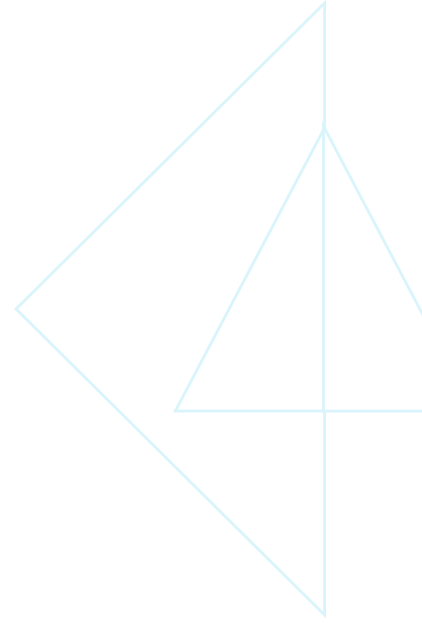

Prisma SASE

The Industry's Most Complete Single
Vendor SASE Solution



Palo Alto Networks Prisma SASE is the industry's most complete single vendor secure access service edge (SASE) solution, delivering:

- **Superior ZTNA 2.0 security:** Consistently protect the hybrid workforce with the superior, AI-powered security of ZTNA 2.0.
- **Next-Generation SD-WAN:** The industry's first Next-Generation SD-WAN solution that delivers branch transformation with an exceptional user experience while simplifying operations with improved security outcomes, providing an ROI of up to 243%.
- **Exceptional user experience:** Integrated Autonomous Digital Experience Management (ADEM) empowers IT to detect, predict, and resolve issues with applications, networks, and the security posture to proactively deliver great user experiences.

Key Drivers for SASE Adoption

Three fundamental shifts are driving the need for network transformation in the enterprise: hybrid work, cloud and digital transformation, and branch transformation:

- Supporting the hybrid workforce has become the new normal. Organizations are planning to support a model where the majority of employees can work fluidly between corporate offices, branch offices, home offices, and on the road.
- Cloud and digital initiatives are driving organizations to invest more in SaaS and other public cloud services. Cloud adoption enables companies to be more agile, efficient, and flexible, indicative of why 92% of all enterprises are now adopting a multicloud strategy.¹
- The branch is back, paving the way to accelerated branch transformation initiatives that support a hybrid workforce and the rapid evolution of applications moving toward the cloud. With 62% of employees preferring hybrid work² and significant adoption of collaboration tools like UCaaS for productivity, branch transformation is well underway and is fueling the migration to a single vendor SASE solution.

Mix-and-Match SASE Solution Challenges

Organizations transitioning to a SASE architecture have two options: multivendor or mix-and-match SASE or a unified, single vendor approach. Taking a multivendor approach to SASE results in the following challenges:

- Compromised security posture with disparate policies and manual processes.
- Loss of SD-WAN functionality with legacy solutions that lack application awareness, direct-to-app connectivity, and end-to-end performance visibility, resulting in operational complexity and adverse effects on security.
- Increased cost and complexity resulting from procuring, deploying, and managing multiple solutions.
- Siloed processes and limited visibility and collaboration across security and networking teams.

Why Single Vendor SASE Is the Right Approach

As SASE adoption continues to accelerate with the adoption of hybrid work and cloud at scale, organizations need to think about the right approach that will allow them to scale their security and networking infrastructure effectively over time.

At Palo Alto Networks, we strongly believe an integrated platform approach to SASE is the right choice for customers. Our solution, Prisma SASE, offers:

- Better security outcomes with unified policy and context sharing.
- Reduced operational complexity through unified management.
- The ability to leverage AI and ML with a unified data lake.

1. 2021 State of Cloud Report, Flexera, March 9, 2021.

