FCC Open RAN Showcase
End-to-End Open RAN Solutions

Abel Mayal
SVP of Technology & Marketing

July 2021

3 x Major trends pushing Open RAN

Mobile Network Operators

Private Networks

CBRS Market

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MNOs
(Mobile Network Operators)

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Over 1M

Base Stations Shipped Globally

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Rakuten

45,000 Airspan 5G & LTE Base Stations to be Deployed by 2021

Bringing comprehensive 5G and LTE solutions to the world's first fully virtualized cloud-native mobile network

Tareq Amin • 1st
CTO at Rakuten Mobile, Inc. & Group EVP, CAO at Rakuten, Inc.
1d •

Airspan have been a vital partner, they have played a critical role. In delivering our open RAN platform thanks for all their hard work determination and support to our mission and journey

https://lnkd.in/g2zJ2Cx

220 · 3 Comments

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Awards and Recognitions

Qualcomm
Rakuten
5G

EXCELLENCE IN COMMERCIAL DEPLOYMENT: OPEN RAN

Jio

EXCELLENCE IN COMMERCIAL DEPLOYMENT: URBAN

Sprint

GLOMO

2018 Global Mobile Awards
WINNER

WIRELESS NETWORK INNOVATION PRODUCT OF THE YEAR

EXCELLENCE IN COMMERCIAL DEPLOYMENT: URBAN

EXCELLENCE IN COMMERCIAL DEPLOYMENT: RESIDENTIAL

autoair

5G REALISED: USE CASE INNOVATION AWARD 2019

FIXED WIRELESS BROADBAND SOLUTION OF THE YEAR

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Private Networks

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Private Networks

CBRS

Rural, Oil & Gas, Education, Hospitals, Enterprise, Industrial

gogo

5G Air-To-Ground

MILLBROOK

5G Transportation

siticom

5G-encode

COCUS

umlaut

Department for Digital, Culture, Media & Sport

5G Industry 4.0

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Integration and Interoperability are Key for Open RAN

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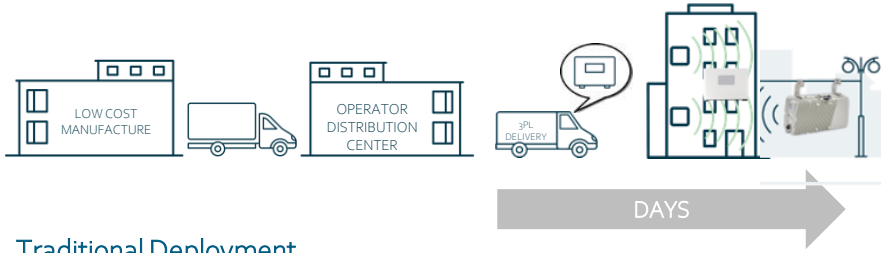
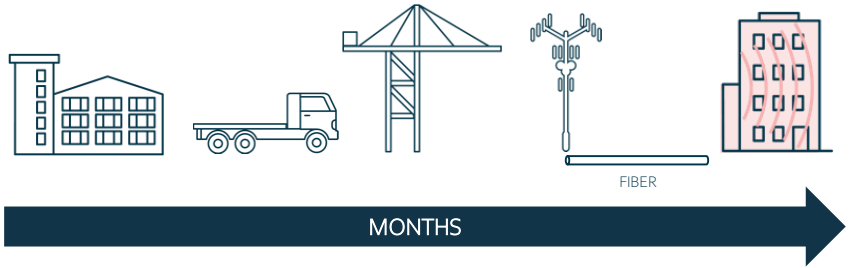
Service provider densification: learned in 4G, critical in 5G

Airspan Deployment



Traditional Deployment



- A supply chain that mirrors cell phones:

QUALCOMM® FOXCONN

- Third party logistics delivery van model
- Plug & play functionality
- Technology partners that scale
- Volume manufacturing and pricing
- Suitable product dimensions

ESSENTIAL PARADIGM SHIFT: CELL SITE PERFORMANCE AT CELL PHONE ECONOMICS

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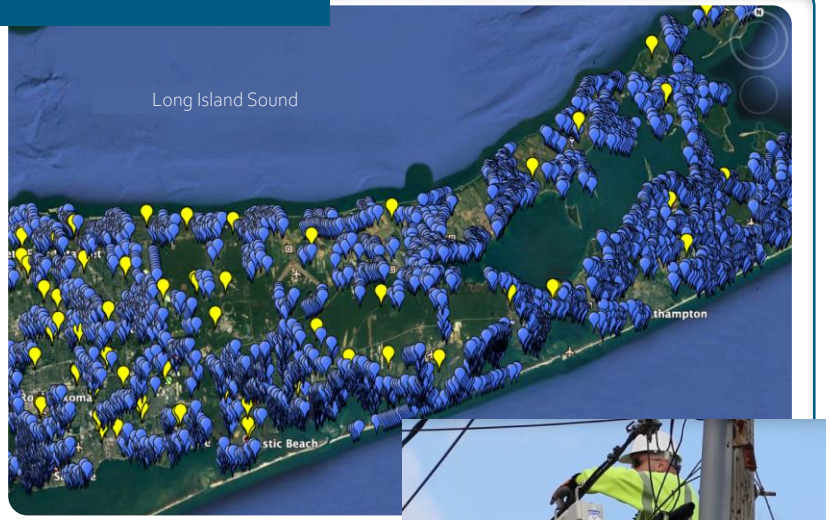
Drastically different network densification between 4G & 5G

