

3GPP TSG RAN Meeting #104
Shanghai, China, June 17-20, 2024

RP-241161



Agenda Item: 9.3.1.2
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Document for: Discussion

Views on Rel-19 duplex evolution



Background

- Overall progress is very well.
- Two topics have check point either in plenary or working group
 - SBFDF operation to UE in RRC_IDLE/INACTIVE mode for random access(RAN plenary)
 - Study and specify, if justified, SBFDF operation to UE in RRC_IDLE/INACTIVE mode for random access [RAN1, RAN2]
 - RAN#104 to check whether to proceed normative work
 - Down-selection on CLI handling schemes(working group)
 - Specify enhancements for CLI handling [RAN1, RAN2, RAN3]:
 - Support gNB-to-gNB co-channel CLI handling scheme(s) (the detailed schemes are to be down-selected from those in TR38.858 by RAN1#117)
 - Support UE-to-UE co-channel CLI handling scheme(s) (the detailed schemes are to be down-selected from those in TR38.858 by RAN1#117)
 - Note: Without dedicated optimization for dynamic/flexible TDD.
- For SBFDF operation to UE in RRC_IDLE/INACTIVE mode for random access, the following agreement was achieved in RAN1#117 meeting.
 - Support random access in SBFDF symbols for UEs in RRC_IDLE/INACTIVE mode.
- For enhancement on CLI handling, the following schemes are identified to be specified in Rel-19.
 - L1 based UE-to-UE CLI measurement and reporting based on existing CSI framework. [RAN1, RAN2,RAN4]
 - UL resource muting for PUSCH. [RAN1, RAN2,RAN4]
 - Information exchange of SBFDF subband configuration, measurement resource configuration and strongest DL beam information.[RAN3]
- No intervention is needed from RAN plenary.
- Rel-19 Duplex evolution WID need to be updated accordingly to reflect the aforementioned progress.

Proposals

- **Proposal 1:** Specify SBFDF operation to UE in RRC_IDLE/INACTIVE mode for random access in Rel-19 and modify the WID for Evolution of NR duplex operation. The following modification is adopted:

- ~~Study and s~~Specify, ~~if justified~~, SBFDF operation to UE in RRC_IDLE/INACTIVE mode for random access [RAN1, RAN2]
- ~~RAN#104 to check whether to proceed normative work~~

- **Proposal 2:** Update the WID for Evolution of NR duplex operation in order to reflect the progress of CLI handling in RAN1. The following modification is adopted:

- Specify enhancements for CLI handling [RAN1, RAN2, RAN3]:
 - Support gNB-to-gNB co-channel CLI handling scheme(s) ~~(the detailed schemes are to be down-selected from those in TR38.858 by RAN1#117)~~, i.e., L1 based UE-to-UE CLI measurement and reporting based on existing CSI framework.
 - Support UE-to-UE co-channel CLI handling scheme(s) ~~(the detailed schemes are to be down-selected from those in TR38.858 by RAN1#117)~~, i.e., UL non-transparent UL resource muting for PUSCH.
 - Support information exchange of SBFDF subband configuration, measurement resource configuration and strongest DL beam information.
 - Note: Without dedicated optimization for dynamic/flexible TDD.



Thanks!