3GPP TSG-RAN WG2 Meeting #112 Electronic R2-200xxxx

**Elbonia, 02 – 13 November 2020**

**Agenda item: 5.4.2**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Summary of [AT112-e][010][NR15] LTE changes (Nokia)**

**Document for: Discussion and Decision**

1. Introduction

This is a summary of below offline discussion:

### 5.4.2 LTE changes related to NR

* [AT112-e][010][NR15] LTE changes (Nokia)

Treat R2-2009950, R2-2008823, R2-2008824, R2-2009946, R2-2010600, R2-2010601

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

SIB19+ extension

[R2-2009950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009950.zip) Open issues on SIB extension correction Ericsson discussion Rel-15 NR\_newRAT-Core

* This discussion is already handled online by Chairman

256QAM

[R2-2008823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008823.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.9.0 1787 - F NR\_newRAT-Core

[R2-2008824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008824.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.2.0 1788 - A NR\_newRAT-Core

Cell Reselection

[R2-2009946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009946.zip) Clarification for the final check on cell selection criterion Ericsson, Qualcomm discussion Rel-15 NR\_newRAT-Core

SN Release

[R2-2010600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010600.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-15 36.331 15.11.0 4523 - F NR\_newRAT-Core

[R2-2010601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010601.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4524 - A NR\_newRAT-Core

2. Discussions

## 2.1 Discussion on CRs R2-2009950

SIB19+ extension

[R2-2009950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009950.zip) Open issues on SIB extension correction Ericsson discussion Rel-15 NR\_newRAT-Core

* This discussion is already handled online by Chairman.

## 2.2 Discussion on CRs R2-2008823 and R2-2008824

The following documents are relevant for the discussion:

256QAM

[R2-2008823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008823.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.9.0 1787 - F NR\_newRAT-Core

[R2-2008824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008824.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.2.0 1788 - A NR\_newRAT-Core

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| Company | Comments |
| Nokia, Nokia Shanghai Bell | [Proponent] This seems to be missed and needs an alignment. |
| QCOM | Agree with Nokia, since the 36.331 has already captured this capability in the Feature Set per CC in R15. |
| MediaTek | The intention is to add field description for *ul-256QAM-r15*, it looks ok for as. I am not whether which WI code add the ASN.1 *ul-256QAM-r15*, but it seems not related to NR. Also, for CR coversheet, “Other core specifications” is not necessary to mark. |
| Huawei | Agree with the changes. |

## 2.3 Discussion on CR [R2-2009946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009946.zip)

Cell Reselection

[R2-2009946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009946.zip) Clarification for the final check on cell selection criterion Ericsson, Qualcomm discussion Rel-15 NR\_newRAT-Core

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| Company | Comments |
| Nokia, Nokia Shanghai Bell | Question for clarification, is this a real issue in network from Rel-8? |
| QCOM | It’s a clarification to ensure a common understanding.  It’s an expected behaviour by the UE when camping on the reselected target cell, to use the parameters configured by the target cell to do a final suitability check |
| MediaTek | We also agree that the UE shall do the final checking based on target cell SIB before camping on the cell.  However, it seems this is a legacy behaviour (not just in LTE Rel-15). We are not sure it is really needed to clarify now (but fine to have it if majorities prefer)  In addition, we don’t know this could avoid the ping-pong effect. Maybe the proponent could clarify. |
| Huawei | The text related to final suitability check in 38.304 is applicable to the scenarios where the target cell is an NR cell (including NR reselecting to NR and LTE reselecting to NR).  Therefore, we think the “LTE reselection to NR” case has already been handled, and the CR is not needed.  As for the case of LTE reselecting to LTE, we believe it’s out of the scope of this agenda. |

## 2.4 Discussion on CR [R2-2010600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010600.zip) and [R2-2010601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010601.zip)

SN Release

[R2-2010600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010600.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-15 36.331 15.11.0 4523 - F NR\_newRAT-Core

[R2-2010601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010601.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4524 - A NR\_newRAT-Core

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| Company | Comments |
| Nokia, Nokia Shanghai Bell | We are not sure/remember in which meeting this was discussed but the decision was that this would be the assumption that the restriction of EN-DC is automatically removed due to SCG release. Could you please confirm? |
| QC | We agree with the concept, but not sure if this CR is needed, as it’s already clear that p-MaxEUTRA will be released when nr-Config = release is received. |
| Ericsson | Exactly the same issue was discussed in the RAN2#107bis meeting within the offline 025 (we were leading it). The common understanding at that time was that we have the release of TDM-pattern and the power fields in case of RRC re-establishment because the target eNB does not know whether the UE is configured with the TDM-pattern and the power fields until the network obtains the UE context. The same problem was then identified and corrected in case of resume procedure (we had a CR in the RAN2#108 meeting to fix this).  However, for the case of RRC Connection Reconfiguration, the common understanding was that the network knows whether the UE is configured with TDM-pattern and the power fields. Therefore, there is no need of releasing them implicitly but the network should release them explicitly.  For this reason, we think this (that by the way, is a big NBC change) should not be discussed again and the CR should not be agreed. |
| MediaTek | We agree with QC. If we set nr-Config = release, it implies that the “setup” part is released. So, the p-MaxEUTRA is already released. The CR is not necessary.  nr-Config-r15 CHOICE {  release NULL,  setup SEQUENCE {  endc-ReleaseAndAdd-r15 BOOLEAN,  nr-SecondaryCellGroupConfig-r15 OCTET STRING OPTIONAL, -- Need ON  p-MaxEUTRA-r15 P-Max OPTIONAL -- Need ON  }  There may be some limitation while doing release and add via (endc-ReleaseAndAdd-r15). In this case, the p-MaxEUTRA is not releasable. But that is different issue. |
| Huawei | Similar changes (releasing p-MaxEUTRA for SCG release) were proposed in R2-1913309 and R2-2002788, and were not approved. We should not revisit the issue. |

# 3. Conclusion

Summary to be provided at end of the discussion.

# 4. Contact Information

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