Open Radio Access Network

Chuxu Song

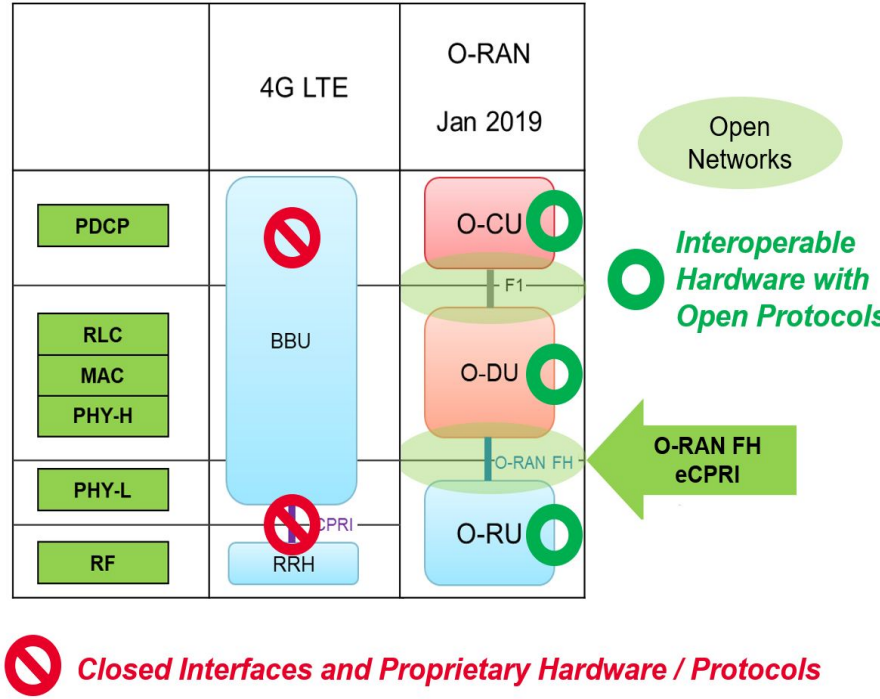
Project motivation

Previous version

- Each vandor have their own hardware and system
- Big companies monopolize the industry
- High cost

ORAN

- Virtualization of RAN components
- COTS(Commercial Off-The-Shelf) hardware



5G Structure

Core network:

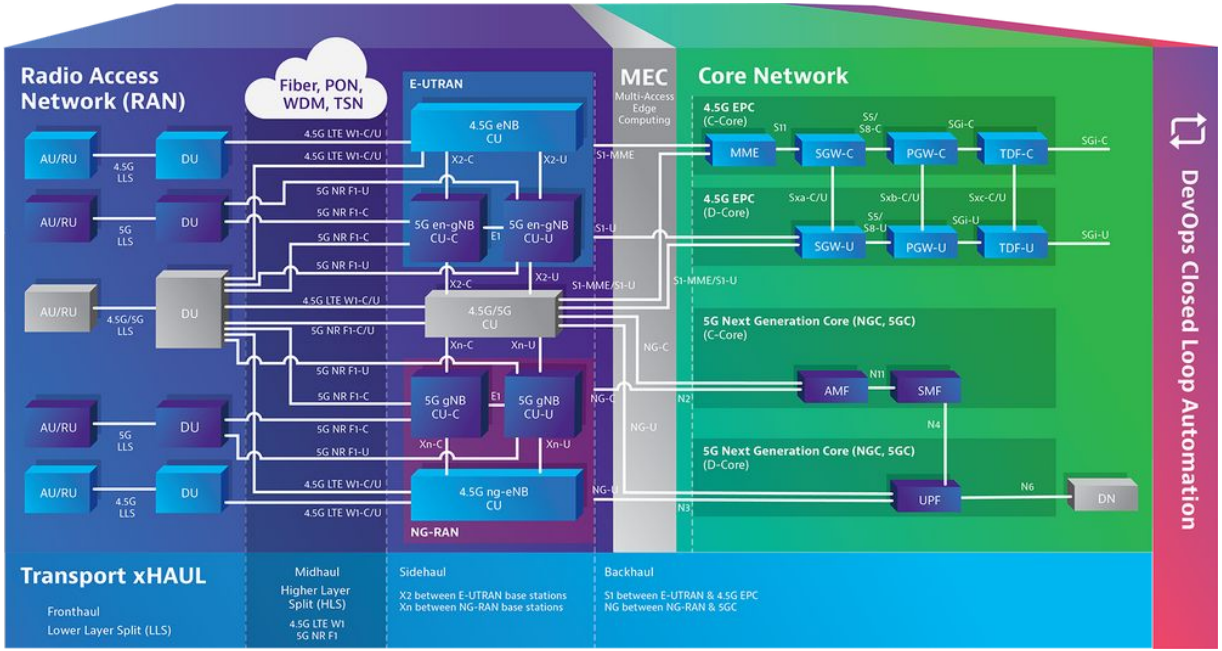
- Provide multiple function
-

Gnodb:

