3GPP TSG-RAN WG3 Meeting #110-e                                                          R3-20xxxx

2-12 November 2020

**Title:** LS on inter-donor topology redundancy

**Response to:**

**Release:** Rel-17

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

**Source:** Samsung

**To:** RAN1

**Cc:** RAN2

**Contact Person:**

#### Name: Weiwei Wang

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1. **Overall Description:**

RAN3 discussed the inter-donor topology redundancy for load balancing, and agreed to support the following two scenarios (as shown in the following figure) with the principle that an IAB-DU only has F1 interface with one donor-CU:

* **Scenario 1: the IAB is multi-connected with 2 Donors.**
* **Scenario 2: the IAB’s parent/ancestor node is multi-connected with 2 Donors.**



In both scenarios, the boundary IAB node, i.e., IAB3 in the figure, is simultaneously connected to the two parent nodes (i.e., IAB1 and IAB2) belonging to two different donors. Since it may require the work in RAN1, RAN3 would like to get RAN1’s advice on whether this can be supported in Rel-17.

## 2. Actions:

**To RAN2:**

**ACTION:** RAN3 respectfully asks RAN1 to take the above into account and to provide feedback.

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

TSG-RAN3 Meeting #111-e 25th. Jan - 5th Feb. 2021