**3GPP TSG RAN WG2 Meeting #111-e R2-2008408   
E-Conference, August 17th – August 28th 2020**

**Agenda item: 5.4.2**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Summary of [AT111-e][042][NR15] LTE Other (Nokia)**

**Document for: Discussion and Decision**

1. Introduction

This is a summary of below offline discussion:

### 5.4.2 LTE changes related to NR

LTE Other

* [AT111-e][042][NR15] LTE Other (Nokia)

Scope: Treat [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip), [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip), R2-2007350, R2-2007351, R2-2008040, R2-2008041 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-15 36.331 15.10.0 4363 - F NR\_newRAT-Core

[R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-16 36.331 16.1.1 4364 - F NR\_newRAT-Core

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[R2-2007350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007350.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.10.0 4382 - F NR\_newRAT-Core

[R2-2007351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007351.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.1.0 4383 - A NR\_newRAT-Core

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[R2-2008040](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008040.zip) Correction for Qrxlevmin description in SIB24     Qualcomm Incorporated   CR       Rel-15 36.331 15.10.0   4420    -           F          LTE\_eMob-Core

[R2-2008041](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008041.zip) Correction for Qrxlevmin description in SIB24     Qualcomm Incorporated   CR       Rel-16 36.331 16.1.1  4421    -   A          LTE\_eMob-Core

2. Discussions

## 2.0 Contact list for delegates

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 | Delegate contact |
| Nokia, Nokia Shanghai Bell | Amaanat Ali (amaanat.ali@nokia.com) |
| MediaTek | Chun-Fan (Felix) Tsai – (Chun-Fan.Tsai@mediatek.com) |
| Huawei, HiSilicon | Lili Zheng (zhenglili4@huawei.com) |
| Ericsson2 | hakan.l.palm@ericsson.com |
| Intel | Sudeep Palat (Sudeep.k.palat@intel.com) |
| Qualcomm Incorporated | Masato Kitazoe |
| CATT | Jing Liang (liangjing@catt.cn) |
| vivo | Boubacar (kimba@vivo.com) |

## 2.1 Discussion on CRs [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip) and [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip)

[R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-15 36.331 15.10.0 4363 - F NR\_newRAT-Core

[R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-16 36.331 16.1.1 4364 - F NR\_newRAT-Core

|  |  |
| --- | --- |
| Company | Feedback |
| Nokia, Nokia Shanghai Bell | The initial feedback from our side is that the use case is not clear. For example, what was the scenario in which the issue is observed and what is particularly broken in the spec which you would like to fix? |
| MediaTek | We think the intention is to say that there is no need to have *drb-ToAddModList* in case all DRB using the NR PDCP in NGEN-DC. We are fine with the change but does not think this is essential. |
| Huawei, HiSilicon | We think the issue is valid and support the CR. |
| Ericsson2 | We agree some change could be done. But draft CR does looks complicated  Splitting E-UTRA case like this is better:  *The field is mandatory present*  *-     in case of handover to E-UTRA (not NG(EN-DC)), or*  *-in case of handover to EN-DC with the configuration for at least one MCG RLC bearer configuration; or*  *-     when the fullConfig is included in the RRCConnectionReconfiguration message with the configuration for at least one MCG bearer or split data bearer;*  *In case of RRC connection establishment (excluding RRConnectionResume); and RRC connection re-establishment the field is not present; otherwise the field is optionally present, need ON.*  The term RLC bearer configuration is already defined in 36.331:  ***RLC bearer configuration:*** *The lower layer part of the radio bearer configuration comprising the RLC and logical channel configurations.*  Definitions for MCG and split bearer are missing. |
| Intel | Agree with the intention. Agree with Ericsson comments that we need to capture the HO to E-UTRAN with and without EN-DC separately. |
| Qualcomm Incorporated | Agree to the intention of the CRs.  Why is release-16 CR Cat.F? |
| CATT | Ericsson's comment is ok for us.  The Rel-16 CR should be Cat A. |
| vivo | The intention and Ericsson’s proposal are fine, but we do not think the change is essential. |

**5 companies think the intent of the CR is understood and something must be done. 3 companies agree to the intent of the CR but do not think the change is essential.**

**Proposal 1: Pursue R2-2006997 and R2-2006998 and include companies’ feedback.**

## 2.2 Discussion on CRs [R2-2007350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007350.zip) and [R2-2007351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007351.zip)