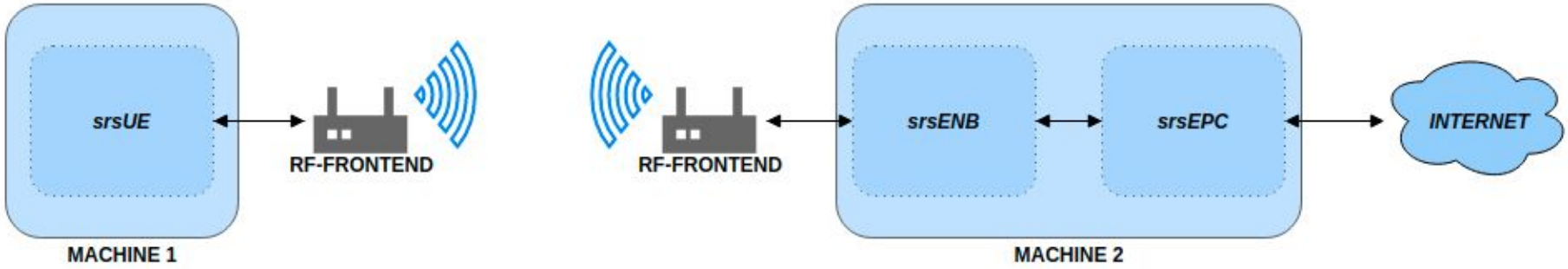
- Basestation
- Transmit radio signal

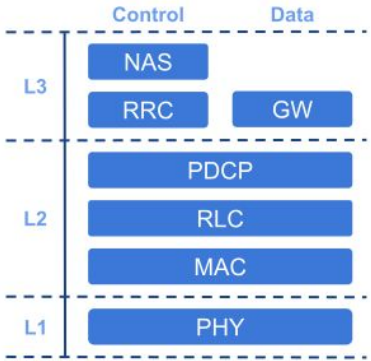
UE:

- User equipment

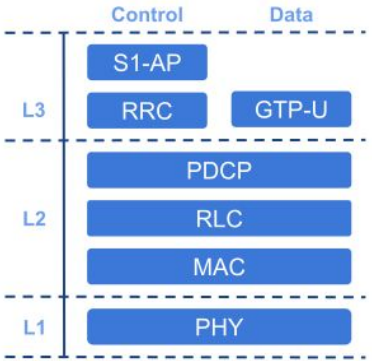


SRS-RAN





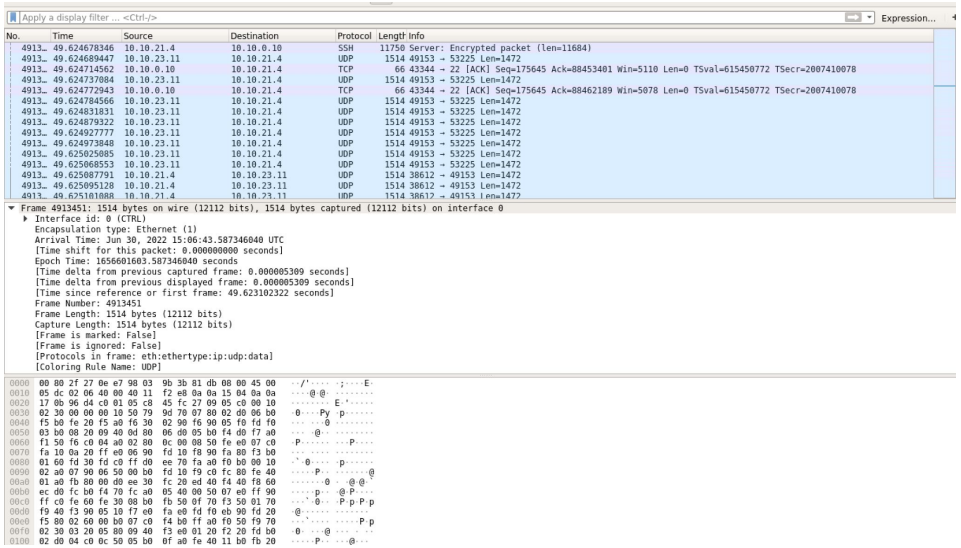
UE architecture

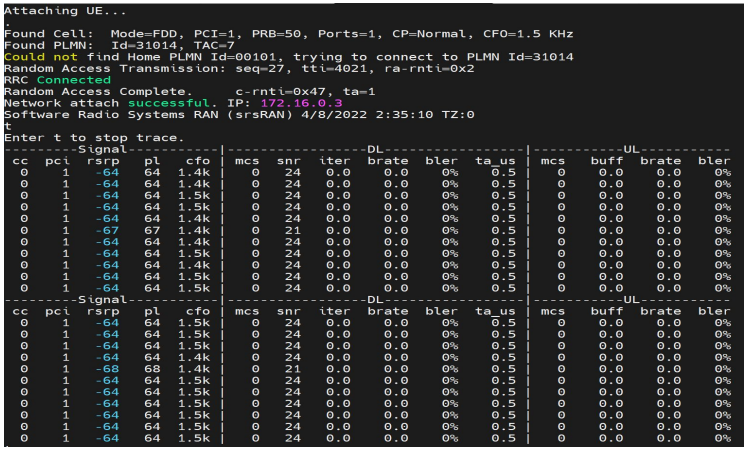


gNodeB architecture

Data collection

Internal ethernet packet trace





Future Plan

Problem:

Gnb and UE connection are very unstable

UE sent context release requests

solution:

Upgrade logfile level

Observe internal interface

Question