**3GPP TSG-RAN WG2 Meeting #111-e R2-200xxxx**

**Online, 20 – 30 April 2020**

**Title: [DRAFT]** LS on UE capability

**Response to:**

**Release:** Rel-16

**Work Item:** 5G\_V2X\_NRSL

**Source:** OPPO [To be RAN2]

**To:** RAN1

**Cc:** RAN4

**Contact Person:**

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**Attachments:**

**1. Overall Description:**

For the RAN1 feature list on V2X, RAN2 would like to request feedback from RAN1 a on the following questions.

**Q1**: In the received latest version of RAN1 feature list, there is a following NOTE referring to an undefined table “Table 5.2E-1” in 38.101-1. RAN1 is respectfully asked to provide feedback on how it should be corrected (e.g., to “Table 5.2-1” or “Table 5.2E.1-1”).

Note: configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in 38.101-1 Table 5.2E-1

**Q2**: In the received latest version of RAN1 feature list, there is a component defined in FG 15-2 (for NR) / 5-2 (for LTE)

Up to 8 configured grants can be configured for a UE.

Considering RAN2 has agreed in RAN2#109bis that

8: For SL capability report on Uu-RRC, introduce MAC parameters: a) LCP restriction, b) Logical channel SR-delay timer, c) Multiple CGs.

RAN2 understands in FG 15-2 (for NR) / 5-2 (for LTE), the “8 configured grants” is for maximum value that the UE supports, while UE reports the specific number of supported configured grants via the agreed capability at RAN2 as follows. RAN1 is respectfully asked to provide feedback if any concern.

| ***multipleConfiguredGrantsSidelink-r16***Indicates whether UE supports 8 sidelink configured grant configurations (including both Type 1 and Type 2) in a resource pool. If absent, for each resource pool, the UE only supports one sidelink configured grant configuration. | UE | No | No | No |
| --- | --- | --- | --- | --- |

**Q3:** In the received latest version of RAN1 feature list, there is a component defined in FG 15-16 (for NR) / 5-11 (for LTE), on simultaneous *transmission* of uplink and sidelink, RAN1 is respectfully asked to provide feedback on how for network to know whether UE support simultaneous *reception* of downlink and sidelink, on the preferred way between the two following solutions:

Alt-1: a separate capability for simultaneous reception of downlink and sidelink is defined as in LTE V2X;

Alt-2: simultaneous reception is automatically supported if the same Uu-BC/PC5-BC is reported to support simultaneous transmission of uplink and sidelink;

**Q4:** In the received latest version of RAN1 feature list, there is a NOTE defined for 15-2 (for NR) / 5-2 (for LTE) and 15-3 (for NR) / 5-3 (for LTE), there is a NOTE:

Note: the UE supports up max(B, C) as the total number of sidelink HARQ processes across both Mode 1 and Mode 2

Since RAN2 has agreed in RAN2#109-E that no simultaneous mode-1 and mode-2,

10: Simultaneous operation of NR Sidelink Mode 1 and 2 is not supported for a UE performing transmission of NR sidelink communication.

the NOTE above is not to be captured. RAN1 is respectfully asked to provide feedback if any concern.

**2. Actions:**

**To RAN1 group**

RAN2 respectfully requests RAN1 to feedback on Q1, Q2 (if any concern), Q3 and Q4 (if any concern) as above.

**3. Date of Next TSG-RAN2 Meetings:**

3GPPRAN2#112-e 2 - 13 November 2020 Online

3GPPRAN2#113 1-5 March 2021 Athens