Unified access and protection for today's modern business

Potential benefits

A SASE architecture helps organizations position for greater success:

- Increased performance – enable users to easily connect from anywhere, with global access to corporate resources

- Improved network reliability – connect branch locations directly to the internet through redundant internet circuits

- Reduce risk of data loss – provide identity-based access to specific applications and restrict sharing of sensitive information

- Potential cost savings – reduce overhead associated with deploying, hosting, and maintaining multiple hardware devices

- Reduced complexity – centralize management and visibility across users and locations with unified network and security solutions from a single provider

- Scalability – easily accommodate new users or work locations with cloud-delivered access and security

- Expert deployment, configuration, security and network policy design, and 24/7 management at scale

Cloud migration benefits come with challenges

Migrating applications and data to the cloud helps organizations respond to business change more rapidly and create the conditions necessary for accelerated growth. But these benefits come with challenges to security and the user experience, as applications and data become even more distributed. Once confined to the data center, enterprises' sensitive information is now also dispersed across private and public clouds, as well as both corporate and personal devices.

For organizations operating on a traditional hub and spoke architecture, the impact to user experience is pronounced. Using this topology requires that all traffic bound for the internet, whether for web browsing or

access to cloud-based applications, must first be routed through the on-premises data center. The resulting network congestion and latency may be a cause of frustration and act as a drain on employee productivity.

Businesses commonly try to overcome the problem by connecting branch locations directly to the internet with a software-defined wide area network (SD-WAN) to manage data flows, using multiple widely available internet transports like broadband, fiber, and LTE. But early adopters of SD-WAN may find that their traditional systems offer limited availability, can be time consuming to manage, and are difficult to scale. With many more gateways to secure, and SSL decryption frequently disabled to optimize network performance, the risk of security breach can be significant.

A new approach to enabling and securing remote work is needed

If connecting branch locations isn't challenging enough, the COVID-19 pandemic has inspired a massive shift to remote work. The trend appears likely to continue, as data from recent Gartner research suggest nearly half of all employees will continue to work remotely post-pandemic at least some of the time.[1]

Traditional remote access solutions were never designed to support the needs of an entire workforce connecting simultaneously. Unable to scale, legacy solutions are easily overwhelmed, causing latency and delivering a poor user experience. With *work from anywhere* becoming an increasingly standard practice, it's critical for organizations to rethink the way their networks are secured.

Integrating disparate networking and security point solutions to compensate for the limitations of legacy architectures only adds more complexity and cost, while not fully addressing the central challenges of performance and security. Security is an essential prerequisite to remote access, yet cloud, branch and remote access are often considered in a compartmentalized way, separate from the rest of the network. This isn't sustainable.

A natural evolution of WAN, Secure Access Service Edge (SASE) enables unified, secure, and consistent access to every user, wherever they're located. As a truly holistic, environment-wide approach to networking and security service delivery, SASE connects and protects every edge of the enterprise network – data centers, branch locations, IoT devices, public and private cloud – with one cloud-delivered or hybrid platform.

SASE delivers network performance and robust security without compromise

Unlike point security solutions, SASE is a new architectural approach that converges essential networking and security services like SD-WAN, firewall-as-a-service (FWaaS), secure web gateway (SWG), cloud access security broker (CASB) and zero trust network access (ZTNA), into a single cloud-delivered service. SASE offers highly secure, consistent access, no matter where users, applications, or data are located.

SASE helps organizations modernize their network and security to achieve new levels of cost efficiency, business agility, and growth. While its platform-based approach is flexible and adaptable to any number of potential use cases, SASE is particularly well-suited for addressing the challenges created in providing access to thousands of remote users, secure branch-direct internet access, and supporting multi-cloud migration.

It's important to note that while there are many benefits to SASE architectures, deploying SASE doesn't require abandoning existing infrastructure to do it. SASE allows enterprises to move at their own pace, maintaining existing resources while taking advantage of the new services SASE provides. SASE supports a gradual migration, functioning in harmony with existing network and security services.

