VMware SASE

Succeed in a completely distributed world

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SASE™

Built on the success of VMware SD-WAN, VMware SASE is a leading secure access service edge platform, enables a distributed workforce, and ultimately enables and accelerates your WAN and edge transformation. It delivers cloud agility, consumer simplicity, and enterprise security to users anywhere.

The widespread adoption of clouds, remote work, and new edge applications is changing how organizations approach networking and security. Legacy infrastructure and architectures are costly, inflexible, and slow access to cloud services and applications. Enterprises also need to support a new breed of applications at edge locations which use local compute and AI to transform IoT data into smarter decisions and new customer experiences.

These trends create challenges for organizations that need secure, reliable, and optimal delivery of applications, data, and services regardless of where the application lives (data center, cloud, edge, SaaS) and regardless of the user's location (home, office, airport, etc.). A cloud-based networking and security architecture will harness the power of these trends and embrace the agility they provide.

VMware SASE cloud-based architecture

VMware SASE™ converges industry-leading cloud networking with cloud security through a cloud-native, edge services platform. Its distinct advantages assist enterprises in their cloud, workforce, and application transformation initiatives.

VMware's unique approach includes over 200 points of presence (PoPs) worldwide, from VMware and its partners, to serve as an on-ramp to SaaS and other cloud services. These PoPs, strategically located in IaaS and co-location data centers, deliver optimal performance because they are close to users and applications.

The VMware SASE architecture combines networking and security services:

- **VMware SD-WAN™** optimizes app performance over any WAN link. It delivers content across multiple transports using policy-based prioritization, intelligent traffic steering, continuous link monitoring, and automatic remediation.

- **VMware Secure Access™** is a remote access solution based on a zero-trust network access (ZTNA) framework. The cloud-hosted solution offers multiple

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"We partnered with VMware specifically for its SD-WAN solution to extend the same level of user experience to the home as if our employees were working onsite."

Emil Patel, Director, University of Texas, MD Anderson Cancer Center

benefits over traditional VPN solutions to provide users with consistent, optimal and secure cloud application access.

- **VMware SD-WAN Client™** provides enterprise IT with an easy and secure remote access solution for workers anywhere that optimizes connections for speed and reliability.

- **VMware Cloud Web Security™** leverages and integrates best-of-breed secure web gateway (SWG), cloud access security broker (CASB), data loss prevention (DLP), URL filtering, and threat protection into the SASE PoP to provide secure, direct, and optimal access to SaaS applications and Internet sites.

- **VMware Edge Network Intelligence™** is a vendor-agnostic AIOPs platform delivering rich user experience and providing artificial intelligence/machine learning (AI/ML)-enabled visibility from users to applications across wireless or wired LAN, WAN, and the cloud.

Figure 1: VMware SASE provides flexibility and choice to support a single or multi-vendor SASE framework.

With VMware SASE, organizations can better support:

- **Cloud adoption.** Through a global cloud platform available to both customers and managed service providers, VMware provides easy, reliable, and secure access to cloud, SaaS, and traditional applications.

- **Remote and hybrid workers.** In addition to providing secure, reliable, and optimal connectivity for branch locations, VMware SD-WAN and VMware SASE also extend these capabilities to the remote user through a unique client solution for endpoints and IOT devices and incorporates AIOps to provide a self-healing network.

- **Business applications at the edge.** VMware SD-WAN and VMware SASE are integrated with VMware Edge Compute Stack, a full-featured integrated IT and OT edge platform, offering the flexibility and consistency to operate your modern, existing, and future edge-native applications on containers at the edge of your network.

Learn more

- VMware SASE, *sase.vmware.com*
- VMware SD-WAN and the VMware SD-WAN Client *sase.vmware.com/sd-wan*
- VMware Secure Access, *sase.vmware.com/products/ vmware-secure-access*
- VMware Cloud Web Security, *sase.vmware.com/products/ cloud-web-security*
- VMware Edge Network Intelligence, *sase.vmware.com/products/ edge-network-intelligence*

Customer benefits

Built on the success of VMware SD-WAN and the unique Network of Clouds service, VMware continues to enable and accelerate your digital transformation:

- **Enterprise agility:** VMware's cloud-first solution enables workers and applications anywhere and provides organizations operational flexibility to adapt to change. With over 200 points of presence, applications are delivered to users reliably, quickly, and securely. The open architecture allows customers to adopt network and security functions on their own timeframe.

- **Superior user experience:** Even over a single link and degraded network conditions, an ideal user experience with your applications is delivered using Dynamic Multipath Optimization™ (DMPO). VMware SASE reduces latency by incorporating all network and security functions within a single cloud PoP to improve the user experience and productivity.

- **Reduce security risks**: VMware SASE incorporates Zero Trust principles into a comprehensive security suite to provide secure access to your applications. It reduces breach and compliance risks when workers access SaaS services and the Internet.

- **Flexibility and choice:** Choose between A single-vendor solution with VMware SASE for a unified network and security experience, or a two-vendor solution that pairs leading VMware SD-WAN with third-party security. Either way, VMware provides a great experience for your organization.

- **Improve TCO**: VMware SASE customers achieved a 50% reduction in time to manage network and security operations according to a Forrester Consulting study[1]. Operations are simplified with a single management plane for both security and networking, and AIOps to automatically diagnose and self-heal network issues.

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[1] The Total Economic Impact of VMware SASE: Cost Savings and Business Benefits Enabled By SASE, Forrester Consulting, February 2022