3GPP TSG-RAN WG3 #111-e R3-210968

Online, January 25 – February 4, 2021

Agenda Item: 9.3.8.1

Source: Qualcomm (moderator)

Title: CB: # 15\_IAB\_Rel16Corrections

Document for: Discussion

# Introduction

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| **CB: # 15\_IAB\_Rel16Corrections**  **- check details; revise as needed**  (QC - moderator)  Summary of offline disc [R3-210968](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Inbox/R3-210968.zip) |

This CB#15 discussion has two phases:

**Phase 1: Check details and revise as needed**

**Phase 2: Converge on revisions**

The deadline for Phase 1 is Friday, January 28, end of day.

The deadline for Phase 2 is the same as for all email discussions, i.e., Tuesday, February 2, 12:00:00 UTC.

# For the Chairman’s Notes

Propose the following:

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# PHASE 1: Discussion

## 3.1 R3-210543 – Correction on BAP configuration

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| [R3-210543](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210543.zip) | Correction on BAP configuration (Huawei) | CR0721r, TS 38.473 v16.4.0, Rel-16, Cat. F |

Reason for change:

1. In clause 9.3.1.114, the semantics description of Egress BH RLC CH ID is "This IE identifies the BH RLC channel in the link between the gNB-DU and the node identified by the Next-Hop BAP Address IE." However, the Egress BH RLC CH ID can be used for both UL transmission and the DL transmission, fot the UL transmission, it is the IAB-MT which maintain the link towards the next hop node, rather than the “gNB-DU”. So the current sentence is not applicable for the UL scenario.
2. The BAP address of the child IAB node and the BH routing inforamtion will be used by the gNB-DU for the BH routing, and the routing related operation is specified in TS 38.340. However, the current refered specification for the operation of using *Configured BAP Address* IE is 38.401, and the specification reference for operation of receiving *BH Routing Information Added* list is missing.
3. The semantics description of DUF Slot format index in 9.3.1.107, refer to the table 11.1.1-x and 14-1 from TS38.321, but the two refered table numbers are incorrect and should be updated to the latest version of TS 38.321.

Summary of change:

1. In clause 8.3.1.2, change the refered specification from TS38.401 to TS38.340 in the paragraph of *Configured BAP Address* IE
2. In clause 8.10.1.2, add "as specified in TS38.340[30]" in gNB-DU's action when recieving *BH Routing Information Added* list.
3. Change semantics description of DUF Slot format index in 9.3.1.107: 11.1.1-x should be 11.1.1-1; while the refered table “14-1” from 38.321 should be 14-2; and clarify the excluding of last row only apply for the table 11.1.1-1;
4. In clause 9.3.1.114, for the semantics description of Egress BH RLC CH ID, the “gNB-DU” in the sentence "This IE identifies the BH RLC channel in the link between the gNB-DU and the node identified by the Next-Hop BAP Address IE" is replaced by "IAB node/IAB-donor-DU".

**Q1: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | OK |  |
| Lenovo | Y |  |
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## 3.2 R3-210544 – Correction on BAP address configuration for IAB-donor-DU

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| [R3-210544](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210544.zip) | Correction on BAP address configuration for IAB-donor-DU (Huawei, LG Electronics, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell) | CR0722r, TS 38.473 v16.4.0, Rel-16, Cat. F |

Reason for change:

In current specification, if gNB-DU is IAB-donor-DU, IAB-donor-CU can only assign a BAP address to IAB-donor-DU during the F1 Setup procedure.

However, from the perspective of implementation, the gNB-DU may be upgraded to be IAB-donor-DU after its F1 interface establishment, or the IAB-donor-DU’s served cell may be updated to allow IAB-MT access at some later stage after the F1 Setup due to the operator’s deployment strategy changes. In such two cases, it is unable to obtain BAP address for the upgraded gNB-DU unless it re-establishes its F1 interface with the gNB-CU, which will introduce a lot of signaling overhead and service interruption for some existing UE traffic served by this gNB-DU because the F1 setup procedure will erase any application level configuration data and all UE context.

To address the above issue, the existing procedures of gNB-DU Configuration Update and gNB-CU Configuration Update can be modified to allow the BAP address allocation for IAB-donor-DU. Since the IAB-donor-CU can know an gNB-DU is an IAB-donor-DU from the SIB1 of this gNB-DU and by other way (e.g. OAM), and it has been agreed in last meeting that “How to identify the IAB-donor-DU is up to gNB-CU implementation” , the following two cases should be supported.

Case 1: After gNB-DU supports IAB node access, it sends gNB-DU Configuration Update message to gNB-CU. Based on the *iab-Support* IE in SIB1 carried in this message, the gNB-CU can know the gNB-DU is an IAB-donor-DU, and assign a BAP address to the the gNB-DU via gNB-DU Configuration Update Acknowledge message.

