UCaaS: Taking your digital dexterity to new heights with SD-WAN

NTT Communications — Transform. Transcend.

The corporate network is facing unprecedented pressure as real-time communications and smarter ways of working transform the digital enterprise. And with communication workloads moving to the cloud, bandwidth-intensive applications are placing greater demands on networks to support multiple streams of data. A lack of flexible management tools to face this challenge can result in spiralling network costs, a poor user-experience, increased security risks and loss of productive time.

60% Majority of enterprise workloads will be in the cloud by 2018[1]

66% of all business internet traffic will be video by 2020, up from 44% in 2015[2]
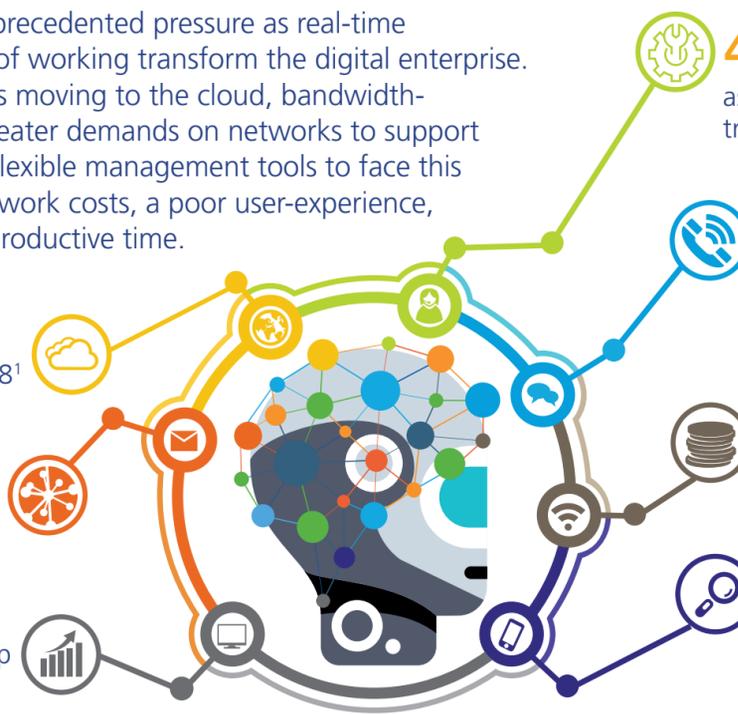
78% of enterprises ranked improving internet performance as top priority in 2018[3]

46% of CIOs named culture as the biggest barrier to scaling digital transformation[4]

40% of enterprises will use telephony-enabled UCaaS to power collaboration by 2022[5]

$3.86m average total cost of a data breach in 2018[6]

58% of organizations use analytics to improve the rollout of their workplace tools[7]

An agile digital workplace

Enterprises are adopting Unified Communications as a Service (UCaaS) to deliver a seamless collaborative experience across international boundaries. With an SD-WAN enabled network, companies are addressing the challenges of a constantly moving world and no longer have to worry about implementing new network services to adapt to business requirements.
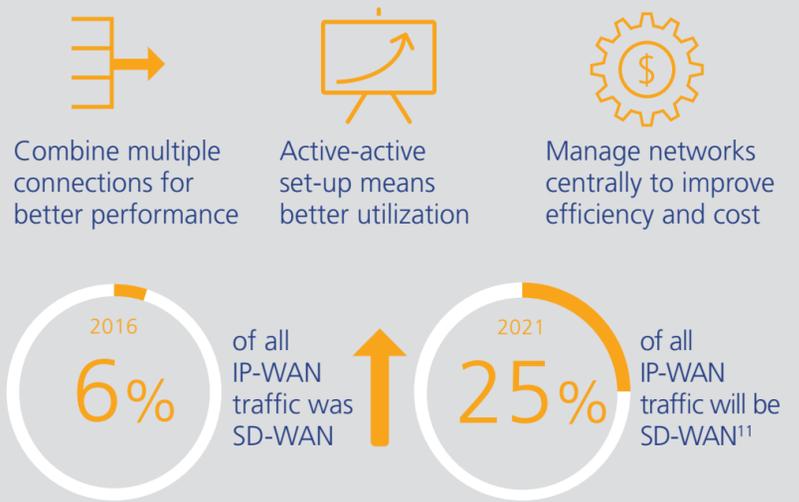
$30bn global spending on UCaaS products in 2020[8]

