3GPP TSG-RAN WG3 Meeting #129-bis R3-257240

**Prague, Czech Republic, 13 – 17 October 2025**

Agenda Item: 10.3.1

Source: Huawei (moderator)

Title: (TP to TR 38.760-3) RAN-CN interface principles and functions

Document for: Agreement

# 1 Introduction

This contribution provides the TP to the TR 38.760-3 on the RAN-CN interface principles and functions based on the discussion of the following CB:

**CB: # 20\_6GRAN-CNinf**

**- TP for section 6.1.1 & 6.1.2 (RAN-CN interface general principles and functions)**

**- Capture open issues for next meeting**

**- Introduce new sections in the TR, if agreeable**

(Huawei - moderator)

# 2 TP to TR 38.760-3

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

## 6.1 RAN-CN Interface

### 6.1.1 General Principles

*Editor’s note: The aim of this section is to describe general design principles and requirements for RAN-CN Interface.*

The general principles for the specification of the 6G RAN-CN interface are as follows:

- the 6G RAN-CN interface supports the exchange of signalling information between the RAN and CN;

- the 6G RAN-CN interface supports control plane and user plane separation;

- the 6G RAN-CN interface shall supports future enhancements;

- the 6G RAN-CN interface supports all possible RAN deployment scenarios;

- the 6G RAN-CN interface supports RAN sharing between multiple operators;

- the 6G RAN-CN interface supports the operation of network slicing.

- the 6G RAN-CN interface supports enhanced service awareness in RAN;

- the 6G RAN-CN control plane interface supports reliable signalling transmission;

- the 6G RAN-CN interface is designed with the clear functional split between RAN and CN;

### 6.1.2 RAN-CN Interface Functions

RA N-CN control plane interface supports following functions:

- UE context management : The functionality to manage UE context between the RAN and CN;

- Transport of NAS messages: The functionality to transfer NAS messages between the CN and UE, subject to SA2 progress;

- PDU Session Management: The functionality to manage PDU sessions and respective RAN resources, subject to progress in SA2.

### 6.1.3 RAN-CN Interface Options

*Editor’s note: This chapter includes description of RAN-CN interface options including protocol stacks, considering new and existing services.*

### 6.1.4 Evaluation of RAN-CN Interface Options

*Editor’s note: This chapter includes evaluation and comparison of RAN-CN interface options described in clause 6.1.3.*

***---------------End of the Change------------------***