Case 2: gNB-CU knows the gNB-DU becomes supporting IAB-node access from other means, e.g. via the notification from OAM. Then the gNB-CU assigns a BAP address to the upgraded gNB-DU via gNB-CU Configuration Update message.

Summary of change:

1. Add *BAP Address* IE in gNB-DU Configuration Update Acknowledge message in section 9.2.1.8, and add the corresponding description in section 8.2.4.2.
2. Add *BAP Address* IE in gNB-CU Configuration Update message in section 9.2.1.10, and add the corresponding description in section 8.2.5.2.
3. Add the corresponding ASN.1.

**Q2: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | OK |  |
| Lenovo | Y |  |
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## 3.3 R3-210545 – Correction on clarification of non-F1 traffic

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| [R3-210545](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210545.zip) | Correction on clarification of non-F1 traffic (Huawei, CATT, Samsung, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility) | CR0146r3, TS 38.401 v16.4.0, Rel-16, Cat. F  Move to 9.3.8.1 |

Reason for change:

The “non-F1 traffic” is used in some 38 series specification, e.g. TS38.401, TS38.331, TS38.473, etc. But none of them provides clear statement about the definition of the “non-F1 traffic”.

From the literal meaning of the word “non-F1 traffic”, it seems all the traffic other than F1-U and F1-C should be classified as non-F1 traffic. However, it is worth noting that some basic traffic prior to the IAB-DU’s F1 Setup, which are fundamental traffic for setup the F1 interface, will also be classified as non-F1 traffic. The mentioned basic traffic are some F1-C related traffics, for example, SCTP Chunks other than the Data Chunk (the SCTP Data Chunk will inlcude F1-C message, other Chunks may includes the INIT, INIT ACK, Heartbeat, etc.), IPsec SA related packets in the security negotiation procedure, etc.

In fact, these basic F1-C related traffic should share similar QoS as NUA F1-C traffic and use same IP address as F1-C packets, and it is more appropriate to treat them as F1-C traffic (or NUA F1-C traffic in a more accurate way), or IP traffic over the F1-C interface, rather than the non-F1 traffic. Then the real non-F1 traffic should be the traffic belongs to the IAB-DU, except the F1-U, F1-C and F1-C/U related traffic.

Consequently, clarification about the “non-F1 traffic” type is beneficial to avoid confusion and enable the IAB-DU’s F1-C related traffic being processed appropriately in the BH links, since the IAB node need to differentiate which traffic is “non-F1 traffic” when select suitable IP address, select UL BH information (e.g. BAP routing ID , egress BH RLC channel), etc.

Summary of change:

Add new reference of TS38.472 in clause 2.

Add a NOTE to give clear statement about the “non-F1 traffic” in clause 8.9.13.

**Q3: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | N | We propose a slight rewording of the Note:  NOTE:      The non-F1 traffic of an IAB-node includes all IP traffic that is not used for the management or transport of F1-C as specified in TS 38.472 [xx] or F1-U as specified in TS 38.474 [7]. The non-F1 traffic may include, e.g., OAM traffic. |
| **Ericsson** | Rewording | Let us use QC’s rewording. |
| Lenovo | Y |  |
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## 3.4 R3-210546 – Correction on IAB procedures

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| [R3-210546](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210546.zip) | Correction on IAB procedures (Huawei, ZTE) | CR0070r2, TS 38.470 v16.3.0, Rel-16, Cat. F  Move to 9.3.8.1 |

Reason for change:

All IAB related F1-C functions are missing in clause 5.2.

All IAB procedures on F1 interface are missing in the clause 6.1.

Some IAB related terms (e.g. IAB-MT, IAB-donor-DU, IAB-donor-CU) are used in this specification but without definitions.

Summary of change:

1. Add the definitions of BH RLC channel, IAB-DU, IAB-MT, IAB-node, IAB-donor, IAB-donor-CU and IAB-donor-DU in section 3.1.
2. Modify abbreviation of IAB in section 3.3.
3. Add the descrptions on IAB support function in new section 5.2.xx.
4. Add the descrptions on IAB procedures in new section 6.1.xx.

