**3GPP TSG-RAN WG3 Meeting #107bis-eR3-20xxxx**

**Online, April 20th – 30th 2020**

**Title:** [Draft] RRC Message Design for IAB IP Address Allocation

**Response to:** -

**Release:** Rel-16

**Study Item:** IAB\_NR

**Source:** Ericsson [To be RAN3]

**To:** RAN2

**Cc:** -

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**Attachments: -**

**1. Overall Description:**

RAN3 has further discussed the IP allocation for IAB-nodes and concluded that the RRC signalling for IAB IP address allocation should enable the following:

For **IAB-donor-based IP allocation**:

An IAB-node can request in an UL RRC message up to 8 full IPv4 and/or up to 8 full IPv6 addresses per specific usage.

Possible IP address usages are: F1-C traffic, F1-U traffic and non-F1 traffic.

An IAB-node can request up to 16 IPv4 addresses in total.

The IAB-donor-CU indicates to the IAB-node via DL RRC message the usage of each allocated full address.

For **OAM-based IP allocation**: an IAB-node indicates to the IAB-donor-CU via UL RRC message the addresses allocated by the OAM and their intended usages:

Possible IP address usages are: F1-C traffic, F1-U traffic and non-F1 traffic.

Up to 8 IPv4 and/or IPv6 addresses per usage can be allocated to one IAB-node.

Up to 16 IPv4 addresses can be allocated to an IAB-node.

The purpose of indicating the OAM-allocated IP addresses to the IAB-donor-CU is to enable the IAB-donor-CU to configure the IAB-donor-DU with the mapping between the IP addresses allocated to the IAB-node and the corresponding DL BAP Routing IDs.

**2. Actions:**

**To RAN2 group:**

RAN3 respectfully asks RAN2 to include the above information into RRC messages for IAB IP address allocation.

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

RAN3#108 2–12 June 2020 Online