**3GPP TSG-RAN WG3 #112-e R3-21xxxx**

**17 – 27 May 2021**

Title: [DRAFT] LS on Country specific routing for RRC\_CONNECTED UE

Response to:

Work Item: NR\_NTN\_solutions-Core

Source: Nokia [to be RAN3]

To: RAN2

Cc:

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Attachments: None

**1. Overall Description:**

RAN3 discussed how to support the SA2 requirement in TS23.502, which is copied as below:

The Inter NG-RAN node N2 based handover procedure specified in clause 4.9.1.3 may also be used for intra-NG-RAN node handover.

NOTE: One use case for intra-NG-RAN handover to be performed by the Inter NG-RAN node N2 based handover procedure is when an NG-RAN node serves a satellite access system that covers more than one country. In such a situation, the UE might move from a "cell" in one country into a "cell" in another country, and the NG-RAN node may need to cause the AMF to change to an AMF serving the UE's new country.

It is possible that a RRC\_CONNECTED UE moves across the country border but remains in the same NTT cell. An example is shown in below figure:



To enable the N2-based Handover to change the AMF, RAN3 agreed the gNB is expected to know when the UE moves across the country border, in case the serving NTN cell serves part (or all) of more than 1 country.

RAN3 kindly asks RAN WG2 to provide feedback on above RAN3 agreement.

**2. Actions:**

**To RAN WG2**

**ACTION:** RAN3 kindly asks RAN WG2 to provide feedback on RAN3 agreement.

**3. Date of Next RAN3 Meetings:**

RAN3#113-e 16-27 August 2021 Electronic meeting