**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**

**Contact Person:**

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**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 during out-of-coverage due to the discontinuous coverage UE may save power by not attempting any cell search, camp or connect. The network is also expected not try to reach UEs, during UEs’ out-of-coverage, to the extent possible/reasonable.

Due to limited time for Rel-17, it is RAN2’s understanding that discontinuous coverage in Rel-17 needs to be done with minimum specification effort. There may be some alignment work needed in SA2 and CT1 specifications for supporting discontinuous coverage, including paging, eDRX configuration, PSM configuration and PLMN search handling by UE during discontinuous 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