Virtualized and interoperable radio access networks

Gerardo Giaretta
Senior Director, Product Management
Qualcomm Technologies, Inc.
5G commercialization moving into the mainstream

40+ Countries with 5G commercially deployed

90+ Mobile operators with commercial live 5G networks

200M 5G handsets expected to ship in 2020

Sources - GSA: 5G Market Snapshot Member Report - June 2020; Qualcomm estimates (2020 projection is at mid-point of guidance range), Nov. '19
5G needs a new kind of network
Evolving the 5G network

Traditional RAN
Combined baseband processing unit + Radio unit

Centralized RAN (C-RAN)
Centralized baseband processing unit

Virtual RAN (vRAN) + MEC
Virtualized baseband processing unit with disaggregation

For better coordination, scalable capacity, faster deployments, lower latency, and new use cases

BBU: Baseband unit; DU: Distributed unit; vBBU: Virtual baseband unit; vCore: Virtual core network; vCU: Virtual central unit; MEC: Multi-access Edge Computing
Qualcomm® 5G RAN Platform for small cells

Cutting edge technology for flexible, virtualized, scalable, and interoperable cellular network infrastructure

Selected by global infrastructure innovators
Announcing expansion of

Qualcomm®

5G RAN Platforms

Building open and innovative cellular infrastructure with high performance Modem-RF System.

Qualcomm Radio Unit Platform, Qualcomm Distributed Unit Platform and Qualcomm Distributed Radio Unit Platform are products of Qualcomm Technologies, Inc. and/or its subsidiaries.
Powering the future of the 5G networks

- High Performance Modem-RF System
- vRAN with hardware acceleration
- Flexible, scalable, O-RAN compatible
- Designed for Macro and Small cells
- Integrated mmWave & Sub-6 GHz solution with Global band Support
Driving transition to Infrastructure 2.0
Powered by extended portfolio of Qualcomm® 5G RAN platforms

Internet and 3rd party cloud
Edge data centers

Virtualized software from multiple vendors
Standard-based open RAN interfaces

Qualcomm
High-performance Modem-RF System

Qualcomm
5G RAN Platforms

- High performance Modem-RF
- Virtualization with hardware acceleration
- Flexible, scalable, O-RAN compatible
- From Macro to Small Cells
- Integrated Sub-6 and mmWave solution
Thank you

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