OpenRAN
RU Subgroup

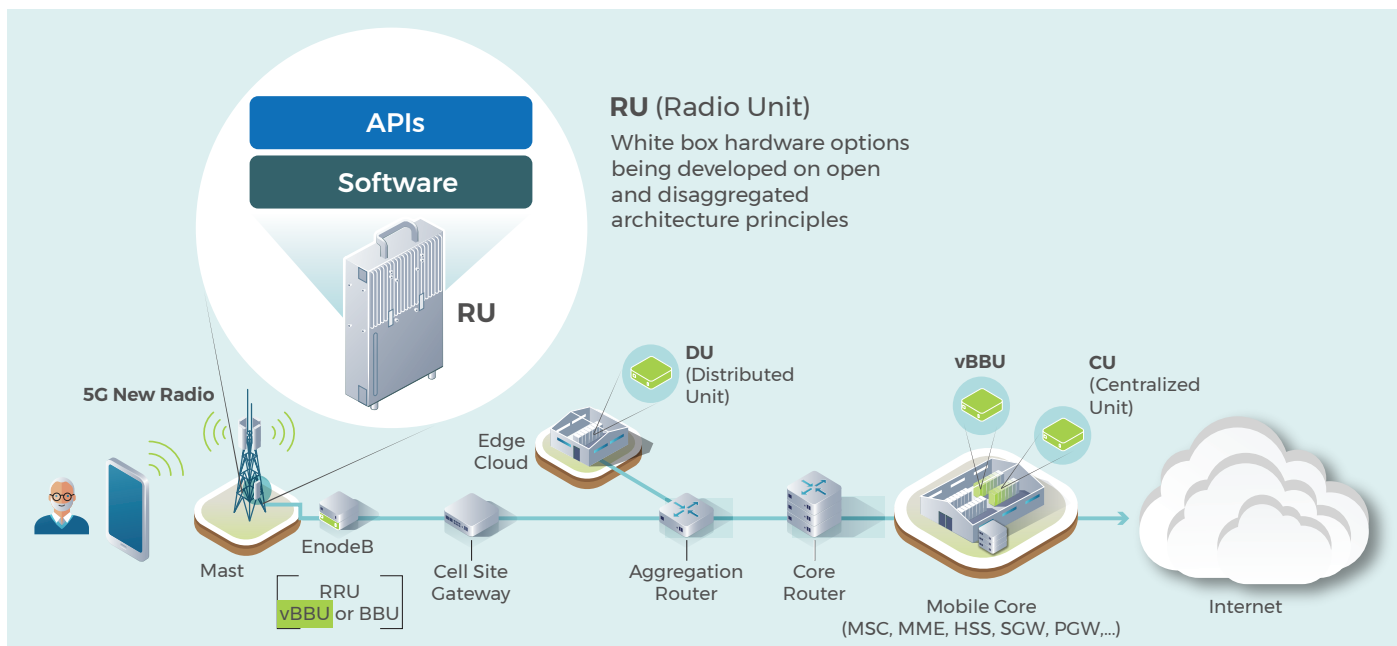TELECOM INFRA PROJECT

Developing RU (Radio Unit) white box HW on open and disaggregated architecture. The white box RU will offer significant deployment and operational cost advantages compared to traditional proprietary base stations in mobile networks.

APIs

Software

RU

RU (Radio Unit)
White box hardware options being developed on open and disaggregated architecture principles

5G New Radio

Mast

EnodeB

RRU
vBBU or BBU

Cell Site Gateway

Edge Cloud

DU (Distributed Unit)

Aggregation Router

Core Router

vBBU

CU (Centralized Unit)

Mobile Core (MSC, MME, HSS, SGW, PGW,...)

Internet

Why RU?

- **This subgroup focuses on defining RU product architecture and requirements** that will need to be met by the OpenRAN system in terms of HW and SW features.

- **This RU sub-group works on harmonizing the technical requirements** from the ecosystem to develop an OpenRAN reference deployment playbook.

At a glance

- **Multiple RU options** for various deployment use cases including single band RU, multi band RU, maMIMO RU.

- **Platform architecture** and HW/SW Requirements.

- **Reference architecture and design requirements** for white box RU for identified deployment use cases, defining requirements, and specifying architecture and designing requirements.

Developments

- **Subgroup launched with VF, Dish and FBC engineering**

- **Collected operator input** and objectives for the subgroup roadmap and use cases

- **Finalized the format of requirements doc**

- **Generated the RRH OpenRAN requirements specifications v1**

What next

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