3GPP TSG-RAN WG3 Meeting #124 R3-24xxxx

**Fukuoka, Japan, 20 – 24 May, 2024**

Title: Inventory and Command over CN-RAN interface

Agenda Item: 16.3

Source: Huawei

Document for: pCR

# 1 Introduction

This paper provides the pCR to TR 38.769 on Inventory and Command based on the online discussion and offline discussion.

# 2. TP for TR 38.769 (based on R3-243103)

***----------------Start of the First Change----------------***

## 6.3 Impacts on CN-RAN interface

Editor’s note: Corresponds to the first RAN3 objective in the SID, to identify necessary impacts on signaling and procedures for CN-RAN interface.

The purpose of this clause is to identify the functions and procedures supported by CN-RAN interface for AIoT.

### 6.3.1 Inventory

Inventory over CN-RAN interface can be used for a single device, or a group of devices, or all devices.

In Topology 1, the Inventory Request from the AIoT CN to the AIoT RAN, includes the following:

(1) AIoT Device Identification (to find a single device, a group of devices, or all devices)

Note 1: The definition of this identification is out of RAN3 scope. RAN3 assume SA2 define this. Security is up to SA2 and SA3 on this.

Editor’s Note: It is FFS whether AIoT RAN needs to interpret/store/process it.

(2) Target of inventory request (e.g., a certain area, or certain readers, to trigger the inventory in proper area)

In both Topology 1 and Topology 2, multiple Device IDs (one for one device) can be provided to the AIoT CN node via a single Inventory Report.

Editor’s Note: It is FFS on the transport and interfaces used for inventory report. And it is up to SA2 whether device ID is sent transparent or not.

### 6.3.2 Command

Command over CN-RAN interface can be used for a single device.

Editor’s Note: it is FFS for command on a group of devices, or all devices.

***----------------End of the Changes----------------***