

Prisma SD-WAN

At a Glance

The Industry's Only Complete Secure Access Service Edge Solution

It is clear that three fundamental shifts are driving network and security transformation in the enterprise: hybrid work, cloud and digital transformation, and branch transformation. As a result, we believe that a differentiated approach is needed: secure access service edge (SASE).

SASE converges best-of-breed networking and security into a single solution purpose-built for agile, cloud-enabled organizations. Prisma® SASE is the industry's only complete SASE solution, converging network security, SD-WAN, and Autonomous Digital Experience Management (ADEM) in the cloud. Only Prisma SASE uniquely and consistently delivers Cloud-Delivered Security Services to secure all apps used by your hybrid workforce, regardless of whether users are remote, mobile, or working from a branch office. And the industry's only SASE-native DEM helps ensure an exceptional user experience for all users. With ADEM on Prisma SASE, your employees will be happier and more productive, regardless of where they work.

The Era of Network Transformation

Organizations worldwide are undergoing a network transformation. Cloud migration, the need for infrastructure automation, and the availability of cost-effective and high-performance broadband are all fueling this change. With these three fundamental shifts, traditional wide area network (WAN) architectures that rely on multiprotocol label switching (MPLS) networks to connect branch offices to data centers have been rendered ineffective. This has seen the rise of the software-defined wide area network (SD-WAN), which promises to enable organizations to seamlessly embrace the benefits of network transformation and remove any limitations from legacy WAN architectures.

Legacy SD-WAN Solutions Fall Short

Although SD-WAN offers numerous benefits for organizations, legacy SD-WAN approaches bring many challenges. For instance, many rely on force-fitting the traditional packet-based routing model into the cloud-ready enterprise. While this approach technically works, it's far from optimal and cannot provide the return on investment (ROI) that SD-WAN has to offer. Legacy SD-WAN solutions lack scalability and require constant manual intervention for day-two operations. This creates substantial administrative overhead for networking and operation teams, which can

increase complexity and costs. In addition, legacy solutions require organizations to "bolt on" essential branch services, such as security and visibility. With multiple point products to deploy and manage, organizations struggle to maintain network and security operations while trying to keep costs low. With Layer 3 packet-based policies, organizations lack the ability to define application-based policies, resulting in limited application visibility and making it difficult for networking teams to deliver on application SLAs.

With all this in mind, it's easy to see why a new generation of SD-WAN is needed.

The Next Generation of SD-WAN from Palo Alto Networks

Palo Alto Networks takes a fundamentally different approach with Prisma SD-WAN, the industry's first and only Next-Generation SD-WAN solution. Only Palo Alto Networks can provide SD-WAN with an ROI of up to 243%, simplify network operations by using machine learning to eliminate up to 99% of network trouble tickets, and improve application performance by up to 10x.¹

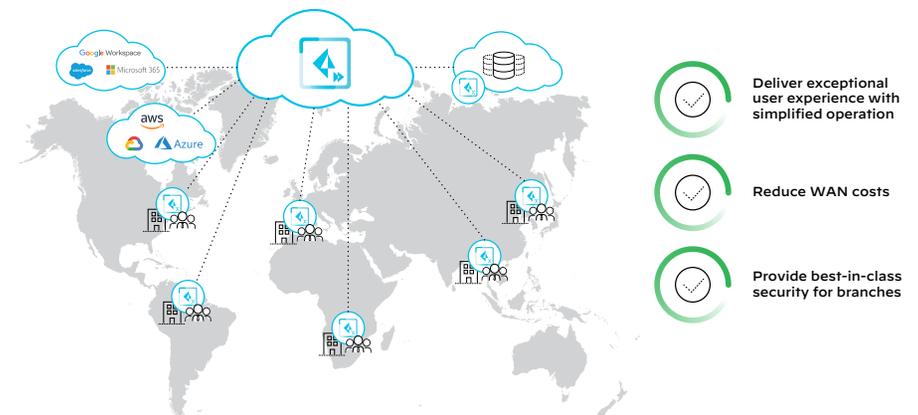


Figure 1: The industry's most flexible SASE model

1. The Total Economic Impact™ of Palo Alto Networks for Network Security and SD-WAN, Forrester Consulting, January 2021, <https://start.paloaltonetworks.com/2021-forrester-tei-report-network-security.html>.

