

Cloud On-Ramp via Netskope One Network

Solution Brief



Netskope Borderless SD-WAN and Netskope Intelligent SSE, integrated within the NewEdge network globally, deliver a unified SASE platform that enables visibility, security, and high-performance cloud on-ramps via multi-tenant unified SASE gateways from any branch, data center, or remote user to any cloud, SaaS, and UCaaS services, ensuring exceptional user experiences.

Quick Glance

- Leverage Netskope's global network of hosted, multi-tenant unified SASE gateways, that continue to offer scalability and redundancy, instantly connecting branches to any SaaS/UCaaS through low-latency, high-performance cloud on-ramps.
- Extend all SD-WAN benefits—active-active WAN circuits, sub-second failover, and FEC (Forward Error Correction)—to traffic over to 80k cloud applications.
- Experience the power of Netskope One Network, delivering unparalleled SD-WAN and SSE services with the industry's broadest geographic coverage across more than 74 regions globally.

The Challenge

With hybrid work becoming a fundamental mainstay, Gen1 SD-WAN solutions, designed for on-premise environments, fail to extend SD-WAN benefits to tens of thousands of cloud applications, lacking both visibility and a cloud presence. To modernize connectivity, enterprises face significant challenges:

- **DIY SD-WAN Instances Across Clouds Are Costly and Complex:** Deploying SD-WAN for each SaaS/UCaaS application leads to high operational costs due to extensive planning and labor-intensive DIY efforts.
- **Outages Cost Money:** Legacy SD-WANs lack crucial features like traffic prioritization, sub-second failover, etc. for cloud connections, increasing the risk of costly business disruptions.
- **Performance Hinges on Internet Quality:** Directly routing traffic from branches to SaaS/UCaaS platforms (e.g., Zoom, MS Teams) without optimization results in performance issues dependent on varying internet transport quality.

Integrating cloud-delivered security with each cloud SD-WAN gateway further escalates costs and complexity.

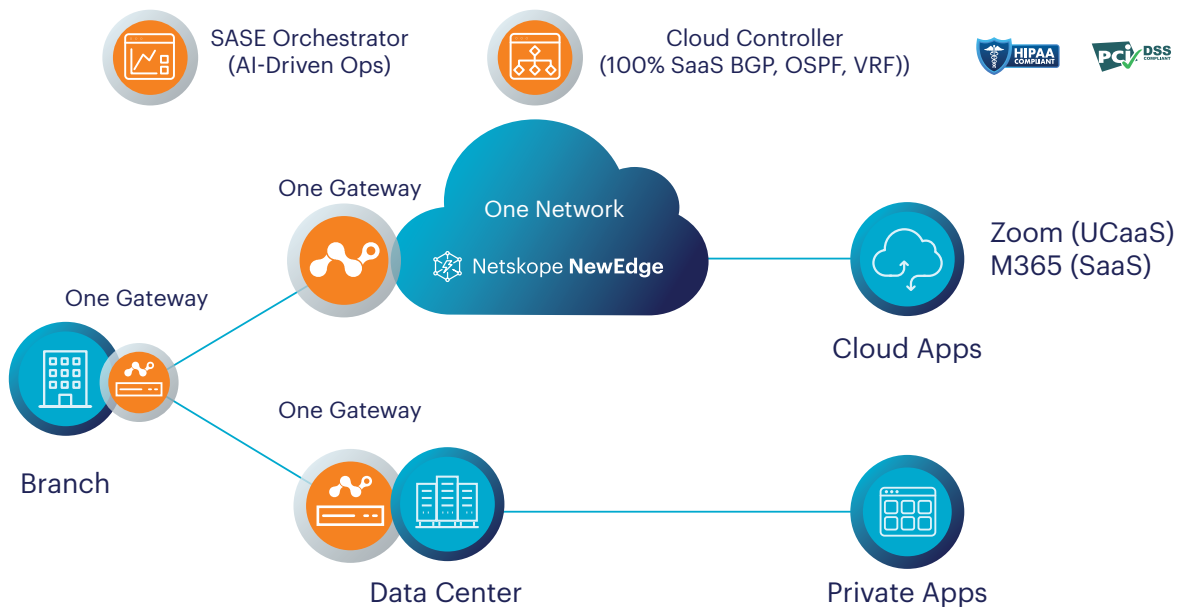


Figure 1: Key Components of the Next Gen SASE Branch Architecture.
 This diagram illustrates the critical components that enable the Next Gen SASE Branch solution to deliver high-performance cloud on-ramp via Netskope One Network.