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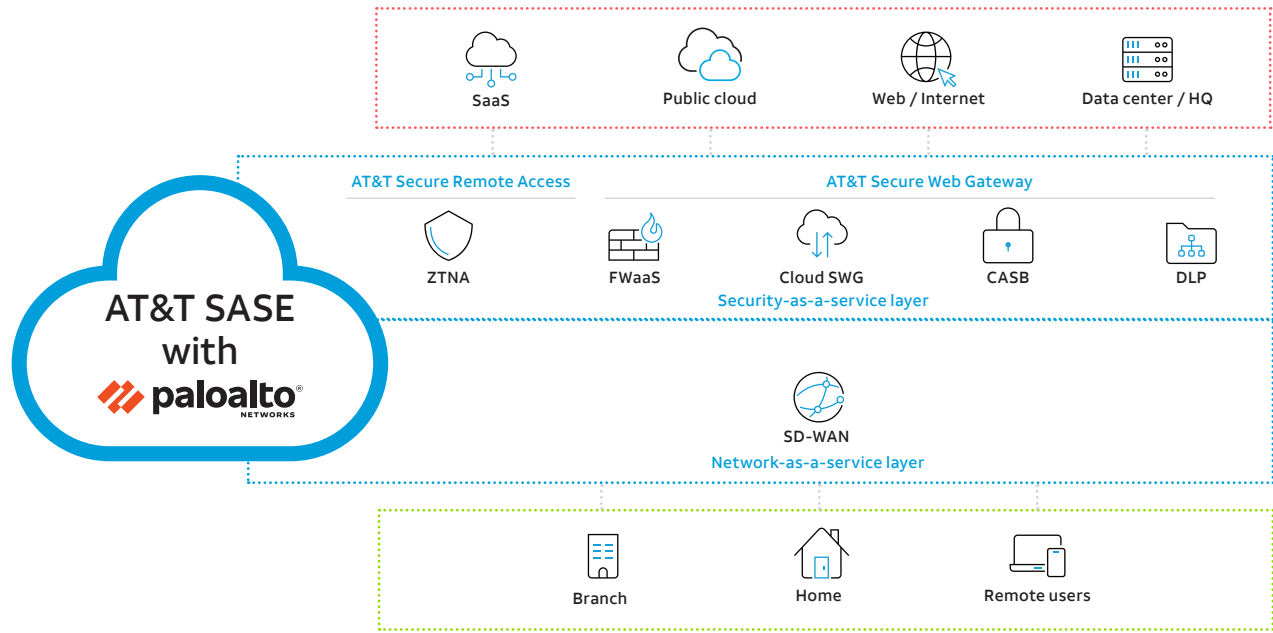
AT&T SASE with Palo Alto Networks:
A modular and integrated architecture to support digital transformation requirements of today and of the future

AT&T SD-WAN with Palo Alto Networks	AT&T Secure Remote Access	AT&T Secure Web Gateway
· Application awareness with granular visibility and performance analytics, and bandwidth prioritization for critical applications · Autonomous operations using machine learning (ML) and data science to simplify network management · Cloud-delivered branch access enhances business agility, control and visibility	· Zero trust network access enabling identity-based connections to applications and data by role or user · Traffic inspection for malware, data loss, and malicious behavior to prevent threats following user authentication · Full spectrum of network security services from a common cloud-delivered architecture to reduce complexity and ensure consistent policies	· Safer internet browsing, with blocking of known malicious websites, and helps enforce acceptable use policies · Cloud inspection of encrypted web traffic, removing burden from firewalls and preserving network performance · Extension of existing infrastructure security policies to SaaS applications and offers visibility into cloud-based traffic
AT&T SASE with Palo Alto Networks is offered as a 24/7 managed service	· Deployment strategy and execution · SD-WAN and security policy design · 24/7 monitoring and help desk support · Approved security patches and upgrades · Comprehensive visibility across locations and users · Fully-managed and co-managed options available to meet business' unique requirements	

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A comprehensive, integrated architecture that's as modern as your vision

AT&T SASE with Palo Alto Networks delivers consistent network access and security services to all types of cloud applications through a common, unified framework.

Whether replacing legacy infrastructure or multiple emerging point products, this unified, cloud-delivered SASE solution helps reduce complexity, enable rapid deployment and scaling of remote workers and branches, and consistent security enforcement wherever users are located.

Convergence without compromise

Advanced network and security fully integrated into a unified platform.

Autonomous

AI and ML powered automation along with AIOps capabilities increase network availability and reduces response times.

Cloud-delivered

Networking and security intelligence delivered with an extremely lightweight footprint at the branch to reduce complexity and increase agility.

AT&T and Palo Alto Networks: Delivering better business outcomes

Together, AT&T and Palo Alto Networks helps organizations of all sizes to modernize their network and security to enhance user productivity, reduce risk, lower operational costs, and boost business speed and agility. By adopting this modular, cloud-delivered solution, organizations can quickly scale to changes in user count, locations, and workplace designations, helping to prepare themselves for whatever comes next.

To learn more about how AT&T SASE with Palo Alto Networks helps businesses with a new more modern approach to networking and security, contact your AT&T account manager or visit us online.

[1] *"Prepare for Future of Remote Work"*, Gartner.

About AT&T Cybersecurity

AT&T Cybersecurity helps to reduce the complexity and cost of fighting cybercrime. Together, the power of the AT&T network, our SaaS-based solutions with advanced technologies including virtualization and actionable threat intelligence from AT&T Alien Labs and the Open Threat Exchange™, and our relationship with more than 40 best-of-breed vendors, accelerate your response to cybersecurity threats. Our experienced consultants and SOC analysts help manage your network transformation to reduce cybersecurity risk and overcome the skills gap. With experience across all industries, we understand your business demands, and deliver the right insights, guidance, and solutions for you.

About Palo Alto Networks

Organizations everywhere are undergoing a profound digital transformation, fundamentally reshaping the ways they operate, innovate, and connect with the people they serve. As the global leader in cybersecurity, Palo Alto Networks continually delivers innovation to enable and secure this digital transformation — even as the pace of change is accelerating. The most innovative companies in the world are choosing Palo Alto Networks. We are a cybersecurity partner to 95 of the Fortune 100 and secure over 73,000 customers in 150 countries around the globe. They rely on us to protect their most valuable data and assets. We are committed to providing them the visibility, trusted intelligence, automation, and flexibility that helps them advance. Our comprehensive portfolio delivers best-of-breed capabilities to secure the network, cloud, and ever expanding edge in a way that is integrated, automated, and simple. Every day, we innovate to create cybersecurity solutions that ensure our customers are secure today for a better tomorrow.