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Highlights

Prisma SD-WAN provides three key architectural benefits:

- **Autonomous:** Automate tedious network operations using artificial intelligence for IT operations (AIOps) and machine learning methodologies, reducing network trouble tickets by 99%.
- **Integrated:** The most complete SASE solution that has security and SD-WAN natively integrated. Additionally, with the CloudBlades API platform, you can easily integrate additional services like UCaaS, multicloud, ChatOps, and operations applications to your branches.
- **Best-in-class security:** Natively apply best-in-class security to your branches with our proven Cloud-Delivered Security Services that leverage ML-powered threat prevention to instantly stop 95% of web-based threats inline and significantly reduce the risk of a data breach.

Features

Prisma SD-WAN provides numerous key features:

Security: Prisma SD-WAN seamlessly integrates with our cloud-delivered security platform, Prisma Access, delivering the industry's most comprehensive SASE solution. With Prisma Access combined with Prisma SD-WAN, you'll be able to consolidate ZTNA, Cloud SWG, CASB, FWaaS, and SD-WAN onto a single integrated service, reducing network and security complexity while increasing organizational agility. Additionally, Prisma SD-WAN ION devices include an application-based, zone-based firewall (ZBFW), ensuring compliance across different network circuits and interfaces.

Integrated 5G: Prisma SD-WAN is expanding its lightweight appliance portfolio to include the ION 1200 with integrated 5G. With this new appliance, organizations can ensure optimal uptime with 5G leveraged as a backup WAN transport for business-critical applications. In addition, businesses with ATMs and kiosks that require cellular as their primary WAN can simply deploy this appliance and ensure rapid deployment without the hassle of adding additional appliances to leverage 5G.

CloudBlades: The Prisma CloudBlades platform delivers comprehensive branch services—such as security, multicloud, and collaboration tools—without needing to update your branch appliance or controller, thus eliminating service disruptions. This unique cloud-based API architecture automates deployments of third-party entities, enabling organizations to simplify network operations and multicloud connectivity and expedite branch deployments.

AIOps: Enhanced AIOps capabilities provide rich telemetry of network insights, allowing admins to perform granular trend analysis and create unique network conditions that can automate tedious manual tasks. Admins can view VPNs, circuits, and site health metrics to discover long-term trends and issues. All of this insightful data and analysis can be viewed on Prisma SD-WAN's new site summary dashboards, allowing admins to easily consume and correlate data to reduce time to resolution.

ADEM: Palo Alto Networks Autonomous Digital Experience Management (ADEM) manages the digital experience for mobile and branch users. You can leverage SASE-native DEM to gain end-to-end visibility and segment-wise insights across the entire SASE service delivery path, regardless of where their users are located. ADEM with Prisma SD-WAN provides observability in the cloud and across multiple WAN paths for branch and remote users. In addition, you can leverage real and synthetic traffic analysis for both user endpoints and IoT devices to pinpoint issues easily.

Clarity: Prisma SD-WAN Clarity provides unparalleled, actionable insights into the health and performance of your WAN links and application to help with network planning, problem resolution, and analytics. With instant visibility into application performance, you can better understand your network health and usage to determine more effective policy decisions on your network.

Bandwidth On-Demand: Palo Alto Networks is revolutionizing how organizations can consume SD-WAN by becoming the first vendor in the industry to offer SD-WAN Bandwidth On-Demand. This game-changing, flexible, subscription-based model for Prisma SD-WAN enables customers to reduce WAN costs by up to 45%, enabling them to purchase bandwidth on a per Mbps basis and effortlessly allocate bandwidth from an aggregated pool. In addition, customers can now easily activate Prisma SD-WAN as a simple module to Prisma Access to expedite their journey to SASE. Existing a-la-carte consumption models such as those with Prisma SD-WAN and Prisma SASE bundles are also supported to ensure the ultimate flexibility for organizations.

Learn more at paloaltonetworks.com/prisma/sd-wan.