The following documents are relevant for the discussion:

[R2-2007350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007350.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.10.0 4382 - F NR\_newRAT-Core

[R2-2007351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007351.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.1.0 4383 - A NR\_newRAT-Core

|  |  |
| --- | --- |
| Company | Comments |
| Nokia, Nokia Shanghai Bell | [Proponent] This is a real issue to fix as this caused some potential concern during IODT discussion. |
| MediaTek | The CR content looks correct to us. However, we failed to understand why this is related to NR with WI code – NR\_newRAT-Core. Shouldn’t the WI code be changed? |
| Huawei, HiSilicon | We think the change is ok. |
| Ericsson2 | We support the CR |
| Intel | OK. The reason for change in cover page should say 36.306 instead of 36.331. |
| Qualcomm Incorporated | Same comment as MediaTek. Looks like a pure LTE issue. |
| CATT | We think the change is ok. |
| vivo | We are fine with the changes proposal |

**All companies think the intent of the CR is understood and must be pursued. The CR is purely LTE issue and does not need NR WI code. During offline checking suggested to use LTE\_1024QAM\_DL-Core, TEI15/TEI16 as the WI codes.**

**Proposal 2: Pursue R2-2007350 and R2-2007351 and include companies’ feedback.**

## ~~2.3 Discussion on CRs~~ [~~R2-2008040~~](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008040.zip) ~~and~~ [~~R2-2008041~~](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008041.zip)

~~The following documents are relevant for the discussion:~~

[~~R2-2008040~~](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008040.zip) ~~Correction for Qrxlevmin description in SIB24     Qualcomm Incorporated   CR       Rel-15 36.331 15.10.0   4420    -           F          LTE\_eMob-Core~~

[~~R2-2008041~~](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008041.zip) ~~Correction for Qrxlevmin description in SIB24     Qualcomm Incorporated   CR       Rel-16 36.331 16.1.1  4421    -   A          LTE\_eMob-Core~~

|  |  |
| --- | --- |
| ~~Company~~ | ~~Comments~~ |
| ~~Nokia, Nokia Shanghai Bell~~ | ~~Looks correct. Error was caused because in NR this \*2 was defined in IE description not in field description and LTE does not use IE. But in order to improve we would introduce IE and this behaviour similarly as in NR.~~ |
| ~~MediaTek~~ | ~~We think that the CR is correct but understand this is going to be handled in e-mail discussion #012 according to latest chairman’s guideline.~~ |
| ~~Ericsson~~ | ~~We agree with the intention. In 38.331, the “Q-RxLevMin” type is used, and for that type it is clarified that the value should be multiplied with 2. However, in 36.331 the value range is hard coded. We are open to discuss whether this should be clarified in the semantics description of the parameter or an IE should be introduced similar to NR.~~  ~~It is also not clear to us whether this discussion is handled here or in #012. Note that there seems to be no directory created for #012 yet.~~ |
| ~~Huawei, HiSilicon~~ | ~~The change is reasonable. The similar description should be added to~~ *~~q-QualMin~~*~~, indicating that the actual value = field value [dB] (in this case no need to be multiplied by 2).~~ |
| ~~vivo~~ | ~~Agre with MediaTek~~ |

**Proposal 3: Based on Chairman’s guidance the discussion of CRs in** [**R2-2008040**](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008040.zip) **and** [**R2-2008041**](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008041.zip) **moved to [AT111-e][025][NR15]**

# 3. Conclusion

Thanks to all the companies participating in the discussion and providing valuable feedback:

**5 companies think the intent of the CR is understood and something must be done. 3 companies agree to the intent of the CR but do not think the change is essential.**

**Proposal 1: Pursue R2-2006997 and R2-2006998 and include companies’ feedback.**

**All companies think the intent of the CR is understood and must be pursued. The CR is purely LTE issue and does not need NR WI code. During offline checking suggested to use LTE\_1024QAM\_DL-Core, TEI15/TEI16 as the WI codes.**

**Proposal 2: Pursue R2-2007350 and R2-2007351 and include companies’ feedback.**

**Proposal 3: Based on Chairman’s guidance the discussion of CRs in** [**R2-2008040**](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008040.zip) **and** [**R2-2008041**](file:///D:\Documents\3GPP\tsg_ran\WG2\RAN2\2008_R2_111-e\Docs\R2-2008041.zip) **moved to [AT111-e][025][NR15].**

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