**SA WG2 Meeting #163 S2-2406258**

**Jeju, Korea, May 27-31 2024**

**Title: KI#4: conclusions**

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**Agenda Item: FS\_VMR\_Ph2/19.6**

*Abstract: this paper provides conclusions on KI#4*

1. Introduction

Based on the outcomes of the moderated email discussion we propose to provide an update to the conclusions for KI#4

2. Text Proposal

It is proposed to capture the following changes vs. TR 23.700-06.

Proposed text

## 8.1 KI#4 Conclusion

It is proposed to proceed normatively based on these principles.

1) There is no requirement to change the UE mobility behaviour for UEs served by a MWAB-gNB.

2) The MWAB- gNB can obtain from the OAM of the PLMN/SNPN it serves new Cell ID, TAC as it moves around the PLMN/SNPN serving the MWAB-UE. The OAM can provide the new configuration by receiving Geolocation of MWAB UE or TAC/Cell ID serving the UE (the latter is possible only of the MWAB UE PLMN/SNPN and MWAB-gNB PLMN/SNPN are the same or exchange related information), or by providing to the MWAB the applicable configurations of the MWAB-gNB that take into account different geographic locations in the PLMN/SNPN serving the MWAB-UE (based on geodetic shapes or cell ID/TAC of cells serving the MWAB-UE if that is possible). A mix of the two approaches is also possible (i.e. the MWAB-hNB queries the OAM for new configuration when it has no configuration for the current location).

3) The MWAB-UE can request new N2/N3 BH PDU sessions as the MWAB moves to a new region, upon request from the MWAB-gNB which are based on triggers configured by OAM depending on the MWAB-gNB location. The MWAB-gNB updates the TNL association of the N2 interface and N3 interfaces by using the new IP addresses of the new BH PDU sessions after the new BH PDU sessions are established. The old BH PDU sessions are then requested to be released by the MWAB-gNB.

NOTE: it is assumed the MWAB-gNB is in full control of the establishment and release of the MWAB-UE BH PDU sessions.

4) The MWAB UE, if requested by the MWAB-gNB, provides to the MWAB-gNB its current geolocation or TAC/Cell ID of the BH gNB serving the MWAB-UE.

5) The MWAB instantiates a new logical MWAB gNB when it is configured with a new Cell ID (and TAC) with a different gNB ID, to support the handover of UEs to the new logical gNB while migrating the UEs to the new MWAB gNBs via Handover procedure. Once all UEs have been migrated, the MWAB removes the old logical MWAB-gNB instance. This can happen e.g. when AMF serving the UEs of the MWAB change is required based on the operator policy.

6) If PCI of cell of the MWAB-gNB changes without gNB ID change, the MWAB performs intra-gNB handover between the logical cells.

End of proposed text