3GPP TSG-RAN WG3 Meeting #124 R3-243863

**Fukuoka, Japan, 20-24 May, 2024**

Agenda Item: 12.2

Source: Huawei, Nokia, Nokia Shanghai Bell, CATT, Samsung, Ericsson, Xiaomi, ZTE

Title: (TP to TR 38.799) on integration procedure

Document for: other

# 1 Introduction

This contribution is to provide TP for the WAB integration according to the following CB:

**CB: # WAB**

* **Resolve the FFS captured above**
* **Converge on the TPs below, where agreements taken above will be captured. If any more agreements are taken, they can be included in the TPs below:**
  + **TP for Architecture (Nokia)**
  + **TP for Integration procedure (Huawei)**
  + **TP for Authorization (CATT)**
  + **TP for Mobility (Ericsson)**
  + **TP for miscellaneous issues (ZTE)**
    - **WAB configuration**
    - **Etc**
* **SA2 reply LS (Qualcomm)**

(Moderator – Docomo)

Summary of offline disc in R3-243844

# Annex. TP for TR 38.799 V0.0.1

*Start of Change*

## 4.3 Operational aspects

Editor Note:

- Impact of WAB mobility within an existing RAN (e.g., inter-gNB neighbour relations).

- Inter-gNB- and gNB-to-CN signalling to address the support of WAB.

4.3.A1 WAB-node Integration procedure



**Figure 4.3.A1.1 WAB-node integration procedure**

**Phase 1: WAB-MT setup.** The WAB-MT of a WAB-node connects to the network in the way as a UE by performing RRC connection setup procedure with the BH-RAN-node. The WAB-MT then performs, authorization and authentication with the BH-5GC. After the WAB-MT is authorized, the WAB-MT can establish one or more PDU sessions for backhauling.

**Phase 2: WAB-gNB setup.** This phase includes the following 3 sub-phrases:

**Phase 2-1: WAB-gNB initialization.** In this phase, the WAB-gNB is configured (e.g. the information of AMF(s) to serve the UE) by OAM and service-authorized. The address of OAM which the WAB-gNB connects can be pre-configured in WAB-node.

**Phase 2-2: NG connection setup.** The WAB-gNB initiate the TNL establishment, and establishes NG toward the AMF(s). This step may follow legacy procedures. After the NG is set up, the WAB-gNB can start serving the UE(s).

**Phase 2-3: Xn connection setup.** If needed, the WAB-gNB may establish Xn connection(s) towards the BH-RAN-node and/or other NG-RAN node(s).

*End of Change*