2. Bob Laliberte, Flexible SD-WAN Consumption Model, ESG, April 2022.

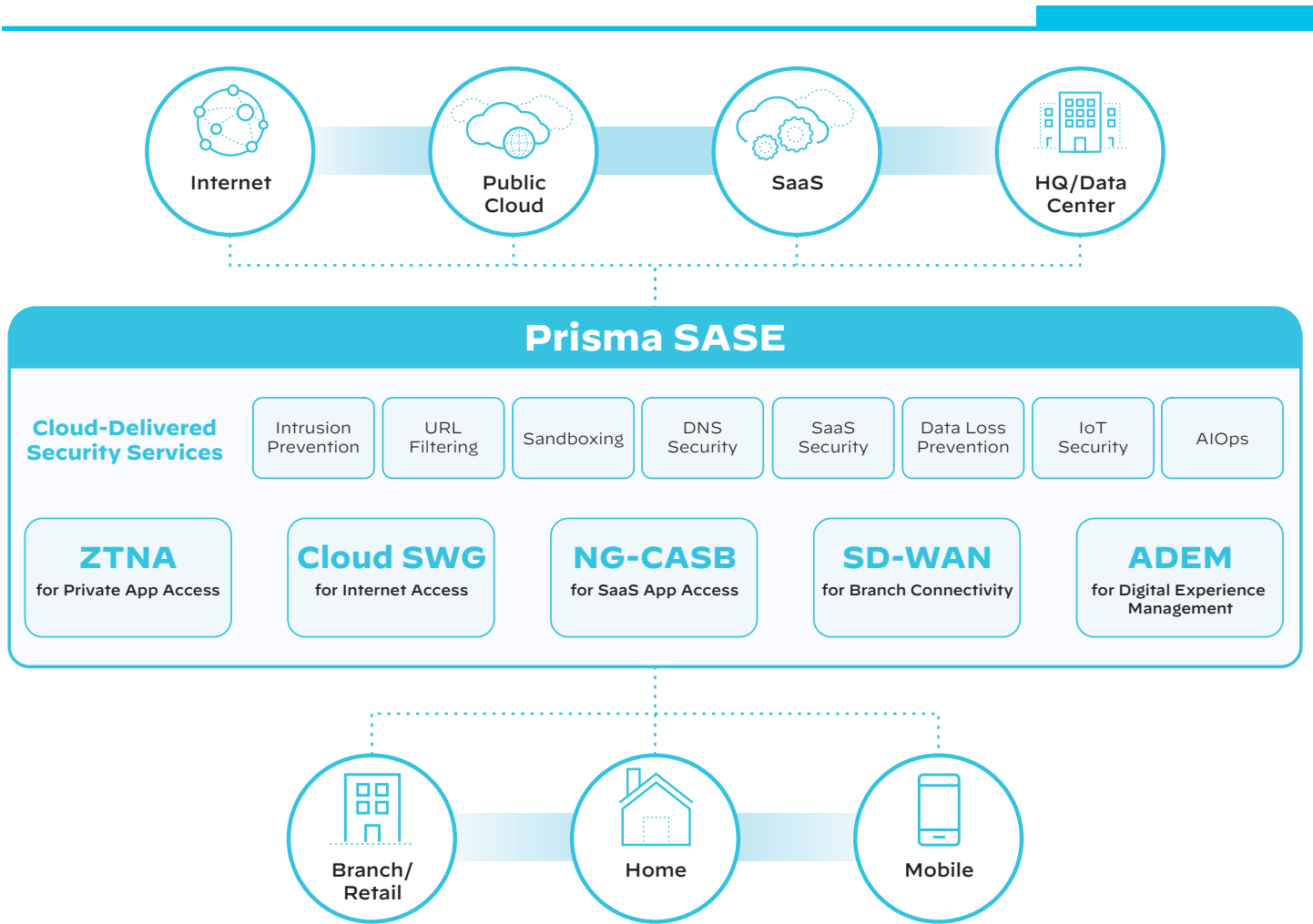


Figure 1: Prisma SASE architecture

Prisma SASE eliminates the limitations of mix-and-match SASE and uniquely delivers ZTNA 2.0, the best user experience, and automation of operations:

