3GPP TSG-RAN WG3 Meeting #114-e R3-22xxxx

E-meeting, January 17 – 25, 2021

Agenda Item: 13.1

Source: Qualcomm (moderator)

Title: CB: # 1301\_IAB\_BL\_CRs

Document for: Discussion

# Introduction

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| **CB: # 1301\_IAB\_BL\_CRs****- Endorse BL CRs if agreeable****- Check work plan in** [**R3-220291**](../../../../Users/ghampel/AppData/Local/Temp/Temp2_RAN3_114bis-e_agenda_20220115.zip/Inbox/R3-220291.zip)**, revise if needed****- Can prioritization of issues be made on the basis of the list provided by the rapporteur?** **- To facilitate progress towards Rel17 closure, can any of the less critical issues be considered out of scope of Rel17?**(Qualcomm - moderator)[NWM] Summary of offline disc [R3-221048](../../../../Users/ghampel/AppData/Local/Temp/Temp2_RAN3_114bis-e_agenda_20220115.zip/Inbox/R3-221048.zip) |

This CB#1301 discussion has two phases:

**Phase 1: Identify potentially achievable agreements for online discussion.**

**Phase 2: TBD**

The deadline for Phase 1 is Thursday, January 20, 23:59:59 UTC. This allows the moderator to prepare some proposals on Friday for Monday’s online session.

The deadline for Phase 2 is officially the same as for all email discussions, i.e., Monday, January 24, 13:00 UTC. We may want to allocate more time to update the ST2 TP in Ph2.

The discussion includes all contributions listed in the reference section.

# For the Chairman’s Notes

Propose the following:

**…**

# PHASE 1: Discussion

## 3.1 BL CR TS 38.420

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| [R3-220012](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220012.zip) | CR on CP-UP separation for Rel-17 IAB (Nokia, Nokia Shanghai Bell, Samsung, Verizon, Qualcomm Incorporated, CATT, ZTE, Fujitsu, AT&T, KDDI, Lenovo, Motorola Mobility, LG Electronics) | CR0020r5, TS 38.420 v16.0.0, Rel-17, Cat. B |

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| ***Reason for change:*** | Stage-2 CR to support CP-UP separation over Xn for Rel-17 IAB |
|  |  |
| ***Summary of change:*** | In last RAN3 meeting (RAN3#110e), the following agreements were achieved to support the CP-UP separation:**In Rel-17 eIAB, the following two scenarios are supported for CP-UP separation:** **- Scenario 1: F1-C uses NR access link via M-NG-RAN node (non-donor node) + F1-U uses backhaul link via S-NG-RAN node (donor node)****- Scenario 2: F1-U uses backhaul link via M-NG-RAN node (donor node) + F1-C uses NR access link via S-NG-RAN node (non-donor node)**Scenario 1 is very similar to EN-DC case, so to enable F1-C transfer, a new XnAP procedure, i.e., F1-C Traffic Transfer, is added.  |
|  |  |
| ***Consequences if not approved:*** | Cannot support CP-UP separation over Xn for Rel-17 IAB |
|  |  |
| ***Clauses affected:*** | 3.2, 6.2.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |

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| ***This CR's revision history:*** | Rev 1: updated sourcing companyRev 2: updated for RAN3#112-eRev 3: updated for RAN3#113-eRev 4: updated for RAN3#114-eRev 5: updated for RAN3#114bis-e |

**It seems nothing has changed to this BL CR since the last meeting. In any case:**

**Q1: Do you support this BL CR update? If not, why not.**

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| Company | Yes/No | Comment |
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## 3.2 BL CR TS 38.470

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| [R3-220015](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220015.zip) | CP-based Congestion Mitigation for IAB Network (ZTE) | CR0076r3, TS 38.470 v16.5.0, Rel-17, Cat. B |
| ***Reason for change:*** | Stage-2 CR to support CP-UP separation over Xn for Rel-17 IAB |
|  |  |
| ***Summary of change:*** | In last RAN3 meeting (RAN3#110e), the following agreements were achieved to support the CP-UP separation:**In Rel-17 eIAB, the following two scenarios are supported for CP-UP separation:** **- Scenario 1: F1-C uses NR access link via M-NG-RAN node (non-donor node) + F1-U uses backhaul link via S-NG-RAN node (donor node)****- Scenario 2: F1-U uses backhaul link via M-NG-RAN node (donor node) + F1-C uses NR access link via S-NG-RAN node (non-donor node)**Scenario 1 is very similar to EN-DC case, so to enable F1-C transfer, a new XnAP procedure, i.e., F1-C Traffic Transfer, is added.  |
|  |  |
| ***Consequences if not approved:*** | Cannot support CP-UP separation over Xn for Rel-17 IAB |
| ***This CR's revision history:*** | Rev 1: updated sourcing companyRev 2: updated for RAN3#112-eRev 3: updated for RAN3#113-eRev 4: updated for RAN3#114-e |

