

NHC Managed SD-WAN

expand your edge.

What is SD-WAN?

Software-Defined Wide Area Network is the application of software-based network technologies to WAN connections to more effectively route all network traffic between headquarters or data centers, remote and branch offices, and the cloud.

More simply, it is the method of leveraging the benefits of the cloud, the bandwidth of broadband and existing enterprise-wide network infrastructure to more efficiently and cost effectively transmit media (data, video, voice) and quickly access cloud applications from every location in the network.

SD-WAN dynamically utilizes multiple available connections (MPLS, broadband, LTE) to find the optimal delivery path for traffic across the entire network, shaping the bandwidth as needed to eliminate jitter and dropped data packets, thereby delivering an optimal user experience regardless of location.

The more sophisticated solutions will first attempt to dynamically steer traffic to the best available link and if the available links show any transmission issues, they will immediately apply on-demand remediation to the link to ensure performance of the high priority applications.



Isn't SD-WAN really SDN?

SDN is an architecture, whereas SD-WAN is a technology that can be purchased. SD-WAN is built on the foundational concepts of SDN.

Why is it changing the network game?

Traditionally, enterprises utilized dedicated and private, but bandwidth constrained, and expensive MPLS networks for communications between branch offices, to/from headquarter locations, and to access applications and data housed in data centers. Broadband was only considered acceptable as a back-up due to unreliable performance and security concerns.

Then cloud applications (such as SalesForce, Office365, AWS, etc.) entered the picture and as enterprises moved to utilizing these on a day-to-day basis, MPLS alone was inadequate from an architecture or bandwidth perspective, especially for cloud and real-time applications.

Enterprises needed a method of allowing each enterprise location to quickly, and securely, access:

- All other locations in the network;
- Data center applications;
- Cloud applications.

SD-WAN is no longer a buzzword, but a proven technology to deliver the scalability, affordability, and flexibility that enterprises require to support today's evolving technological landscape.

Benefits of SD-WAN



Network Agility

Because SD-WAN is cloud-delivered and software based, it allows for quick adaptation to changing needs including adding access to cloud-based services, standing up new branches or remote offices, and dynamic routing of all traffic for optimized application and data delivery.



Cost Reduction

An SD-WAN deployment is 2.5 times less expensive than traditional WAN architectures.

The root of this reduction is attributed to:

- Leveraging existing infrastructure to transmit all traffic and access cloud applications (MPLS, broadband, LTE).
- Reducing problem identification and associated remediation costs: Central management and control of network activity eliminates the need to send out trained technicians to assess issues and repair them.
- Payment plans that are subscription models, accommodating OpEx budgets, thereby removing high upfront investment costs and on-going maintenance and upgrade fees.
- Zero touch provisioning that allows quick branch deployments and time to accessibility as all deployment functions are managed from the central IT home office.
- The lack of need to deploy application-specific hardware or software at each branch location as all locations can access the same cloud-based applications.



Ease of Deployment

SD-WAN allows for various deployment options including completely cloud- or software-based, hardware based, or a hybrid (cloud/software and hardware). In each instance, all the components are able to connect to each other when brought online and configurations are pushed from the central monitoring and management orchestrator. There is no need for a specialized technician to facilitate installation.



Central Management and Control

A centrally located orchestrator monitors all network activity, alerting of problems, and enabling the remote remediation of issues. The orchestrator enables the automatic push of configurations to each network node and added accessibility to common software platforms to every location quickly and efficiently. In addition, it delivers real-time analytics and reporting.



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