**Title: LS out on the** **N6 PDU Set Identification**

**Response to: S4-230465 | S2-2303849**

**Release: Rel-18**

**Work Item: 5G\_RTP, XRM, NR\_XR\_enh**

**Source:** **3GPP SA4**

**To:** **3GPP SA2, RAN2**

**Cc: RAN1**

**Contact person: Shuai Zhao, Shuaizhao@intel.com**

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

**Attachments: S4-230719**

# Overall description

SA4 thanks SA2 for confirming the progress of the normative work timeline. As indicated in S4-230419, the new RTP header extension under SA4 5G\_RTP will signal the PDU set information, including PDU set sequence number, PDU set boundary indication, PDU sequence number within a PDU set, PDU set size, and PDU set importance.

During SA4#123-e, it was agreed to add a 3-bit End of Data Burst indication in the new header extension. SA4 has committed to progressing the semantics of the fields and developing normative guidelines for the Application Server on how to populate the fields of the RTP header extension for the supported media codecs. Upon completing such an effort, SA4 will continue to provide guidelines on how the UPF may extract some of the supported PDU set information from existing RTP/SRTP headers, header extensions, and payloads in case the newly defined RTP header extension is absent.

In addition to marking the last PDU of the data burst, SA4 sees benefit in using additional bits to indicate inter-burst time, which may change dynamically due to various reasons including application-layer rate control. SA4 believes that this can enable the RAN to switch to the most appropriate power state. SA4 kindly requests feedback from SA2 and RAN2 on the value and feasibility of the such solution and if that can be supported within Rel. 18 timeframe.

SA4 is also defining the SDP signaling of the usage of the RTP header extension based on RFC8285. This allows the AF to receive certain PDU set information and pass it along to the PCF/NEF using the N5/N33 interface procedures. The header extension configuration should be shared with the UPF, and SA4 will provide the relevant configuration information to SA2/CT3 for this purpose.

# 2 Actions

**To SA2**

**ACTION:**

1. SA4 would like to ask SA2 to consider the above and provide any feedback on the attached document.
2. SA2 is kindly requested to provide feedback on the feasibility and value of introducing additional signaling related to the End of Burst within the Rel-18 timeframe.

**To RAN2:**

**ACTION:**

1. SA4 would like to kindly ask RAN2 to provide feedback on the feasibility and value of having additional signaling related to End of Burst and inter-burst time within Rel-18.

# 3 Dates of next TSG SA WG 4 meetings

SA4#124 22nd–26th May 2023 Berlin, Germany

SA4#125 21st- 25th August 2023 Gothenburg, SE

SA4#126 13th-17th November 2023 Chicago, US