3GPP TSG-RAN WG3 Meeting #124 R3-243872

**Fukuoka, Japan, 20 – 24 May, 2024**

Title: Inventory and Command over CN-RAN interface

Agenda Item: 16.3

Source: Huawei, CMCC, Nokia, Ericsson, ZTE, Xiaomi, Qualcomm Incorporated, Samsung, CATT, Lenovo

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.

### 6.3.1 General

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

### 6.3.1 Information exchanged on the CN-RAN interface for AIoT

#### 6.3.1.1 Inventory

Inventory over CN-RAN interface can be triggered 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, may include 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.

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

(2) Scope of inventory request (e.g., a certain area in which the inventory is to be triggered)

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

Editor’s Note: It is up to SA2 whether device ID is sent transparent or not.

#### 6.3.1.2 Command

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

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

Editor note: it is FFS whether AIoT RAN can remain agnostic of the type of request over the CN RAN interface (need to differentiate command and inventory)

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