**3GPP T****SG-RAN WG2 Meeting #115-electronic R2-210xxxx**

**Online, August 16th – August 27th, 2021**

**Title:** [Draft] Reply LS on RRM relaxation in power saving

**Response to:** R4-2108230/R2-2106959

**Release:** Release 16

**Work Item:** NR\_UE\_pow\_sav-Core

**Source:** CATT, Ericsson [To be RAN2]

**To:** RAN4

**Cc:** -

**Contact Person:**

#### Name: Pierre Bertrand, Mattias Bergström

#### E-mail Address: [pierrebertrand@catt.cn](mailto:pierrebertrand@catt.cn), mattias.a.bergstrom@ericsson.com

**Send any reply LS to:** 3GPP Liaisons Coordinator, <mailto:3GPPLiaison@etsi.org>

**Attachments:** N/A

**1. Overall Description:**

RAN2 would like to thank RAN4 for the LS on RRM relaxation in power saving. RAN2 has discussed the inconsistency raised in the LS between RAN2 and RAN4 specifications and concluded the following:

1) RAN2 agreed to follow the request from RAN4 for the change to 38.304 on RRM relaxation on inter-frequency layers/E-UTRA inter-RAT frequency layers of higher priority for the case when the *lowMobilityEvalutation* criterion is fulfilled and when *highPriorityMeasRelax* is configured, referring to clauses 4.2.2.10.2 and 4.2.2.11.2 in 38.133.

2) RAN2 also noted that in RAN4 specifications, for the case when both *lowMobilityEvalutation* and *cellEdgeEvaluation* criteria are fulfilled, referring to clauses 4.2.2.10.4 and 4.2.2.11.4 in 38.133, the UE shall search for inter-frequency layers/E-UTRA inter-RAT frequency layers at least every hour (for example, below extract for inter-frequency layers):

|  |
| --- |
| 4.2.2.10.4 Measurements for UE fulfilling low mobility and not-at-cell edge criterion  This clause contains requirements for measurements on inter-frequency NR cells provided that:  - T331 timer is not running for EMR measurements on inter-frequency NR carrier, and  - UE is configured with both *lowMobilityEvalutation* [2] criterion and *cellEdgeEvaluation* [2] criterion, and  - Has also fulfilled both criteria, and  - less than 1 hour have passed since measurements for cell reselection were last performed  In this case the UE is not required to meet Tdetect,NR\_Inter, Tmeasure,NR\_Inter and Tevaluate,NR\_Inter as defined in Table 4.2.2.4-1. |

Given the above includes the case when Srxlev > SnonIntraSearchP and Squal > SnonIntraSearchQ this would result, for frequency layers of higher priority, in a less relaxed measurement requirement (1 hour measurement interval) compared with the case when only the *lowMobilityEvalutation* criterion is fulfilled (1 hour \* Nlayers measurement interval), RAN2 kindly asks RAN4 whether this change (1 hour -> 1 hour \* Nlayers) should also apply to the case when both *lowMobilityEvalutation* and *cellEdgeEvaluation* criteria are fulfilled, for consistency, or if RAN2 misinterpreted RAN4 specifications.

**2. Actions:**

RAN2 respectfully asks RAN4 to provide their view on the above question.

**3. Date of Next RAN2 Meetings:**

TSG-RAN WG2 Meeting #116-e 1st – 12th November 2021 E-meeting