**3GPP TSG-RAN WG3 #112-e R3-21xxxx**

**17 – 28 May 2021**

Title: [DRAFT] Reply LS on LS on User Plane Integrity Protection for eUTRA connected to EPC

Response to: LS on User Plane Integrity Protection for eUTRA connected to EPC (R3-211459/S3-210563)

Source: Qualcomm Incorporated [to be RAN3]

To: SA3, RAN2, CT1, CT4, SA2

Cc:

**Contact Person:**

Name: Luis Lopes

Tel. Number:

E-mail Address: llopes@qti.qualcomm.com

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

Attachments: None

**1. Overall Description:**

RAN3 thanks SA3 for the received LS on User Plane Integrity Protection for eUTRA connected to EPC.

RAN3 can provide the following feedback on the questions raised by SA3:

1. *(RAN 2 and RAN 3) when supporting UP IP do you have any feedback on whether it should be supported with NR PDCP or LTE PDCP or both?*

**Answer**: As the impact is mostly on RAN2 protocols, RAN3 can follow RAN2’s proposed way forward, i.e. to support UP IP for NR PDCP in rel-17.

1. *(RAN 3 and CT 1) is a MME mandated to copy all the EEA/EIA bits from NAS signalling into the S1-AP signalling?*

**Answer**: RAN3 thinks the MME may copy all the EEA/EIA bits from NAS to S1-AP. However, RAN3 is not aware of a clear mandate on the MME to copy all EEA/EIA bits from NAS signalling into S1AP, and so cannot rule out that some implementations may not do so.

1. *(RAN 3) is a legacy eNB mandated to copy all the EEA/EIA bits from S1A-AP signalling into the X2-AP signalling at handover and secondary node addition?*

**Answer**: RAN3 thinks that a reasonable implementation would use this copy/paste behaviour since the Information Elements are defined in exactly the same way across both interfaces, and the capabilities can be seen as part of the UE context in the RAN. However there is no explicit mandate on eNBs for this behaviour.

**2. Actions:**

**To SA WG3, CT1, CT4, RAN2 and SA2**

**ACTION:** RAN3 kindly asks the above groups to take the above information into account and provide further updates as needed.

**3. Date of Next RAN3 Meetings:**

RAN3#113-e 16 – 27 August 2021 Electronic meeting