The Solution

Netskope’s unified SASE gateways across NewEdge embody the One Network vision, seamlessly delivered both SD-WAN and SSE services globally via the Netskope One SASE platform. These advanced, cloud-delivered gateways continue to offer scalable, multi-tenant architecture that extends full SD-WAN benefits to cloud applications. High-performance cloud on-ramps ensure seamless branch-to-SaaS/UCaaS connectivity, enhancing user experiences dramatically.

This solution empowers customers to rapidly accelerate cloud adoption, modernize branch connectivity for critical business applications, streamline architectures, and slash operational costs.

Solution Components: Delivering Cloud On-Ramp via Netskope One Network

Integrating Borderless SD-WAN capabilities across the NewEdge network via unified SASE gateways, Netskope One Network enables customers to modernize branch infrastructure, offering high-performance access to tens of thousands cloud and SaaS applications, including business-critical apps like Zoom and Microsoft Teams. This transformation is facilitated by the Netskope One Network, serving as the robust backbone of the Netskope One SASE Platform.

The solution is realized through Netskope Next Gen SASE Branch architecture. Below are three critical components of the Next Gen SASE Branch that continue to empower this architecture.

Netskope One Gateway:

Netskope One Gateway, a unified SASE gateway, provides secure and optimized access to all applications and supports the widest range of deployment options, from micro to large branch or data center appliances, cellular gateways and as a virtual appliance for multi-cloud networking.

Netskope SASE Orchestrator:

Simplify management using a cloud-native, unified SASE console to enforce SSE and SD-WAN policies across branches, remote sites, and diverse cloud environments. Stay resilient with the industry’s first 100% SaaS based controller that separates control and data plane.

Netskope One Network:

Netskope NewEdge network, a fast, reliable, and converged cloud- native platform that offers the broadest geographic coverage in the industry (74+ regions). Netskope Borderless SD-WAN in NewEdge delivers high performance cloud on-ramps. Netskope Intelligent SSE at NewEdge offers various services, including NG-SWG, CASB, ZTNA, SSPM, CSPM, FWaaS, and DLP.

Solution Capabilities: Discover the Transformative Power of Cloud-Delivered unified SASE Gateways

Unlock unparalleled efficiency, performance, and simplicity with our cloud-delivered SASE gateways. Explore the key capabilities driving customer benefits:

- Simplify Operations With Cloud-Delivered SASE Gateways:** Connect instantly from branches to cloud-delivered Netskope unified SASE gateways offered as a service. This eliminates complexity, the planning and implementation challenges of DIY solutions, extending SD-WAN benefits like active-active links, sub-second failover, and Forward Error Correction (FEC) to all cloud applications, preventing business disruptions.
- Maximize WAN Efficiency With Inbound QoS:** Netskope's unified SASE gateways across NewEdge offer advanced capabilities like inbound Quality of Service (QoS) towards the branch to manage congestion, enhance network performance and deliver an optimal user experience.
- Unlock Full Visibility with Context-Aware SASE Fabric:** Discover, control, and automatically prioritize more than 80,000 cloud applications with Netskope CCI-based QoS smart defaults eliminating shadow IT and creating efficient network operations.
- Boost Productivity with Optimized SaaS Connectivity:** Provide high-performance and low-latency on-ramps to SaaS services such as Zoom and Microsoft Teams from distributed branches and deliver optimized experience. Traffic is optimized for the first mile (user to Netskope SASE) by monitoring

network packet loss, jitter, and latency, ensuring performance even on the last remaining link. For the last mile (Netskope SASE to the SaaS service), traffic is efficiently routed using NewEdge's high-performance cloud on-ramps.

