

O-RAN WG4 활동 현황

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Generation Evolution

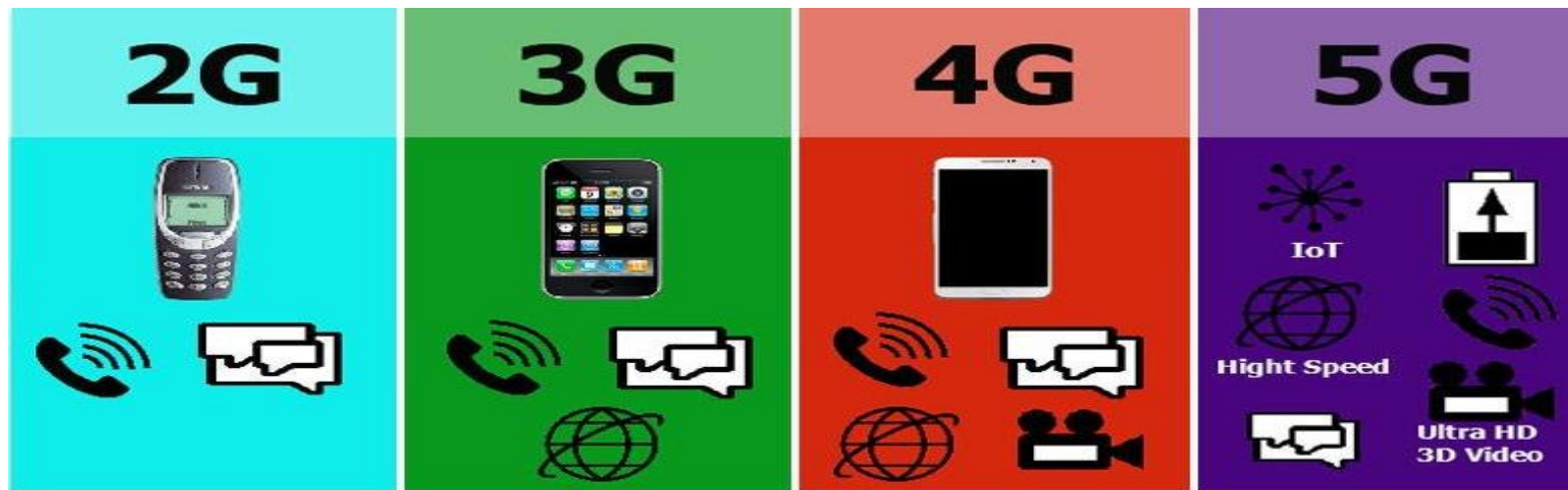
Data Rate  Frequency  Coverage 

Infra. cost

x2 ~ x3

x1.5 ~ x2

x2 ~ x4



분리형 기지국
(Closed IF)



분리형 기지국
(Open IF)

Standardization for

① Ethernet Based

eCPRI protocol

② Interoperability

reduce infra cost



founded by

verizon✓

NTT docomo

NOKIA

NEC

History : Open RAN standard

2016.10



xRAN standard era.

