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IDC

Self-Healing is Key to Optimizing Network Economics

Macroeconomic Forces Driving Re-Architecture of Enterprise Networks

Continued adoption of cloud services

the shift to hybrid and remote work environments

and the ongoing growth of streaming video

are impacting the economics of enterprise networks

SD-WAN HAS EMERGED AS A LEADING SOLUTION
to address these challenges, and according to IDC's U.S. enterprise survey data:

72% **of respondents are looking to deploy SD-WAN in the coming two years**

Source: IDC's Enterprise Communications Survey, June 2021

Traffic Growth Challenges Network Economics

The pandemic accelerated WAN traffic growth due to:

Strong consumer appetite for on-demand and live video. Content delivery network (CDN) traffic is projected to reach **80% of all Internet traffic by 2024**, dominated by video streaming (around 65% of CDN), according to IDC.

Growth of global ecommerce to support the digital economy. Enterprises have discovered that the omni-channel approach (online and physical) is critical to their competitive advantage.

Emergence of the distributed enterprise. The unprecedented growth of remote and hybrid work environments exacerbated the pressure on WAN traffic, especially to support video communications.

Shift of compute to the edge. IDC predicts that **by 2023, over 50% of new enterprise IT infrastructure will be deployed at the edge** rather than corporate datacenters.

Self-Healing Networks Improve WAN Performance

Self-healing networks possess the following key attributes:

Routing on optimal paths using algorithms that steer traffic on least-cost routes or alternative routes in case of error detection

Minimized retransmission through forward error correction reducing the need for retransmitting packets



Autonomous operations using monitors to constantly detect anomalies in path traffic performance and to reroute traffic, minimizing delays and downtime

Predictive analytics supported by extensive measurements of traffic patterns, application utilization, and peak traffic events, allowing algorithms to predict customer patterns and administrators to configure the network for optimal performance

Conclusion: SD-WAN with Self-Healing is the Right Choice

As enterprises navigate the ongoing challenges of transforming their networks, they should consider solutions with self-healing capabilities.

Self-healing networks provide an optimal utilization of network resources and improve overall networking economics by:

- Enhancing last-mile performance with path conditioning, resilient packet delivery, and improved network visibility.
- Optimizing access to SaaS applications through intelligent prioritization of cloud connectivity.
- Prioritizing customer-demanded applications to ensure that these applications receive adequate connectivity during adverse networking conditions.

Message from the Sponsor

Market forces, such as adoption of cloud services, the shift to a hybrid work environment and the continued growth of streaming video, are impacting the economics of enterprise networks. As a result, enterprises are challenged to deal with increasing traffic, non-linear behavior of application bandwidth and the shift of compute of the edge.

The AT&T SD-WAN with Aruba solution goes beyond traditional SD-WAN implementations by utilizing self-learning capabilities to improve the economics of the WAN and to deliver high-quality customer experience.

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Learn more

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