

Robert J Zapotocky

AT&T Sr. Principal Architect

Agenda

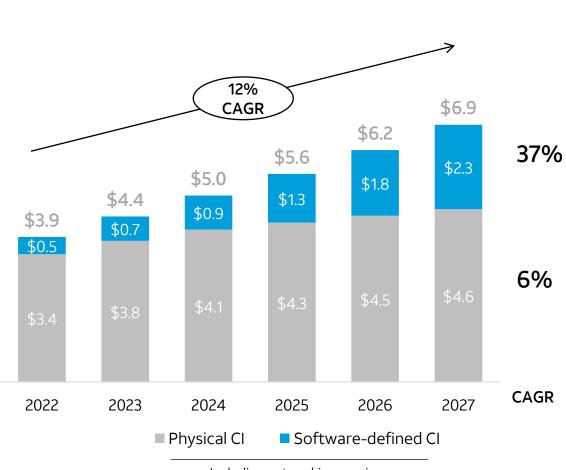
- > Trends and Challenges
- Network Modernization
- ➤ Cloud as HUB
- > Integrated Dynamic Defense
- > Q&A



Hybrid cloud & multi-cloud driving market needs for cloud interconnect

U.S. cloud interconnect TAM (\$B)

(including networking services, such as Ethernet & Internet)



Including networking services

Physical and software-defined interconnect options are rapidly growing in popularity

enterprise spending growth on **private cloud** connections, 2020-25¹

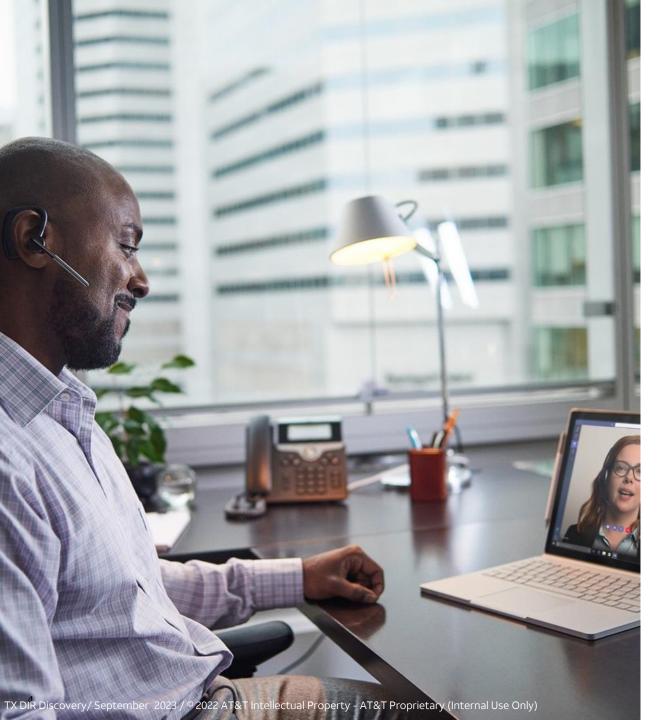
of enterprises employ **SW-defined** cloud interconnect services to public clouds by 2024

State CIOs are clear on what they are working towards. Eighty-nine percent of states reported that hybrid cloud is their ideal cloud state.



Gartner stated, in a 2022 Press release "Enterprise IT spending on public cloud computing, within addressable market segments, will overtake spending on traditional IT in 2025"





