

# Market trends driving the shift to software-centric cloud networking and security

# AT&T Secure Access Services Edge (SASE)



#### Corporate Data Centers

Many businesses now have more users and applications located outside of the data center than within Networks and security need to be transformed to offer low-latency access and unified security



## Remote/Mobile Workers

Users, sensitive data, and network access will be highly distributed across company owned and personal devices The future of work will be "mobile first" and from anywhere



## Zero Trust Network Architecture

Organizations can no longer operate under the old model of everyone within the network being trusted and simply guarding the perimeter against external threats
Security controls are moving closer to the data with the assumption that traffic is untrusted unless explicitly defined



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### What is driving the trends?



New Data Center Markets Emerge



A more mobile and remote workforce



Focus on security first approach to architecture



Adoption of SaaS and cloud-based applications





Hyperscale cloud platforms expand their physical infrastructure to metros

-Data Center Knowledge



62% of employed Americans are working from home

-Gallup



95% of enterprises are in various stages of a Zero Trust initiative in their network

-AT&T Cybersecurity Insights Report



94% of companies use more than one cloud platform

- Palo Alto Networks

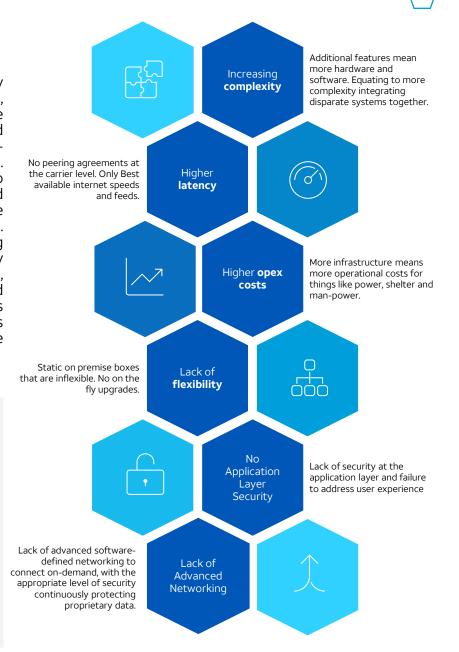


# Legacy Static Network

#### The past was a Static Network

Legacy network architecture is generally charaterized as a well-defined, static, wired, finite network perimeter. The firewall is the gateway to the perimeter. Accessing cloud served applications and services require a hairpin turn at the datacenter gateway firewall. Remote users utilize legacy VPN tunnels to access the network. Security is considered inherent once a user authenticates with the firewall via Active Directory authentication. Cloud Access Security Brokers are a thing of the future and thus not used or poorly integrated with the legacy network. Therefore, making accessing and properly securing cloud and SaaS workloads nearly impossible. This network architecture only truly protects data that resides inside the perimeter of the environment.

Intelligent secure connected network for the **HYPER-DISTRIBUTED** enterprise.



#### Modern Enterprise Network Through latency-optimized routing, reduces number of Performance hops and singular insertion of policies on the wire Consistent access experience regardless of user location **Ease Of Use** and types of apps accessed Consolidate highly secure network access services from single provider. Reduce Complexity number of appliances in the & Costs Customers without large IT Reduce staffs and expertise, SASE does all the work for them. SASE cloud is providing **OPEX Enable Zero** Evaluates trust every time a Trust device or user requests access Network to a resource through multi-Access factor authentication Apply content inspection such as scanning for sensitive **Improve** data using consistent policy Security

#### **Network of The Modern Enterprise**

The network of the modern enterprise is also a well-defined network architecture that deploys software-defined resources to ensure "on the fly" flexibility, CASB integrated cloud, and SaaS workloads, Software-defined Wide Area Networking (SDWAN) that monitors latency, jitter, line condition and identifies applications at the layer-7 to ensure that the proper class of service is assigned. Doing so dynamically ensuring that the end-user gets the best possible user-experience from the network. Authentication is performed at the cloud level security stack so that users can have a secure experience in the network, while ensuring that data throughout the network is properly protected.

User centric. dynamic, elastic, multi access, **SOFTWARE-DEFINED PERIMETER** 

Organizations operating in a multi-cloud environment today.

By 2024, at least 40% of enterprises will have explicit strategies to adopt SASE.

regardless of where the

user/device is located

Post COVID, 82% of companies plan to allow employees to work remotely - some of the time.



# Core technologies in a Secure Access Service Edge (SASE) framework



#### Zero trust network access

- Application **Awareness**
- Microsegmentation
- Identity based access



#### SD-WAN

- Edge Connectivity Abstraction
- · WAN virtualization
- Elastic traffic management



#### Firewall as a service

- Stateful Firewall
- IDS/IPS
- Anti-Malware



#### Secure web gateway

- URL Filtering
- SSL Inspection
- · DNS Monitoring

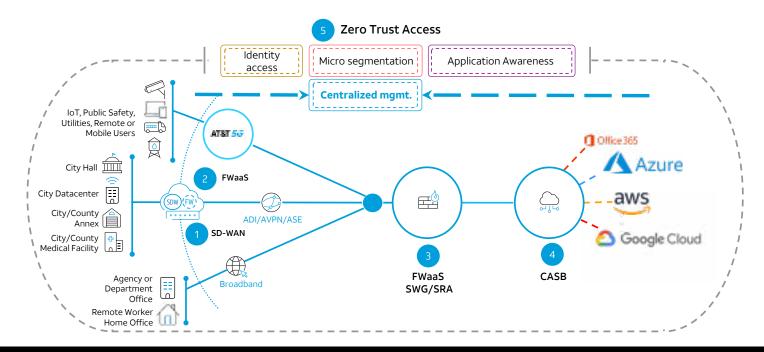


#### Cloud access security broker

- SaaS visibility
- Proxy
- Data security

#### **Centralized Management**

# The Roadmap to Secure Access Service Edge (SASE) with AT&T



AT&T named Global Leader among MSSPs 2021

250 MSSPs in 2020

Ranked #1 MSSP among top J.D. Power Recognizes AT&T in Customer Satisfaction Rankings 2020

AT&T named #1 Managed SD-WAN provider in North America 2020 Frost and Sullivan