- Prisma SASE offers a unified console that allows administrators to manage Prisma Access and Prisma SD-WAN from the same interface. In addition to leveraging the same policy constructs, administrators can now gain visibility into their threat landscape, security alerts, and critical network events within the same management console.
- Leverage a single unified data lake for all data and metrics from Prisma SD-WAN (networking), Prisma Access (security), and ADEM (user experience) that allows it to seamlessly correlate data and cross reference user and application identification when providing the WAN and security insights. AIOps automation spans all of SASE.
- Prisma SD-WAN's unique API-based CloudBlades architecture offers simplified and fully automated integration with Prisma Access with zero service disruption. Native integration ensures that the full mesh of WAN connectivity is based on L7-L3 metrics.
- Prisma SASE enables digital experience management for Prisma Access and Prisma SD-WAN to deliver always-on visibility for applications, users, and devices, providing proactive isolation and the troubleshooting and resolution of issues, resulting in reduced operational complexity and costs.
- Consistent security framework using App-ID and User-ID, resulting in ZTNA 2.0 policy enforcement across the fabric while delivering an exceptional end-user experience. The SASE fabric is a unified network and security fabric with dynamic enforcement of all applications and user policies.

Prisma SASE Features

Prisma SASE delivers a comprehensive list of security, networking, and digital experience services:

- **Advanced WildFire:** Ensure files are safe by automatically preventing known, unknown, and highly evasive malware 60x faster with the industry's largest threat intelligence and malware prevention engine.
- **AIOps for SASE:** Powerful, natively integrated AIOps capabilities prevent outages and improve security posture with anomaly detection and forecasting, automated troubleshooting, change management modeling, security policy analysis, and more.
- **Autonomous Digital Experience Management (ADEM):** Provides segment-wise insights across the entire service delivery path with real and synthetic traffic analysis to drive proactive remediation of digital experience problems.
- **Cloud Access Security Broker:** Complete visibility and control over all SaaS consumption across the enterprise for all users, apps, and locations. Enables access policy, data security, and threat prevention through a combination of both inline and API-based SaaS controls.
- **CloudBlades:** Enables the seamless integration of branch services into the SASE fabric without needing to update branch appliances or controllers, thus eliminating service disruptions and complexity. This unique, cloud-based API architecture automates deployments of third-party services, enabling organizations to simplify network operations and multicloud connectivity and expedite deployments.
- **Cloud secure web gateway (SWG):** Secures against web-based threats using static analysis and machine learning while simplifying the onboarding experience for customers migrating from legacy proxy-based solutions to SASE.
- **Data Loss Prevention:** Comprehensive data protection that keeps sensitive data safe by classifying and protecting it while at rest and in motion across SaaS apps, networks, and public clouds.
- **DNS Security:** Comprehensive ML-based protection from dozens of attacks and abuse of the DNS protocol that attackers use to covertly control malware and exfiltrate data.
- **Explicit proxy:** Prisma SASE offers flexible connectivity options, including support for explicit proxy connection methods. With Prisma SASE explicit proxy, customers can easily migrate from legacy proxy-based solutions without the need for network architecture changes, facilitating an easy transition to a more secure solution that protects all apps, ports, and protocols.
- **Firewall as a service (FWaaS):** Protects remote locations with Palo Alto Networks Next-Generation Firewall security, delivered as a service from the cloud.
- **High availability (HA):** Prisma SD-WAN ION devices feature the industry's only HA deployment model that can survive a device failure and still preserve 100% of WAN capacity at a branch site.
- **Integrated 5G:** Lightweight appliance portfolio to ensure optimal uptime with 5G leveraged as active and LTE as backup WAN transport for business-critical applications.
- **IoT Security:** Combines machine learning, risk assessment, inline prevention, policy recommendations, and automated policy enforcement to secure IoT devices without the need to deploy costly and difficult-to-manage sensors.
- **SaaS Security Posture Management (SSPM):** Ensures enterprise SaaS apps are securely configured and hardened against attack by continuously evaluating SaaS configurations against security best practices that align thousands of app-specific settings and features to a security framework that an InfoSec operator can easily understand and manage.
- **SD-branch:** Integrated switching with universal Power over Ethernet (uPoE) on SD-WAN appliances powers end devices like IP phones and cameras, point-of-sale systems, and wireless access points without additional switch appliances or power sources.
- **SD-WAN:** Ensure application availability based on real-time application performance SLAs and visibility, simplify tedious network operations, and natively apply best-in-class cloud-delivered security with Prisma Access integration.
- **SD-WAN Bandwidth On-Demand:** Allocate bandwidth seamlessly across branches based on consumption from an aggregate pool to improve application performance and bandwidth availability.
- **Threat Prevention:** Blocks exploits, malware, and command-and-control traffic using industry-first inline deep learning that can stop unknown command-and-control and zero-day exploits.
- **VPN:** IPsec, SSL, and clientless VPN provide options for connecting users and networks to the secure access service edge.
- **Zero Trust Network Access (ZTNA) 2.0:** Combines fine-grained, least-privileged access with behavior-based continuous trust verification and deep, ongoing security inspection and enterprise DLP to consistently protect all users, devices, apps, and data everywhere.

