3GPP TSG-RAN WG2 Meeting #121 DRAFT R2-2300XXX

**Athens, Greece, 27 February – 03 March 2023**

**Title: [DRAFT]** Reply LS on potential de-synchronisation of a multicast MRB’s PDCP HFN and SN

**Response to:** R3-226903/ R2-2300039

**Release:** Release 17

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

**Source:** Nokia [TSG RAN WG2]

**To:** TSG RAN WG3

**Cc:**

**Contact Person:**

**Name:** Subin Narayanan

**E-mail Address:** subin.narayanan@nokia.com

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

**Attachments:** -

**1. Overall Description:**

RAN2 would like to thank RAN3 for the LS.

RAN2 has discussed the questions raised by RAN3 and would like to answer the following:

- if the received PDCP PDU of the MBS multicast MRB is outside of the UE PDCP receiving window, the UE shall discard the PDCP PDU without updating the PDCP state variables. There can be up to half of the PDCP SN space discarded.

- if a gNB knows that the HFN may be desynchronised, the gNB could probably cope with a received PDCP Status Report containing an HFN value desynchronised from the one used at the gNB. This, however, unnecessarily complicates the gNB behaviour.

- PDCP specification does not allow COUNT value to wrap around. Given that PDCP SN is derived from CN SN, RAN2 welcomes RAN3 to provide the solution if any.

**2. Actions:**

**To RAN3 group.**

**ACTION:** RAN2 respectfully asks RAN3 to take the above responses into account when completing Rel-17 MBS multicast.

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

RAN2#121-bis-e from 2023-04-17 to 2023-04-26 Electronic

RAN2#122 from 2023-05-22 to 2023-05-26 Incheon