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

eMeeting, 20th – 30th April, 2020

**Title:** **[**Draft] LS on NeedForGap capability

**Response to:**

**Release:** Rel-16

**Work Item:** NR\_newRAT-Core, TEI-16

**Source:** MediaTek [to be RAN2]

**To:** RAN4

**Cc:**

**Contact Person:**

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**1. Overall Description**

RAN2 would like to info RAN4 about the measurement gap requirement capability (NeedForGap) defined in Rel-16. RAN2 agree to define this singling in LTE SA for inter-RAT SSB based measurement and also in NR SA for intra-frequency and inter-frequency SSB based measurement.

In NR, the capability is reported dynamically in the UE response to a NW configuration RRC message where this is reported based on the resultant configuration. For inter-frequency, the UE could report for each target NR bands whether the gap is needed (gap, no-gap). For intra-frequency, the UE could report whether gap is needed for each configured NR serving cell.

RAN2 is also aware that RAN4 is discussing the inter-frequency gapless measurements if the target SSB is completely contained in the active BWP. If RAN4 agrees to have this gapless scenario, RAN2 thinks that the new NR NeedForGap signaling does not include the scenario defined by RAN4. Therefore, RAN2 assumes that the NeedForGap signaling design does not conflict with RAN4 works.

**2. Actions:**

**ACTION:** RAN2 respectfully asks RAN4 to take above RAN2 conclusions into consideration in the future works.

**4. Date of Next RAN2 Meetings:**

RAN2#110, e-meeting, 25-29 May 2020

RAN2#111, Toulouse, 24-28 Aug. 2020