



Benefits

- **Simplicity:** Automated onboarding and provisioning, with zero-touch tunnel establishment between CloudGenix SD-WAN and Prisma Access.
- **Visibility and control:** Support for all applications and protocols, including granular visibility into application performance as well as all traffic tunneled to Prisma Access.
- **Lower TCO:** Networking and security capabilities in the cloud, simplifying management and minimizing hardware footprint to reduce opex and capex.

Better Together: Prisma Access and CloudGenix SD-WAN

Enabling the secure, cloud-delivered branch

Three fundamental transformations in the past decade have changed the way applications are deployed and managed: the adoption of cloud and online collaboration; the automation of infrastructure to keep pace with agile business demands; and the availability of cost-effective, high-performance wide area network (WAN) connectivity, such as broadband and 4G/5G.

While software-defined WAN (SD-WAN) promises to deliver a transformative approach to edge networking, “Gen-1” approaches to SD-WAN have relied on taking the legacy model of packet routing and forcing it to fit the cloud-ready enterprise. This offers incremental improvement in the way you create virtual private networks (VPNs) over broadband connections, but it falls short of delivering on the complete promise of SD-WAN. Manual operations create substantial administrative overhead for networking and operations teams. Additionally, delivery of essential branch services—such as security—are often bolted on and inconsistent across branches, adding cost and complexity to an organization.

Best-in-Class SD-WAN with Best-in-Class Cloud-Delivered Security

Palo Alto Networks brings together CloudGenix® SD-WAN and Prisma™ Access to deliver hybrid applications to branch offices and retail locations over any network while providing consistent, cloud-delivered security.



Figure 1: Prisma Access and CloudGenix SD-WAN

CloudGenix SD-WAN and Prisma Access enable organizations to deploy consistent security to all remote locations. Prisma Access seamlessly, intelligently extends the security perimeter from any branch, anywhere in the world. CloudGenix SD-WAN is designed to select the best application performance while ensuring your security envelope and policy are maintained. Based on self-learning models and API-based algorithms, CloudGenix SD-WAN ensures application intelligence across the entire system, improving security and the application experience.

The solution addresses three key use cases.

1. Secure Hybrid WAN

Carrier- and transport-agnostic, the secure application-defined fabric of CloudGenix SD-WAN eliminates the need for routing protocols and enables hybrid environments with multiprotocol label switching (MPLS), broadband, and even

LTE. An application can be allowed on multiple active paths or have backup paths as a failover option. Using the SD-WAN policy, active and backup paths can be chosen on a per-application basis.

CloudGenix SD-WAN makes intelligent path selections in real time, ensuring that flows traverse symmetrical paths, both to and from applications, while dynamically selecting the best-performing path. Security enforcement is managed at the branch by the CloudGenix SD-WAN appliance, which can send select traffic to Prisma Access for additional inspection.

2. Direct Cloud Access for SaaS and Cloud Hosting Initiatives

For the very first time, enterprises can enable per-application direct-to-cloud policies to deliver the cloud securely, with high performance, to the branch with additional security via Prisma Access. Customers can deploy public cloud, software and unified communications as a service (SaaS and UCaaS), and data center applications in a simple manner. In-depth analytics include application reachability, response time, server response time, and round trip time, regardless of where the application lives.

3. Cloud-Delivered Branch

The solution can enable a thin branch architecture, using standard x86 appliances in the branch while being fully cloud-managed. Prisma Access for Networks is seamlessly integrated using CloudGenix SD-WAN CloudBlades technology. This provides unmatched operational agility so that the cloud-based service can be rapidly deployed without requiring additional hardware.

Prisma Access

Prisma Access delivers the networking and security organizations need in an architecture designed for all traffic, applications, and users. Rather than requiring deployment of numerous single-purpose appliances and software, Prisma Access uses a common cloud-based infrastructure to deliver all the network security services an enterprise needs, including advanced threat prevention, web filtering, sandboxing, DNS security, credential theft prevention, data loss prevention, and next-generation firewalling. Prisma Access eliminates many sources of complexity associated with the deployment of point products.

CloudGenix SD-WAN

CloudGenix SD-WAN enables organizations to transform their networks and reduce WAN costs with the industry’s only app-defined, autonomous SD-WAN solution. It leverages machine learning and automation to simplify management, enables policy defined by applications to improve the end user experience, and secures your cloud-delivered branch.

[Visit us online](#) to learn more about Prisma Access and CloudGenix SD-WAN.