Table 1: Prisma Access Details, Features, and Specifications

	Prisma Access for Networks	Prisma Access for Users	Prisma Access for Clean Pipe
Locations	100+ in 77 countries	• 100+ in 77 countries (GlobalProtect)	17 locations
Connection Type	IPsec tunnel	• GlobalProtect app IPsec/SSL • GlobalProtect Clientless VPN • Explicit proxy	Peering via Partner Interconnect (VLAN attachment per tenant)
GlobalProtect App Platform Support	n/a	<ul style="list-style-type: none"> • Apple iOS • Apple macOS • Google Android • Android App for Chromebook • CentOS Linux • Red Hat Enterprise Linux • Ubuntu • Windows 10 and UWP 	n/a
		IoT Platforms <ul style="list-style-type: none"> • Raspberry Pi OS • Windows IoT Enterprise • Ubuntu • Google Android 	
Service-Level Agreements			
Uptime Availability	99.999% per calendar month		
Connectivity	99.99% for 10 ms over a 1-hour period		

For more details, view the [Prisma Access datasheet](#).

Table 2: Hardware Models

	ION 1000	ION 1200	ION 1200-S	ION 2000	ION 3000	ION 3200	ION 5200	ION 9000	ION 9200
Use Case	Small remote office	Enterprise small branch	Enterprise small branch	Enterprise small branch	Enterprise small branch, data center	Enterprise small branch, data center	Enterprise large branch, data center	Multigigabit remote office data center and large campus	Multigigabit remote office data center and large campus
WAN/LAN/Internet Ports	10/100/1000 RJ45 (4)	10/100/1000 RJ45 (4)	1 GE RJ45 (6), 1 GE RJ-45/SFP Combo ports (2), 1 GE RJ-45 bypass ports (2), POE++ ports (4)	10/100/1000 RJ45 (5)	10/100/1000 RJ45 (up to 12)	1 GE RJ45 (6), 1 GE RJ-45/SFP Combo ports(2), 1 GE RJ-45 bypass ports (2), POE++ ports(4)	10 GE SFP+ (4) 10/100/1000 RJ45 (11) MGIG RJ45 (4) 1 GE RJ-45 bypass ports (4), POE++ ports (4)	10 GE SFP+ (8) 10/100/1000 RJ45 (8)	10 GE SFP+ (10) 10/100/1000 RJ45 (11) MGIG RJ45 (4) 1 GE RJ-45 bypass ports (8), POE++ ports (4)
Cellular Support	None	4G LTE/5G	4G LTE/5G	None	None	None	None	None	None
Throughput* (Encrypted 1400 byte packets)	250 Mbps	700 Mbps	700 Mbps	700 Mbps	1.5 Gbps (DC) 1 Gbps (Branch)	1.5 Gbps (DC) 1 Gbps (Branch)	4 Gbps (DC) 2 Gbps (Branch)	15 Gbps (DC) 8 Gbps (Branch)	15 Gbps (DC) 8 Gbps (Branch)
Throughput* (Encrypted 600 byte packets)	100 Mbps	250 Mbps	250 Mbps	250 Mbps	600 Mbps (DC) 500 Mbps (Branch)	600 Mbps (DC) 500 Mbps (Branch)	1.5 Gbps (DC) 1 Gbps (Branch)	6 Gbps (DC) 3 Gbps (Branch)	6 Gbps (DC) 3 Gbps (Branch)

* Throughput measurements are based on Prisma SD-WAN 6.0.2 release as of August 31, 2022. These numbers are subject to change.

For more details, view the [Prisma SD-WAN datasheet](#).



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