3GPP TSG-SA WG4 Meeting #129-e S4-241454

**Online, 19 – 23 August 2024**

Title: LS Reply to SA2 on FS\_XRM Ph2

Response to: LS (S2-2407351/S4-241422) from SA2

Release: Release 19

Work Item: FS\_XRM Ph2, FS\_5G\_RTP\_Ph2

Source: SA WG4

To: SA WG2, RAN WG2

Cc: RAN WG3

**Contact Person:**

Name: Serhan Gül

E-mail Address: serhan.guel AT nokia DOT com

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

Attachments: None

**1. Overall Description:**

SA4 thanks SA2 for the LS on FS\_XRM Ph2 (S2-2407351/S4-241422) and would like to provide the feedback as following:

* **Question1 [for SA4, RAN2 and RAN3]:**
  + SA2 discusses indicating periodicity via in-band signaling (i.e. in GTP-U) for dynamic changes of the periodicity and kindly asks RAN2 and RAN3 to feedback on that approach.
  + To SA4: is it possible for application server to provide the periodicity to the PSA UPF in RTP header extension?.

**Reply 1:** Yes, the periodicity can be included, provided that the sender implementation supports it. However, SA4 views periodicity as static information tied to the media frame rate rather than a value that can vary with each burst. Therefore, SA4 would not recommend sending it over the user plane for dynamic adjustments. SA4 is considering the time to the next burst (TTNB) instead of periodicity for signaling of current dynamic traffic characteristics via RTP header extension.

* **Question2 [for SA4 and RAN2]:** There is some discussion about time to next burst.
  + To SA4: is it possible that the application server provides the time to next burst (i.e. the time interval between the current burst and the next burst) in the 1st packet of the burst via N6?

**Reply 2:** Yes, it could be possible depending on the sender implementation and connectivity between the sender and 5G System. If no N6 jitter is present, senders can estimate how much time it will take to send all packets in a data burst and determine the start time of the next burst within an implementation-dependent error margin. Therefore, the application server can provide an estimate of TTNB in the first packet of the burst. However, a more accurate estimate could be provided if TTNB is sent in the last packet of the burst. SA4 is studying the issue in Key Issue #12: “Enhancements of Data Burst Marking” of FS\_5G\_RTP\_Ph2 as documented in clause 5.12 of draft TR 26.822 and kindly asks RAN2 to provide feedback on the feasibility of sending TTNB in the last packet of the burst.

**2. Actions:**

**To SA2:**

**ACTION:** SA4 kindly asks SA2 to take the above into account and provide feedback if any.

**To RAN2:**

**ACTION:** SA4 kindly asks RAN2 to answer the question in Reply 2 above and provide feedback if any.

**3. Date of Next SA4 Meetings:**

SA4#130 18th Nov – 22nd Nov 2024 Orlando, FL, USA

SA4#131 17th Feb – 21st Feb 2025 Geneva, Switzerland