**3GPP TSG-RAN WG4 Meeting #111 R4-24XXXXX**

**Fukuoka, Japan, 20th – 24th May, 2024**

**Title:** WF on [111][140] RRM\_Spec\_Improvement

**Agenda Item:** 12.1

**Source:** Apple

**Document for:** Approval

# On how to organize this work

* Agreements:
  + Use the dedicated TEI18 agenda for 5G RRM specification improvement from RAN4#112

# On identified issues to be addressed in RAN4#112

* Agreement:
  + Issue1: [], “TBD” and “FFS” clean up
    - The case, which is not an obvious editorial revision and subject to the technical discussion, should be listed separately and excluded from this exercise.
  + Issue2: Terminology/style inconsistency, incorrect notation/symbols/abbreviation, undefined abbreviations, redundant information/notes clean up
    - If the revision results in an update in Section 3, TS38.133, it should be indicated separately.
    - The case, which is not an obvious editorial revision and subject to the technical discussion, should be excluded from this exercise.
  + Issue3: Empty test cases clean up
    - Empty test cases in Annex A of TS 38.133 can be made void
  + The work split among the interested companies is indicated in the attached table. Only volunteered companies are expected to bring a draft CR in RAN4#112.
    - The draft CR should be based on the latest version of TS38.133 after RAN#104.
    - The proposed revision should be strictly limited to the aforementioned three issues
    - If needed, a separate discussion paper can be used to summarize the untouched cases which may be subject to further technical discussion.

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| * Sections | Page number | # of pages | Volunteer company |
| Foreword  1          Scope  2          References  3          Definitions, symbols and abbreviations  4                SA: RRC\_IDLE state mobility | 259 | 408 pages | Apple |
| 5                SA: RRC\_INACTIVE state mobility | 74 |
| 6                RRC\_CONNECTED state mobility | 75 |
| 7                Timing | 26 | 330 pages | BeammWave |
| 8                Signalling characteristics | 304 |
| 9                Measurement Procedure | 444 | 444 pages | Nokia |
| 10             Measurement Performance requirements | 183 | 365 pages | Ericsson |
| 11          void |  |
| 12             V2X Requirements | 45 |
| A.1           Purpose of annex  A.2           Requirement classification for statistical testing  A.3           RRM test configurations | 137 |
| A.4           EN-DC tests with all NR cells in FR1 | 519 | 519 pages | LGE |
| A.5           EN-DC tests with one or more NR cells in FR2 | 410 | 410 pages | Huawei |
| A.6           NR standalone tests with all NR cells in FR1 | 935 | 935 (can be further split if needed) | Company1:Ericsson |
| Company2: |
| A.7           NR standalone tests with one or more NR cells in FR2 | 843 | 843(can be further split if needed) | Company1: |
| Company2: |
| A.8           E-UTRA standalone tests for NR RRM | 90 | 395 pages |  |
| A.9           V2X Tests | 70 |
| A.10        EN-DC Tests with NR PSCell under CCA and Other NR Cells in FR1 | 235 |
| A.11        NR Standalone Tests with NR PCell under CCA and Other NR Cells in FR1 | 315 | 315 pages |  |
| A.12        E-UTRA Standalone Tests with at Least One NR Cell under CCA | 150 | 446 pages |  |
| A.14        NR standalone tests for Satellite access | 237 |
| A.15        NR standalone tests with one or more NR cells in FR2-2 | 59 |
| A.16        NR standalone tests with all NR cells in FR1 for RedCap | 656 | 656 pages |  |
| A.17        NR standalone tests with one or more NR cells in FR2 for RedCap | 202 | 470 pages |  |
| A.18        E-UTRA standalone tests for NR RRM for RedCap | 53 |
| A.19        NR standalone tests for ATG | 120 |
| Annex B (normative): Conditions for RRM requirements applicability for operating bands | 95 |

# On identified issues to be addressed for R19 newly introduced features

Agreement:

* In principle it is agreed to include references or mapping tables in the core part requirements that point to the relevant test cases from Rel-19
  + FFS on the feasibility and the detailed guideline for drafting rules in future meetings.

# On other issues

Agreement:

* The summary of other identified issues, where RAN4 has not yet decided if, when and how to address, is listed as below. Depending on the discussion in both RAN4 and RAN, these issues and the associated guideline for drafting rules, can be revisited.
  + Hierarchy of indent
  + Suffix alignment
  + Unused test configurations
  + Duplicated requirements
  + Modal verbs

# On CR handling

Agreement:

* Continue using the big CR approach in RAN4
  + FFS on the improvement of big CR approach if needed in the future meetings.