**3GPP TSG-RAN2 Meeting #113-edraft*\_*R2-2102151**

**Omline, 25th January – 5th February 2021**

**Agenda Item: 4.1**

**Source: Mediatek Inc.**

**Title: offline\_[AT113-e][301][NBIOT R15] Correction on NPRACH resources**

**Document for: Discussion and Decision**

# Introduction

This document is the summary of the offline email discussion “[AT113-e][301][NBIOT R15] Correction on NPRACH resources in SIB2-NB and SIB23-NB (Mediatek)”, as indicated below:

* [AT113-e][301][NBIOT R15] Correction on NPRACH resources in SIB2-NB and SIB23-NB (Mediatek)

**Scope:**

Week 1: Determine whether there is sufficient support in principle, collect initial comments.

      Week 2: Agree the CRs.

**Intended outcome:**

      Week 1: Report in R2-2102151

      Week 2: Agreed CRs / decision.

**Deadline:**

      Week 1: Jan 27 1100 UTC

      Week 2 (if needed): Feb 04 1100 UTC

# Discussion

This document discusses the CRs as below:

[R2-2101822](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_113-e/Docs/R2-2101822.zip) Correction on NPRACH resources in SIB2-NB and SIB23-NB MediaTek Inc., ZTE CR Rel-15 36.331 15.12.0 4592 - F NB\_IOTenh2-Core

[R2-2101824](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_113-e/Docs/R2-2101824.zip) Correction on NPRACH resources in SIB2-NB and SIB23-NB MediaTek Inc., ZTE CR Rel-16 36.331 16.3.0 4593 - A NB\_IOTenh2-Core

The intention is to check whether there is sufficient support in principle, collect initial comments.

Companies are invited to provide comments in the table below

|  |  |  |
| --- | --- | --- |
| **Company** | **Do you agree with the intention of the CRs? (Yes or No)** | **Detailed comments** |
| Huawei, HiSilicon | **yes** | We have editorial comments on the coversheet (meeting line, date, FM2, ...).  For the impacted functionality, we think it should refer to the actual features, i.e. EDT and NPRACH enhancements.  For the changes themselves, they are globally fine but it would be better to introduce the changes at the same position in the field description for the different cases. |
| Qualcomm | Yes | The newly added condition conflicts with the existing condition (highlighted below). The NPRACH resource list is not an ordered list i.e. first entry does not necessarily imply it is for coverage level 0. Which entry in the NPRACH list is appilicable to which coverage level is defined in TS 36.321. Infact the existing conditions are conflicting (see yellow highlighted and green hihglighted).  ***nprach-ParametersListFmt2, nprach-ParametersListFmt2EDT***  Configures NPRACH parameters for each NPRACH resource format 2 on one UL carrier. Up to three NPRACH resources can be configured on one carrier. Each NPRACH resource is associated with a different number of NPRACH repetitions.  E-UTRAN includes the same number of entries, and listed in the same order, as in *nprach-ParametersList* in *SystemInformationBlockType2-NB*.  The NPRACH resources in *nprach-ParametersListFmt2EDT* are used to initiateEDT. Each NPRACH resource is associated with a TBS signalled in the corresponding entry of *edt-TBS-InfoList.*  E-UTRAN configures the NPRACH resources format 2 so that they do not overlap in time domain with the NPRACH resources configured in *nprach-ParametersList* and *nprach-ParametersListEDT* on the same UL carrier.  If there is no NPRACH resource in *nprach-ParametersListFmt2* (respectively *nprach-ParametersListFmt2EDT*) on any UL carrier, including the anchor carrier, for one NPRACH repetition level, the UE uses the NPRACH resources in *nprach-ParametersList* (respectively *nprach-ParametersListEDT*) for this NPRACH repetition level. Otherwise, the UE uses only NPRACH resources in *nprach-ParametersListFmt2* (respectively *nprach-ParametersListFmt2EDT*).  If E-UTRAN configures NPRACH resources format 2 in one NPRACH repetition level, the E-UTRAN configures NPRACH resources format 2 in all NPRACH repetition levels upwards.  We think the hihglighted text should be deleted.  Similar comment applies to *NPRACH-ConfigNB-NB*. |

# Conclusion

**Conclusion:**

**Proposal:**