

VMware SASE

Succeed in a completely distributed world

vmware®

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 accelerate your WAN and edge transformation. It delivers cloud agility, consumer simplicity, and enterprise security to users anywhere.

Industry disruptions across multiple verticals are forcing changes everywhere. Users, workloads, applications, and data have become highly distributed. For example, use cases like point of sale, theft/loss prevention, physical security, and digital signage in the retail industry require compute to be close to the users at the edge to provide needed performance. The centralized cloud and data center model presents limitations in serving enterprises' needs. Organizations are facing challenges to stay competitive in this highly distributed world.

IT infrastructure must evolve to turn these challenges into opportunities—creating new customer experiences from the edge, providing flexible work environments, and modernizing applications. Secure Access Service Edge (SASE) is the critical application delivery framework to reliably and securely connect distributed users to distributed applications, including those at the new enterprise edge.

VMware SASE and cloud-based architecture

VMware SASE™ converges industry-leading cloud networking and cloud security to deliver flexibility, agility, protection, and scale for enterprise, and enable WAN and edge transformation.

VMware's unique approach includes over 150 SASE points of presence (PoPs) worldwide 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 cloud-native SASE architecture combines VMware SD-WAN™, VMware Secure Access™, VMware Cloud Web Security™, and soon a firewall as-a-service (FWaaS).

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

Transform the distributed edge

Optimal application delivery

With VMware SASE, organizations benefit from the power of SASE in Internet exchange and co-location data centers. VMware SASE simplifies cloud-on-ramp and multi-cloud interconnect and provides automatic discovery of IaaS routing domains, automated and segmented routing between domains. You decide where to keep your applications and data. Your users choose where they work: home, office, or anywhere. Regardless of user and application locations, you're ready to deliver the most optimal and secure cloud application access experience in this highly distributed world.

Enhanced security

By integrating advanced security capabilities including ZTNA, SWG, CASB, URL filtering, IPS/IDS, and DLP, VMware SASE extends the security boundary beyond data center and cloud to applications and users, minimizes attack surfaces by trusting no one, and protects user, network, application, and data against threats from inside and out.

Learn more

- VMware SASE, sase.vmware.com
- 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
- VMware SD-WAN, sase.vmware.com/sd-wan

With VMware SASE, organizations can:

- Use a single, cloud-native, multi-tenant platform for secure access to public and private cloud applications
- Provide unified secure access experience for branch, campus, and mobile users through VMware Secure Access service
- Deliver contextual access based on user identity, device posture, application domain, and security posture
- Administer web and security policy control from a single management platform

Customer benefits

Built on the success of VMware SD-WAN and the unique Network of Clouds service, VMware continues to enable and accelerate your WAN and edge transformation journey through VMware SASE.

Organizations can continue to expect and achieve:

- **Enterprise agility:** VMware's cloud-first solution enables workers and applications anywhere and provides organizations operational flexibility to adapt to change. With over 150 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.
- **Digital experience:** The availability and performance of your mission-critical applications are ensured, even over a single link and degraded network conditions, through Dynamic Multipath Optimization™ (DMPO). With all security functions within a single PoP, latency is reduced to improved user experience.
- **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.
- **Improve TCO:** VMware SASE customers achieved a 50% reduction in time to manage network and security operations according to a Forrester Consulting study¹. Operations are simplified with a single management plane for both security and networking, and AIOps to automatically diagnose and self-heal network issues.

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