

Network transformation is vital to deliver digital



transformation

From the traditional network of the past	To the software-defined future
Enterprise applications Applications lived in data centres (DCs)	Multi-cloud performance Underpins a great user experience no matter where the application is
Private networks Most end points were controlled by the enterprise	Mobile- and IoT-ready Automated segmentation and encryption enhance security posture
Internet Was for consumer applications and basic marketing	Network services cost efficiency Dynamic traffic routing prioritization and utilization of lower cost connectivity
Carrier lock-in Reliance on a single supplier who could connect every end point	Carrier neutral An opportunity to pick the best carrier for the site or use case

A new business model for the digital world

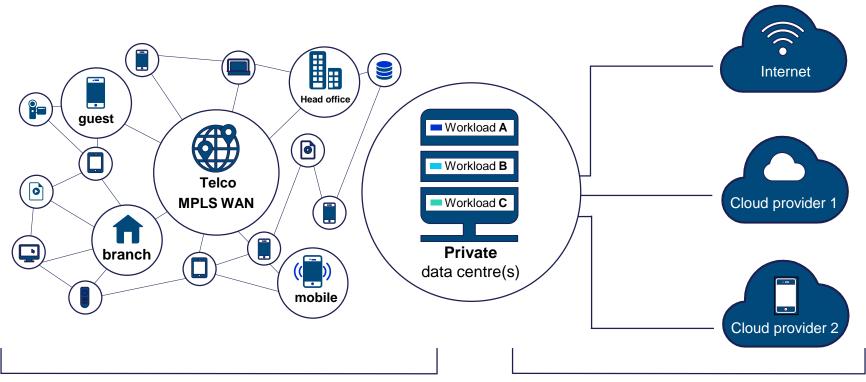




Realizing the potential of cloud, mobility,



Customer Experience and productivity is a growing management challenge



Yesterday

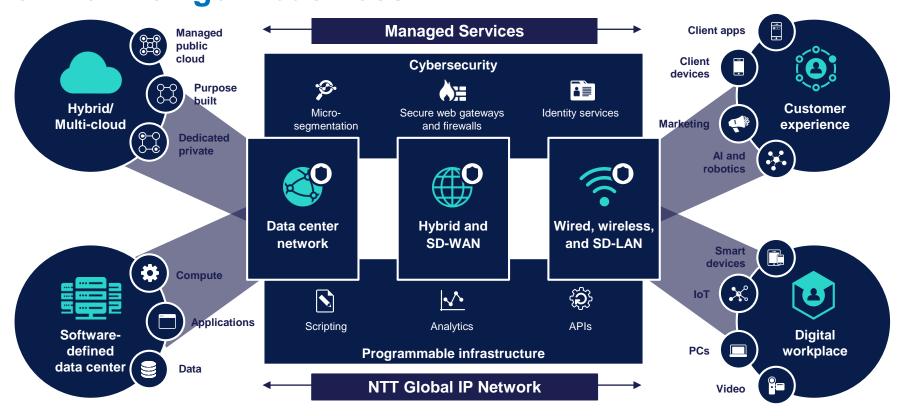
90% of network traffic sourced from private DC

Tomorrow

as much as **50%** of network traffic sourced from the internet

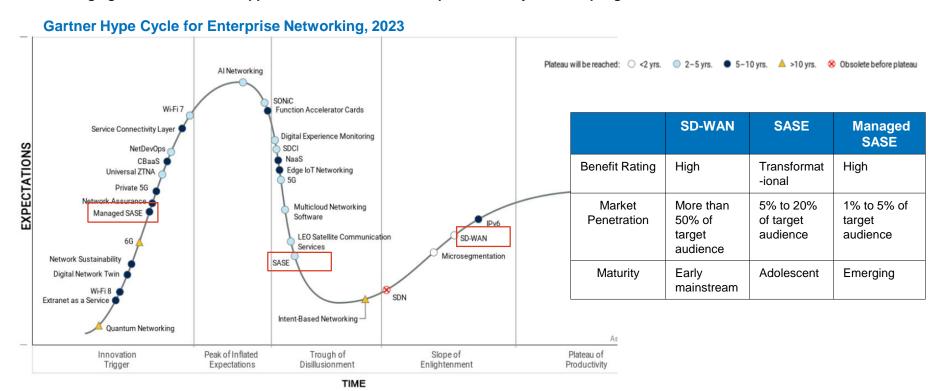
Software defined infrastructure is the foundation of the intelligent business





SD-WAN is already in early mainstream; while SASE will mature in the next two to five years

