**3GPP TSG-RAN WG2 Meeting #112-eR2-201xxxx**

**Online, 2–13 November 2020**

**Agenda item: 6.2.4**

**Source: vivo (Rapporteur)**

**Title: Report of [AT112-e][020][IAB] LTE RRC 36331 (vivo)**

**Document for: Discussion and Agreement**

# 1 Introduction

This is to report the result of the following email discussion in RAN2#112-e Meeting [1].

* [AT112-e][020][IAB] LTE RRC 36331 (vivo)

Treat 36331 tdocs under 6.2.4

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

The remainder of this document is organized as the following. The discussions are in Section 3 and the conclusions are summaried in Section 4. Please provide your comments by Tuesday 10 Nov 1200 UTC so that we have time to prepare the suammary.

# 2 Contact Information

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provide input to provide their contact information in this table:

|  |  |
| --- | --- |
| Company | Contact: Name (E-mail) |
| vivo | Kimba Dit Adamou, Boubacar (kimba@vivo.com) |
| Nokia | malgorzata.tomala@nokia.com |
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# 3 Discussion

Companies are invited to provide their views/comments on the changes proposed by the CRs listed below in the following tables.

R2-2009322 Miscellaneous corrections to TS 36.331 for IAB vivo CR Rel-16 36.331 16.2.1 4459 - F NR\_IAB-Core

R2-2010230 Support of Rel-16 features for SCG in EN-DC Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4501 - F NR\_IAB-Core

## 3.1 Miscellaneous corrections to TS 36.331

The paper R2-2009322 proposes a number of modifications, the proposed changes are briefly described below.

1. As there is no IAB related description in 36.300, R2-2009322 proposes to remove the reference to TS 36.300 and add TS 38.300 as one of the reference sources in clause 2.

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| The RRC protocol is also used to configure the radio interface between an IAB-node and its parent nodes as specified in TS 38.300 [xxx]. |

**Q1: Do you agree to refer to TS 38.300 instead of TS 36.300 for IAB in the above description? If not, please further provide your comments in the following table.**

|  |  |  |
| --- | --- | --- |
| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | Agree |  |
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1. The IAB related terms are used in 36.331 without related descriptions, R2-2009322 proposes to add the explanations for abbreviations IAB/IAB-DU/IAB-MT in clause 3.

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| * H-SFN Hyper SFN * IAB Integrated Access and Backhaul * IAB-DU IAB-node DU * IAB-MT IAB Mobile Termination * IDC In-Device Coexistence * IE Information element |

**Q2: Do you agree to add the above abbreviation descriptions with respect to IAB in 36.331? If not, please further provide your comments in the following table.**

|  |  |  |
| --- | --- | --- |
| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | No strong view | By referring to 38.300, the abbreviations will become applicable to 36.331, therefore the change is not that essential |
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1. Replace ‘F1AP dedicated information’ with ‘F1-C related information’ as agreed in the RAN2#111-e.

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| 5.6.1.2 Initiation E-UTRAN initiates the DL information transfer procedure whenever there is a need to transfer NAS, non-3GPP dedicated information, time reference information or F1-C related information. E-UTRAN initiates the DL information transfer procedure by sending the *DLInformationTransfer* message. |
| 5.6.2.1 General   Figure 5.6.2.1-1: UL information transfer  The purpose of this procedure is to transfer NAS or (tunnelled) non-3GPP dedicated information from the UE to E-UTRAN, or to transfer F1-C related information from IAB-DU to IAB Donor-CU via IAB-MT in RRC\_CONNECTED. |

**Q3: Do you agree the proposed changes above? If not, please further provide your comments in the following table.**

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| --- | --- | --- |
| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | Agree |  |
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1. The contribution R2-2009322 states that the FD of *iab-NodeIndication-r16* does not capture the agreement made in RAN2#110-e:

*[048] Inclusion of iab-NodeIndication-r16 in RRCSetupComplete message is used as an indication of IAB-MT supporting the defined minimum IAB-MT capabilities set*.

And propose to add the reference to TS 38.306 and update the field description of *iab-NodeIndication-r16* accordingly.

