3GPP TSG RAN WG 4 Meeting #97-e R4-2017811

**Electronic Meeting, 2nd – 13th November, 2020**

**Title: LS on Rel-16 RAN4 Clarification for UE Antenna Connector Interpretation**

**Response to:**

**Release: Rel-16**

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

**Source: TSG RAN WG4**

**To:** **5GAA**

**Cc: TSG RAN WG5**

**Contact person:**

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**Attachments:** None

# 1 **Overall description:**

In TS 38.101-1, the transmitter and receiver characteristics are specified at the UE antenna connector. However, it is observed that in V2X devices, external components such as cables and compensator modules may be used to connect the UE antenna connector to a vehicle mounted antenna connector. A V2X integration block diagram, with an example set of components external to the UE, is illustrated in Figure1. To ensure alignment on interpretation of TS 38.101-1 between RAN4 and 5GAA, RAN4 would like to inform 5GAA that for V2X applications, the transmitter and receiver characteristics are specified at the UE antenna connector, as illustrated in Figure 1, excluding any external components.



Figure 1 – An Example of V2X UE integration block diagram

**2. Actions:**

**To 5GAA:**

RAN4 respectfully asks 5GAA to take the above clarification into consideration when designing V2X Tx and Rx conformance test and test procedure. An identical LS (R4-2011710) was sent to RAN5 and RAN5 has an action to take this into account in RAN5 conformance test specifications

# 3 Dates of next TSG RAN WG 4 meetings

TSG-RAN WG4 Meeting #97-e Jan\_Feb 2021, e-Meeting