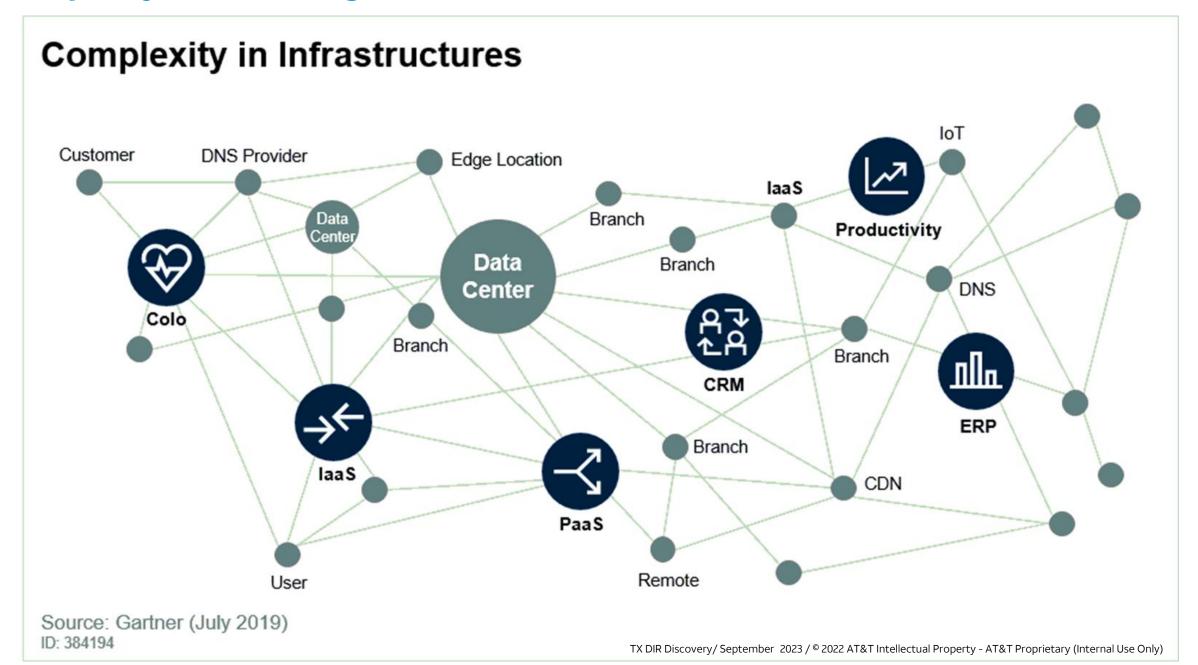
Transformation Focus

What are the Challenges?

- New and challenging requirements: Distributed apps and workforce creates the need to rethink how to securely connect users and devices. Traffic patterns change, and the threat footprint expands.
- Network needs to be Cloud ready: 50-80% of traffic is hair-pinned through legacy datacenter/primary internet site, leading to inefficient bandwidth use and greater networking costs
- Infrastructure management: Low or no end-to-end visibility, requires multiple middleware or API integrations with minimal orchestration and very low agility
- IT Talent availability & retention: The shortage of skilled and experienced IT personnel and the inability to retain those resources poses significant challenges to security, agility and continuity
- Increasing cyber targeting in public sector: Significant investment in security tools has done little to slow cyber attacks in public sector.

