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

**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. Note that if releasing a UE to RRC\_INACTIVE state with a RAN eDRX cycle should be avoided, or releasing a UE to RRC\_INACTIVE state with RAN eDRX cycle is allowed but both RAN node and UE should not use it, then RAN node should be aware whether the UE is configured with PDU session associated with emergency services.

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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 kindly asks SA2 and CT1 whether any standard solution is needed to make/ensure RAN node aware of PDU session associated with emergency services, and whether RAN2 needs to capture in spec that RRC\_INACTIVE UE should ignore RAN eDRX when the UE has emergency PDU session associated with emergency services?

# 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