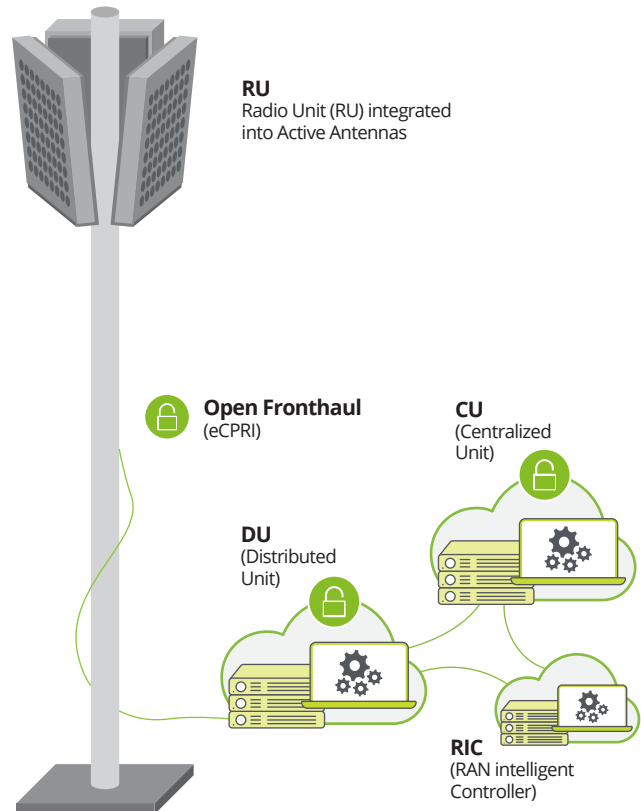
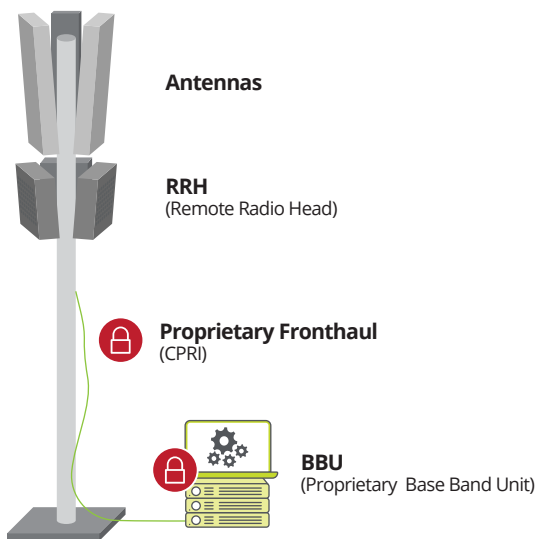


## The Open Future of RAN

Telecom Engineering Centre of Excellence (TEE)

Open and virtualised RAN, Open vRAN, refers to a disaggregated approach of deploying virtualised mobile networks by using **open and interoperable protocols and interfaces**, implemented over a common propose hardware in a multi-vendor software environment, allowing an **increased flexibility** over traditional RAN architectures., aiming to provide **OPEX and CAPEX savings** while **fostering innovation**.



### Traditional RAN

- Protocol stack that runs on proprietary hardware
- Radio Unit and BBU are connected via proprietary interfaces
- Single vendor provides both Radio Unit and BBU

### Open RAN

- Standardized SW-centric approach based on commoditized hardware
- Open standard interfaces that ensure deployment of multi-vendor RU and CU/DU ecosystem, powered by an open-source AI/ML based platform designed for non and near-RT network functions (RIC)



### Openness in RAN

There is a wide recognition of Open RAN's **potential to disrupt the existing marketplace**.

At the same time, the low maturity of the technology presents challenges that need to be addressed.

#### Benefits

- TCO Efficiencies
- Player diversity
- Fosters innovation
- Reduce Time-to-Market

#### Challenges

- Performance & feature parity
- Skills and capabilities
- Interoperability challenges
- Legacy technologies