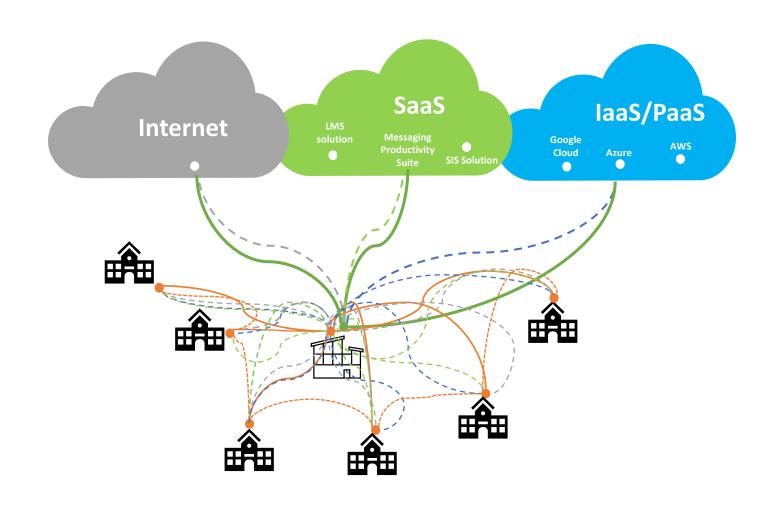


Disparity between Digital Transformation and Network Modernization



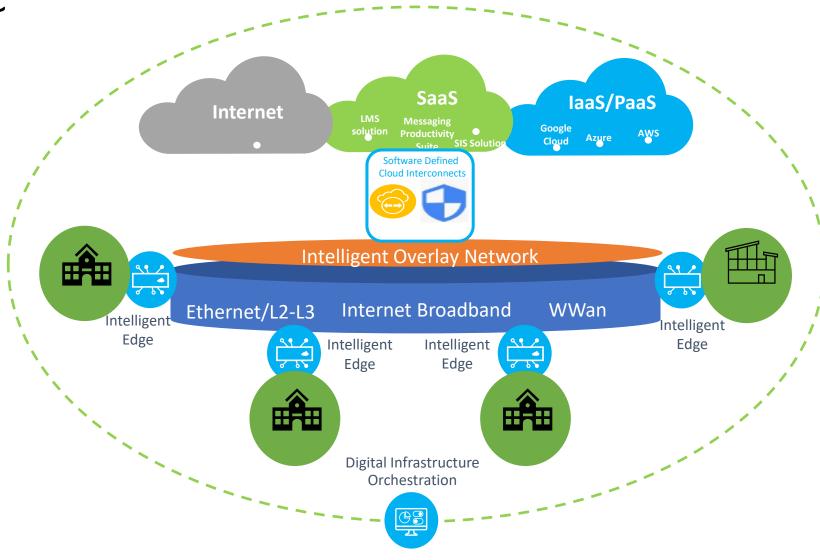
Typical Legacy HUB centric Network Design

- L2/L3 Hub & Spoke with single central internet connection
- Complex and slow management & operations
- Inefficient use and scaling for bandwidth
- Poor application experience
- Backhaul for cloud/Internet services
- Hairpin required for cloud services, point of failure
- Inadequate security position, not E2E

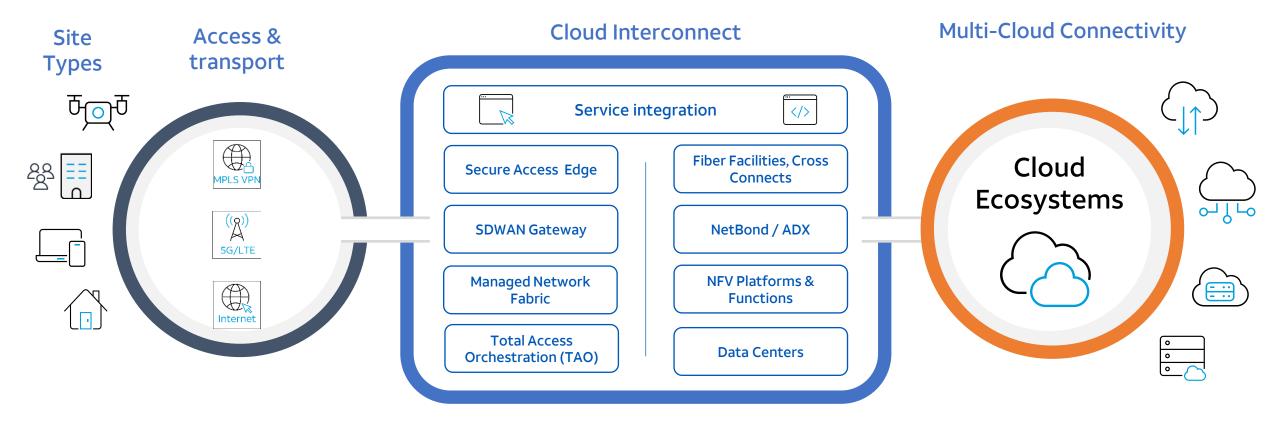


Secure cloud centric Network Design

- Intelligent software defined overlay architecture
- Agility and scale through automation & policy-based application prioritization
- Direct cloud & internet access via secure network gateway as a service
- Full E2E visibility, scale based on site requirements
- E2E Security supported via Edge VNF and Secure Gateway



Software-Defined Cloud Interconnects



Managed Digital Infrastructure



- AT&T Managed Cloud Connections
- Virtual & Dedicated Nodes
- End-to-End Solution
- In-house and 3rd party platforms

