**Title: [Draft] LS out on the** **N6 PDU Set Identification**

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

**Release: Rel-18**

**Work Item: 5G\_RTP**

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

**To:** **3GPP SA2, RAN1, RAN2**

**Cc:**

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

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

**Attachments:** None

# 1 Overall description

SA4 thanks SA2 for acknowledging the progress of the normative work timeline. As indicated in SA4-230419, 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. In addition to marking the last PDU of the data burst, SA4 is also considering a solution ~~where~~ if ~~the~~ additional bits ~~can~~ may be used to indicate if the idle period between the two bursts is greater than some meaningful threshold that can enable the RAN to switch to the most appropriate power state. SA4 kindly requests feedback from SA2, RAN1 and RAN2 on the feasibility of such solution and if that can be supported within Rel. 18 timeframe.

The 5G\_RTP release-18 normative work focuses on designing the new RTP header extension and providing guidelines on how UPF can utilize it for extracting PDU set information. After such effort is completed, SA4 may continue to provide guidelines on how UFP can extract PDU set information from existing RTP/SRTP headers, header extensions and payloads when the new header extension is absent.

In general, the parameters of PDU set information will be carried as plain text in the new RTP header extension, meaning the new header extension itself is integrity-protected but not encrypted. SDP may be used to signal particular fields, such as PDU set size information. ~~However, the design of the new header extension is still in progress.~~ SA4 will also provide the guidelines on signaling the PDU set information for the new header extension, which may not be completed by May 2023.

~~SA4 would like to point out that a 3-bit End of Data Burst indication was agreed to the PDU set information header extension at SA4 #123-e. In addition to marking the last PDU of the data burst, SA4 is also considering a solution where the additional bits can be used to indicate if the idle period between the two bursts is greater than some meaningful threshold that can enable the RAN to switch to the most appropriate power state. SA4 kindly requests feedback from SA2 on the feasibility of enabling this signalling in the 5GC within Rel. 18 timeframe.~~

# 2 Actions

**To SA2**

**ACTION:** SA4 would like to ask SA2 to take above into account and provide feedback on the feasibility of introducing additional bits to indicate idle period for power saving within Rel-18 timeframe.

**To RAN1, RAN2:**

* **ACTION:** SA4 would like to ask RAN1 and RAN2 to provide feedback on the feasibility of introducing additional bits to indicate idle period for power saving 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 Goteborg, SE

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