Netskope One SD-WAN

Secure, reliable, optimized connectivity for every remote user, device, site, and cloud

Enterprise perimeter is dissolving with users and devices located everywhere and applications are highly distributed across hybrid and multi-cloud environments. Legacy SD-WAN solutions fail to meet the modern enterprise's need to support a secure, high-quality experience—from any user, device, and sites to any applications located anywhere.

Why is Netskope the best choice?

Power of One: One SD-WAN, powered by Netskope One SASE, eliminates multiple point products with One Platform, One Software, One Policy and delivers uniform security and optimized connectivity for the widest range of hybrid work needs: Remote Users, Branch Offices, Micro Branch, Wireless WAN, IoT, and Multi-cloud Environments. It also simplifies the steering of traffic to the Netskope One SSE and NewEdge network, so customers can more rapidly take advantage of the smart, data-centric, and high-performance security services of Netskope One SSE.

Industry's First Converged, Single-vendor SASE Offering

- Ensure high performance and optimization for critical applications with Netskope Cloud Exchange—a context-driven engine that understands users, apps, devices, and risks and enables adaptive policies.

- With One-Click, insert Netskope One SSE services like NG-SWG, DLP, Private Access, FWaaS, and more or insert on-premises security services like Firewall and IPS/IDS for east-west traffic.

- Protect all branch devices with integrated device intelligence in the unified SASE gateway, enabling advanced classification, context-based insights, dynamic risk assessments, and flexible enforcement through both on-premises and cloud-delivered controls.

- Brings all users, devices, sites, and multi-cloud environments online in minutes with a centralized management. All-in-one unified SASE gateway offers integrated SD- WAN, security, routing, 4G/5G, and edge compute.

- Widest range of deployment options—software clients on laptops, cellular gateways, micro to large branches, DCs, and virtual gateways for multi-cloud networking.

- Deliver context-aware SD-WAN by integrating with Netskope Zero Trust Engine to support the industry's highest number of 85k+ SaaS applications for visibility, control. Build efficient operations by automatically prioritizing with Netskope Cloud Confidence Indexbased smart defaults

- Enables a distributed network of cloud-delivered unified SASE gateways within the NewEdge Cloud to provide a high-performance datapath from any branch, data center, or remote user to any cloud, SaaS, or UCaaS application.

Key Solutions and Capabilities

Secure SD-WAN
Redefine SD-WAN for cloud-first world, with AIdriven operations, Netskope Zero Trust contextaware smart engine, and integrated security that is not bolted-on.

SD-WAN for Endpoint
Industry's most innovative all-software client that brings SD-WAN capabilities to provide secure, optimized access to endpoint devices from anywhere.

Micro Branch
From home to a vehicle, deliver enterprise-grade Wi-Fi, secure and optimized access to all business resources, anywhere.

WAN as a Service
Deliver fast, reliable SaaS performance through cloud on-ramps and seamless mid-mile optimization to connect transcontinental branches to corporate resources.
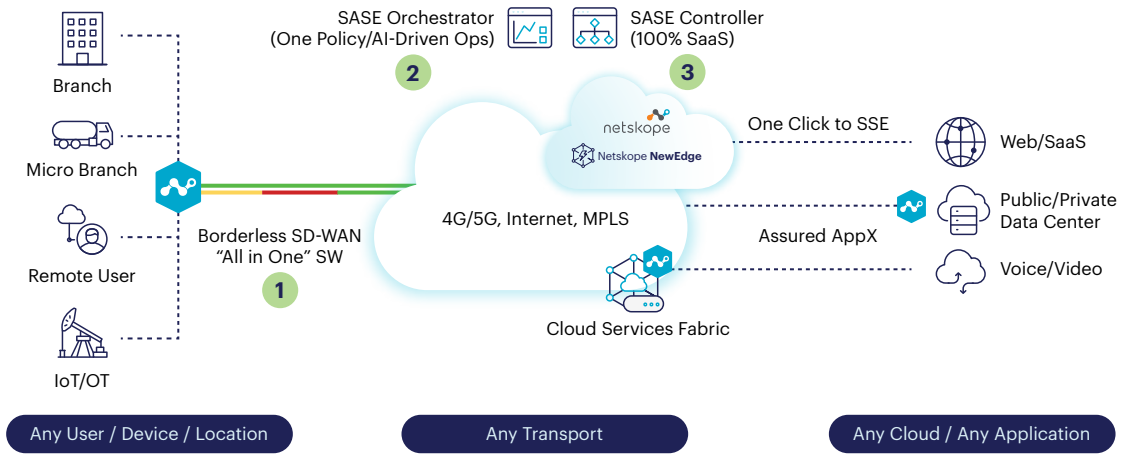
Multi-Cloud Networking
Automated cloud connections and operations, deep analytics and insights across your multi-cloud environment, and consistent cloud traffic flow using policy-aware steering.

IoT Device Intelligence
AI/ML-powered capabilities for discovery, classification, context derivation, and complete visibility, enabling dynamic risk assessment and multipoint access controls both on-premises and across the SSE cloud.. Provide remote support with inbound access to assets.

"Netskope One SD-WAN provides adaptive, identity-aware precision access for our medical workers to deliver care from the comfort of their homes, without compromising experience, all at a significantly lower cost to our business."