In recent years, networks have become increasingly complex, leading network managers and architects to seek more adaptable methods for managing their networks and applications. This demand has paved the way for the rapid growth of SD-WAN/SASE

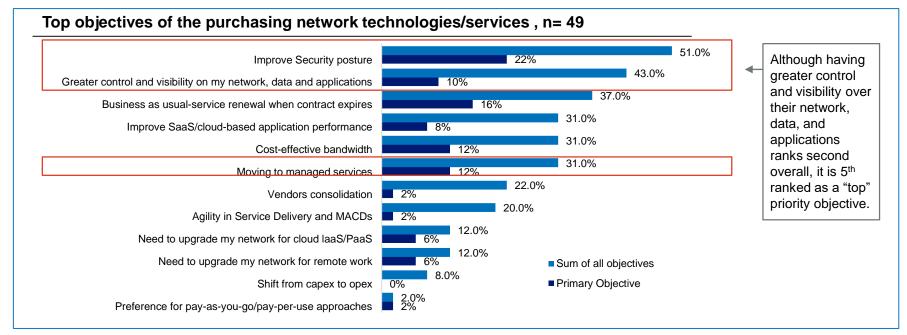


Improve security, contract renewal, moving to managed services are main objectives behind buying network these days (1/2)

What is driving change in network connectivity options?

Pandemic accelerated the convergence of SD-WAN and SASE, but the shift towards remote and hybrid work remains. This necessitated a flexible, on-demand, software-based architecture for delivering network and security services anywhere

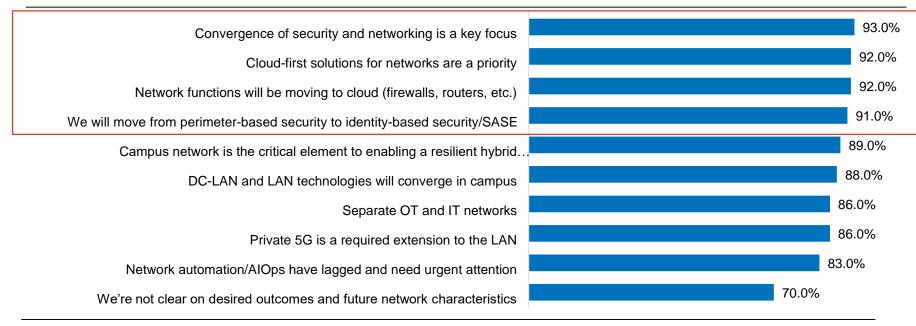
Enterprises also face challenges as they transition from data center-centric networks to cloud-centric networks



Source: Gartner Buying Network Communications Services Survey, 2023

Convergence of security and networking, along with cloud-first solutions for networks are the key focus (2/2)

Network-related changes expected in future (n=1,037-1,084, 2023)^



To what extent do you agree or disagree that the characteristics of the network will be changing in future? (Choose one answer per row) Base: All highly technical/technical respondents, excluding decision-makers (n=1,037–1,084)

During the last two years, on-premises network security services have emerged as the frequently cited "most expensive" network technologies and/or services*

Source: ^NTT, 2022-23 Global Network Report 2023; * 2023 Gartner Buying Network Communications Services Survey, 2023

Top two trends driving smarter SD-WAN and SASE

Overall, the integration of new technologies such as cloud, edge, AI, and analytics and SSE with SD-WAN provides connectivity for cloud-delivered branch, simplifying network operations and enhancing user experience





Extending SD-WAN to SASE

- Many organizations have already implemented an SD-WAN strategy. SASE is its next evolution, integrating security into the enterprise WAN. This is driven by work from anywhere scenarios and shift to cloud
- SASE market will grow at a CAGR of 31% (2023-26), reaching USD 20.9bn by 2026

Next-generation SD-WAN

- Several innovations will power the next-generation of SD-WANs: Al, edge, multi-cloud and NaaS
- Next-generation SD-WAN addresses the limitations of traditional WAN technologies and offers improved network performance, increased security, reduced downtime and simplified network management
- SD-WAN equipment market is expected to experience a CAGR of 13.9% (2023-2027), reaching USD 8.4 bn by 2027
- Meanwhile, the SD-WAN Managed Services sector is projected to grow at a CAGR of 11.1% (2023-27), with a projected market value of USD 8.1 bn by the end of 2027

Source: NTT analysis

SD-WAN experiences double-digit growth, while traditional and managed connectivity remain flat, making SD-WAN a key driver in the overall network market

"SD-WAN and SSE revenues are expected to see a double-digit CAGR over the 2022 to 2027 timeframe." - Dell'Oro Group, Feb 2023





Q&A