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| ***iab-NodeIndication***  This field is used to indicate that the connection is being established by an IAB-node as specified in TS 38.300 [xxx]. This field is also used to indicate the minimum IAB-MT capabilities set that the IAB-MT shall support as defined in TS 38.306 [87]. |

**Q4: Do you agree the proposed change above? If not, please further provide your comments in the following table.**

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| --- | --- | --- |
| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | Disagree | Similar change is discussed for 38.331. It should be aligned. Nevertheless, we disagree with the formulation proposed here. This could be reformulated to state: “it indicates the support for minimum IAB-MT capabilities” -i.e. not capabilities, but support for those. |
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1. Add the suffix ‘-r16’ to the field ‘*iab-NodeIndication*’ and ‘*bh-RLF*’.

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| RRCConnectionSetupComplete-v1610-IEs ::= SEQUENCE {  rlos-Request-r16 ENUMERATED {true} OPTIONAL,  cp-CIoT-5GS-Optimisation-r16 ENUMERATED {true} OPTIONAL,  up-CIoT-5GS-Optimisation-r16 ENUMERATED {true} OPTIONAL,  pur-ConfigID-r16 PUR-ConfigID-r16 OPTIONAL,  lte-M-r16 ENUMERATED {true} OPTIONAL,  iab-NodeIndication-r16 ENUMERATED {true} OPTIONAL, nonCriticalExtension SEQUENCE {} OPTIONAL  } |

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| [[ locationInfo-r16 LocationInfo-r10 OPTIONAL,  logMeasResultListBT-r16 LogMeasResultListBT-r15 OPTIONAL,  logMeasResultListWLAN-r16 LogMeasResultListWLAN-r15 OPTIONAL,  failureType-v1610 ENUMERATED {t312-Expiry, scg-lbtFailure,  beamFailureRecoveryFailure, bh-RLF-r16, spare4, spare3, spare2, spare1} OPTIONAL  ]] |

**Q5: Do you agree the proposed changes above? If not, please further provide your comments in the following table.**

|  |  |  |
| --- | --- | --- |
| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | Agree |  |
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**Summary for** **R2-2009322:**

According to the feedback, the CR can be agreed except for the 4th change.

**Proposal 1: Agree the intention of R2-2009322, except for the change of adding “This field is also used to indicate the minimum IAB-MT capabilities set that the IAB-MT shall support as defined in TS 38.306 [87]”.**

## 3.2 Support of Rel-16 features for SCG in EN-DC

The paper R2-2010230 states that in the latest specification, the FD of nr-SecondaryCellGroupConfig in the *RRCConnectionReconfiguration* message only allows SgNB to provide *secondaryCellGroup*, *conditionalReconfiguration*, *otherConfig* and/or *measConfig*. That means according to the latest specification, IAB cannot be applied to the SCG in case of EN-DC.

Therefore the contribution proposes to clarify that the *nr-SecondaryCellGroupConfig* in the *RRCConnectionReconfiguration* message can include *bap-Config* and *iab-IP-AddressConfigrationList*. The modification is given below for your convenience:

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| ***RRCConnectionReconfiguration* field descriptions** |
| ***nr-SecondaryCellGroupConfig***  Includes the NR *RRCReconfiguration* message as specified in TS 38.331 [82]. In this version of the specification, the NR RRC message only includes fields *secondaryCellGroup, conditionalReconfiguration, otherConfig, bap-Config, iab-IP-AddressConfigurationList* and/ or *measConfig*. If *nr-SecondaryCellGroupConfig* is configured, the network always includes this field upon MN handover to initiate an NR SCG reconfiguration with sync and key change. |

**Q6: Do you agree the proposed changes above? If not, please provide your comments in the following table.**

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| Company | Agree as is; Agree with changes; Disagree | Detailed Comments |
| Nokia | Agree | We agree t has been overlooked |
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**Summary for R2-2010230:**

This was also briefly discussed during the online meeting and in the email discussion of [019] [IAB] NR RRC 38331, according to the majority view this can be agreed.

**Proposal 2: Agree the intention of R2-2010230.**

# 4 Conclusion

**Proposal 1: Agree the intention of R2-2009322, except for the change of adding “This field is also used to indicate the minimum IAB-MT capabilities set that the IAB-MT shall support as defined in TS 38.306 [87]”.**

**Proposal 2: Agree the intention of R2-2010230.**

# 5 References

[1] RAN2 112-e Chairman Notes 2020-11-02 1600 UTC.docx