3GPP TSG-RAN WG2 Meeting #128 R2-24xxxxx

Orlando, USA, Nov 18th – 22nd, 2024

**Title: [draft]LS on emergency services and eDRX**

**Response to:**

**Release: Rel-17**

**Work Item: [NR\_newRAT-Core], NR\_redcap-Core**

**Source: ZTE Corporation [To be RAN2]**

**To: SA2, CT1**

**Cc: RAN3**

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**Attachments:** **None**

# 1 Overall description

In RAN2#128, companies discussed a scenario where a UE is configured with a RAN eDRX cycle in RRC\_INACTIVE state when the UE has a PDU session associated with emergency services. RAN2 notice the below description in TS 23.501 which states that an Idle eDRX cycle should not be used by the UE when it has a PDU session associated with emergency services. However, it is unclear whether it is possible for such UE to be released to RRC\_INACTIVE state with a RAN eDRX cycle and if it is so how UE behavior may be.

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| 5.31.7.2 Extended Discontinuous Reception (DRX) for CM-IDLE and CM-CONNECTED with RRC-INACTIVE  5.31.7.2.1 Overview  *// skipped irrelevant part*  When the UE has PDU Session associated with emergency services, the UE and AMF follow regular discontinuous reception as defined in clause 5.4.5 and shall not use the extended idle mode DRX. Extended idle mode DRX parameters may be negotiated while the UE has PDU Session associated with emergency services. When the PDU Session associated with emergency services is released, the UE and AMF shall reuse the negotiated extended idle mode DRX parameters in the last Registration Update procedure.  *// skipped irrelevant part* |

Based on current specification, a RAN eDRX cycle can be configured by a RAN node when releasing the UE to RRC\_INACTIVE state only if the UE is configured with an Idle eDRX cycle by CN.

RAN2 assumes that RAN node should be aware whether a UE has a PDU session associated with emergency services so that it can avoid releasing such UE to RRC\_INACTIVE state with a RAN eDRX cycle, or even if it is so, there should be means for the RAN node and the UE to not use the configured RAN eDRX cycle. Regarding how RAN node can be aware of such PDU session, RAN2 understands that CN can already indicate this (e.g. via ARP value) but there is no requirement for CN to do this, so, there is case that RAN node may not be aware of this.

RAN2 would like SA2 and CT1 to consider the scenario described above, provide feedback regarding how the identified issue can be addressed and whether there is a need for RAN2 to update its specifications.

# 2 Actions

**To SA2, CT1 group**

**ACTION:** RAN2 would like SA2 and CT1 to consider the scenario described above, provide feedback regarding how the identified issue can be addressed and whether there is a need for RAN2 to update its specifications?

# 3 Dates of next TSG-RAN WG2 meetings

TSG-RAN2 Meeting #129 17 - 21 February 2025 Athens, GR

TSG-RAN2 Meeting #129bis 07 - 11 April 2025 China, CN