**It seems nothing has changed to this BL CR since the last meeting. In any case:**

**Q2: Do you support this BL CR update? If not, why not.**

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## 3.3 BL CR TS 38.401

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| [R3-220063](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220063.zip) | BL CR to TS 38.401 on support of eIAB (Huawei) | CR0179r7, TS 38.401 v16.8.0, Rel-17, Cat. B |

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| ***Reason for change:*** | Support the inter-donor IAB topology update for Rel-17 eIAB |
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| ***Summary of change:*** | * **RAN3#112e**
* Add the procedure for the IAB inter-donor migration.
* **RAN3#113e**
* Add MOBIKE in Stage-2 for IAB intra-donor migration.
* **RAN3#114e**
* Update the definition of boundary IAB node (Rapporteur)
* Update the MOBIKE operation in case IPsec tunnel mode is used for TNL protection
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| ***Consequences if not approved:*** | Cannot support the inter-donor IAB topology update for Rel-17 eIAB in stage 2 spec. |
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| ***Clauses affected:*** | 3.1; 8.2.3.1; 8.xx (new); 8.xx.1(new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |

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| ***This CR's revision history:*** | Rev -:* Add the procedure for the IAB inter-donor migration, according to agreements in RAN3-112e meeting.

Rev 1: R3-212971* Rewording step 13 as ” The F1-C and F1-U are switched to the target path, details are FFS”
* Add an Editor note after step 13, to indicate that whether to align step 13 with the corresponding R16 text.
* Add “may” in step 15, and remove the FFS part.

Rev 2: R3-213178* Submit to the RAN3-112e meeting, rebase the v16.6.0 of the latest spec.

Rev 3: R3-214507* add MOBIKE in Stage-2 related TP agreed in R3-214398

Rev 4: R3-214656* Submit to the RAN3-114e meeting, rebase the v16.7.0 of the latest spec.

Rev 5: R3-216061* Update the definition of boundary IAB node

Rev 6: R3-216260* To merge TP agreed in R3-216090

Rev 7: R3-220063* Submit to the RAN3-114bise meeting, rebase the v16.8.0 of the latest spec.
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**Q3: Do you support this BL CR update? If not, why not.**

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## 3.4 BL CR TS 38.423

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| [R3-220064](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220064.zip) | BL CR to XnAP on Rel-17 eIAB (Samsung, Nokia, Nokia Shanghai Bell, Verizon, Qualcomm Incorporated, CATT, ZTE, Fujitsu, AT&T, KDDI, Lenovo, Motorola Mobility, LG Electronics) | CR0532r8, TS 38.423 v16.8.0, Rel-17, Cat. B |

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| ***This CR's revision history:*** | Rev#1:* Add “**Editor Note: FFS on potential revision to this procedure due to, e.g., RAN2 progress, etc**” in section 8.x.1.1.

Rev#2:* Change the Editor Note to “**Editor Note: FFS on potential revision to this procedure due to, e.g., RAN2 progress regarding simultaneous connectivity to two donors, etc.**”

Rev#3:* Remove Ericsson as co-signer

Rev#4 (pre-RAN3#112e)* Update cover page
* Re-base on TS38.423v16.5.0
* Incoporate R3-211327 agreed in RAN3#111e

Rev#5 (pre-RAN3#113e)* Re-base on TS38.423 v16.6.0

Rev#6 (pre-RAN3#114e)Re-base on TS38.423 v16.7.0 Rev#7(Post-RAN3#114e)* Incorporate R3-216142 agreed in RAN3#114e
* Change ProtocolIE-ID of id-Activated-Cells-List and id-IAB-MT-Cell-List to ‘xxx’

Rev#8 (Pre-RAN3#114bis-e)* Rebase v16.8.0
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**Q4: Do you support this BL CR update? If not, why not.**

