3GPP TSG RAN Rel-18 workshop
June 28 – July 02, 2021
Agenda: 4.2 Non-eMBB-driven Functional Evolution
TDOC: RWS-210202
For: discussion

FR2 Mobility Enhancements

Source: Rakuten Mobile

Rakuten Mobile

FR2 Mobility Enhancements

Motivation:

Mobility, such as Handover reliability is one of the area that can be further enhanced in Rel-18 for FR2.

Proposals:

We propose to work on the following topics in Release 18.

1. **L1/L2 based inter cell mobility**
   - The current scope of Beam based inter PCI L1/L2 based handover is being discussed within RAN1/2/3.
   - RAN should continue further enhancements on L1/L2 based mobility such as inter DU L1/L2 HO, support for multiple serving cells like CA for L1/L2 Mobility.
2. **Faster RLF declaration**
   - Radio conditions change rapidly in FR2, however RLF declaration is based on DRX and hence can take few seconds to trigger.RAN1/2 should investigate method to declare Faster RLF especially for FR2
3. **Faster PCell failure recovery via SCell**
   - Like fast MCG Failure recovery in Rel-16, similar faster failure recovery for PCell through SCell in FR2 should be supported.
4. **FR2 DAPS Handover**
   - DAPS handover is excluded for FR2, DAPS based FR2 handover should be supported.
5. **Enhancements of MR-DC**
   - More than active Leg support in Rel-18 along with study on faster SN activation.