**3GPP TSG-WG SA2 Meeting #140E e-meeting *S2-2005745***

**August 19 – Sept. 2, 2020, Electronic**

Title: [DRAFT] LS on Use of Survival Time for Deterministic Applications in 5GS

Release: Rel-17

Work Item: FS\_IIoT

Source: 3GPP SA WG2

**To:** **3GPP RAN WG2**

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Cc: 3GPP RAN WG3

**Contact Person:**

Name: Devaki Chandramouli

Tel. Number:

E-mail Address: Devaki.chandramouli@nokia.com

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

Attachments: -

**1. Overall Description:**

3GPP SA WG2 has studied a key issue for introducing “*Use of Survival Time for Deterministic Applications in 5GS”* and selected the solutions as the basis for normative work. One of the basic principles of the agreed conclusions is that SMF determines TSCAI Survival Time and sends it to the NG-RAN together with QoS profile. The Survival Time in TSCAI may be defined, assuming cyclic traffic of the deterministic application:

1. in units of “time” where each unit corresponds to the data burst periodicity defined in TSCAI in Rel-16; or
2. as the maximum number of consecutive message transmission failures (e.g., Ethernet PDUs or IP PDUs).

i) and ii) are intended to be equivalent in determining the application’s tolerance to loss. Note that there may be more than one message transmission in one data burst.

**2. Actions:**

**To 3GPP RAN WG2**

**ACTION:**

SA WG2 kindly requests 3GPP RAN WG2&3 to take into account SA2’s conclusion of sending Survival Time in TSCAI from SMF to NG-RAN. It’s up to RAN WG to discuss how NG-RAN uses Survival Time for the QoS handling.

SA WG2 also kindly requests 3GPP RAN WG2 to provide their feedback on the preference of Survival Time definition of i) or ii) as defined above.

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

TSG-SA2 Meeting #141 xx - yy October 2020 TBD