**3GPP T****SG-RAN WG3 #128 R3-253802**

**St Julian’s, Malta, May 19th – 23rd, 2025**

**Title:** Reply LS on Ambient IoT progress of RAN3 on A-IoT Area

**Response to:** R3-253015/S2-2504288

**Release:** Release 19

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

**Source:** RAN3

**To:** SA2

**Cc:** SA5

**Contact Person:**

#### Name: Wuyang Zheng

#### E-mail Address: zheng\_wuyang@nec.cn

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

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

**1. Overall Description:**

RAN3 acknowledges SA2's LS regarding the supported area and would like to provide the following clarifications:

1. SA2 would ask whether the ‘supported Area’ is Tracking Area or a new type of area.

**Answer:** The “supported Area” in the A-IoT RAN information is a new type of area, and an A-IoT Area is encoded as an A-IoT Area ID. And the A-IoT Area ID is encoded as:

A-IoT Area ID = PLMN ID +NID (optional) + A-IoT Area Code (OCTET STRING (SIZE(3)))

1. SA2 would like to ask whether one reader is only part of one supported Area or can be part of multiple supported Areas.

**Answer:** RAN3 agrees one reader can map to one or multiple A-IoT Area ID(s). And the mapping relationships among gNBs, readers and A-IoT areas are configured by OAM.

The related progress of A-IoT Area:

|  |
| --- |
| The new A-IoT Area is encoded as an A-IoT Area ID.  A-IoT Area ID = PLMN ID +NID(optional) + A-IoT Area Code (OCTET STRING (SIZE(3)))  One reader only belongs to one gNB.  One reader can map to one or multiple A-IoT Area ID(s).  One A-IoT Area may include readers belong to the same or different gNBs.  One gNB may serve multiple readers which belong to the same or different A-IoT Areas.  OAM configures in the AIOTF the mapping relationships among gNBs, readers and A-IoT areas, as needed. |

**2. Actions:**

**To SA2:**

**ACTION:** RAN3 kindly asks SA2 to take the above feedback into account.

**3. Date of Next TSG-RAN WG3 Meetings:**

TSG RAN WG3 Meeting RAN3#129 2025-08-25 - 2025-08-29 Bangalore, India

TSG RAN WG3 Meeting RAN3#129bis 2025-10-13 - 2025-10-17 Prague, Czech