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## 3.5 BL CR TS 38.473

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| [R3-220084](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220084.zip) | CP-based Congestion Indication for IAB Networks (Ericsson) | CR0737r11, TS 38.473 v16.8.0, Rel-17, Cat. B |

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| ***Reason for change:*** | Enabling CP-based congestion detection in IAB Networks |
|  |  |
| ***Summary of change:*** | Adding a congestion indicator in GNB-DU STATUS INDICATION message. |
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| ***Consequences if not approved:*** | CP-based congestion detection in IAB Networks not supported. |
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| ***This CR's revision history:*** | Rev1-2: changes during the RAN3#111-e meetingRev3: rebased on TS 38.473 v16.5.0Rev4: corrected the meeting number and dateRev5: used the newest CR template (CR-Form-v12.1)Rev6: included the agreements from RAN3#112-eRev7: rebased on TS 38.473 v16.6.0Rev8: rebased on TS 38.473 v16.7.0Rev9: included R3-216184, agreed at the RAN3#114-eRev10: changed the author of all change marks to ‘Author’Rev11: rebased on TS 38.473 v16.8.0 |

**Q5: Do you support this BL CR update? If not, why not.**

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## 3.6 Workplan

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| [R3-220291](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220291.zip) | Updated Workplan for Rel-17 IAB (Qualcomm Incorporated (WI Rapporteur)) | discussion |

The workplan draft was floated on the reflector before deadline. No comments were received.

**Q6: Do you have any comments on the workplan?** **Can the items on the workplan be prioritized (critical vs. less critical)? Which of the less critical items could be de-prioritized for Rel-17?**

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## 3.5 Draft CR TS 38.300

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| [R3-220292](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220292.zip) | draft CR for 38.300 on Rel-17 IAB enhancements (Qualcomm Incorporated) | discussion |

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| ***Reason for change:*** | RAN3 introduced additional functionality in Rel-17 IAB such as inter-donor partial migration, inter-donor RLF recovery, inter-donor redundancy and CP-UP separation. |
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| ***Summary of change:*** | Addition of St2 description related to inter-donor partial migration, inter-donor RLF recovery, inter-donor redundancy and CP-UP separation. Some corrections of Rel-16 text.  |
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| ***Consequences if not approved:*** | Rel-17 IA features of inter-donor partial migration, inter-donor RLF recovery, inter-donor redundancy and CP-UP separation cannot be supported. |

This draft is new. Please read it and provide feedback.

A copy has been uploaded to the draft folder.

**Q6: Do you have any comments on draft CR?**

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# PHASE II: Convergence of PH1

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# References

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| [R3-220012](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220012.zip) | CR on CP-UP separation for Rel-17 IAB (Nokia, Nokia Shanghai Bell, Samsung, Verizon, Qualcomm Incorporated, CATT, ZTE, Fujitsu, AT&T, KDDI, Lenovo, Motorola Mobility, LG Electronics) | CR0020r5, TS 38.420 v16.0.0, Rel-17, Cat. B |
| [R3-220015](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220015.zip) | CP-based Congestion Mitigation for IAB Network (ZTE) | CR0076r3, TS 38.470 v16.5.0, Rel-17, Cat. B |
| [R3-220063](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220063.zip) | BL CR to TS 38.401 on support of eIAB (Huawei) | CR0179r7, TS 38.401 v16.8.0, Rel-17, Cat. B |
| [R3-220064](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220064.zip) | BL CR to XnAP on Rel-17 eIAB (Samsung, Nokia, Nokia Shanghai Bell, Verizon, Qualcomm Incorporated, CATT, ZTE, Fujitsu, AT&T, KDDI, Lenovo, Motorola Mobility, LG Electronics) | CR0532r8, TS 38.423 v16.8.0, Rel-17, Cat. B |
| [R3-220084](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220084.zip) | CP-based Congestion Indication for IAB Networks (Ericsson) | CR0737r11, TS 38.473 v16.8.0, Rel-17, Cat. B |
| [R3-220291](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220291.zip) | Updated Workplan for Rel-17 IAB (Qualcomm Incorporated (WI Rapporteur)) | discussion |
| [R3-220292](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114bis-e%5CDocs%5CR3-220292.zip) | draft CR for 38.300 on Rel-17 IAB enhancements (Qualcomm Incorporated) | discussion |