**Q4: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | Rewording | Rewording: *The gNB-DU resource configuration function is used by the IAB-donor-CU to provide cell resource configuration for an IAB-donor-DU or an IAB-DU, as well as information about the child node’s cell configuration to a parent IAB-node or an IAB-donor-DU.*  *The IAB TNL address configuration function enable the IAB-donor-CU to request IP address(es) from an IAB-donor-DU. The requested IP address(es) are for IAB-nodes.*  We would like to **cosign the revision** of this paper. |
| Lenovo | Y, but | Minor modifications for the description of gNB-DU resource configuration function:  The gNB-DU resource configuration function can also be used by the IAB-donor-CU to provide cell resource configuration for IAB-donor-DU or IAB-DU, and/or information about the child node’s cell resource configuration and other periodic configurations to a parent IAB-node or IAB-donor-DU. |
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## 3.5 R3-210713 – Supporting IAB function and procedure

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| [R3-210713](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210713.zip) | CR to 38.460: Supporting IAB function and procedure (ZTE, Samsung, Huawei, Nokia, Nokia Shanghai Bell) | CR0045r, TS 38.460 v16.2.0, Rel-16, Cat. F  Move to 9.3.8.1 |

Reason for change:

1. In current TS 38.460, there is no descriptions for supporting IAB function and procedure. However, we have already agreed to introduce a IAB procedure, i.e., IAB UP TNL Address Update procedure, in E1 interface.
2. Some IAB related term (e.g. IAB) needs to be used in this specification but without definitions.

Summary of change:

1. Add the definition of IAB in Section 3.1.
2. Add “IAB function” in the description of functions in Section 5.1.
3. Add “IAB procedure” in the description of procedures of E1 in Section 6.

**Q5: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | Rewording | *5.1.x Support for IAB*  *This function is used to update the DL/UL F1-U GTP-U tunnels for an IAB network.*  We would like to **cosign the revision** of this paper. |
| Lenovo | Y |  |
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## 3.6 R3-210714 – Correction on UE Context Modification Required procedure

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| [R3-210714](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210714.zip) | CR to 38.473: Correction on UE Context Modification Required procedure (ZTE, KDDI Corporation, Nokia, Nokia Shanghai Bell) | CR0727r, TS 38.473 v16.4.0, Rel-16, Cat. F |

Reason for change:

In current TS 38.473, UE Context Modification Required procedure only includes BH RLC channel release, that means gNB-DU is only allowed to initiate BH RLC channel release in current TS 38.473. But gNB-DU may initiate BH RLC channel modification. The BH RLC channel modification operation initiated by gNB-DU is missing.

Summary of change:

Add BH RLC Channel Required to Be Modified List IE in UE CONTEXT MODIFICATION REQUIRED message.

Add BH RLC Channel Modified List IE in UE CONTEXT MODIFICATION CONFIRM message.

Add the Explanation of maxnoofBHRLCChannel in UE CONTEXT MODIFICATION CONFIRM message.

**Q6: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | N | What is changed with this modification message? There is only one IE inside the proposed IE, and it is the BH RLC CH ID i.e. the current BH RLC CH ID. So, a modification message to change nothing? |
| Lenovo | Y |  |
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## 3.7 R3-210715 – Correction on IAB related definitions and unsuccessful establishment of a BH RLC channel

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| [R3-210715](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210715.zip) | CR to 38.473: Correction on IAB related definitions and unsuccessful establishment of a BH RLC channel (ZTE, Samsung, Huawei, Nokia, Nokia Shanghai Bell) | CR0728r, TS 38.473 v16.4.0, Rel-16, Cat. F |

Reason for change:

1. Some IAB related terms (e.g. IAB-MT, IAB-DU) are used in this specification but without definitions.
2. In clause 9.2.2.2 and 9.2.2.8, gNB-DU may report gNB-CU the cause if a BH RLC channel is unsuccessfully established. However, in clause 8.3.1.2 and 8.3.4.2, it has been stated that “When the gNB-DU reports the unsuccessful establishment of a DRB or SRB or SL DRB, the cause value should be precise enough to enable the gNB-CU to know the reason for the unsuccessful establishment.”, so the description of cause value for unsuccessfully established BH RLC channel is missing.

Summary of change:

1. Add the definitions of IAB-MT and IAB-DU in section 3.1.
2. Add “ or BH RLC channel” after the “SL DRB” in the following sentence “When the gNB-DU reports the unsuccessful establishment of a DRB or SRB or SL DRB, the cause value should be precise enough to enable the gNB-CU to know the reason for the unsuccessful establishment.”, in clause 8.3.1.2 and 8.3.4.2.

**Q7: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | Rewording | *or a BH RLC channel* |
| Lenovo | Y |  |
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## 3.8 R3-210720 – HSNA Configuration per (Parent-DU) Cell serving the collocated IAB-MT

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| [R3-210720](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210720.zip) | CR TS 38.473: HSNA Configuration per (Parent-DU) Cell Serving the Collocated IAB-MT (Ericsson, AT&T, KDDI) | CR0729r, TS 38.473 v16.4.0, Rel-16, Cat. F |

Reason for change:

At the RAN1#98 meeting, the following was agreed: "The H/S/NA attributes for the per-cell DU resource configuration should take into account the associated MT carrier frequency(ies).". This means that, in 9.3.1.107, the HSNA Slot configuration List should be given per (parent IAB-DU) cell serving the collocated IAB-MT. However, as of today, a single HSNA Slot configuration List is signalled for the entire IAB-MT.

