**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:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](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 only 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 eNB may copy all the EEA/EIA bits from S1-AP signalling into X2AP signaling. 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