



Network Infrastructure - Trends and Evolution

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Today in the History of Technology



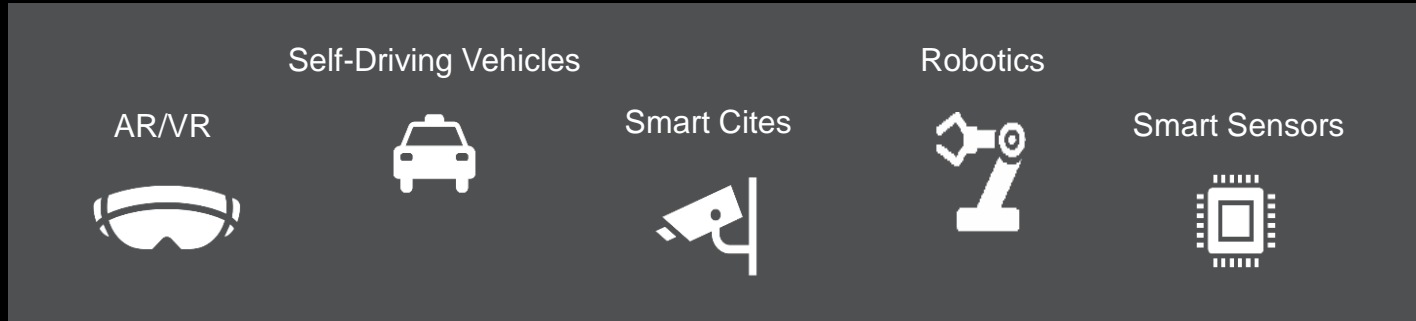
Internet of Things

There will be over 28 billion connected devices and over 150,000 GB of data per second by 2022 ¹



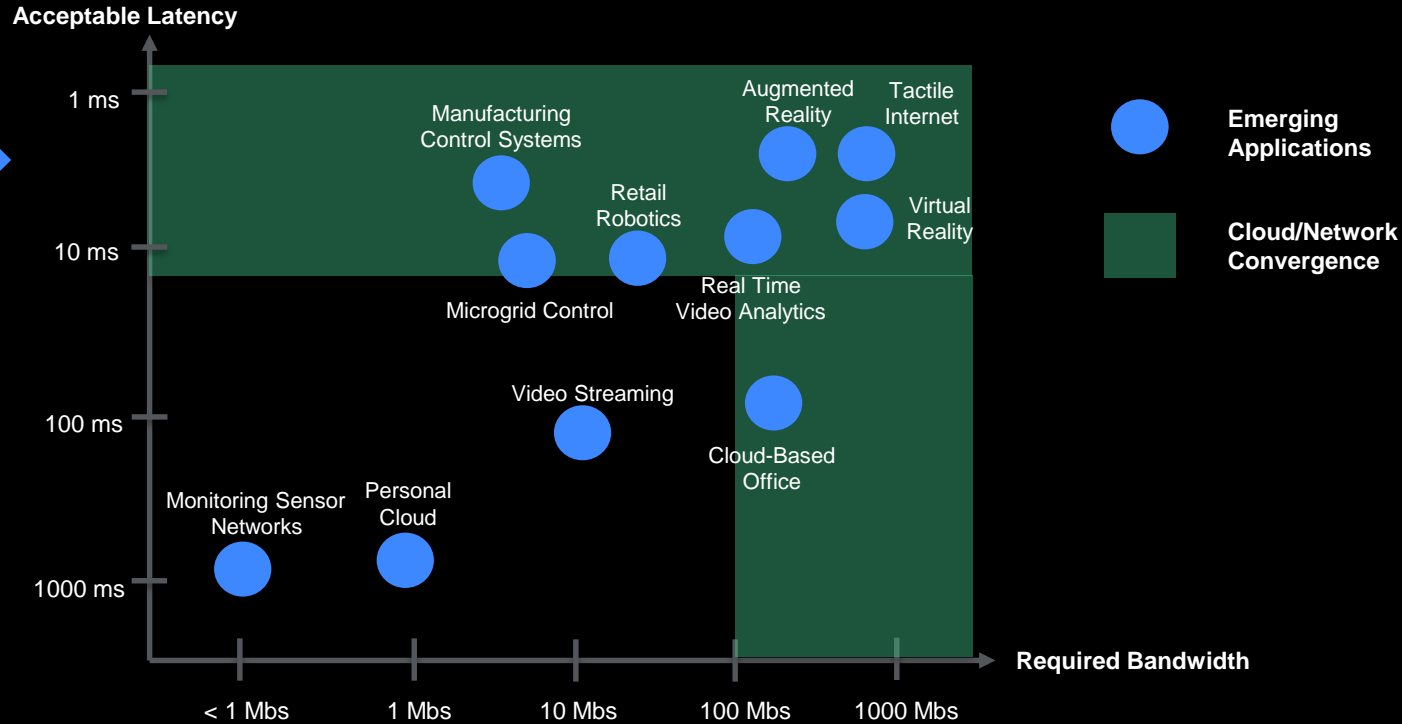
Growth of Performance Sensitive Applications

