Netskope Next Gen SASE Branch

Netskope Next Gen SASE Branch, enables the industry's most complete SASE solution, converging context-aware SASE fabric, zero trust hybrid security, and SkopeAI-powered Cloud Orchestrator with a single cloud delivered service for the borderless enterprise. At the core of Netskope SASE is a single pane of glass orchestrator, a global cloud network of data centers spanning 71+ regions, and a thin branch that optimizes and secures traffic from all locations and users to cloud and on-prem locations.

Quick Glance

- **Context-Aware SASE Fabric** ensures Cloud Confidence Index (CCI)-based SD-WAN optimization for 75k apps, offering VRF-aware segmentation across sites, NewEdge connections for cloud on-ramp, and Global WAN services.

- **Zero Trust Hybrid Security** provides cloud-based SWG, CASB, and more, alongside on-premises NGFW, IPS/IDS, and IoT security. ZTNA Next combines SD-WAN and ZTNA, replacing VPN with one agent.

- **SkopeAI-Powered Cloud Orchestrator** delivers advanced features such as WAN Insights with integrated DEM, zero trust device access, and container-based service deployment. The unified SASE console converges SD-WAN and SSE for zero touch provisioning.

The Challenge

Legacy SD-WAN and existing point solutions struggle to meet the needs of today's borderless enterprise. Challenges include:

Poor User Experience: Legacy SD-WAN can't detect tens of thousands of cloud apps and lacks distributed cloud on-ramp service, resulting in poor user experience. Thick and costly SD-WAN appliances for remote users strain IT budgets.

Bolt-on Security: Disjointed point products like on-premises IPS, Application Firewall, IoT security, or cloud security services like CASB, SWG, and more increase cost and complexity and create inconsistent security between branch and remote users.

Manual IT Operations: Legacy solutions fail to automate laborious tasks, burdening teams with management inefficiencies. Current monitoring tools lack hop-by-hop WAN insights or require additional appliances, hindering digital experience management.

The Solution

Netskope Next Gen SASE Branch enables the industry's most complete SASE solution, concurrently cutting costs and complexity while elevating network performance, security, and operational efficiency. It ensures exceptional user experiences at branches and remote locations with the same SD-WAN optimization and security capabilities, eliminating complexities of traditional branch architectures and management appliances. With unified SASE management, driven by SkopeAI-powered Cloud Orchestrator and digital experience management (DEM), operations are streamlined and application performance is optimized. It integrates on-premises and cloud security, providing end-to-end protection across the connected enterprise network.

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Ready for anything

The Netskope SASE solution is composed of three innovative layers that are summarized and explained below.

- Context-aware SASE Fabric
- Zero Trust Hybrid Security
- SkopeAI-powered Cloud Orchestrator

Context-Aware SASE Fabric

Context-aware AppQoE AppQoE (Application Quality of Experience): Context-aware AppQoE for Over 75k+ Apps

Deliver context-aware SD-WAN by integrating with Netskope Zero Trust Engine to support the industry's highest number of 75k SaaS applications for visibility and control. Build efficient operations by automatically prioritizing with Netskope Cloud Confidence Index-based smart defaults. Provide real-time link monitoring, measuring latency, jitter, and packet loss for enhanced application performance. Support uninterrupted operations with dynamic path selection and sub-second failover blackouts and brownouts protection. Implement intent-driven remediation to protect against concurrent degradation on all available paths, leveraging technologies like Forward Error Correction (FEC) and TCP optimization.

Advanced Routing: 100% SaaS Controller and Advanced Routing

Harness a 100% SaaS-based SDN controller with cloud-scale key distribution to dynamically expand your network and eliminate complexity associated with DIY controllers. It offers support for industry-standard protocols like eBGP/iBGP, OSPF, static, and advanced routing capabilities, including route filtering, routing automation to ensure symmetric routing, and redistribution. True separation of control plane and data planes to allow customers to build a highly modular and resilient architecture.

Segmentation: Secure End-to-End Segmentation at Scale

Serves various use cases including threat isolation, compliance, merger and acquisition, and more. Gain network control and visibility by extending VRF-aware segmentation across branches, data centers, and multiple cloud environments seamlessly. Apply network-specific or segment-specific policies to all devices and networks consistently, overcoming the limitations of traditional VRF-aware approaches that are more complex and non-scalable. Support versatile segment-aware topologies like full mesh, hub-spoke, and dynamic B2B for diverse business needs.

