**3GPP TSG-RAN WG2 Meeting #115-e R2-210xxxx**

**E-Meeting, August 2021**

**Title: [Draft]** LS on Tx Profile

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_SL\_enh-Core

**Source:** RAN2

**To:** SA2, CT1

**Cc:**

**Contact Person:**

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

**Attachments:** none

**1. Overall Description:**

In RAN2#115-e meeting, RAN2 decided to introduce Tx profile and thus made the following agreement. The TX profile is at least used for Rel-17 UE to know whether it should apply SL DRX or not, considering Rel-16 UE does not support SL DRX. Similar to the Tx Profile for LTE PC5 RAT, the contents of the Tx Profile for NR PC5 RAT are transparent to upper layer of the UE.

Agreements on TX profiles:

1: For GC/BC, TX profile is introduced in Rel-17 for sidelink enhancement. FFS whether a TX profile identifies a Release, or one or more sidelink feature groups.

2: RAN2 understand a service type can be mapped to a TX profile, i.e. V2X and ProSe.

3: A TX profile is indicated from upper layer to AS layer. FFS whether a TX profile needs to be provided with service type information or L2 id.

4: For GC/BC, a Rel-17 TX UE shall only assume SL DRX for the RX UEs when the associated TX profile corresponding to support of SL DRX. FFS whether a TX profile needs to be provided with service type information or L2 id.

5: For GC/BC only communication, a Rel-17 RX UE determines SL DRX is used if all service types/L2 ids of interest have an associated TX profile corresponding to support of SL DRX. A Rel-17 RX UE enables SL DRX operation for a service type/L2 id with the associated TX profile.

6: For UC, for SL transmissions after PC5-RRC connection is established, no backward compatibility issue of SL DRX is assumed, i.e. backward compatibility is handled based on PC5-RRC UE capability signalling.

7: Send an LS to SA2 to inform them of the RAN2 agreements related to TX profile.

**2. Actions:**

**To SA2**: RAN2 respectfully requests SA2 to perform the following actions

1. Send feedback to RAN2 if any concern on the agreements above;
2. Take the above agreements into account in the future work if no concern.

**3. Dates of Next TSG-RAN WG2 Meetings:**

TSG RAN WG2 Meeting #116-e 1 November– 12 November 2021 eMeeting

TSG RAN WG2 Meeting #117 21 February – 25 February 2022 Athens, GR