**3GPP TSG RAN Meeting #93-e RP-21xxxx**

**Electronic Meeting, September 13-17, 2021**

**Agenda item:** 9.3.1.1

**Source:** Moderator (Samsung)

**Title:** Moderator’s summary for email discussion [93-e-08-feMIMO-Scope]

**Document for:** Discussion and Decision

1. Introduction and background

Per chairman’s instruction, the goal and pertinent contributions for this email discussion is as follows:

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| [93e-12-feMIMO-Scope] | RP-211677 (RAN4 LS), 1789 (Samsung), 2023 (vivo), 2126 (Ericsson) | Eko Onggosanusi, Samsung | 9.3.1.1 |

The following topics have been discussed in the above contributions:

* (1789, 2023) Overall progress of Rel-17 NR\_FeMIMO:
  + It was pointed out that the overall progress is good per the outcome RAN1#106-e.
  + No discussion is needed on this topic
* (All) Failure to reach consensus on the scope of one of the RAN4 WID objectives (link recovery procedure in FR2 serving cell): “*Investigate if the requirements on link recovery procedure is suitable for FR2 serving cells [RAN4]*”
  + The RAN4 LS RP-211677 requested that RAN discuss and clarify the scope of this objective.
  + More specifically, RP-211789, and 2023 mentioned two alternatives for RAN to choose from (either requiring WID revision):
    - Alt1. Remove this objective from the WID
    - Alt2. Revise this objective with a more specific (clearer) and agreeable scope
  + RP-212126 proposes that RAN remove this objective (i.e. Alt1)
  + Discussion is needed on this topic

1. Initial round

During the initial round, interested companies are encouraged to share their view on the following:

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| Please review section 1 for background summary.  Q1. In regard of the WID objective “*Investigate if the requirements on link recovery procedure is suitable for FR2 serving cells [RAN4]*”, please share your view and preference between these two alternatives:   * Alt1. Remove this objective from the WID * Alt2. Revise this objective with a more specific (clearer) and agreeable scope   + If this is your preference, what would be a proper clarification on the scope? |

* 1. Compilation of companies’ inputs

Table 1 Inputs

|  |  |
| --- | --- |
| **Company** | **View** |
| Mod V0 | **Please share your view on the above Q1** |
| vivo | Our preference is alt1, i.e., to remove the objective in question from WID |
| Huawei, HiSilicon | For Q1, consider the left time for R17 and the workload, we are fine to remove it.  By the way, in our contribution (2146), we also discussed a few topics are progress slow, e.g., fast UL panel selection/switching and advanced beam refinement/tracking. For UL panel selection/switching, till now there is no fundamental agreements, and is still discussing panel definition. For advanced beam refinement/tracking, it is still in study phase. In the last two meetings, they may be difficult to be completed. So, may consider to postpone them to R18. |
| Samsung | In our understanding, this objective was initially setup with target on potential enhancement on link recovery procedure and corresponding requirements. However, given RAN2 is not responsible WG for this bullet, without any update on the link recovery procedure, it is challenge for RAN4 to enhance the link recovery procedure requirements. The discussion on the impacts to link recovery procedure requirements including TRP specific BFD/CBD is ongoing under the separate objectives, i.e., mTRP scenarios in Rel-17. Considering above, we suggest to remove the objective in the WID, i.e, we support Alt 1. |
| Apple | Our preference is to remove the aforementioned RAN4 objective. |

* 1. Summary and moderator proposals

During the initial round, based on the collected inputs in section 2.1, the following **observation** can be made:

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| **Proposed way forward (WF) 1 (after the initial round)**:  *On the scope of Rel-17 NR\_FeMIMO:* |

1. Intermediate round
   1. Summary and moderator proposals
   2. Summary and moderator proposals

# References

1. RP-211586 Revised WID: Further enhancements on MIMO for NR Samsung