Multi-cloud Networking: Secure Multi-cloud Networking and Access

Connect major clouds (AWS, Azure, GCP) using cloud-native application networking constructs. Enable automated, policy-based steering in multi-cloud environments. Secure clouds and apps with one click to Netskope's intelligent SSE.

Cloud On-Ramp: Enhanced Application Experience with Cloud WAN

Netskope Borderless SD-WAN incorporates a distributed network of service 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.

Global WAN: Optimized Global WAN Connectivity

Establish low-latency, highly optimized global WAN connections for trans-continental branches to headquarters across different continents, utilizing a global backbone to ensure exceptional reliability and a superior worldwide user experience.

Exceptional user experience with CCI-based SD-WAN optimization for over 75k apps and SD-WAN in NewEdge. Endpoint SD-WAN extends optimized access to remote users for productivity and cost savings.

Zero Trust Hybrid Security

Application Firewall/FWaaS: Consistent Firewall Policy On-premises and in the Cloud

NGFW services on-premises and in the cloud secures both east-west and outbound traffic across all ports and protocols for users and offices. Policy controls include applications, port/protocol, group-IDs, fully qualified domains, and wildcards as destinations.

Device Intelligence: SD-WAN with Integrated Device Intelligence

Discover and autonomously categorize both managed and unmanaged IP-connected devices within the network. Leverage AI/ML to detect breaches and dynamically microsegment those devices to isolate and prevent lateral movement of threats.

Intrusion Detection and Prevention: Get Intrusion Detection and Protection Right

Suricata, in collaboration with Netskope Threat Labs, introduces real-time intrusion intelligence boasting an impressive database of over 30,000 threat signatures. These new signatures are automatically integrated into the Netskope SASE Gateway, enhancing our commitment to top-tier security.

Secure Web Gateway: Protect Users from Web-based Attacks Everywhere with SWG

Reduce risks by inspecting and controlling web traffic utilizing cloud-native capabilities. Secure your branch offices and remote users from malware, phishing, and other web-borne threats with inline visibility and URL filtering with SSL decryption.

Cloud Access Security Broker: Monitor and Regulate Access to Cloud Apps with CASB

Confidently adopt cloud applications and services—without sacrificing security. Manage the unintentional or unapproved movement of sensitive data between cloud app instances and prevent sensitive data from being exfiltrated from your environment.

Seamlessly integrate top-tier on-premises and cloud-delivered security services, slashing risk by 85%, while consolidating point products and offering complete and consistent protection everywhere.

ZTNA Next: Build a Modern Remote Access Solution with ZTNA Next

Converge SD-WAN capabilities with ZTNA in a single client to provide secure and optimized access to all private and public applications including business-critical services like voice/video to boost productivity.

Skope AI-Powered Cloud Orchestrator

ML Insights: ML-powered Insights

Autonomous monitoring to collect Service Level Experience (SLE) data from users and branch offices to detect anomalies and forecast SLA violations. Use enterprise-wide WAN predictive analytics to identify and resolve policy violations.

Zero Touch Provisioning: Automate Network Operations with Zero Touch Provisioning

Simplify branch and remote user deployments with a unified cloud console. Simply connect SASE Gateway or Endpoint SD-WAN to your network and enable zero-touch provisioning to bring your new sites, users, and cloud environment up in minutes.

SASE Policy: Unified Management and Policy for SD-WAN and SSE

Empowers IT teams to unify SD-WAN and SSE management with one platform, eliminating the need for multiple products and policy inconsistencies. Ensure consistent zero trust security and optimization across all branch offices, users, and cloud.

ZT Device Access: Zero Trust Device Access

Deliver proactive support through zero trust secure access to remote devices inside the branch, including phones, ATMs, and servers via HTTP, RDP, SSH, and VNC, speeding up incident resolution.

Partner Containerized Apps: Extensibility and Open Integrations with Container Services

One-click deployment of container services from a catalog that includes Netskope services like IoT detection and Proactive DEM, as well as partner containers such as Cisco Thousand Eyes, Microsoft Azure IoT Edge, and custom containers.

Proactive DEM: WAN Insights with Built-in Digital Experience Management

Provides visibility into end-to-end performance monitoring with hop-by-hop analysis across Global WAN providers and application performance monitoring. IT teams can accurately identify the root cause of issues so they can remediate them to optimize application performance.

Reduce the volume of support tickets and mean time to resolution significantly with per-user SLE metrics, WAN anomaly detection, and hop-by-hop path visibility for end-to-end monitoring.