Before: Macro model

After: Densified



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Open RAN Products

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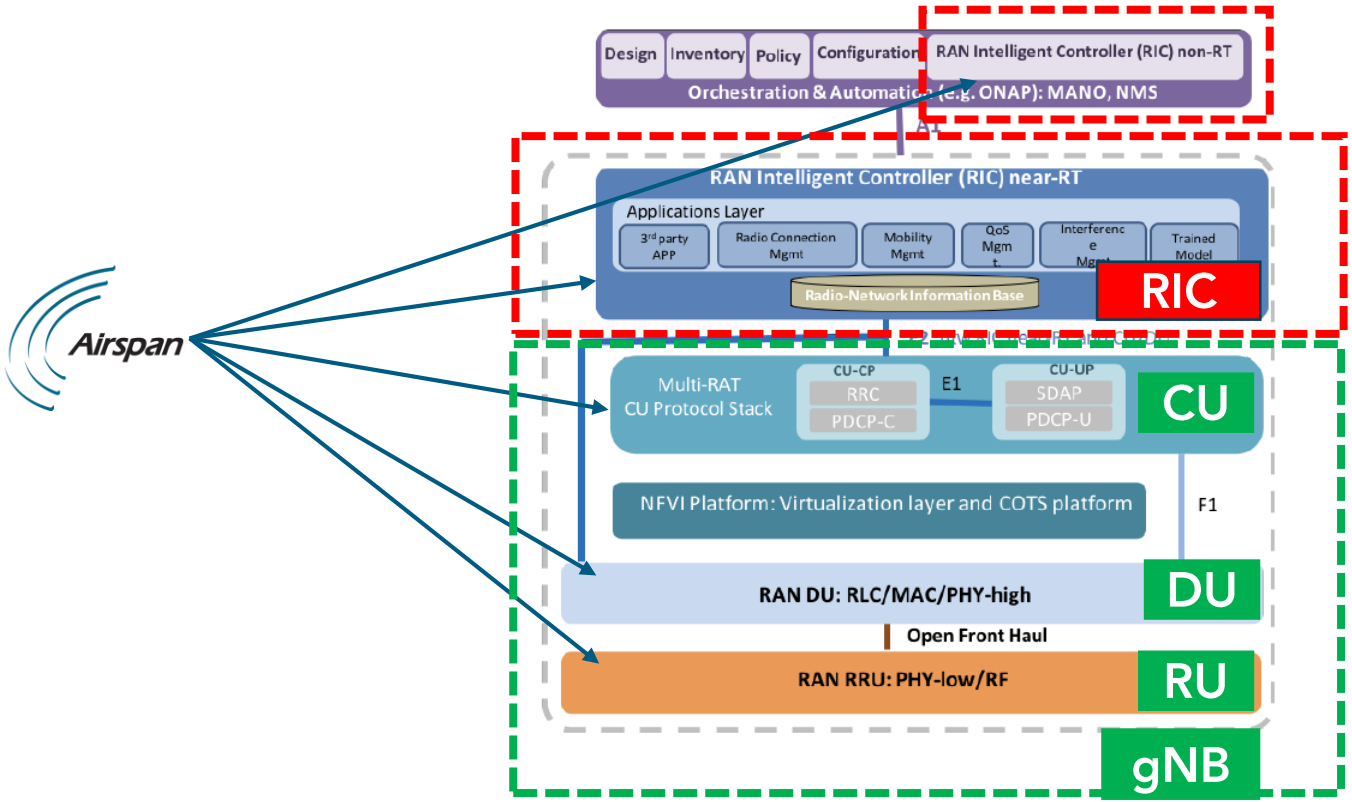
Airspan End-To-End Open RAN Vendor



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5G-NR Software

Software

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OPENRANGE software: cloud native – containerized – virtual

vCU, vDU

Open RAN software: 1 million lines of code defined over 18 generations of releases

- Supports splits 2,6 and 7,2 as defined by 3GPP, O-RAN, TIP and Small Cell Forum as well as full gNB
- Software technology to drive Airspan's open architecture

Airspan Control Platform (ACP)

Complete network function controller & manager

- Deliver management and network orchestration applicable to any customer deployment, including Mobile operators, Private networks and Enterprises
- Provides flexibility to span and control single or multiple technologies, provide automated management and control, and integrate into existing customer systems

RAN Intelligent Controller

Class-leading self optimizing network solution

- Advanced algorithm suite specifically designed to address operators' needs when deploying small cells
- Distributed architecture that scales with the network

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5G-NR Products

Hardware

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5G RU Portfolio. Available Before Jan 1st, 2022

Macro

Air5G 5700
32T32R

Air5G 7200
128T128R
mmWave

Strand

AirStrand 2200
2 x 2T2R

Small Cell Outdoor

AirSpeed 2900/ 1900
2 x 2T2R

Indoor

AirVelocity 6200
64T64R
mmWave

AirVelocity 2700
4T4R

AirStar 1200
2 x 2T2R

Making 5G Open RAN Networks Work

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Thank you

LAYING THE FOUNDATION FOR
OPEN ARCHITECTURE AND 5G

airspan.com

Airspan

Member of:

SMALL CELL FORUM MEMBER

O-RAN ALLIANCE

OnGo alliance

TELECOM INFRA PROJECT

Open RAN POLICY COALITION

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