**3GPP TSG RAN WG2#115-e Draft R2-2109130**

**e-Meeting, 9th - 27th August, 2021**

**Title: Draft** LS to RAN1 on L2 buffer size reduction

**Reply to:**

**Release:** Rel-17

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

**Source:** Intel, Spreadtrum [to be RAN WG2]

**To:** RAN WG1

**Cc:**

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**Attachments:** R2-2108891, R2-2109103

**1. Overall Description:**

RAN2 discussed several following options for L2 buffer size reduction for Rel-17 RedCap in RAN2#114 and RAN2#115 (see R2-2108891) but did not reach any conclusion.

* + ***Option 1****:”Introduce a new scaling factor, which may take values of 0.25x, 0.5x, 0.75x, 1.0x and is applied to the total L2 buffer size specified in subclause 4.1.4 in TS 38.306.*
  + ***Option 2.1:*** *The scaling factor for peak DL rates specified in subclause 4.1.2 in TS 38.306, which currently may take values of {0.4, 0.75, 0.8, 1}, is reused for RedCap UEs but with the removal/relaxation of the constraint on the minimum value for single carrier NR SA operation.*
  + ***Option 2.2****: The scaling factor for peak DL rates specified in subclause 4.1.2 in TS 38.306, which currently may take values of {0.4, 0.75, 0.8, 1}, is extended to include new smaller values of {0.1, 0.2} for RedCap UEs, with the removal/relaxation of the constraint on the minimum value of the product as applicable for single carrier NR SA operation.*
  + ***Option 3:*** *no change, i.e. keep L2 buffer size definition and equations in TS 38.306.*
  + ***Option 4:*** *Up to RAN1.*

As this is related to RAN1, RAN2 respectfully ask RAN1 to discuss L2 buffer size reduction and provide feedback to RAN2.

**2. Actions:**

**To RAN1 group**

**ACTION:** RAN2 respectfully ask RAN1 to discuss L2 buffer size reduction and provide feedback to RAN2 .

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

TSG-RAN2 Meeting #116-e 1-12 November 2021 Electronic Meeting

TSG-RAN2 Meeting #117-e 17-26 January 2022 Electronic Meeting