The growing number of data intensive, real-time applications is driving demand for higher bandwidth and lower latency



- Traffic associated with virtual and augmented reality applications is poised to grow 12-fold from 2017 – 2022¹
- Internet video surveillance traffic will increase 7-fold from 2017 - 2022¹

Latency and Bandwidth Matter



The Cloud and IT Agility

83% Of Enterprise Workloads are projected to be in The Cloud By 2020¹



Network Agility Must Match Cloud Agility



46% of businesses say that choosing the right infrastructure to best support each workload is a challenge²

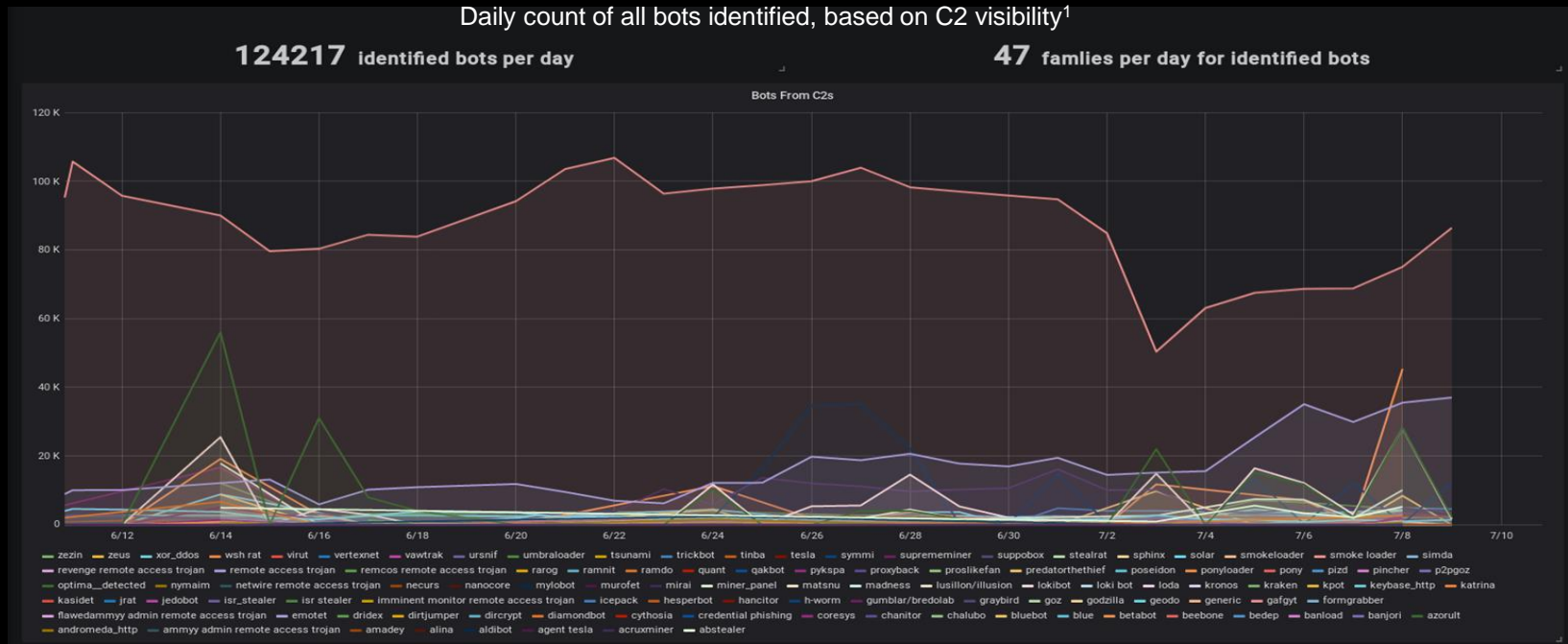
49% of businesses have trouble managing multiple clouds³