"The era of the hyper-distributed enterprise—where workers can be anywhere and applications are everywhere—is causing organizations across the globe to transform their network and security strategies," said Brandon Butler, IDC Research Manager, Enterprise Networks. "Key capabilities for next-generation architectures include deeply integrated networking and context-aware security, cloud-based management, and advanced automation enhanced by AI/ML. Netskope's Next Gen SASE Branch exemplifies the company's approach to SASE by combining the important elements of Borderless SD-WAN via NewEdge with a portfolio of cloud-native and context-aware security capabilities."
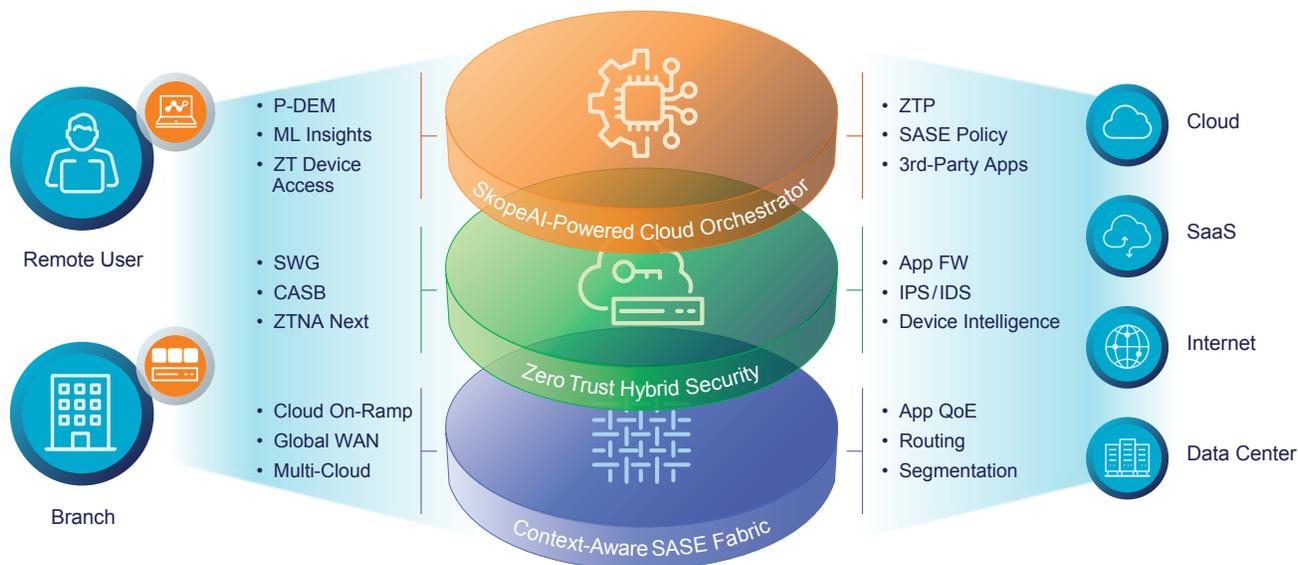
BENEFITS	DESCRIPTION
Exceptional User Experience	Exceptional user experience with CCI-based SD-WAN optimization for over 75k apps and SD-WAN in NewEdge. Endpoint SD-WAN extends optimized access to remote users for productivity and cost savings.
Better Security Outcomes	Seamlessly integrate top-tier on-premises and cloud-delivered security services, slashing risk by 85%, while consolidating point products and offering complete and consistent protection everywhere.
Streamlined Operations	Reduce the volume of support tickets and mean time to resolution significantly with per-user SLE metrics, WAN anomaly detection, and hop-by-hop path visibility for end-to-end monitoring.

Conclusion

Netskope's Next Gen SASE Branch solution delivers exceptional user experiences at branches and remote locations with the same SD-WAN optimization and security everywhere. Reduce the complexity of traditional branch architectures and stacks of management appliances through unified SASE management, driven by SkopeAI-powered Cloud Orchestrator and proactive digital experience management (P-DEM) to streamline operations and ensure top-notch application performance. Realize better security outcomes through integrated on-premises and cloud security, providing end-to-end protection across the connected enterprise network. Power your enterprise networking with Netskope Next Gen SASE Branch that is enabled by the industry's most complete SASE solution, reducing cost and complexity while enhancing network performance, security, and operational efficiency, ensuring business growth through digital innovations.

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Interested in learning more?   Request a demo