A Solutions & Business Partnership

Delivering the open infrastructure for 5G networks

Sarvesh Sharma Network Architect - Americas



Usage Trends → Diverse Demands → New Approach

Usage trends are percolating from an urban/sub-urban phenomenon to a nation-wide reality including rural



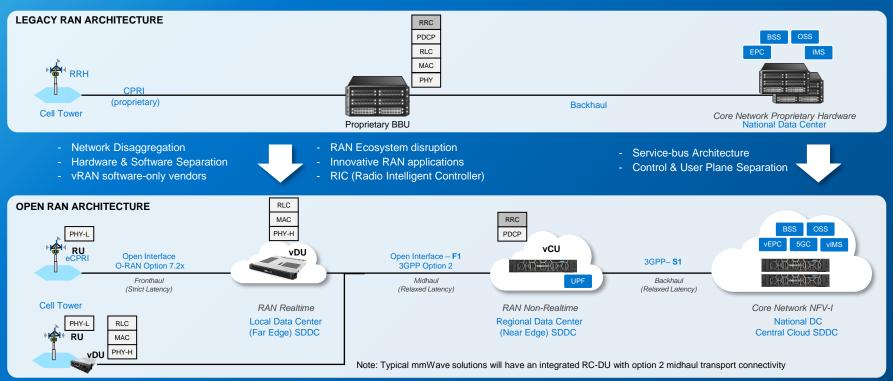
Network Architecture: Based on functional hierarchy → TO → Based on service consumption location

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Legacy to ORAN Architecture Evolution

Provides flexibility and cost efficiencies when building out 5G or consolidating LTE





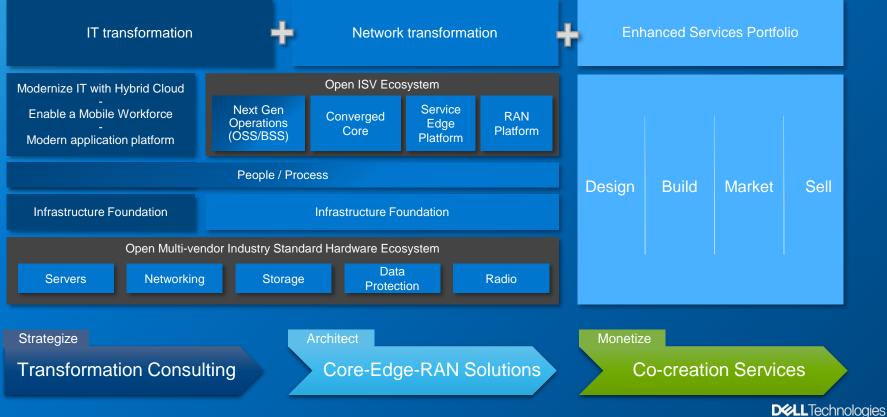








CSP Transformation: The Dell Technologies Difference



Establishing Dell in the Open RAN Ecosystem

Nurturing the ORAN ecosystem with collaboration and facilitation



Founding member, Open RAN lobby group US/Global policy & promotion of Open RAN interoperability & secure supply chain



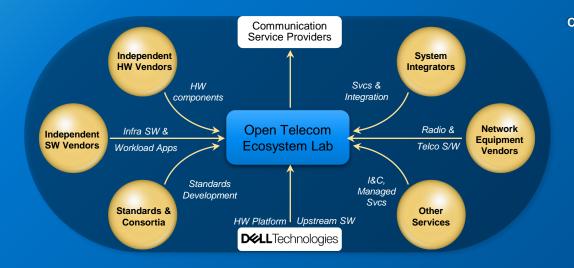
Active in OpenRAN, CU/DU lab Engaged in DCSG, Evenstar projects



