3GPP TSG-RAN WG2 Meeting #118-e draftTdoc R2- 2206509

Electronic Meeting, May 9th - 20th, 2022

**Title:** [DRAFT] Reply LS on configuring margin for 1 Rx RedCap UEs

**Response to:** LS on configuring margin for 1 Rx RedCap UEs (R4-2206951)

**Release:** Rel-17

**Work Item:** NR\_redcap-Core

**Source:** Ericsson (To be RAN2)

**To:** RAN4

**Cc:**

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:**

**1. Overall Description:**

RAN2 would like to thank RAN4 for the LS on configuring margin for 1 Rx RedCap UEs. RAN2 has considered RAN4’s recommendation in the LS and agreed that it would be beneficial to apply an offset to compensate for the relatively poor accuracy measurement performance of 1 Rx RedCap UEs.

RAN2 would like RAN4 to confirm RAN2’s understanding that a RedCap UE with 1 Rx branch applies the offset to all cell-specific RSRP thresholds which are applicable to RedCap, i.e., not only the thresholds explicitly mentioned in the LS from RAN4 in R4-2206951, except the cases on RRM relaxation below.

RAN2 would like to ask RAN4 whether a RedCap UE with 1 Rx branch applies offset to Rel-16 low mobility and/or not at cell edge conditions, and Rel-17 stationery and NACE criteria for idle/inactive state.

RAN2 would also like to ask RAN4 whether a RedCap UE with 1 Rx branch can apply the offset also to the following cell specific parameters to compensate cell (re)selection:

* minimum required Rx level in the cell (dBm), i.e., *Qrxlevmin*
* minimum required quality level in the cell (dB), i.e., *Qqualmin*

**2. Actions:**

**To RAN4**

**ACTION:** RAN2 kindly asks RAN4 the following:

- to confirm RAN2’s understanding that a RedCap UE with 1 Rx branch applies the offset to all cell-specific RSRP thresholds which are applicable to RedCap except the case below.

- whether a RedCap UE with 1 Rx branch applies offset to Rel-16 low mobility and/or not at cell edge conditions, and Rel-17 stationery and NACE criteria for idle/inactive state.

- whether a RedCap UE with 1 Rx branch can apply the offset also to the cell specific parameters *Qrxlevmin* and *Qqualmin* to compensate cell (re)selection.

**3. Date of Next TSG-RAN WG2 Meetings:**

TSG-RAN WG2 Meeting #119 22nd - 26th Aug 2022 e-Meeting

TSG-RAN WG2 Meeting #119bis-e 10th - 26th Oct 2022 e-Meeting