**3GPP TSG-RAN WG2 Meeting #115e R2-20xxxxx**

**Online, August 9th – Aug 27th, 2021**

**Title: [draft] LS on supporting discontinuous coverage in IoT NTN**

**Response to:**

**Release: Release 17**

**Work Item:** **LTE\_NBIOT\_eMTC\_NTN**

**Source: RAN2**

**To: SA2, CT1**

**Cc: RAN3, CT4**

**Contact Person:**

**Name: Abhishek Roy**

**E-mail Address: Abhishek.Roy@mediatek.com**

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

**Attachments:** None

**1. Overall Description:**

RAN2 would like to inform that RAN2 has agreed on supporting discontinuous coverage without excessive UE power consumption and without excessive failures / recovery actions. RAN2 expects that when not in coverage UE may save power by not attempting cell search or connection establishment. The network is not expected to try to page UEs in an area with no coverage at a certain time, to the extent possible/reasonable.

Due to limited time in Rel-17, it is RAN2’s understanding that discontinuous coverage in Rel-17 needs to be introduced with minimum specification impact. There may be some work that needs to be done in SA2 and CT1 for alignment, including potential changes to paging, (e)DRX, PSM and PLMN search handling mechanisms and their configurations when the UE is not in coverage.

**2. Actions:**

**To** **SA2 and CT1.**

**ACTION:** RAN2 respectfully asks SA2 and CT1 to take the above information into account for possible alignment work and provide feedback, if any.

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

RAN2#116-e November 1st – November 12th, 2021 Online meeting