**3GPP TSG-RAN WG3 Meeting #107e-bis R3-20xxxx**

**Electronic Meeting, April 20 – 30, 2020**

**Agenda item:** 13.1

**Source:** Qualcomm Incorporated

**Title:** CB: # 0\_Email\_IAB\_BLs

**Document for:** Discussion

# Introduction

This document captures CB discussion:

|  |
| --- |
| **CB: # 0\_Email\_IAB\_BLs**  **- note work plan**  **- endorse proposal for IAB terminology in 1778; BL CR Rapporteurs to align as necessary**  **- endorse as BL all 11 Tdocs; revise as needed**  (QC - moderator)  Summary of offline disc |

# 2 Discussion

2.1 IAB terminology

R3-201778 proposes the following rules on IAB terminology and notation:

* In running CR 38300, the *IAB-donor* is defined as a gNB that provides network access to UEs via a network of backhaul and access links
  + There is **no** *IAB-donor gNB* or *IAB-donor-gNB*.
  + IAB-donor-DU and IAB-donor-CU are hyphenated in the same manner as the gNB-CU and gNB-DU.
* The IAB-node holds gNB-DU functionality with IAB-specific enhancements, referred to as *IAB-DU*.
  + There is **no** *IAB-node-DU* since this might imply that there would also be an *IAB-node-CU*.
  + The IAB-DU of a specific IAB-node, e.g., IAB-node 1, can be referred to as IAB-node-1’s IAB-DU, or IAB-DU 1.
* The IAB-node holds UE functionality with IAB-specific enhancements, referred to as *IAB-MT*.
  + There is **no** *IAB-node-MT* (since this might imply that there would also be an IAB-node-DU).
  + The IAB-MT of a specific IAB-node, e.g., IAB-node 1, can be referred to as IAB-node-1’s IAB-MT, or IAB-MT 1.
* The parent-node IAB-DU and child-node IAB-MT may be referred to as parent IAB-DU and child IAB-MT, respectively.
* Hyphenation follows commonly known rules.

**Proposal 1: RAN3 to agree on the above IAB terminology and notation.**

|  |  |
| --- | --- |
| Company | Comments |
| Samsung | Fine |
| Huawei | Fine to the proposed terminology. Add I want to add a new one:  Considering that the parent IAB-DU is only suitable for the case that the parent node is an IAB node  But just want to remind that in some scenarios, the parent node can be either an IAB node or an IAB-donor-DU, so we may also need the “**parent node gNB-DU” or “parent gNB-DU”** to indicate the DU part of the parent node for such case. |
| ZTE | Fine |

2.2 Endorsement of BL CRs

The following BL CRs are considered for endorsement:

|  |  |  |
| --- | --- | --- |
| [R3-201529](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201529.zip) | BL CR to 38.423: Support for IAB (Samsung) | CR0223r4, TS 38.423 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201530](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201530.zip) | BL CR to 38.463: Support for IAB (Huawei) | CR0162r4, TS 38.463 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201531](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201531.zip) | BL CR to 38.425: Support for IAB (Samsung) | CR0103r4, TS 38.425 v16.0.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | We propose the following changes:  *In case of IAB, this node refers to the IAB-node DU* ***and IAB-donor-DU*** *functionality serving the UE for the corresponding data radio bearer.* |
| Samsung | Fine with the revision proposed by QC |
| Huawei | Fine with the change from QC. |
| ZTE | Fine with change from QC. |

|  |  |  |
| --- | --- | --- |
| [R3-201532](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201532.zip) | BL CR to 36.413: Support for IAB (Huawei) | CR1661r11, TS 36.413 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| QC | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201533](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201533.zip) | draftCR TS 38.300 Mapping of Uplink Traffic to Backhaul RLC Channels (Ericsson) | draftCRr, TS 38.300 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Change “*Backhaul RLC channel*” to “*BH RLC channel*” in alignment with remainder of 38300.  Remove “ of each UE”:  *A specific mapping is configured:*  *- for each F1-U GTP-U tunnel,*  *- for non-UE associated F1AP messages,*  *- for UE-associated F1AP messages ~~of each UE~~.*  *- for non-F1 traffic.* |
| Samsung | This part aims at explaining the UL mapping configuration, which includes BAP routing ID, BH RLC CH, and next-hop BAP address. The next-hop BAP address is missing below. So, we propose the following changes:  The IAB-donor-CU configures the IAB-node with mappings between upstream F1- and non-F1-traffic originated at the IAB-node, and the appropriate BAP routing ID, next-hop BAP address and Backhaul RLC channel. A specific mapping is configured:  - for each F1-U GTP-U tunnel,  - for non-UE associated F1AP messages,  - for UE-associated F1AP messages of each UE.  - for non-F1 traffic.  Multiple mappings can contain the same Backhaul RLC channel and/or next-hop BAP address and/or BAP routing ID. |
| Huawei | Fine with the change from QC. About change proposed by Samsung, we do not see the necessity, because the next-hop BAP address is part of information to identify the BH RLC channel. I’m not sure we need to capture stage 3 IE in stage 2 CR. |
| ZTE | Fine with the change from QC. |

|  |  |  |
| --- | --- | --- |
| [R3-201534](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201534.zip) | BL CR to 38.413: Support for IAB (Nokia, Nokia Shanghai Bell) | CR0063r11, TS 38.413 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201559](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201559.zip) | Support for IAB (Nokia, Nokia Shanghai Bell) | CR0007r2, TS 38.474 v15.3.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201596](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201596.zip) | BL CR to 36.423: Support for IAB (Samsung) | CR1303r12, TS 36.423 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201597](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201597.zip) | BL CR to 38.401 Support for IAB (Huawei) | CR0033r18, TS 38.401 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201598](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201598.zip) | BL CR to 38.470: Support for IAB (Ericsson) | CR0026r12, TS 38.470 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Need to change *IAB-node MT* to *IAB-MT* (2 occasions) and *IAB-node DU* to *IAB-DU* (one occasion) |
| Samsung | Agree with QC |
| Huawei | Fine |
| ZTE | Fine |

|  |  |  |
| --- | --- | --- |
| [R3-201621](D:\\Users\\ghampel\\AppData\\Local\\Temp\\Temp1_RAN3_107bis-e_agenda_with_Tdocs_20200417_1701.zip\\Docs\\R3-201621.zip) | BL CR to 38.473: Support for IAB (Ericsson) | CR0285r14, TS 38.473 v16.1.0, Rel-16, Cat. B |

|  |  |
| --- | --- |
| Company | Comments |
| QC | Fine |
| Samsung | Fine |
| Huawei | Fine |
| ZTE | Fine |

**Proposal 2: RAN3 to endorse the above BL CRs.**

# 3 Conclusion

…