What is the HPE Aruba Networking EdgeConnect Enterprise SD-WAN?

Ensuring continuous operations and high levels of application performance is a challenging and often time-consuming task for IT. Adding broadband and 4G/5G/LTE connections and cloud-based SaaS and IaaS applications to the mix only makes the job even more difficult.

Plus, considering traditional WANs were never architected for a dynamic, cloud-based environment, it has become clear to business leaders that the repetitive nature of backhauling traffic destined to the cloud is negatively impacting application performance and user experience.

What is an SD-WAN?

HPE Aruba Networking improves the quality of experience for IT by enabling an SD-WAN that provides consistent, reliable application performance through features such as path conditioning, tunnel bonding, traffic shaping, WAN optimization and intelligent cloud breakout. But what is an SD-WAN?

A modern, software-defined wide area network (SD-WAN) is a virtual WAN architecture that uses a centralised control function to securely and intelligently direct traffic across the WAN. Ideal for enterprises that require a modern, cloud-first WAN architecture, an SD-WAN uses an automated, application-aware, policy-driven approach that can be deployed in both existing and new environments.

Introducing the HPE Aruba Networking EdgeConnect Enterprise SD-WAN

Standing out from other SD-WAN solutions in the market, the HPE Aruba Networking EdgeConnect Enterprise SD-WAN platform enables IT to deliver predictable end-user experiences across the business, optimise performance of cloud-based applications, and save money at the same time.

Born from HPE's acquisition of Silver Peak, HPE Aruba Networking EdgeConnect offers a complete edge-to-cloud networking solution that covers all aspects of LAN and wired and wireless WAN, helping to accelerate cloud transformation for enterprises.

As a result, HPE Aruba Networking EdgeConnect users will be able to quickly migrate to secure, enterprise-grade SD-WAN connectivity, achieving dedicated WAN-like performance while running all applications and cloud services over broadband.

Key features of the HPE Aruba Networking EdgeConnect Enterprise SD-WAN

While basic SD-WAN offerings provide more WAN connectivity options and the potential to lower WAN costs, they do not mitigate the application performance impacts of latency, nor do they increase bandwidth efficiency

HPE Aruba Networking EdgeConnect Enterprise technologies, however, deliver the highest levels of application performance, QoS, and enable application SLAs over any combination of transport services including consumer broadband and LTE.

HPE Aruba Networking EdgeConnect Enterprise application performance features include:

Path conditioning
With forward error correction (FEC) and packet order correction (POC), HPE Aruba Networking EdgeConnect Enterprise can make internet connections perform as well as or better than private lines using path conditioning to overcome the adverse effects of packet loss and out-of-order packets.

Tunnel bonding
Bonded tunnels may be configured from two or more physical WAN links to form a single logical overlay connection. This means, if one link were to fail, the remaining link would continue to carry all the traffic to keep the connection active and the application alive, avoiding any interruption or data loss.

Traffic shaping
Traffic shaping ensures no single application consumes all the WAN bandwidth by enabling IT to programme minimum and maximum bandwidth limits on the egress traffic shaping engine per traffic class. Ingress shaping can be programmed to ensure that low-priority traffic does not override higher priority traffic.

WAN optimisation
With the optional HPE Aruba Networking Boost software performance pack, HPE Aruba Networking EdgeConnect Enterprise integrates HPE Aruba Networking's field-proven WAN optimization features in a single SD-WAN solution.

Advanced features that make HPE Aruba Networking EdgeConnect unique

Business-driven application-specific routing
EdgeConnect Enterprise business intent overlays enable you to create a virtual WAN for every class of traffic. Application performance, security, and routing policies are automatically programmed to all sites, ensuring consistency across the network.

Highest quality of experience
End users experience consistent application performance including high quality voice and video over broadband connections. Real-time monitoring, continuous adaptation, and automated response assure the highest performance and availability, whether applications reside in the data centre or the cloud.

Continuous adaptation
Increase SaaS and IaaS performance with real-time monitoring of network and application performance and automated remediation to eliminate the impact of outages.

Unified platform
Designed as one, EdgeConnect Enterprise unifies SD-WAN, routing, firewall, segmentation, WAN optimization and application visibility and control in a single centrally managed platform forming the foundation for a secure access service edge (SASE) architecture.

The HPE Aruba Networking advantage

Ultimately, not all SD-WANs are created equal. Only HPE Aruba Networking delivers total performance and enables application SLAs at any scale using any combination of transport services.

The suite of HPE Aruba Networking EdgeConnect Enterprise performance features enables businesses to achieve consistent application performance even through transport interruptions and brownouts.

To find out more about how the HPE Aruba Networking EdgeConnect Enterprise SD-WAN platform can enable your business to build a modern WAN that drives maximum value from cloud and digital transformation initiatives, contact your TD SYNNEX representative today.

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