**3GPP TSG-RAN WG3 Meeting #129bis R3-25xxxx**

Prague, Czech Republic, 13 – 17 October 2025

Agenda Item: 10.2.1

Source: Qualcomm (Moderator)

Title: [TP for draft TR 38.760] General principles and requirements

Document for: Discussions & Approval

# 1 Introduction

This TP for draft TR 38.760 captures the outcome of R3#129-bis discussions.

# 2 Text Proposal

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

# 5 Objectives and requirements

*Editor’s note: The detailed objectives of the study are:*

*Single technology framework based on a stand-alone architecture to support the agreed existing and new services, and to satisfy the usage scenarios, requirements, deployment scenarios and design principles with acceptable performance/complexity trade-off, as determined by the RAN requirements in [RP-250810] and [TR38.914], including: [RAN1], [RAN2], [RAN3], [RAN4]*

## 5.1 Requirements and General Principles

### 5.1.1 Requirements from TSG-RAN

The following requirements on the RAN have been agreed by TSG-RAN (cf. TR 38.914):

- The 6G RAN architecture shall support standalone RAN architecture.

- The 6G RAN shall support Multi-RAT Spectrum Sharing between 6GR and NR.

- The 6G RAN architecture shall support inter-RAT mobility between the 6GR and NR.

- The 6G RAN architecture shall support connectivity through multiple TRPs, either collocated or non-collocated.

- The 6G RAT shall support Spectrum Aggregation (e.g. Carrier Aggregation) for both uplink and downlink, and for both co-located and non-co-located TRPs.

- 3GPP defined interfaces for 6G RAN shall be open for multi-vendor interoperability.

- The 6G RAN architecture shall allow for control plane and user plane separation.

- The 6G RAN architecture shall support sharing of the RAN between multiple operators.

- The 6G RAN architecture shall allow for the operation of network slicing.

- The 6G RAN architecture shall be designed considering both terrestrial network and non-terrestrial network.

- The 6G RAN architecture shall support enhanced service awareness in RAN.

- The design of the 6G RAN shall allow enhanced resilience compared to NR if/where applicable.

- The design of the 6G RAN shall enable lower CAPEX/OPEX with respect to current networks.

- The 6G RAN architecture shall allow non-public networks.

### 5.1.2 Additional Requirements and General Principles

- The 6G architecture shall allow for virtualized and/or cloud-based implementations of 6G RAN functionality, and it shall allow the RAN3-defined interfaces to be supported by such virtualized and/or cloud-based implementations.

## 5.2 Deployment Scenarios

*Editor’s note: This section may be used to describe the details/solutions related to deployment scenarios as per 38.914.*

The 6G RAN architecture shall strive to support the deployment scenarios defined in TR 38.914.

- FFS on the implications of this requirement on 6G RAN architecture.

- FFS whether all deployment scenarios of this TR can be supported.

<<<<<<<<<<<<<<<<<<<< End of Changes >>>>>>>>>>>>>>>>>>>>