

**3GPP TSG RAN Rel-19 workshop  
Taipei, June 15 - June 16, 2023**

**RWS-230083**

**Agenda Item: 5**  
**Source: Spreadtrum Communications**  
**Title: Multi-SIM enhancements for Rel-19**  
**Document for: Discussion and decision**

# Motivation for Rel-19 Multi-SIM

- **Different PLMNs of same operator**
  - In commercial deployment, different PLMNs may belong to a same operator and RAN sharing may be applied. In this scenario, the inter-network communication becomes feasible and some coordination between the two End-to-End communication links can be introduced to improve the performance. E.g.:
    - The paging collision can be solved via inter-network communication.
    - The measurement results of one SIM can be shared for other SIM when multiple SIMs are in same cell or in same gNB, which is beneficial for UE power saving.
    - Some coordination for RRC configuration for different SIMs can be introduced also, e.g. Configuration for measurement and/or DRX can be coordinated within one gNB or between two gNBs.
- **Optimization for UE's comeback to network A**
  - When UE comes back to network A after a short leave due to the connection in network B, it will initiate RACH procedure. In order to guarantee this RACH procedure, dedicated RACH resources in network A can be allocated for the UE before it leaves network A.

# Objectives for Rel-19 Multi-SIM (Led by RAN2)

- **Coordination between networks of same operator:**
  - Specify reporting multi-SIM information of same operator to gNB by UE or Core Network. [RAN2, RAN3]
  - Specify coordination for RRC configurations for two SIMs between two gNBs.[RAN3]
  - Specify cell reselection optimization for two SIMs to camp on same cell. [RAN2]
- **Optimization for the UE's comeback to network [RAN2]**
  - Specify the allocation of dedicated RACH resources for UE's comeback to network A.

# Thanks