¹- Cloud Vision 2020: The Future of the Cloud, A Survey of Industry Influencers Nov 2017

^{2,3}- Frost & Sullivan, The Hybrid Cloud Landscape - Perspectives from the 2018 Frost & Sullivan Cloud User Survey, Dec. 2018.

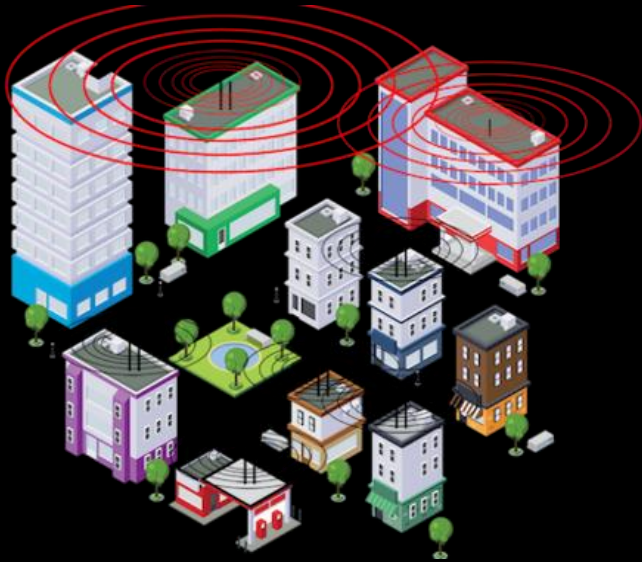
Enterprise Security Trends

Digital businesses must quickly detect and deflect malicious activity across highly distributed and evolving environments

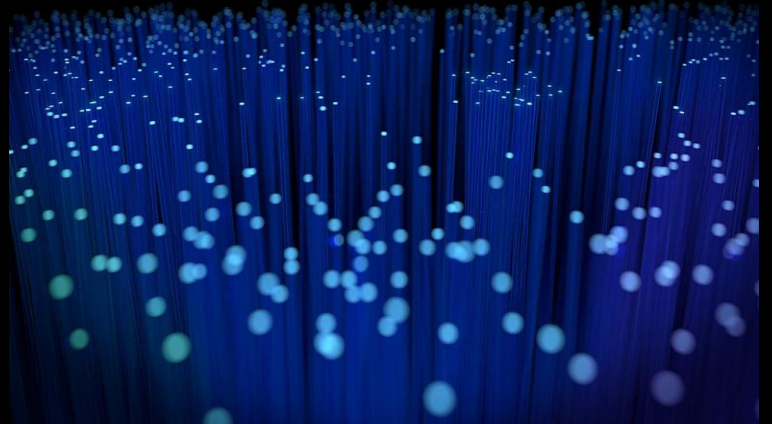


Fiber Densification

Wireless transmission distances are shrinking



Fiber densification supports increased bandwidth and lower latency demands



Adaptive Networking Customer Outcomes

Adaptive Networking delivers data with greater agility, insight, and control, delivering the following business outcomes:

