Prisma SASE App Acceleration
At a Glance

In today's cloud-first landscape, modern applications powered by dynamic, personalized, and real-time content are the backbone of employee productivity. However, slow-performing applications can result in frustrated users and lost productivity. To address this and provide consistent, high-performing, and secure experiences, Palo Alto Networks Prisma® SASE App Acceleration boosts app performance with superior ZTNA 2.0 security. App Acceleration securely understands the user's journey within any application to "compute the future"—preparing the relevant content beforehand for instant delivery.

Issues Affecting App Performance and User Experiences

Enterprise apps and employees are more distributed than ever, making it increasingly difficult to deliver secure and consistent experiences everywhere. As a result, organizations face several performance and experience challenges when connecting their hybrid workforces to their applications, including:

1. **Cloud latency** for workers accessing SaaS apps that are now widely dispersed and span multicloud environments and on-premises data centers. Due to heavy reliance on dynamic content, modern apps are inherently affected by cloud processing latency, which causes slow response times and poor user experience.

2. **Poor connectivity and network performance** in home offices or high-density environments like coffee shops and airports. Today's hybrid workforces primarily rely on Wi-Fi and cellular networks for critical business application connections. Unfortunately, these connections introduce wireless interference and packet loss that can profoundly impact network performance and end-user productivity.

3. **Inconsistent security** for hybrid workers accessing sensitive information over insecure networks or when turning off their VPN connections to enjoy faster access to the internet.

Prisma SASE App Acceleration Highlights

Palo Alto Networks Prisma SASE App Acceleration provides up to a 5X boost in an application's performance compared to accessing it directly through the internet. This helps ensure maximum productivity and security for workers everywhere. App Acceleration is the industry's first SASE solution that accelerates applications individually for every user, leveraging patented app-aware technology. What's more, Palo Alto Networks is working with leading cloud service providers and enterprise applications, including Amazon Web Services (AWS), Slack, ServiceNow, Google, Zoom, and SAP to enhance application performance, benefiting joint customers with faster response rates.

Highlights include:

- **Compute the future for immediate content delivery**: Prisma SASE App Acceleration securely understands how employees interact with SaaS and other cloud-based applications and uses that information to intelligently prepare the relevant dynamic content before the user requests it. When a user requests the content, it has already gone through security processing in Prisma Access, and is instantly delivered.

- **Boost network performance**: Unlike traditional WAN optimization approaches, only Prisma SASE App Acceleration dynamically adapts to hybrid worker first-mile connectivity conditions. It boosts connection performance by proactively optimizing the packet delivery rate to receiving devices to achieve maximum throughput, without overloading the client.

- **No code changes required**: App Acceleration doesn't require any changes to apps or infrastructure to boost performance.

- **Consistent, best-in-class security for all apps and data without compromise**: Prisma SASE with App Acceleration provides the superior protection of ZTNA 2.0, including AI/ML-powered inline protections to safeguard against even the most sophisticated and persistent threats, while providing full DLP support to protect all data from accidental or intentional exfiltration attempts—all while delivering faster than direct-to-app performance.

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Wi-Fi/Cellular

Hybrid workforce

5%

SASE

Worldwide access

5%

Applications

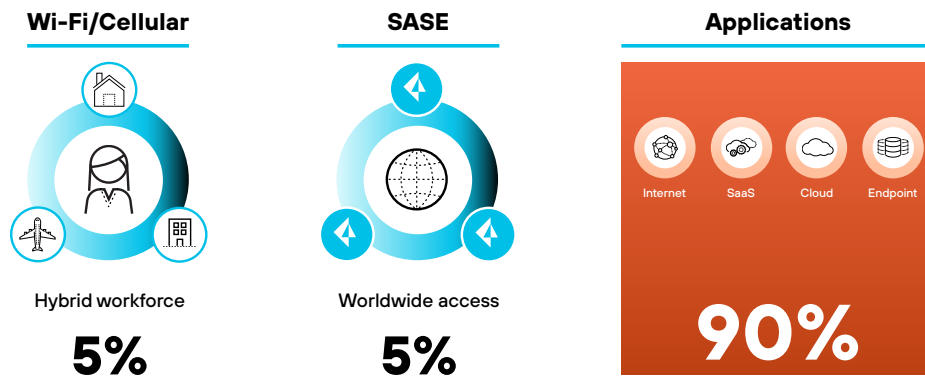
Internet   SaaS   Cloud   Endpoint

90%

Figure 1: The latency landscape for modern web applications shows that dynamic content contributes to the majority of end-to-end latency (90%)

