloud Network

Zero-Touch Deployment

VMware Edge appliances automatically authenticate, connect, and receive configuration instructions once they are connected to the Internet in a zero-touch deployment. Deliver highly available deployment with VMware Edge redundancy protocol. Integrate with the existing network with support for OSPF routing protocol and benefit from dynamic learning and automation.

Cloud VPN

One-click site-to-site cloud VPN is a VPNC-compliant IPSec VPN to connect VMware and non-VMware sites while delivering real-time status and health of VPN sites. Establish dynamic edge-to-edge communication for all types of branches based on service level objectives and application performance. Deliver secure connectivity across all branches with PKI scalable key management. New branches join the VPN network automatically with access to all resources in other branches, enterprise datacenters, and 3rd party datacenters, like Amazon AWS.

Security

Stateful and context-aware (application, user, device) integrated next generation firewall delivers granular control of micro-applications, support for protocol-hopping applications, such as Skype and other peer-to-peer applications (e.g., disable Skype video and chat, but allow Skype audio). The secure firewall service is user and device OS-aware with the ability to segregate voice, video, data, and compliance traffic. Policies for BYOD (Apple iOS, Android, Windows, MAC OS, etc.) on the corporate network are easily controlled.

Virtual Service Platform

Virtual Network Function

Support virtual network function services to run on VMware Edge hardware, VMware Gateway, in the cloud of the service provider, or at the specific enterprise regional hub with service chaining support.

Flexibility

Enable VMware Virtual Edge on any x86, multi-core device capable of supporting single-ended service, like Firewall, or a dual-ended service, like VPN, via a variety of supported hypervisors. VMware, KVM, or Xen. Services can also be spun up in the VMware Gateway with a hypervisor when service is needed in the cloud.

Security Service Chaining

Chain cloud services for seamless integration and management. VMware has partnered with Zscaler and Websense to chain cloud-based security services to support advanced threat protection. Also, transparently forward select traffic to the cloud-based security service based on business-policy definition without any branch-by-branch or application-based configuration.

Automation & Orchestration

Business Policy
Quality of Service, resource allocations, link/path steering, and error correction are automatically applied based on business policies and application priorities. Orchestrate traffic based on service groups defined by private and public links, policy definition, and link characteristics.

Application Visibility
VMware offers recognition and classification of 2,500+ applications and sub applications without the need to deploy separate hardware or software probes within each branch location. VMware intelligently learns applications as they are seen on the network and adds them to the VMware cloud-based application database. Services such as firewall, intelligent multipath, and Smart QoS may be controlled through VMware application-aware business policy control.

Management and Control
VMware's centralised monitoring, visibility and cloud control enable zero-touch branch deployment across distributed locations while delivering automatic business policy and firmware updates, link performance, and capacity measurements. VMware supports northbound RESTful APIs for integration with different management solutions and multi-tenant dashboards for service providers.

About Saicom

What started as a telecommunications service provider almost 20 years ago, is today a cloud-first, software-driven solutions company, with an extensive network that spans Johannesburg, Cape Town, and Durban. Today, we are not only able to deliver competitive voice and connectivity offerings, but also SD-WAN, cloud and hosting capabilities that match our clients' needs and a security solution that provides an outside-in and inside-out approach to protecting our clients and their networks.

We've built our telecom company around our ability to adapt, grow, innovate and evolve, yet one thing always stays the same; our customers' needs come first. This is our guiding force on our journey to creating easier and more cost-effective ways for our clients to compute, collaborate, network and secure their businesses.

Other Services

Collaborate
Collaboration is a big part of all that we do.

Compute
We understand that when it comes to navigating a move to the cloud.

Secure
For us, cyber security goes far beyond technical solutions.

Mobile
Designed for businesses on the move.