



University of Strathclyde, Cisco

And the Cisco Cloud Services Stack

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CX SP Product Management

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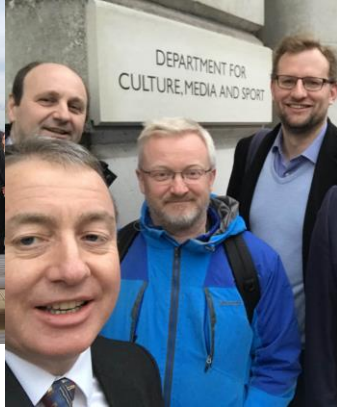


How We Got Here



University of
Strathclyde

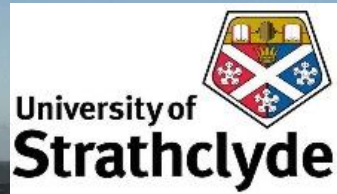
The Place of Useful Learning



The Challenge:

The UK's Biggest Food Export is farmed in Scotland's Highlands and Islands. The Missing Ingredient? Connectivity.

The opportunity is top and bottom line service provider revenue.



#TheBridgeToPossible

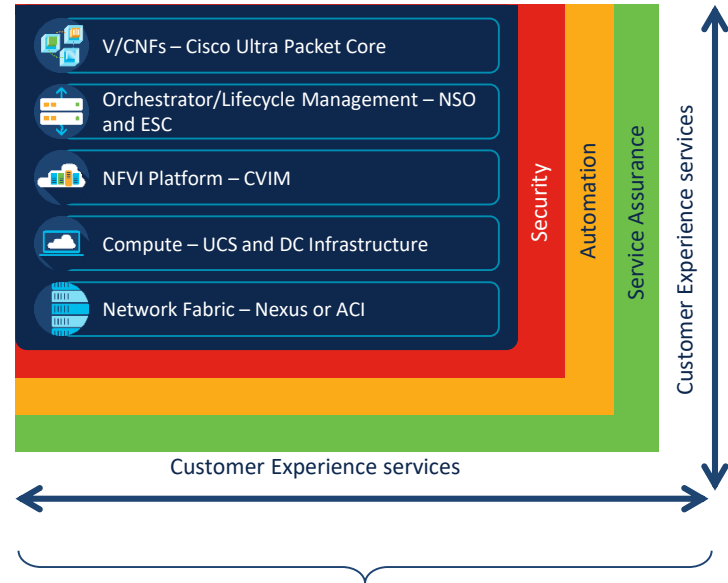
#MWC2109



Cisco Cloud Services Stack for Mobility (“BlueStack”)

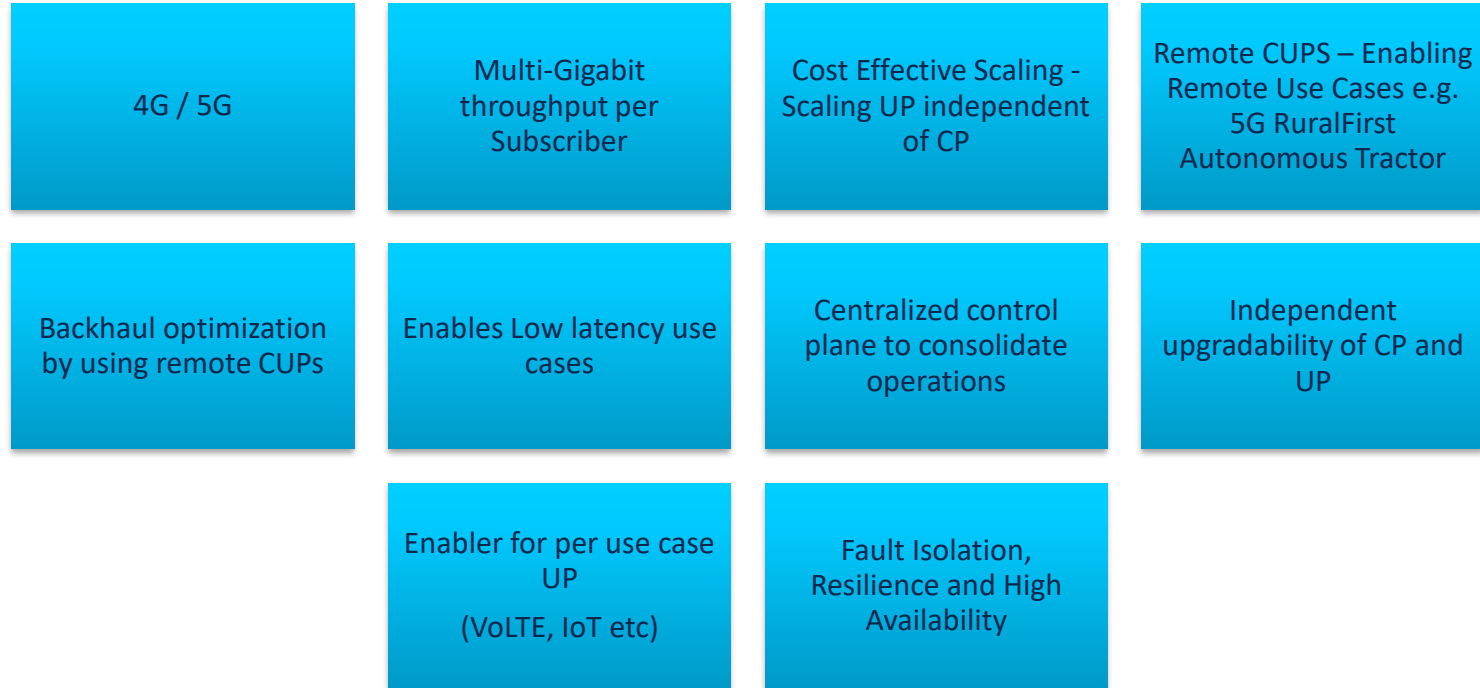
Complete & Open, Horizontal & Vertical Stack for 4G, 5G NSA & 5G SA

- Pre-validated Virtualised Packet Core in a Box – 4G & 5G available today
- “Productized” version of Cisco Ultra Packet Core as deployed in the World’s biggest mobile network – T-Mobile USA
- CUPS – local and remote – 2 x 40 Gb/s+ per server
- Rich range of features for 2G – 5G radio support incl IoT
- Collaboration into 2022 with Cisco 5G Converged Core



System-level functional and performance validation testing in
Cisco® CX Labs

Technology Overview – CUPS Benefits



Why Remote CUPS?

Allows deployment of user planes closer to the user

- Improved user experience
- Helps with applications that need low latency
 - Online gaming
 - Video on demand

Backhaul cost reduction

- Local breakout to local ISP or OTT server saves transport costs

Helps in implementing building enterprise use case

- On-prem deployment of user planes
- Reduces latency to access enterprise applications

MEC Use cases

- Allows implementing use cases for IOT like; connected cars
- Improves the quality of experience for AR/VR applications

Improved operational efficiency

- Fewer central sites to host CPs; can connect to multiple sites hosting UPs
 - Saves CAPEX and OPEX with reduced hardware costs
- Remote sites in low cost locations help reduce electricity and cooling costs

The distributed architecture is applicable across 4G, 5G NSA and 5G SA.