Cloud Connections On Demand



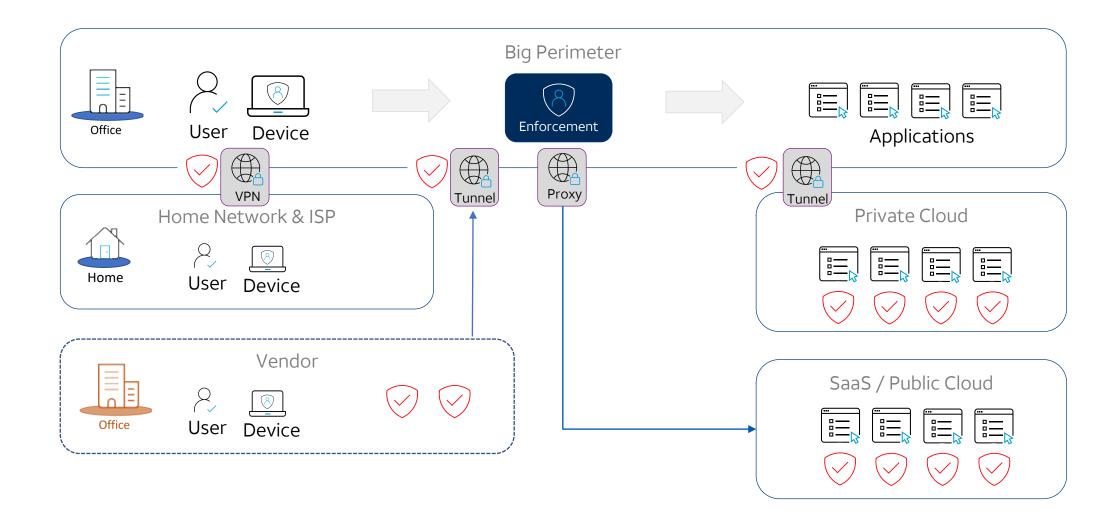
- Self-service Digital Experience
- Virtual Network Connections
- Pre-integrated with Network and Cloud Providers



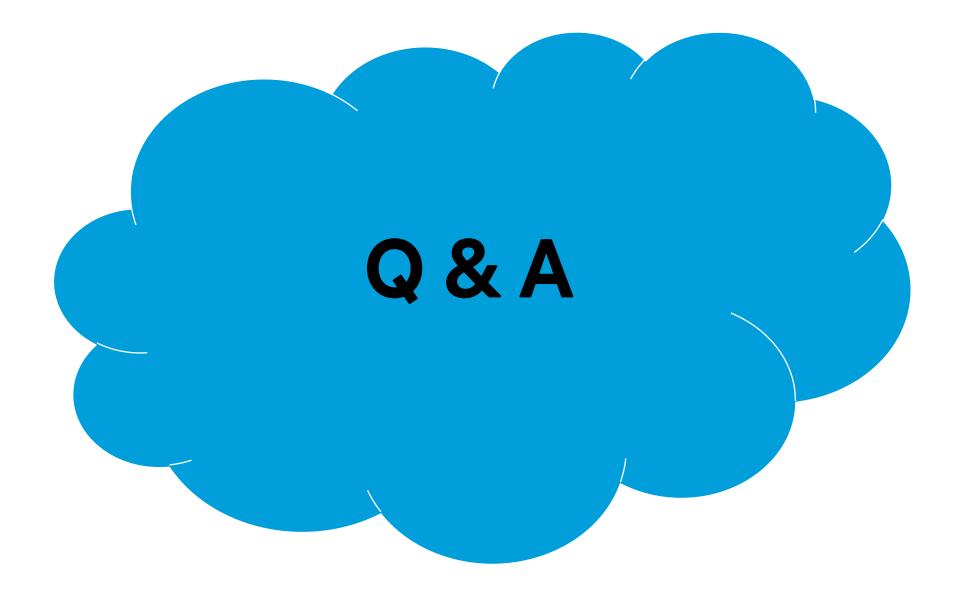
Remember when Security was Simple....



Security Has Become Complex and Hard to Manage









AT&T Public Sector, Government, Education & Medical - GEM