3GPP TSG-RAN WG2 #109-e R2-200xxxx

Electronic Meeting, 24th February – 6th March 2020

**Title:** [DRAFT] LS on Sidelink UE capability for (NG)EN-DC and NE-DC

**Response to:**

**Release:** Rel-16

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

**Source:** OPPO [To be RAN WG2]

**To:** RAN4

**Cc:**

**Contact Person:**

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

**Attachments:** none

**1. Overall Description:**

In Rel-15, RAN2 discussed the support of LTE V2X in EN-DC scenario, and agreed at RAN2#103 that

=> Add a single bit to indicate that UE supports V2X according to the LTE band combination independent of the configuration of EN-DC.

=> RAN2 has the intention to support V2X in combination with EN-DC configuration considering also the NR band combination. Further discussion is required to conclude how the capability signalling can be defined.

And thus agreed with a per-UE capability in Rel-15 as follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***v2x-EUTRA***Indicates whether the UE supports EUTRA V2X according to *UE-EUTRA-Capability* as defined in TS 36.331 [5], independent of the configured EN-DC band combination. This field is only applied to EN-DC. In UE-NR-Capability, this field is not used, and UE does not include the field. | UE | No | Yes | No |

In Rel-16, in order to support LTE / NR PC5 operation controlled by MN in (NG)EN-DC and NE-DC scenario, RAN2 is discussing PC5 capability signalling design in such scenario.

RAN2 kindly ask RAN4 to feedback for the following questions:

**Question 1**: Does PC5 capability (e.g., band combination(s)) per Uu band combination need to introduced for (NG)EN-DC and NE-DC scenario?

**Question 2**: If the answer to Question 1 is yes, for a same Uu band combination, do we need to introduce different PC5 capability (e.g., band combination(s)) for (NG)EN-DC and NE-DC scenarios respectively?

**2. Actions:**

**To RAN4 group.**

**ACTION:** RAN2 kindly ask RAN4 to feedback for Question 1 and 2 above.

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

TSG-RAN WG2 Meeting #109bis 2020-04-20 to 2020-04-24 Sapporo, Japan

TSG-RAN WG2 Meeting #110 2020-05-25 to 2020-05-29 Athens, Greece