**3GPP TSG-RAN WG3 #127-bis R3-252331**

**Wuhan, China, 7-11 April 2025**

**Title:** (TP to TS 38.300 BL CR) Device Locating support

**Source:** ZTE Corporation, China Telecom

Agenda item: 16.2

**Document for:** Discussion and Decision

# Introduction

This paper is used to include 38300 TP on device locating.

# TP to TS38.300

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## 16.xx Support of Ambient IoT

### 16.xx.x1 Introduction

<Skip unchanged part>

### 16.xx.xa Locating Ambient IoT devices

A-IoT device location information may be used for the following purposes:

(a) improving the A-IoT operation itself, e.g., by A-IoT CN sending a Command to one or more readers (e.g., the last reader(s)) associated to the device rather than sending it blindly.

(b) providing location information to the consumer of the A-IoT service.

Locating an Ambient IoT device at "reader ID granularity" is useful for both purposes and is to be supported.

NOTE : "reader ID granularity" is likely not sufficient for purpose (b) and may be refined in the future.

For support of A-IoT device location, the A-IoT RAN node shall report the reader indexes and the gNB ID to the A-IoT CN in the Inventory Report message.

Define the reader Index as INTEGER (1..65536, …).

*Editor’s NOTE: It is FFS that reader Location is known by the AIOTF.*<<<<<<<<<<<<<<<<<<<< End of the Change >>>>>>>>>>>>>>>>>>>>