$6bn global spending on SD-WAN services in 2020[9]

30% By the end of 2019, nearly 1/3 of enterprises will use SD-WAN products in all of their branches, up from less than 1% today[10]
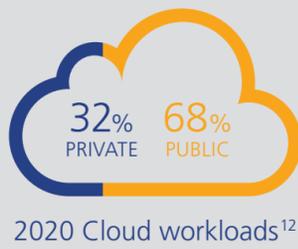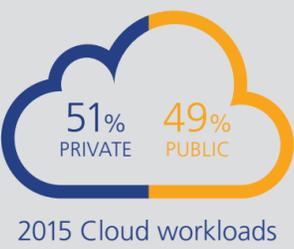
Hybrid connectivity

SD-WAN enhances your network quality by combining multiple connections into a single virtual connection. It can aggregate 4G, MPLS, DSL and other connections into a scalable hybrid network – giving you greater control of your bandwidth costs. This also makes your digital workplace more efficient by dynamically routing real-time traffic along the fastest route possible.

Combine multiple connections for better performance

Active-active set-up means better utilization

Manage networks centrally to improve efficiency and cost

2016 **6%** of all IP-WAN traffic was SD-WAN

2021 **25%** of all IP-WAN traffic will be SD-WAN[11]

Intelligent path control

SD-WAN devices automatically route network packets along the most appropriate links to reflect network policies. Intelligent path control also allows businesses to route traffic quickly around network outages or congestion, switching between connection providers as appropriate to increase network reliability.

Improved performance: expand network capacity and make use of all circuits

Flexibility: on-demand features delivered over the cloud

Cost control: take full control of your costs with a scalable service

51% PRIVATE **49% PUBLIC** — 2015 Cloud workloads

32% PRIVATE **68% PUBLIC** — 2020 Cloud workloads[12]

Application optimization

SD-WAN administrators can optimize the network to support applications with specific needs. They can define rules to prioritize a low-latency video application, for example, or even dynamically adjust support for applications based on specific business conditions. This leads to improved user productivity.

Optimize voice & video for better collaboration

Support chatty apps over the internet with proper optimization

Change business rules rapidly

100 milliseconds response time: for web page to feel 'instantaneous'[13]

150 milliseconds maximum tolerable latency: before poor voice quality leads to a loss of productivity[14]

Protect your workplace with centralized security

SD-WAN is designed from the ground up to be secure, protecting your data at every connection point – with full control from one centralized console. Administrators can set permissions for different applications centrally in accordance with defined policies.

Use internet safely and more effectively

Update security policies centrally

Full control of firewalls and internet breakout

The workplace must evolve

SD-WAN and UCaaS are a natural move to support the transition to an application centric network, supporting uptime, performance and real-time routing.

SLAs guaranteeing application performance

Streamline your management with a flexible catalogue of services

Instantly deploy rich collaboration features

Find out how NTT Communications can become a trusted partner in your move to a smarter networking future at https://ntt-ucconnect.eu

Sources: 1. Voice of the Enterprise: Cloud Transformation survey of IT buyers, 451 Research. 2,12. Cisco Visual Networking Index, Cisco 3. The future of the Enterprise WAN. 4. Learn the Art of Culture Hacking, Gartner 2018. 5. 2018 UC Forecast: UC as a Service (UCaaS), Wainhouse Research 6. 2018 Cost of a Data Breach Study: Global Overview, Ponemon Institute. 7. The Digital Workplace Report: Transforming your Business, Dimension Data. 8. Unified Communications as a Service Market, Transparency Market Research. 9. Cloud and Drive for WAN Efficiencies Power Move to SD-WAN, IDC. 10. SDWAN Forecast and Opportunity: How They Will Disrupt the Router Market, Gartner. 11. The Zettabyte Era: Trends and Analysis, Cisco. 13. ACM Sigmetrics/IFIP Performance 2016, Sigmetrics. 14. Plan network requirements for Skype for Business 2015, Skype for Business blog, Microsoft.