- Experience Superior Performance with Close Proximity to IaaS and SaaS:** Powered by NewEdge, the multi-tenant, cloud-delivered, unified SASE gateways benefits from extensive interconnections with web/CDN, cloud SaaS providers, and ISPs, representing 3,100+ network adjacencies to 640+ unique ASNs.
- Maximize Uptime with Scalable and Reliable Hosted Service:** Netskope's multi-tenant, cloud-delivered unified SASE gateways are built for scale and managed as a service, offering scheduled upgrades, data redundancy, disaster recovery, and rapid response operation teams across multiple locations.

Netskope One Network powered the exceptional user experience for Zoom

Ensuring Application Performance for Business Critical Apps

In joint testing with Zoom, with 3% packet loss, Netskope Borderless SD-WAN demonstrates a continuous high-quality user experience by remediating packet loss significantly and delivering 24FPS share frame rate with a steady bit rate to the client machine (shown in figure below). The Zoom client without Netskope Borderless SD-WAN solution couldn't cope with the packet loss and had to drop its resolution to 8FPS share frame rate with an unstable bit rate, leading to a degraded user experience.

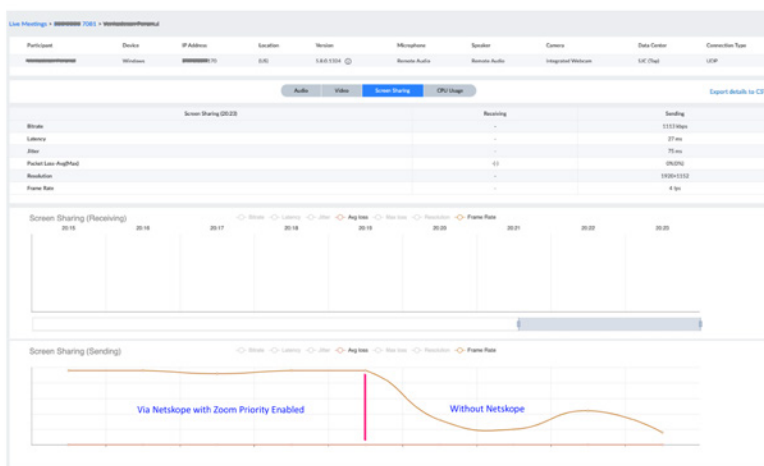


Figure 2: Joint Test Results of Netskope and Zoom Performance

By leveraging cloud-ready unified SASE architecture and remediation technology, customers can continue to experience high-quality Zoom sessions even on degraded SD-WAN links.

Conclusion

Achieve Unified SASE with Converged Services of Netskope One Network: The NewEdge Network

With both Intelligent SSE and Borderless SD-WAN services integrated into NewEdge, we delivered One Network, converging networking and security services globally with the industry's broadest coverage across 74+ regions. This continues to allow customers to unlock the full potential of Netskope's SASE services everywhere

The Netskope One SASE platform transforms enterprise connectivity and security, enabling organizations to modernize their infrastructure with ease. With Netskope's One Network running Borderless SD-WAN, businesses can expand their network footprint and connect existing or new branches effortlessly using cloud-delivered unified SASE gateways. This approach eliminates the planning, implementation, and cost challenges of traditional DIY methods. Advanced capabilities like active-active links, sub-second failover, and inbound QoS ensure high-performance connectivity and resiliency, optimizing traffic and preventing network congestion.

Netskope also offers extensive visibility and control by discovering, managing, and prioritizing over 80,000 cloud applications. This eliminates shadow IT and enhances network efficiency. The scalable, multi-tenant, cloud-delivered unified SASE gateways are managed as a service, providing robust data redundancy and disaster recovery, ensuring reliability and high-performance cloud on-ramps from branches to all SaaS and UCaaS services.

Embrace the future of connectivity with Netskope's cloud-delivered unified SASE gateways, deployed globally across the NewEdge Network – Netskope One Network.



Interested in learning more?

[Request a demo](#)

Netskope, a global SASE leader, uses zero trust principles and AI/ML innovations to protect data and defend against cyber threats, optimizing both security and performance without compromise. Thousands of customers trust the Netskope One platform and its powerful NewEdge network to reduce risk and gain unrivaled visibility into any cloud, web, and private application activity. Learn more at [netskope.com](https://www.netskope.com).