**3GPP TSG-RAN WG3#116-e R3-22xxxx**

**E-Meeting, 09 – 19 May 2022**

**Title:** LS on concurrent TNL migration

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_IAB\_enh-Core

**Source:** RAN3

**To:** RAN2

**Cc:**

**Contact Person:**

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**1. Overall Description:**

Rel-17 IAB supports an enhancement to intra-donor migration, where the descendent nodes are configured via the source path so that the traffic migration of migrating- and descendent IAB-nodes can occur in parallel. To enable the parallel migration, the IAB-donor-CU sends the *RRCReconfiguration* message with the new TNL address(es) and the new default BAP configuration to the descendent node while the migrating IAB-MT is still connected with source parent node.

However, the BAP data PDUs including the TNL migration related UL IP packets which are received from child node of the descendant IAB-node will be discarded by the descendant IAB-node because the descendant IAB-node may not have the routing entry to forward the BAP data PDUs.

RAN3 discussed the following two alternatives to solve the issue above.

**Alt 1:**

* + The CU configures IP addresses and default BAP routing ID on each descendent node via RRC before migration.
	+ The CU configures a routing entry on each descendent node with child-node(s) via F1AP before migration.
	+ After migration, the descendent node performs routing based on the routing entries for target path configured before receiving default BAP configurations.

**Alt 2:**

* + The CU configures IP addresses and default BAP routing ID on each descendent node via RRC before migration.
	+ After migration, the parent node of the descendent node performs the routing without a match of the routing ID or BAP address in the routing configuration, i.e. using the default BH RLC CH to forward, UL traffic received from child nodes to the parent node corresponding to the default configuration until it receives the routing configuration via F1AP.
	+ The CU configures a routing entry on each descendent node with child-node(s) via F1AP after migration.

RAN3 think the Alt 1 may be supported by implementation, and Alt 2 has impact on RAN2.

RAN3 would like to know if Alt2 can be supported and whether it requires enhancements to current specifications.

**2. Actions:**

**To RAN2 group:**

**ACTION:**

RAN3 respectfully asks RAN2 to check if Alt 2 can be supported and whether it requires enhancements to current specification, and inform RAN3 about the outcome.

**3. Date of Next TSG-RAN WG3 Meetings:**

TSG-RAN WG3#117-e 15 August – 25 August 2022 E-meeting