**3GPP TSG-SA WG2 Meeting #154AH S2-221XXXX**

**Emeeting, Jan 16 - 20, 2022**

Title: [Draft] Reply LS on PDU Set Handling

**Response to:** **LS on PDU Set Handling (R2-2213351)**

**Release:** Release 18

**Work Item:** FS\_ XRM/XRM

**Source:** CATT [TSG SA WG2]

**To:** TSG RAN WG2, RAN WG3

**Cc:** TSG SA WG4

**Contact Person:**

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

**Attachments:** -

**1. Overall Description:**

**Q1:**In order to decide how PDU sets could be mapped in radio protocols, RAN2 is wondering if different PDU sets could have different characteristics (for instance importance, PSER, and/or PSDB) and if so, which characteristics can be different and with which granularity (e.g. QoS flow, individual PDU Sets…).

**SA2 Answer:** SA2 has agreed to define new PDU Set QoS Parameters (i.e. PSER, PSDB, PSII) for the PDU Set-based QoS handling. In addition, the PDU Set importance information included in the GTP-U header is used to identify the importance of a PDU Set within a QoS flow. RAN may use it, for example, for PDU Set level packet discarding in presence of congestion, and/or for treating PDU sets with different priorities when competing with other traffic data for a radio resource.

**Q2:** RAN2 would also like to know whether different types of PDU set can be mapped to the same QoS flow and if so whether RAN should have the ability to treat those differently over the air interface. If RAN should have such an ability, RAN2 would like to know based on what information signalled to the gNB this would be based on.

**SA2 Answer:** SA2 has agreed that different PDU Sets of an XR traffic stream are mapped onto the same QoS Flow, associated with that XR traffic stream. The PDU Set QoS Parameters are provided to the RAN along with a PDU Set importance information as part of the QoS profile. The PDU Set importance information is used by the RAN to associate the PDU Set QoS Parameters to the PDU Sets with the same PDU Set importance information.

**Q3:** In some of the mapping options considered by RAN2, PDU sets may reach the receiver out of sequence. Thus, RAN2 would like to know whether in-sequence delivery of PDU sets should be provided to upper layers.

**SA2 Answer:** From SA2 point of view, in-order delivery of PDU Sets of a given QoS Flow should be provided by RAN as in legacy.

**2. Actions:**

**To RAN2 and RAN3 group**

**ACTION:** SA2 kindly asks RAN2 and RAN3 to take the above into account.

**3. Date of Next TSG SA WG2 Meetings:**

SA2-Ad Hoc Jan 16 – 20, 2023 E-meeting