3GPP TSG-RAN WG3 Meeting #127bis R3-252328

**Wuhan, CN, 7th-11th Apr, 2025**

Title: (TP to TS 38.300 BL CR) Architecture aspects

Agenda Item: 16.2

Source: CMCC

Document for: Other

# Introduction

This contribution provides TP to reflect the progress made during RAN3#127bis meeting related to A-IoT architecture aspects.

# TP for TS 38.300 BL CR

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## 16.xx Support of Ambient IoT

### 16.xx.x1 Introduction

### 16.xx.x2 Architecture

The NG-RAN overall architecture as depicted in section 4.1 is applicable for Ambient IoT along the following adaptations and additions:

- For the sake of supporting the provision of A-IoT services, the involved gNBs are enabled to support A-IoT, specifically, the gNB supports communication with A-IoT devices by means of A-IoT radio.

- A gNB may or may not only support communication with A-IoT devices by means of A-IoT radio.

- A gNB serves one or more readers.

- As specified in <reference to SA2 TS to be added> the A-IoT CN node which the gNB connects to is either the AIOTF (in case of direct communication to AIOTF) or the AMF (in case of indirect communication to AIOTF).

NOTE 1: It is not expected a deployment will deploy both direct communication and indirect communication.

- In this version of the specification A-IoT specific data is transported between the gNB and the A-IoT CN node takes place via the NG-C interface.

- In this version of the specification, no A-IoT specific communication takes place between gNBs.

- In this version of the specification, split gNB architecture is not supported.

AIOTF is aware of the supported new A-IoT Area of the gNB configuration, at least by OAM.

Editor’s Note: It is FFS whether the new A-IoT Area is encoded as GNSS info or new A-IoT Area ID.

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