**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.

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