Greater Agility

- Deep analytics on network performance
- Granular application control over network, access, and security
- Share network assets to deliver greater reliability

91% of businesses with adaptive networking realize up to **29% improved network performance**

Improved Efficiency

- Dynamically scale bandwidth to meet user demand
- Simplified branch connectivity
- Real-time connections from your data center to cloud providers

62% of businesses with adaptive networking experience up to **33% faster deployment of new locations**

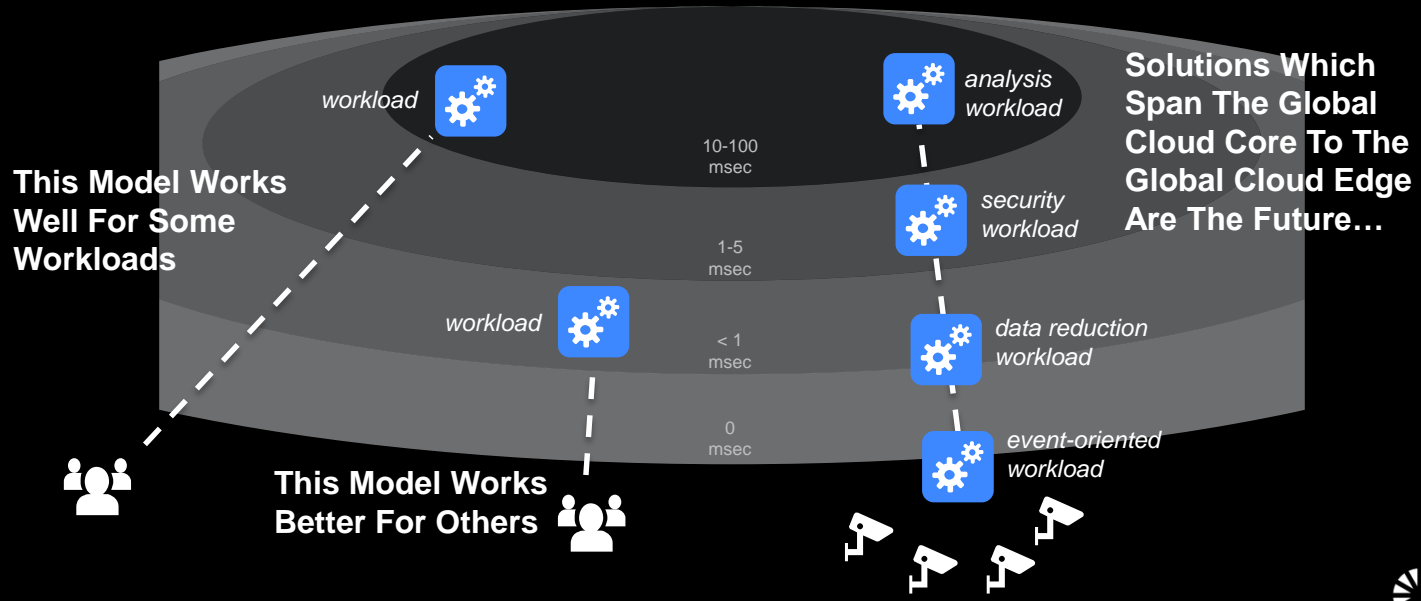
Expansive Protection

- Global threat insight
- Embedded protection of your network assets
- Automated threat response
- Instant insights and expert consultation

79% of businesses with adaptive networking realize up to **31% improved response to multi-layered network security threats**

Cloud Edge – The Network is the Datacenter

By 2025, 75% of enterprise-generated data will be created and processed outside the data center or cloud, up from less than 20% today¹.



Questions?

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