- Founded by **VzW, DCM, NOK, NEC**
- '17.06, Samsung, E/// included

2019.01



2023

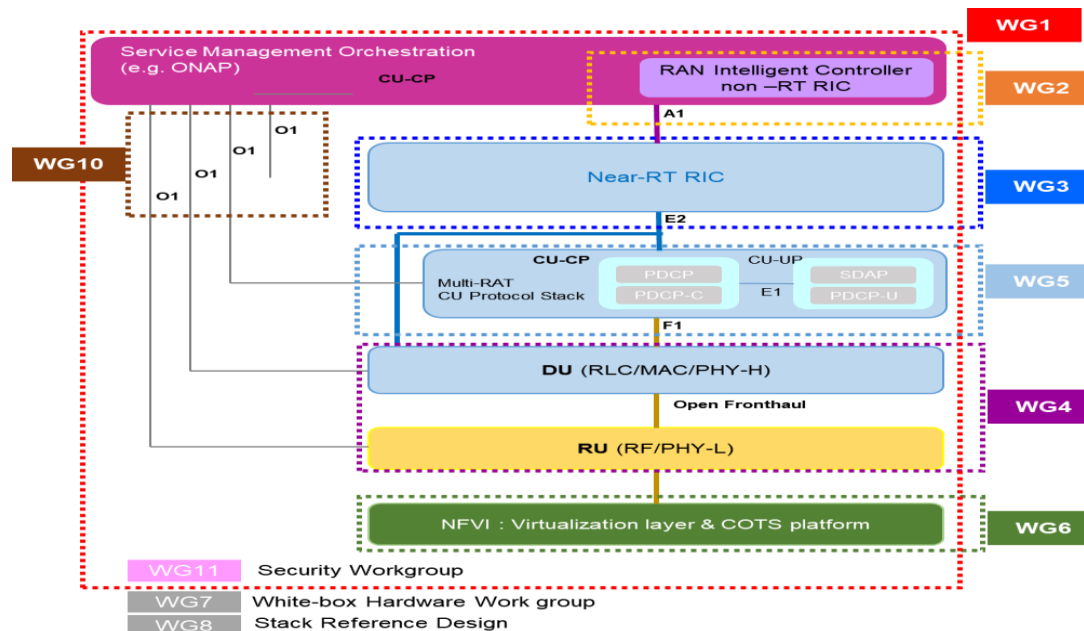
O-RAN standard Globalization

- **Total of 255 members** including 26 Operators, 229 Contributors
- **Huawei Not participating**

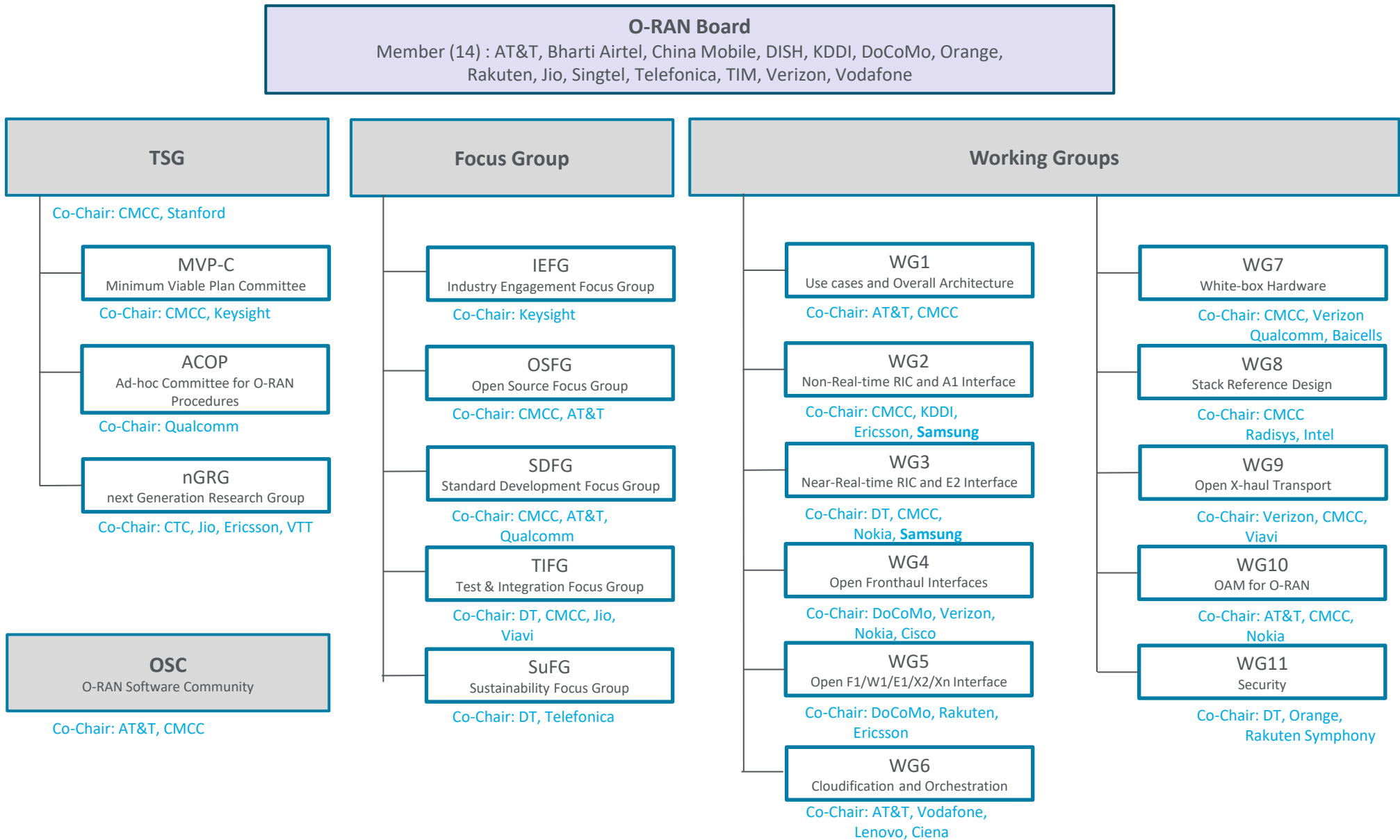
- Fronthaul Interface
(CUS / M - plane)

