**3GPP TSG-WG SA2 Meeting #153E e-meeting *S2-220XXXX***

**Elbonia, October 10 – 17, 2022 (revision of S2-220xxxx)**

Title: [DRAFT] LS on ultra-low latency communication applications to use RAN feedback on periodicity for scheduling

Release: Release 18

Work Item: FS\_5TRS\_URLLC

Source: [Samsung to be] SA2

To: SA1

Cc:

**Contact Person:**

Name: Moon, Sang-Jun

Tel. Number:

E-mail Address: moonst AT samsung DOT com

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

Attachments: None

**1. Overall Description:**

In the release 18, SA2 is study “timing resiliency and TSC and URLLC enhancements” which is specified in the TR 23.700-025. SA2 is concluding the KI#6 “Adapting downstream scheduling based on RAN feedback for low latency communication” as described in clause 8.4 of TR 23.700-25

SA2 is discussing whether some service requirement does exist for the industrial application which need ultra-low latency communication, e.g. 2ms or 3ms. The scenario is only applied for Proactive feedback case and,

* The application support periodicity adaptation, e.g. assumed periodicity 3ms with range (2ms~5ms).
* The application indicate periodicity and related Burst arrival time windows to 5GS, e.g. (periodicity-1 and range, BAT window-1).
* The 5GS forward such information to NG-RAN, and NG-RAN will notify proposed periodicity value and related BAT offset.
* The 5GS indicate this to AF. So the AF can send the traffic accordingly.

There is an editor’s note related to Proactive feedback: “Editor's note: Whether periodicity values are provided will be determined in a future meeting based on SA1 feedback.” SA2 thinks the periodicity (transfer interval) of the application needs to be set to match the RAN TDD interval (cycle) for the adaptation mechanism as described in clause 8.4 of TR 23.700-25.

Question:

* SA2 would like to ask whether dynamic periodicity adjustment requirement does exist for the (industrial) application which needs ultra-low latency communication.

**2. Actions:**

**To SA1 group.**

**ACTION:** SA2 asks SA1 group to kindly provide the feedback of the above question.

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

TSG-SA2 Meeting #154 Nov 14 – 18, 2022 Toulouse

TSG-SA2 Meeting #154AH Jan 16 – 20, 2023 Elbonia