Compute the Future with App Acceleration for Prisma SASE

App Acceleration understands the user's journey within any application and uses that understanding to forecast their next actions and compute the required dynamic content. When the user makes the request, the content is already prepared and fully scrubbed, having been run through the full suite of Prisma SASE's security capabilities to ensure protection from even the most sophisticated threats.

The result of integrating App Acceleration into Prisma SASE is a dramatic enhancement in application performance and user engagement. By decoupling user interaction from the inherent latency in dynamic content delivery, Prisma SASE provides a seamless experience that is both fast and secure. This method eliminates the traditional trade-off between performance and security when using modern apps, offering up to a 5X improvement in application responsiveness compared to direct internet access. Users will enjoy high-performing, secure app experiences without compromises, marking a significant leap forward in overcoming cloud latency.

Maximize Throughput for Optimal User Experiences

Prisma SASE App Acceleration measures connection health in real time for each user session. It springs into action the instant it detects packet loss in the connection and proactively optimizes the packet delivery rate to the client for maximum throughput for each individual user, without overloading the client device.

Prisma SASE App Acceleration tailors its optimization to compensate for changing network conditions, ensuring that users experience consistent, high-speed connectivity. This tailored optimization enables Prisma SASE App Acceleration to deliver the following benefits:

- **Up to five times faster** than direct-to-internet performance that dramatically improves first-mile connection speed while providing best-in-class security with Prisma Access.
- **Improved throughput equals improved productivity** with real-time packet loss mitigation that boosts throughput and drives faster data access to improve user experience.
- **Individually optimized user experience** that recognizes the uniqueness of each user's connection to ensure that each user receives an optimized experience tailored to their exact network conditions.
- **Zero code or infrastructure changes** means Prisma SASE App Acceleration doesn't require custom implementation, code, or infrastructure changes.
- **Enhanced security with Prisma SASE integration** that provides the superior security of ZTNA 2.0 for advanced protection for applications and sensitive data.

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Prisma SASE—the Industry's Most Complete SASE Solution

Palo Alto Networks Prisma SASE brings together best-of-breed security and next-generation SD-WAN into a cloud-delivered platform. It consolidates multiple point products, including ZTNA 2.0, Cloud SWG, CASB, FWaaS, and SD-WAN, into a single integrated service, reducing network and security complexity while increasing organizational agility.

The superior security of ZTNA 2.0 protects all application traffic with best-in-class capabilities, while securing both access and data to dramatically reduce the risk of a data breach.

Prisma SASE is built in the cloud to secure at cloud scale, while delivering exceptional user experiences. A truly cloud-native architecture provides uncompromised performance backed by leading SLAs. The industry's only SASE-native ADEM helps ensure an exceptional experience for your end users.

Learn more about App Acceleration for Prisma SASE at paloaltonetworks.com/sase.
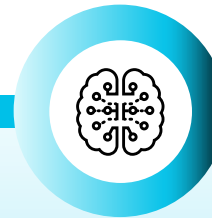
Predict the content

AI technology learns how real users interact with each app
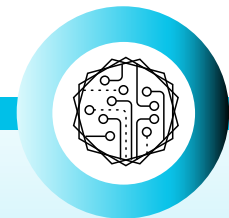
Compute the future

Proactively computes dynamic content based on unique intelligence

Figure 2: App Acceleration enables "instant load" experiences in dynamic apps to deliver faster-than-direct performance for no-compromise user experiences