Focus in workgroups 1, 4, 6
Active in Germany, France
OTIC labs



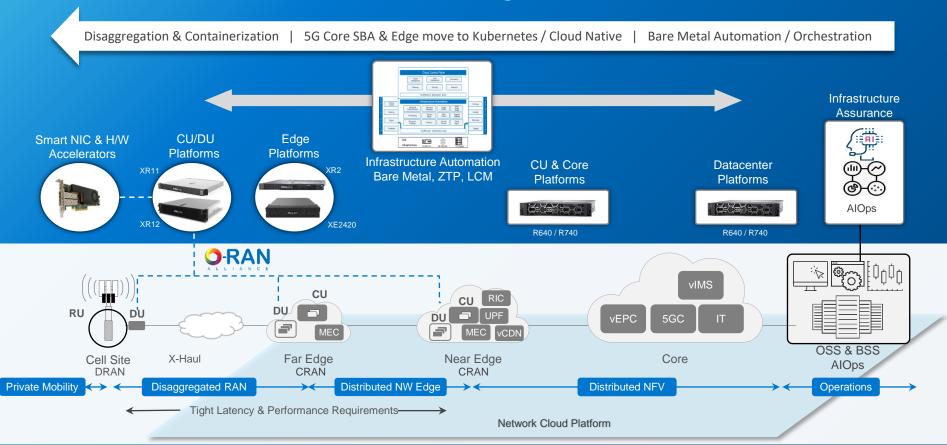
Strong market presence in the early O-RAN market





State of the art, 13,000 sqft lab in RoundRock, TX

Harmonized Platform Offerings



Network Modernization Solution Portfolio

NEXT GEN OPERATIONS



Accelerate digital transformation through advanced analytics, AI / ML and platform automation use cases wherever needed.

CONVERGED CORE



Deliver lower risk, faster cloud native NFV deployments at data center scale with prevalidated VMware or RHOS ready solution & architectures.

SERVICE EDGE PLATFORMS



Transform how people and devices interact with edge digital services enabled by development platforms deployed wherever data demands.

RAN PLATFORMS





Simplify and lower RAN costs, build high performance, open CU / DU systems, and implement open X-haul networking.

Open RAN Ecosystem Partners

Collaborating with partners to bring innovative alternatives to the CSPs



Open RAN and 5G Core Engagements

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- Selected for Open RAN CU/DU with Altiostar, Mavenir & VMware
- XR11 for DU
- Nationwide build-out 2021-2022



- Open RAN MOU / PoC in lab
- 'ORAN Town' multivendor open RAN trial
- Selected for 2021 trials



- Providing CU/DU and Core infrastructure in 5G SA trial (Project Pikeo)
- Active in O-RAN Alliance OTIC lab in France



- Open RAN MOU/PoC with Mavenir in VF lab
- Selected June 2021 for Open RAN HW (XR11) provider in UK build-out



Tier 1 (Greenfield) in Germany

 Dell Hardware for core and RAN servers



 Selected for Open RAN / vRAN Lab trials in 2H2022



5G Cloud Native Platform

 Selected 5G Cloud-Native Core infrastructure & storage build-out nationwide



5GC & Telco Cloud

 5G Cloud native and CNF infrastructure deployment and testing



5G Core

Selected for 5G Core infrastructure deployment, server and storage



Complete Multi-Cloud

 TIM's NFV-I Servers , IT Server and TIM Cloud (B2B)

Dell Technologies as a Services Partner

 With its deep expertise in product development and lifecycle management as well as ability to scale coupled with an industry-leading services delivery organization, we are well-suited for supporting your ORAN plans

End to End Program Management

Day 0 – Design/Build/Integrate

- Solution Analysis and vendor qualification support
- Multi-site Telco Cloud Platform for core & edge
- ✓ Systems Lab Design and Deployment
- Integrate workloads vertically with the Telco Platform
- Integrate vendors horizontally across network functions
- ✓ Network Design (Core, Ran, Transport)
- ✓ Network equipment swap plan

Day 1 - Production

- ✓ Deploy Telco Cloud Platform for core & edge and hydrate with VNFs
- ✓ Cell Site Conversion
- ✓ Site Acceptance
- ✓ Coverage verification
- ✓ Performance optimization

Day 2 - Operate

- ✓ Knowledge Transfer to Handover
- ✓ Managed Operations
- Optional Managed Services

Multi-site Telco Cloud Platform for Core & Edge with Next-gen Automation and Service Enablement

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