3GPP TSG-RAN WG3 Meeting #128 R3-25xxxx

Malta, MT, 19 – 23 May, 2025

**Title: [DRAFT] LS on the latest Ambient IoT progress of RAN3**

**Response to:**

**Release: Release-19**

**Work Item: Ambient\_IoT\_solutions**

Source: Huawei [to be RAN3]

**To:** **SA2, CT4**

**Cc:**

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

**Attachments:** **N/A**

# 1 Overall description

RAN3 would like to provide the following latest RAN3 progress of Ambient IoT:

* In case of indirect connectivity, parallel sessions between gNB and AMF are allowed. The AIOTF Identifier, the Correlation Identifier are included outside of the containers in all the Inventory related NGAP messages.
* In case of indirect connectivity, parallel Command procedures for different devices between gNB and AMF within the same session are allowed. The AIOTF Identifier, the Correlation Identifier, and the RAN A-IoT Device NGAP ID are included outside of the containers in all the Command related NGAP messages.
* Introduce a new CN triggered Class 1 NGAP A-IoT Session Release procedure.
* Introduce a new gNB triggered Class 2 NGAP A-IoT Session Release Required procedure.
* In the case of Inventory only scenario, introduce Inventory Complete indication to inform the AIoT CN about the completion of the triggered Inventory session. FFS on how to provide such indication.
* NGAP: Command Request procedure is a per single device procedure.
* CN A-IoT Device NGAP ID is not needed.
* No NGAP signalling to provide the RAN A-IoT Information (served reader list, supported A-IoT areas, reader location) from the gNB to the AIOTF.
* About Reader Selection:
  + Upon only receiving the area in Inventory Request, the gNB selects readers within the indicated area.
  + Upon receiving neither the area nor the reader list in Inventory Request, the gNB selects all the served readers.
  + WA: Upon only receiving the reader list in Inventory Request, the gNB selects the readers indicated by the reader list.
  + FFS: Upon receiving both the area and the reader list in Inventory Request, the gNB selects the readers within the indicated area and the readers within the reader list

# 2 Actions

**To SA2, CT4**

**ACTION:** RAN3 kindly asks SA2, CT4 to take the above information into account.

# 3 Dates of next RAN3 meetings

Updated meeting schedule can be found at: <https://portal.3gpp.org/?tbid=373&SubTB=381#/>

RAN3#129 2025-08-25 - 2025-08-29 Bangalore, IN

RAN3#129-bis 2025-10-13 - 2025-10-17 Prague, CZ

RAN3#130 2025-11-17 - 2025-11-21 Dallas, US