The Oracle SD-WAN Solution

The Oracle SD-WAN solution engineers the network and applications for maximum business impact by delivering a failsafe Software Defined Wide Area Network (SD-WAN) that offers increased capacity, improved reliability, higher quality of experience while lowering costs. Oracle's SD-WAN solution also enables a secure and consolidated branch infrastructure that delivers application and service deployment flexibility, without sacrificing availability or performance.

With the explosive growth in real time applications, distributed workforces and cloud computing, a company's productivity and customer responsiveness have never been more dependent on the Wide Area Network (WAN) infrastructure and the move to cloud applications. Having enough bandwidth to support increased demand as well as deliver predictable reliability and continuous application availability are keys to success.

The cloud is rapidly changing demands on enterprise IT legacy resources. The traditional WAN deployment of the last decade—MPLS circuits and enabling devices, often augmented by separate WAN optimization and firewall equipment—no longer offer enterprise IT the necessary requirements for cost savings, flexibility, bandwidth, manageability and streamlined cloud connectivity. Failsafe Oracle SD-WAN offers organizations the unique combination of availability, performance and reliability, yielding a highly resilient remote site with platinum application Quality of Experience (QoE).

A FAILSAFE SD-WAN

The Oracle SD-WAN solution delivers a resilient network that ensures application availability while lowering cost. The following are some of the leading capabilities and benefits of this solution:

- **Secure cloud access with visibility.** Oracle extends the reach of the corporate WAN into the cloud by delivering an encrypted infrastructure with the performance, reporting, and control required to ensure a successful deployment.
- **Increased application QoE.** Oracle SD-WAN ensures that applications work without interruption, even in the case of link failure or network impairments such as high jitter, delay, or packet loss.
- **Change WAN economics with a hybrid WAN.** Companies can modify their MPLS WAN infrastructure to incorporate low-cost, high-bandwidth broadband links that Oracle SD-WAN technology converts into a business-class network.

Solution Components

Oracle SD-WAN is built on a comprehensive portfolio of physical and virtual appliances and includes both a controller and a centralized orchestration and analytics platform. Customers can determine whether the solution is deployed at the physical edge, the virtual edge, or in the cloud.

RESILIENCY BENEFITS OF AN SD-WAN

- Continuous per-packet, unidirectional performance analytics that factor in packet loss, latency, jitter, and bandwidth between all paths and aggregated links

- Adaptive, deterministic, per-packet optimal WAN-path decisions and sub-second response to degrading network issues such as link/device failures or congestion-based disruption or outages

- Liquid application flows that are not impeded even with heavy loss, jitter, or link failure

- Single-priority flows across multiple links using all m/x/n paths between location pairs

- Ability to use all available bandwidth across multiple links—even for a single, high-bandwidth flow

- Customizable by bandwidth availability, providing highly efficient bandwidth utilization

- Replication of flows and packets across disparate links, especially for real-time apps such as VOIP that require platinum QoS support

- Unmatched support for real-time and highly interactive apps

- Extremely scalable (to thousands of WAN links with continuous, real-time path measurement) to accommodate QoE standards set by cloud service access providers and edge-network colocation facilities (carrier agnostic)

- Superior inbound congestion avoidance, providing bandwidth reservation and control that enables business-quality app predictability
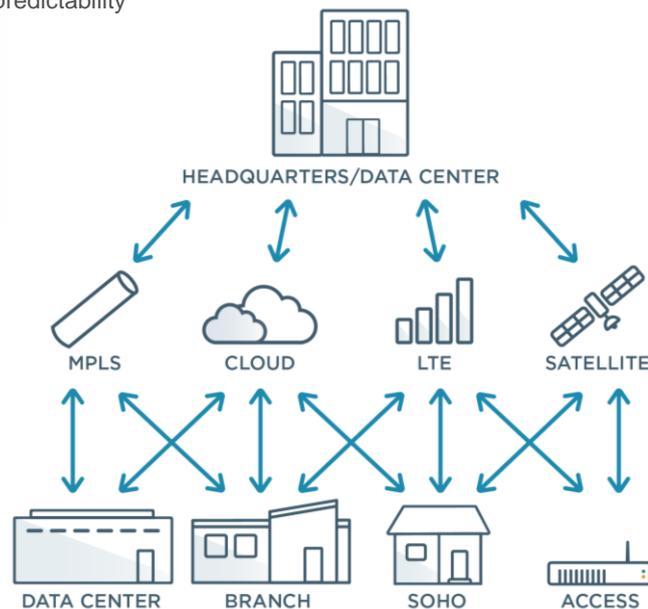

Figure 1. Multi-network, high performing, reliable communications

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