

# 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.



### 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.

## 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%

62% of employed Americans are working from home

-Gallup

95%

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

-AT&T Cybersecurity Insights Report

94%

94% of companies use more than one cloud platform

- Palo Alto Networks

# Legacy Static Network **VS** Modern Enterprise Network

## The past was a Static Network

Legacy network architecture is generally characterized 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 hair-pin 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.*



## 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***



**85%**

Organizations operating in a multi-cloud environment today.

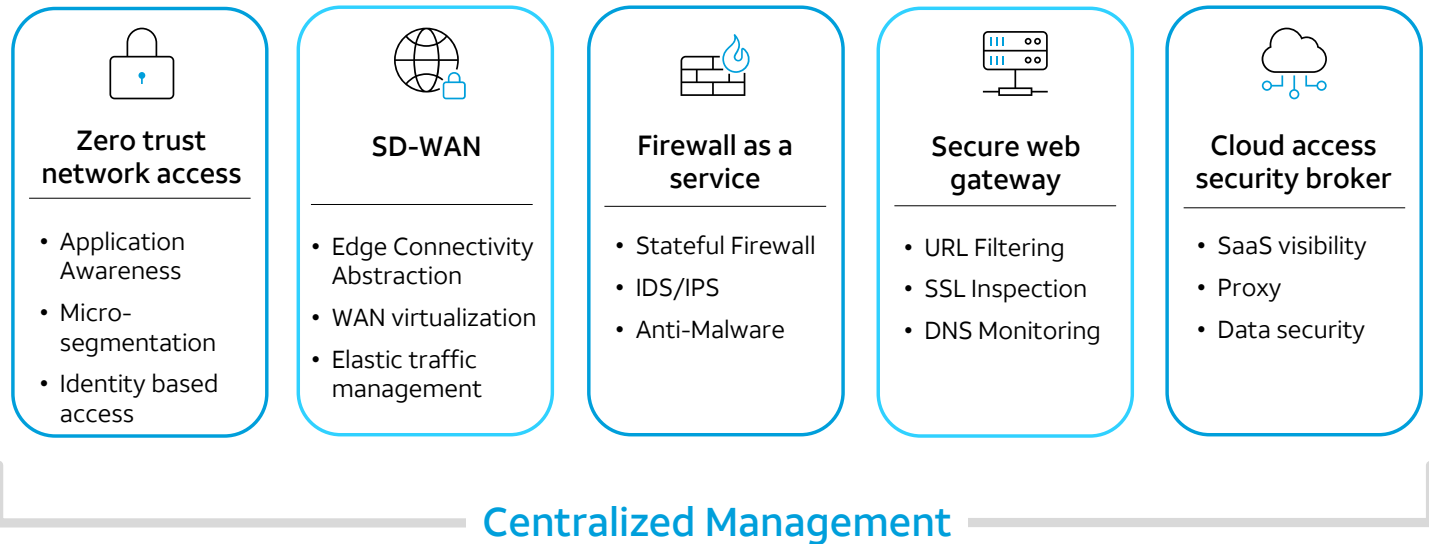
**40%**

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

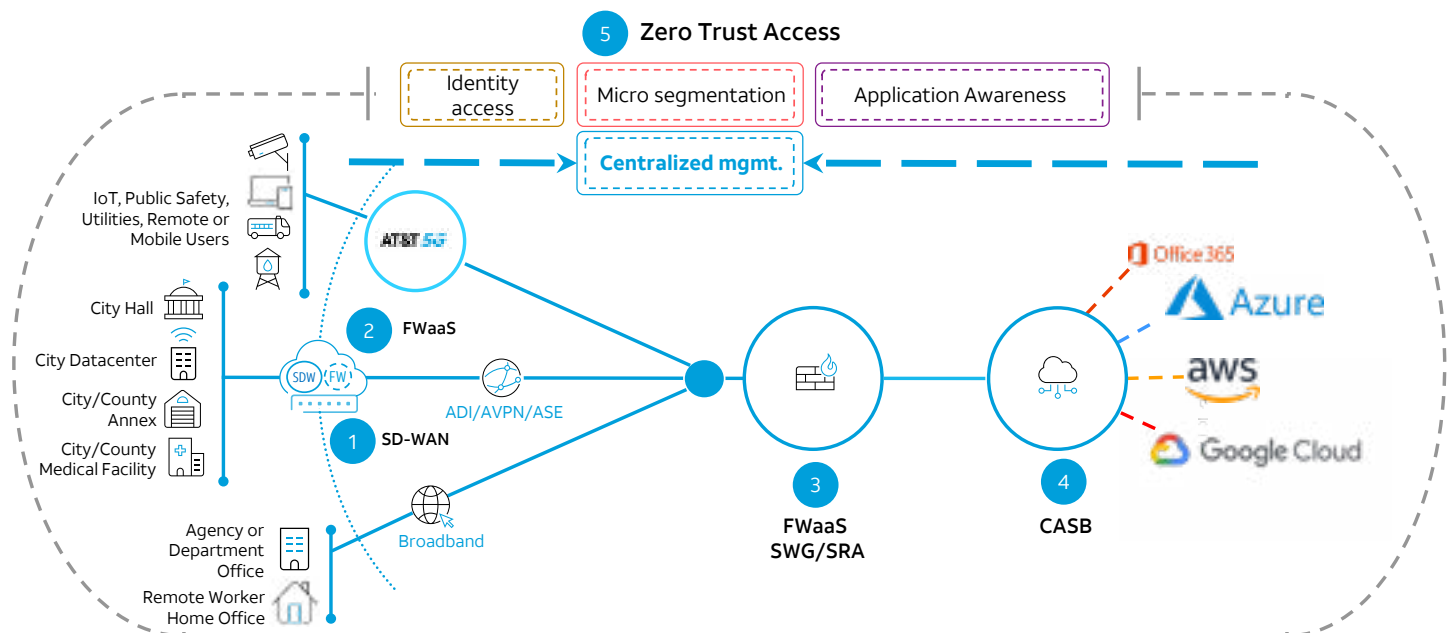
**82%**

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



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



AT&T named Global Leader among MSSPs 2021

IDC

Ranked #1 MSSP among top 250 MSSPs in 2020

MSSPAIert

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