3GPP TSG RAN WG2 Meeting #114-e R2-21xxxxx

e-Meeting, 19th – 27th May, 2021

**Title: Draft Reply LS on overlapped data and SR with equal L1 priority**

**Response to: R1-2102244**

**Release: Rel-16**

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

**Source:** **RAN2**

**To:** **RAN1**

**Cc:**

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**Attachments:** N/A

# 1 Overall description

RAN2 would like to appreciate the LS on overlapped data and SR are of equal L1 priority. RAN2 has discussed and would like to provide RAN2 understandings with agreements.

For case, 2-1 and case 4, RAN2 made the following agreement in RAN2#114-e:

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| * We go with Understanding 1: MAC does not use knowledge of UCI multiplexing when MAC executes LCH based prioritization and deciding when to transmit SR (i.e. in the context of the cases listed in R2-2105781) |

Thus, for case 2-1, the intended MAC layer behaviour is Understanding 1, as follows:

* Understanding 1: MAC is not aware of the UCI multiplexing in PHY, MAC does not know whether the final PUCCH overlaps with the PUSCH or not, MAC only knows configured PUCCH resource for SR. Therefore, MAC can decide to deliver SR or PUSCH.

Also for case 4, the intended MAC layer behaviour is Understanding 1, as follows:

* Understanding 1: MAC is not aware of the UCI multiplexing in PHY, MAC does not know whether the final PUCCH overlaps with the PUSCH or not, MAC only knows configured PUCCH resource for SR. Therefore, MAC can send both SR and PUSCH to PHY, based on current RAN1 specification TS 38.213, PHY will multiplex other UCI(s) i.e., HARQ-ACK/CSI in the PUSCH and does not transmit SR.

For case 2-2 and case 3, RAN2 made the following agreement in RAN2#113bis-e:

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| * Confirm the WA that LCH based prio has higher priority than UL skipping still applies, and we expect that if there are issues, RAN1 will come-back. |

Thus, for case 2-2 and case 3, the intended MAC layer behaviour is Understanding 2, as follows:

* Understanding 2: the LCH based prioritization check is prioritized over the UL skipping-related check in MAC. Therefore, the SR in the LS is prioritized in MAC and is delivered and MAC shall not deliver the MAC PDU for the PUSCH.

# 2 Actions

**To RAN1**

**ACTION:** RAN2 respectfully asks RAN1 to take the above into account.

# 3 Dates of next TSG RAN WG2 Meetings

TSG-RAN WG2 Meeting #115-e 16th – 27th August 2021 E-meeting

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