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SASE Platform™

VMware SASE Platform

SASE in a work from anywhere world

We live in an ever-evolving digital world. Applications are moving out of data centers to the cloud. Devices are proliferating with IoT and data volumes growing at a rapid rate. Users are accessing the distributed apps from anywhere—home, office, or away. To support this shift, organizations need to adopt cloud, embrace mobility, and deliver a superior user experience—all while protecting their users and business against emerging security threats. The answer is what Gartner calls secure access service edge (SASE)*.

VMware SASE Platform and a cloud-based architecture

The VMware SASE Platform™ is cloud-native secure access service edge platform that converges industry-leading cloud networking and cloud security to deliver flexibility, agility, protection, and scale for enterprises of all sizes. The uniqueness of the VMware approach is in its SASE points of presence (PoP), which are strategically distributed around the world and serve as an on-ramp to SaaS and other cloud services. The global footprint of VMware SASE PoP™ deliver cloud-based networking and security services that easily scale customers' SASE needs.

VMware SASE Platform combines the cloud VMware SD-WAN™ Gateway, VMware Secure Access™, VMware Cloud Web Security™, and VMware NSX Cloud™ Firewall into one holistic solution.

- **VMware SD-WAN Gateway** – Multitenant gateway service and policy control point with a global footprint of more than 2,000 gateways supported by VMware and its partners to deliver superior application access performance and scale.
- **VMware Secure Access** – Combines industry-leading VMware SD-WAN™ and VMware Workspace ONE to extend the same onsite-like experience to remote mobile users on managed delivers, all based on the principle of zero trust network access (ZTNA).
- **VMware Cloud Web Security** – Leveraging and integrating best-of-breed secure web gateway (SWG), cloud access security broker (CASB), data loss prevention (DLP), URL Filtering, and remote browser isolation (RBI) into the VMware SASE PoP to provide secure, direct, and optimal access to SaaS and internet web access.
- **VMware NSX Cloud Firewall** – Integrating VMware NSX next-generation firewall (NGFW) and advanced security functionalities such as DPI, IPS/IDS as part of the SASE services to provide identity-based protection to the on-premises application access from anywhere.

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*Source: Gartner Inc., The Future of Network Security Is in the Cloud, by Neil MacDonald, Lawrence Orans, Joe Skorupa, Published 30 August 2019

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As an extension of the VMware SASE Platform, VMware Edge Network Intelligence offers an AIOps solution with a rich customer experience. By extending SD-WAN into the campus, branch, home, and end devices and providing AI/ML-enabled visibility from the WAN to branch and Wi-Fi/LAN, VMware Edge Network Intelligence ultimately delivers actionable insights for performance assurance and a self-healing network.
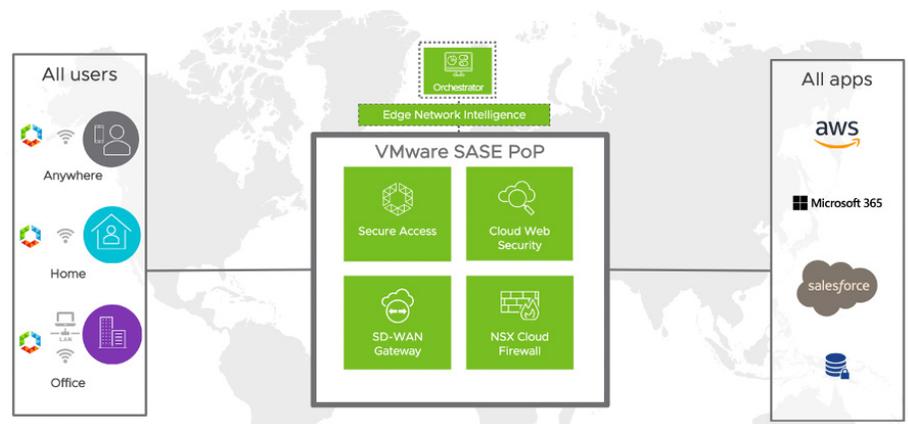

FIGURE 1: VMware SASE PoP Architecture

Leap to the new normal of work from anywhere with VMware SASE Platform

VMware allows organizations to benefit from the power of SASE in the multitenant internet exchange and co-location data centers of Equinix and other provider partners. You decide where to keep your applications and data and your users choose where they will work. Regardless of the user and application locations, you're ready to deliver the most optimal and secure cloud application access experience in the distributed multi-cloud world.

By integrating advanced security capabilities, including ZTNA, SWG, CASB, RBI, URL Filtering, IPS/IDS, and DLP, the VMware SASE Platform extends the security boundary beyond data center and cloud to applications and users, minimizing the attack surface, and protecting users, networks, applications, and data against threats. With the VMware SASE Platform, organizations can:

• Use a single cloud-native, multitenant platform for the on-ramp to public and private cloud

• Provide a unified secure access experience for branch, campus, and mobile users

• Deliver contextual access based on user identity, device location, and security posture

• Administer web and security policy control from a single management platform

Key takeaways and next steps

With the VMware SASE Platform, you can continue to expect and achieve:

- **Cloud-first approach** – Cloud gateway offers the first hop for the VMware SASE Platform and enables multi-cloud interconnect. VMware SASE services are completely cloud-based, and easy to consume and scale.

- **Intrinsic security** – ZTNA, SWG, CASB, DLP and NGFW are built into the VMware SASE PoP. The solution delivers a comprehensive suite of security features, including contextual access, network security, application protection, and workload encryption, to protect organizations against attacks at all levels.

- **Assured application performance** – Ensure the availability and performance of your mission-critical applications, even with a single link and degraded network conditions. Deliver assured and high-performing application access using VMware Dynamic Multipath Optimization (DMPO) which combines application recognition, policy-based prioritization, and intelligent QoS and shaping with dynamic per-packet steering.

- **Operational simplicity** – Simplify day 0-1 operations through automation and zero-touch provisioning (ZTP). Transform day-2 operations, including monitoring, maintenance, management, and troubleshooting. Self-heal your network through actionable insights and remediation suggestions delivered through AI/ML-powered VMware Edge Network Intelligence.

To learn more about:

- VMware SASE Platform, visit *https://sdwan.vmware.com/secure-access-service-edge*
- VMware Secure Access, visit *https://sdwan.vmware.com/vmware-secure-access*
- VMware SD-WAN, visit *https://sdwan.vmware.com/*