**3GPP TSG-RAN WG2 Meeting #113-e R2-210xxxx**

**Electronic, 25th Jan. – 5th Feb. 2021**

**Source: vivo**

**Title:** **Summary of offline discussion #508**

**Agenda Item:** **6.9.3**

**Document for:** **Discussion and Decision**

1. Introduction

The document is to report the summary of the following email discussion:

|  |
| --- |
|  **[AT113-e][508][R16-PowSav] CR R2-2100456 on 38.331  (Vivo)**Scope:   Discuss submitted CR R2-2100456, agree on which corrections are acceptable and update CR with acceptable changes only.          Intended outcome:   Agreeable CRs for email approval      Deadline for providing comments:    Companies comments/text suggestions and on need/criticality of the CRs– Jan. 28th  Updated CRs (the ones agreed to be pursued) from responsible companies Jan. 29nd |

1. Discussion

## 1st change

The contribution [1] indicates that the description of *combineRelaxedMeasCondition* is not correctly captured in TS38.331.

In current field description of *combineRelaxedMeasCondition*, this parameter configures the UE to fulfil both criteria in order to relax measurement requirements for cell reselection. But in fact, when both criteria are fulfilled, UE could perform relaxed measurement regardless of whether *combineRelaxedMeasCondition* is configured or not, which is captured in TS 38.304 and TS 38.133.

Thus, it was proposed to fix the issue as below [1]:

|  |
| --- |
| ***combineRelaxedMeasCondition***When both *lowMobilityEvalutation* and *cellEdgeEvalutation* criteria are present in SIB2, this parameter indicates when the UE needs to fulfil both low mobility criterion and not at cell edge criterion to determine whether to relax measurement requirements. If the field is absent, the UE is allowed to relax measurement requirements for cell reselection when either or both of the criteria are met. (See TS 38.304 [20], clause 5.2.4.9.0) |

**Q1: Companies are invited to provide their views whether they agree with the above issues 1 and the corresponding change.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments, if any** |
| Ericsson | No | We understand that vivo proposes to use exactly the same wording as used to define the parameter in 38.304: ***combineRelaxedMeasCondition****This indicates when the UE needs to fulfil both low mobility criterion and not-at-cell-edge criterion to determine whether to relax measurement requirements.*But we do not understand what is the problem with the current wording in 38.331. It is our understanding that the semantics description in 38.331 does not specify in every detail the requirements, i.e. only a high level description is provided. For the details you need to read 38.304.  |
| Qualcomm | Neutral | The proposed change does seem to be a rewording, not a technical correction, of the existing text, which is sufficient for a field description. But we understand the proposed change would better align the description of the parameter in 38.331 and 38.304. Therefore, we are fine either way and can support what the majority support. |
| vivo | Yes with comment | In our understanding, the original wording could be misunderstood as “the UE needs to fulfil both criteria in order to relax measurement requiremeents for cell reselection **only when the parameter *combineRelaxedMeasCondition* is configured**”. Thus, we have proposal to update the wording.If the proposed wording still cannot solve the problem, we are fine to provide another updated wording, e.g.“…, this parameter indicates the UE cannot base on one of low mobility criterion and not at cell edge criterion to determine whether to relax measurement requirements.”If majority companies think there is no technique issue or there is no room for any misunderstanding, we are fine to follow the majority.  |
| Huawei, HiSilicon | Neutral | It’s not an essential change, but if we are anyway going to have a CR then fine to clarify. The change could be done in a much simpler way rather than reword the entire thing e.g.***combineRelaxedMeasCondition***When both *lowMobilityEvalutation* and *cellEdgeEvalutation* criteria are present in SIB2, this parameter configures how the UE should use both criteria in order to relax measurement requirements for cell reselection. If the field is absent, the UE is allowed to relax measurement requirements for cell reselection when either or both of the criteria are met. (See TS 38.304 [20], clause 5.2.4.9.0) |
| Nokia, Nokia Shanghai Bell | Neutral | Nothing is broken  |

## 2nd change

The contribution [1] indicates that the description of *highPriorityMeasRelax* is not correctly captured in TS38.331.

In current field description of*highPriorityMeasRelax*, it is mentioned: If the field is absent, the UE shall not relax measurements on high priority frequencies beyond “Thigher\_priority\_search”

But in fact, when both criteria are fulfilled, UE could perform relaxed measurement up to 1hour for high priority frequencies, which is beyond “Thigher\_priority\_search” regardless of whether *highPriorityMeasRelax* is configured or not, according to TS 38.133 or TS 38.304.

Thus, it was proposed to fix the issue as below [1]:

|  |
| --- |
| ***highPriorityMeasRelax***Indicates whether measurements can be relaxed on high priority frequencies (see TS 38.304 [20], clause 5.2.4.9.0). “” |

**Q2: Companies are invited to provide their views whether they agree with the above issues 2 and the corresponding change.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments, if any** |
| Ericsson | TBD | In 38.331 we need to specify the UE ehaviour when an optional IE is absent, i.e. we cannot just delete that part. We tend to agree with the comment from vivo, i.e. the *higPriorityMeasRelax* has successfully been watered down, i.e. only applicable when only lowmobility trigger is configured only and fulfilled. We propose to find an alternative wording for the case the IE is absent, and to refer to 38.304 for further details.  |
| Qualcomm | See comment | We have similar view with Ericsson, i.e. field description should include a clause specifying what UE behavior is when an optional IE is absent. We could change the existing text as follows:Indicates whether measurements can be relaxed on high priority frequencies (see TS 38.304 [20], clause 5.2.4.9.0). If the field is absent, the UE shall not relax measurements on high priority frequencies beyond “Thigher\_priority\_search” unless both low mobiity and not-at-cell-edge criteria are fullfilled (see TS 38.133 [14], clause 4.2.2.7). |
| vivo | Yes with comment | We are fine with the comments from Ericsson and Qualcomm. Regarding the suggestion from Qualcomm, we have some more update as below:Indicates whether measurements can be relaxed on high priority frequencies (see TS 38.304 [20], clause 5.2.4.9.0). If the field is absent, the UE shall not relax measurements on high priority frequencies beyond “Thigher\_priority\_search” unless both low mobiity and not at cell edge criteria are fullfilled (see TS 38.133 [14], clause 4.2.2.7 and TS 38.304 [20], clause 5.2.4.9.0). |
| Huawei, HiSilicon | Yes | Agree with above comments. |
| Nokia, Nokia Shanghai Bell |  | We agree with above comments that we should not remove the description about the case where the field is absent.  |

## 3rd change

The contribution [1] indicates that: in current field description of*ps-WakeUp*, the reference is TS 38.213. But this parameter is actually used in TS 38.321. Thus, the reference spec should be updated.

Thus, it was proposed to fix the issue as below [1]:

|  |
| --- |
| ***ps-WakeUp***Indicates the UE to wake-up if DCI format 2-6 is not detected outside active time (see TS 38.321 [3], clause 5.7). If the field is absent, the UE does not wake-up if DCI format 2-6 is not detected outside active time. |

**Q3: Companies are invited to provide their views whether they agree with the above issues 3 and the corresponding change.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments, if any** |
| Ericsson | Yes |  |
| Qualcomm | Yes | Agree with change |
| vivo | Yes |  |
| Huawei, HiSilicon | Yes |  |
| Nokia, Nokia Shanghai Bell | Yes |  |

1. Conclusions

TO BE ADDED.

1. Reference
2. R2-2100456, CR on 38.331 for power saving vivo CR Rel-16 38.331 16.3.1 2325 - F NR\_UE\_pow\_sav-Core