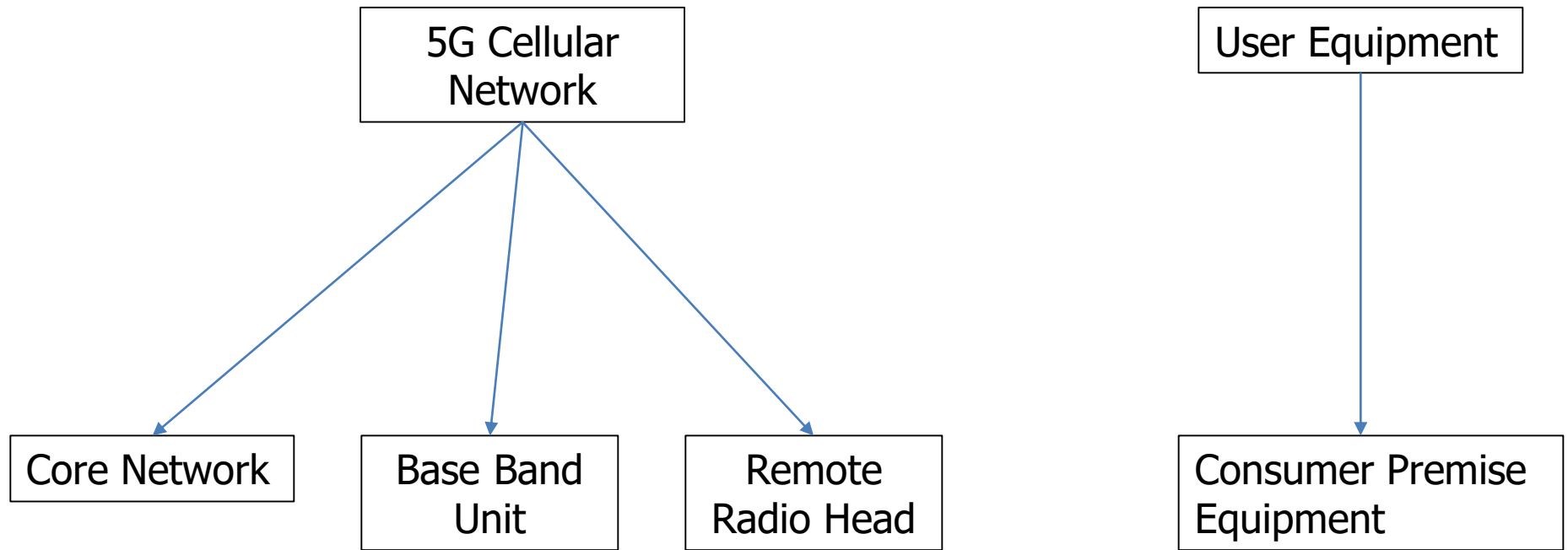


Overview of the Test Bed at IIT Madras

February 2020

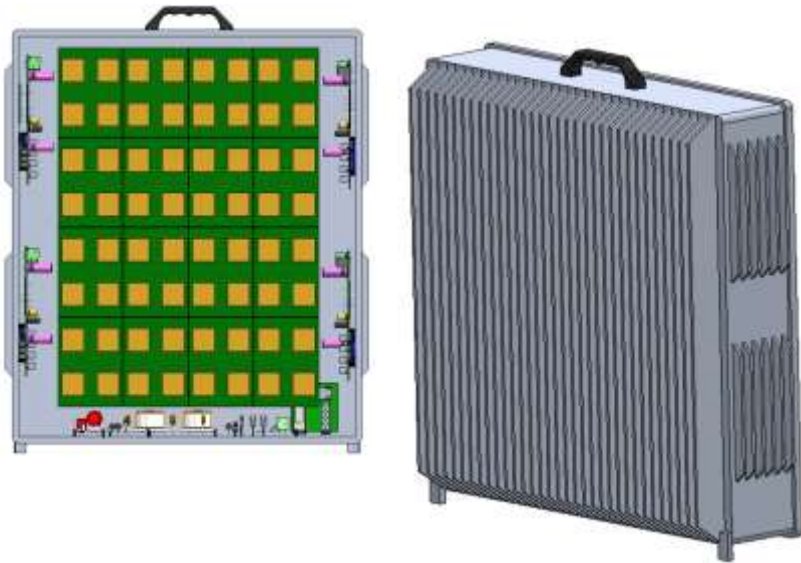
COMPONENTS OF THE 5G TESTBED





- State of the art 5G Labs have been developed across these institutes
 - 5G test equipment (sub 6 GHz and Mmwave)
 - Requisite Software(s)
 - Protocol testers
- Open to outside companies*

Remote Radio Head



- RF front end
- FPGA processing boards
- Thermal solution
- Power solution
- 5G NR Software
- E-CPRI

Features

- 3.5 GHz/28 GHz
- 100 MHz/400 MHz
- 64 Antenna

Base Band Unit



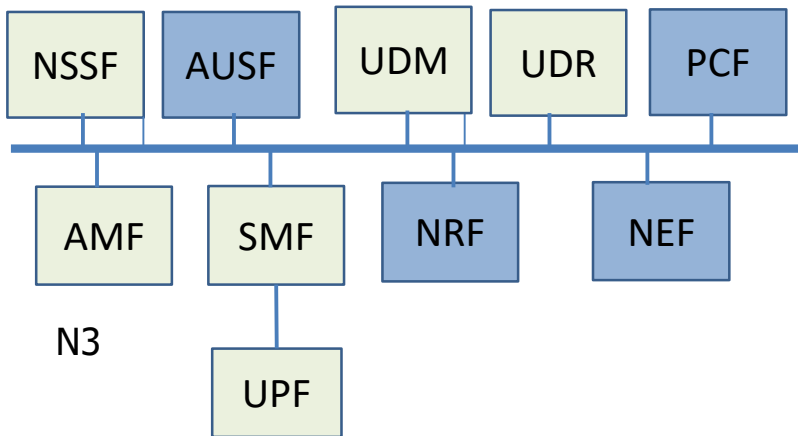
- L1 software
- E-CPRI interface
- FAPI interface
- PCIE interface



Features

- PCie
- Cloud ready
- 4.5 Gbps throughput

Core Network



- Core network software
- Interface to internet

Features

- Based on latest service based architecture
- Virtualized and cloudified
- Orchestrating the 5G network
- 10 Gbps throughput