- Fronthaul Interface Standard Stabilization
- **RIC Standard Set-up**
- **Testing Group Organization** (OTIC 심의)

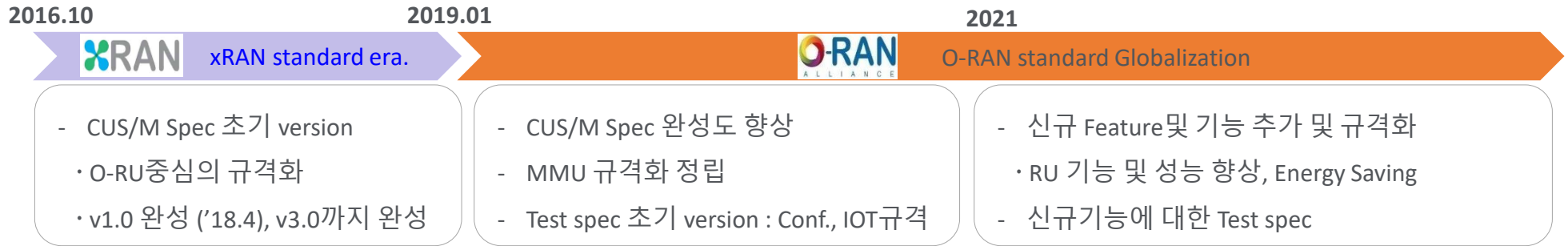
- Fronthaul Interface enhancement
- **Standardization of AI/ML-based RIC**
- **Standardization of SMO**
- **Standardization of O1 Interface**
- **Standardization of Security Framework**
(All security in all RAN)



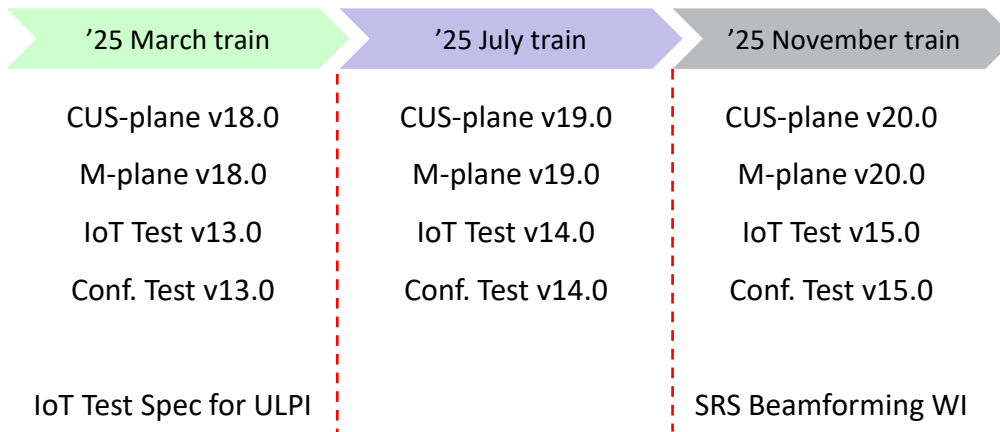
ORAN Alliance structure



Fronthaul Standard



WG4 Deliverable Plan



WG4 work Items

Shared O-RU (2020)

FH Tesing Using 3GPP Methods (2021)

Uplink Performance Improvement (2022)

NB-IoT (2022)

Network Energy Savings (2022)

SRS BF in O-RU (2024)

SAMSUNG