- Rick Lacy, Sr. Enterprise Network Engineer, Christus Health

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Ready for anything

CAPABILITIES	DESCRIPTION
AI-driven Operations	Simplify operations with automated troubleshooting, proactive support, and insights into traffic flows and policies. Minimize time to resolution with autonomous monitoring to detect anomalies and predict Service Provider SLA violations.
Application Assurance	Ensure performance across any transport for even the most demanding applications, leveraging network-condition-aware dynamic path selection, sub-second blackout/brownout protection, intent-driven remediation to protect concurrent degradation on all paths, e.g. FEC, TCP optimization.
Context Aware	Fast, reliable connectivity with Context Aware Adaptive QoE that leverages Netskope Zero Trust Engine, which decodes thousands of apps and cloud services to understand content and context, including application and application risks, device and device risks, and user and user risks. Supports industry's highest number of applications 85K+ that are prioritized automatically with out of the box smart QoS defaults based on Netskope CCI (Cloud Confidence Index) scores, eliminating manual work and resulting efficient operations
SASE Hybrid Security	Insert policy-aware security services in the cloud and on-premises. 360-degree data protection with One-Click to Netskope One SSE with services like NG-SWG, CASB, Private Access, FWaaS, and more in the cloud or insert on-premises Firewall and IPS/IDS for east-west traffic.
Wireless 4G/5G	Effortless, reliable connectivity anywhere with Netskope Wireless WAN that can be paired with any router or Netskope unified SASE gateway to optimize cellular signal strength. Global carrier interoperability is ideal for SOHO, branch offices, and IoT.
Cloud On-Ramp	Simplifies and automates how users connect to the cloud and multi-cloud environments. Steer users onto the best-performing path for any IaaS/SaaS for optimal application performance. Scale elastically to seamlessly interconnect VPCs and VNETs across any public and hybrid cloud.
Intelligent Access and Routing	With One-Click to Netskope One SSE, leverage the global coverage, extensive peering, and low-latency designs of the NewEdge infrastructure. 100% SaaS SDN controller with support for open-standard routing and cloud-scale key distribution.

Netskope One SD-WAN converges networking and security to deliver secure, reliable and optimized access to any user, for any application at any location. Following table summarizes so the Netskope One SD-WAN's key features and associated capabilities.

FEATURE	CAPABILITIES
Authentication, Authorization, and Accounting (AAA)	Authentication with Google/Microsoft accounts, Enterprise SSO with Okta/AD, multi-tier RBAC architecture, RADIUS, auditing
Availability	High availability for Netskope SASE Gateway, Netskope SASE Orchestrator, and Netskope SASE Controller, VRRP, Active-Active WAN links, Active-Active appliance HA without Layer 2 switch on WAN side
Configuration & Monitoring	REST API, GraphQL API, NetFlow, Syslog, SNMP, per-flow visibility, per-path visibility, transactions, per-overlay path SLA metrics, Application Response Time (ART) metrics, ML-based anomaly detection, device/user/application visibility, dashboard, PDF reports
Deployment Flexibility	Email-based activation eliminating pre-stage, zero-touch activation, template with variables, enterprise-wide business intent-based policies, simple one-click RMA, customized applications
Forwarding and QoS	Classification, prioritization, low-latency queuing, remarking, shaping, scheduling, policing, rate limiting (inbound/outbound), outer/inner DSCP tagging, inbound/outbound NAT/Port Address Translation (PAT), overlay NAT
Multitenancy	Multitier (4 tiers) multitenant Netskope SASE Orchestrator, Netskope SASE Controller, and multitenant cloud hubs for customers and partners
VPN Overlay	Public/private/hybrid transport, cloud and on-premises, multi-institutional VPN for site within a site, hub-spoke, full mesh, tag-based dynamic site to site
Routing	Supports industry-standard protocols such as eBGP/iBGP, OSPF, static, route filtering, route redistribution, segmentation/VRF, VRRP, BFD for BGP, application-aware routing
Network Services	IPv4, DNS, DHCP client, DHCP server, DHCP relay, PPPoE, Secure Shell (SSH), Secure Copy (SCP), 802.1X
VLAN Tagging	802.1Q, native VLAN
Security	AES 256/128, SHA1/SHA2, IKEv2, public key authentication for overlay, application/user identity aware stateful firewall, IPS/IDS, URL filtering, one-click secure on-ramp to SSE
Mobility	2.4 GHz/5 GHz 802.11a/b/g/n/ac/ax, 2x2 MIMO, WPA2-Enterprise, WPA2-Personal, 802.1X, LTE, Wi-Fi as WAN, SIM management, advanced metering, dynamic app QoE
Location Services	Geo-IP location
Remote Troubleshooting	Alerts, events, list active flows, console access from Netskope SASE Orchestrator portal
Multi-cloud	Cloud image available in all major public cloud providers (AWS, Azure, and GCP) and support native cloud infrastructure (e.g., AWS Transit Gateway, Azure Route Server, and GCP Cloud Router), automation via UI or Terraform
Port Security	Wi-Fi 802.1X with WPA2-Enterprise (EAP-MD5, EAP-TLS) and WPA2-Personal, 802.1X on both switched and route ports with Enterprise (EAP-MD5, EAP-TLS), MAC address-based access (local), MAC Address Bypass (MAB)

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Interested in learning more? **Request a demo**