**3GPP TSG-RAN WG2 Meeting #111e *draft R2-2008234***

**Online, August 17th - 28th, 2020**

**Title: [DRAFT]** LS to RAN4 on measurement requirement for eMTC UE in RRC\_INACTIVE

**Response to:** -

**Release:** Release 16

**Work Item:** LTE\_eMTC5-Core

**Source:** ZTE Corporation (to be RAN2)

**To:** RAN4

**Cc:** -

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

In Rel-16, RRC\_INACTIVE state is supported for eMTC UE (e.g. BL UE or UE in CE) connected to 5GC.

Moreover, RAN2 has the following related agreements:

* *For eMTC, ran-PagingCycle is extended with values rf512 and rf1024.*
* *IDLE mode cell selection/reselection criteria and measurement rules also apply in RRC\_INACTIVE state for eMTC UEs connected to 5GC.*
* *When idle mode eDRX is not configured, eMTC UEs in RRC\_INACTIVE monitor the paging occasions according to the shortest of the cell default paging cycle, the UE specific DRX (if configured), and the RAN paging cycle (if configured).*
* *When idle mode eDRX is not configured, eMTC UEs in RRC\_INACTIVE cannot be configured with values 5.12 sec and 10.24 sec.*
* *When idle mode eDRX is configured, eMTC UEs in RRC\_INACTIVE monitor the paging occasions (POs) during CM-IDLE PTW according to the min {UE specific DRX cycle, default DRX cycle, RAN paging cycle} and monitor paging occasions (POs) outside CM-IDLE PTW according to RAN paging cycle.*

RAN2 understand the current requirements in RAN4 specification, e.g., “*4A E-UTRAN RRC\_INACTIVE state mobility*” in TS 36.133, may not cover the case of eMTC UE connected to 5GC in RRC\_INACTIVE state. Therefore, RAN2 respectfully asks RAN4 to take the above information into account and if needed, define the measurement requirements for eMTC UE connected to 5GC in RRC\_INACTIVE state.

**2. Actions:**

**To RAN4 group.**

**ACTION:** RAN2 respectfully asks RAN4 to take the above information into account and if needed, define the measurement requirements for eMTC UE connected to 5GC in RRC\_INACTIVE state.

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

3GPP RAN2#112-e 2 - 13 November 2020 Online

3GPP RAN2#113 1-5 March 2021 Athens