Summary of change:

The change ensures that the HSNA Slot configuration List is signalled per cell serving the collocated IAB-MT. Today, one list is signalled for the entire collocated IAB-MT.

**Q8: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| **Ericsson** | Y |  |
| Lenovo | N | There is no need to introduce such corrections.  Based on the latest agreements from RAN1 98bis:  H/S/NA attributes for the per-cell DU resource configuration are explicitly indicated per-resource type (D/U/F) in each slot.  And based on the parameter description input from RAN1, the H/S/NA-Config is also per resource type in a slot relative to GNB-DU RESOURCE CONFIGURATION. |
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## 3.9 R3-210841 – Correction on IAB UP TNL Address Update

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| [R3-210841](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210841.zip) | CR to 38.463 Correction on IAB UP TNL Address Update (ZTE, Samsung, CATT) | CR0583r, TS 38.463 v16.4.0, Rel-16, Cat. F |

Reason for change:

The sketch description of IAB UP TNL Address Update procedure is missing.

Summary of change:

1. Add the sketch description of the procedure of IAB UP TNL Address Update as the first paragraph of Section 8.5.1.2, with the aim of being in align with the same writing style of other E1AP procedures.

2. Replace “UP TNL address update” with “IAB UP TNL Address Update procedure” in the last paragraph of Section 8.5.1.3.

**Q9: Do you agree with the corrections? Do you propose changes?**

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| Company | Y/N | Comments |
| Qualcomm | Y |  |
| Ericsson | Y, but | The summary of changes says *‘2.Replace “UP TNL address update” with “IAB UP TNL Address Update procedure” in the last paragraph of Section 8.5.1.3.’* but the change marks do not indicate any replacement of anything. |
| Lenovo | Y |  |
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# PHASE II…[if needed]

If needed

# References

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| [R3-210543](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210543.zip) | Correction on BAP configuration (Huawei) | CR0721r, TS 38.473 v16.4.0, Rel-16, Cat. F |
| [R3-210544](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210544.zip) | Correction on BAP address configuration for IAB-donor-DU (Huawei, LG Electronics, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell) | CR0722r, TS 38.473 v16.4.0, Rel-16, Cat. F |
| [R3-210545](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210545.zip) | Correction on clarification of non-F1 traffic (Huawei, CATT, Samsung, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility) | CR0146r3, TS 38.401 v16.4.0, Rel-16, Cat. F  Move to 9.3.8.1 |
| [R3-210546](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210546.zip) | Correction on IAB procedures (Huawei, ZTE) | CR0070r2, TS 38.470 v16.3.0, Rel-16, Cat. F  Move to 9.3.8.1 |
| [R3-210713](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210713.zip) | CR to 38.460: Supporting IAB function and procedure (ZTE, Samsung, Huawei, Nokia, Nokia Shanghai Bell) | CR0045r, TS 38.460 v16.2.0, Rel-16, Cat. F  Move to 9.3.8.1 |
| [R3-210714](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210714.zip) | CR to 38.473: Correction on UE Context Modification Required procedure (ZTE, KDDI Corporation, Nokia, Nokia Shanghai Bell) | CR0727r, TS 38.473 v16.4.0, Rel-16, Cat. F |
| [R3-210715](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210715.zip) | CR to 38.473: Correction on IAB related definitions and unsuccessful establishment of a BH RLC channel (ZTE, Samsung, Huawei, Nokia, Nokia Shanghai Bell) | CR0728r, TS 38.473 v16.4.0, Rel-16, Cat. F |
| [R3-210720](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210720.zip) | CR TS 38.473: HSNA Configuration per (Parent-DU) Cell Serving the Collocated IAB-MT (Ericsson, AT&T, KDDI) | CR0729r, TS 38.473 v16.4.0, Rel-16, Cat. F |
| [R3-210841](https://ericsson-my.sharepoint.com/personal/filip_barac_ericsson_com/Documents/WORK/3GPP.exe/Meetings/RAN3%23111-e.exe/1.%20IAB/IAB%20CBs/CB%20%23%2015_IAB_Rel16Corrections/Docs/R3-210841.zip) | CR to 38.463 Correction on IAB UP TNL Address Update (ZTE, Samsung, CATT) | CR0583r, TS 38.463 v16.4.0, Rel-16, Cat. F |