**3GPP TSG RAN WG2 Meeting #130 R2-250xxxx  
Malta, MT, 19th – 22th May, 2025**

**Agenda item: 8.5.1**

**Source: Apple (Rapporteur)**

**Title: Summary report of [POST129b][113][NES] 38.304 CR (Apple)**

**WID/SID: Netw\_Energy\_NR\_enh-Core– Release 19**

**Document for: Discussion and Decision**

# 1 Introduction

This is a summary document on collection of comments to TS 38.304 CR during below running CR discussion:

* [POST129b][113][NES] (Apple)

**Scope:** Update 38.304 running CR based on RAN2#129bis progress and maintain essential open issue list in a separate contribution (38.304 running CR can keep editor’s notes for readability).

**Intended outcome:** Updated 38.304 running CR and essential 38.304 open issue list.

**Deadline: Long email discussion**

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# 2 How open issues of RAN2#129 are handled

In RAN2#129b, the following running CR was endorsed:

*R2-2502323 Running 38.304 CR for network energy saving Apple (Rapporteur) draftCR Rel-19 38.304 18.4.0 B Netw\_Energy\_NR\_enh-Core*

* *Endorsed.*

The endorsed CR has the following 5 open issues (EN):

* Editor’s note: FFS the UE behavior if *pagingAdaptationPEI-Config* is configured.
* Editor’s note: whether to capture the barring (including no UL WUS configuration and max number of preamble transmission for OD-SIB1 request) in TS 38.331 or/and TS 38.304.
* Editor’s note: whether to capture the unbarring behavior in TS 38.331 or/and TS 38.304.
* Editor’s note: whether to capture trigger condition of OD-SIB1 acquisition procedure for RRC\_IDLE / RRC\_INACTIVE UE (i.e. reusing cell reselection criteria) in TS 38.331 or/and TS 38.304.
* Editor’s note: whether to capture OD-SIB1 operation in this separate Section or in Section 5.3.1/5.2.4.1.

After online and offline discussion of RAN2#129b, CR rapporteur handled these open issues in the way summarized in Table.1.

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| --- | --- | --- |
| **Open issue** | **Any agreement in RAN2#129b?** | **How CR Rapporteur handled it in new running CR** |
| Editor’s note: FFS the UE behavior if *pagingAdaptationPEI-Config* is configured. | Yes:  => For the case when both pei-Config-r17 and pagingAdaptationPEI-Config-r19 are configured, R19 UE supporting paging adaption should monitor PEI according to pagingAdaptationPEI-Config-r19 while other UE should monitor PEI according to pei-Config-r17.  =>For the case when pei-Config-r17 is configured and pagingAdaptationPEI-Config-r19 is absent, both R19 UE supporting paging adaption and other UE should monitor PEI according to pei-Config-r17. | * Capture agreed UE behaviour in Section 7.2.1. * The EN is removed. |
| Editor’s note: whether to capture the barring (including no UL WUS configuration and max number of preamble transmission for OD-SIB1 request) in TS 38.331 or/and TS 38.304. | Yes:  => Following agreement on “barring behavior clean-up”, capture the UE barring behavior of OD-SIB1 in both TS 38.331 and TS 38.304. Check offline whether we can rely on existing legacy UE barring specification in 38.304 (e.g. the case of RACH failure).  => (modified) On the unbarring behavior of OD-SIB1 UE, capture it as normative text in TS 38.304. Way-forward Proposal (on offline check of Proposal 1): For UE barring the OD-SIB1 cell in case of RACH failure, capture in TS 38.304, e.g.   1. If the cell is to be treated as if the cell status is "barred" due to the OD-SIB1 request number reaching preambleTransMax;   **2> UE may exclude the barred cell as a candidate for cell selection/reselection for up to 300 seconds;** | * Capture agreed UE behaviour in Section 5.3.1. * New Section X is removed. * The EN is removed. |
| Editor’s note: whether to capture the unbarring behavior in TS 38.331 or/and TS 38.304. | Yes:  **=> (modified) On the unbarring behavior of OD-SIB1 UE, capture it as normative text in TS 38.304.** | * Capture agreed UE behaviour in Section 5.3.1. * New Section X is removed. * The EN is removed. |
| Editor’s note: whether to capture trigger condition of OD-SIB1 acquisition procedure for RRC\_IDLE / RRC\_INACTIVE UE (i.e. reusing cell reselection criteria) in TS 38.331 or/and TS 38.304. | Yes:  => We do not need a separate new triggering condition of OD-SIB1 acquisition. | * Remove the condition. * New Section X is removed. * The EN is removed. |
| Editor’s note: whether to capture OD-SIB1 operation in this separate Section or in Section 5.3.1/5.2.4.1. | No | After offline discussion with some company, it seems majority view is to capture in legacy section. Thus:   * New Section X is removed. * Move UE behaviour in cell reselection to section 5.2.4.1. * Move UE barring/unbarring behaviour to section 5.3.1. * The EN is removed. |

# 3 Collection of comments on running CR after RAN2#129b

Please provide your comments in below table, and Rapporteur will response. Please do not insert any comments in running CR directly, which is hard for Rapporteur to follow all comments.

And based on existing EN and your comments, Rapporteur will identify stage 3 open issues.

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| **Company**  **+issue #**  **(e.g. A001)** | **Detailed issue and proposed change** | **Rapporteur response** |
| Nokia001 | 5.3.1 – Missing SIB1 request configuration seems to be in RRC section 5.2.2.3.1 – which then calls 5.2.2.5  Barred due to PRACH attemps seems to be in RRC new section 5.2.2.3.3x – which then calls 5.2.2.5  Last case (windows) – I did not find where is that captured?  For clarity should we in 38.304 to corresponding sections in RRC. It might be best toa void misunderstanding which scenario actually each bullet refers to? |  |
| Nokia002 | Slight rewording proposal for this “ If a UE supporting OD-SIB1 barred a cell in which OD-SIB1 is enabled due to no available *SIB1* request configuration, it considers the cell is no longer barred once its *SIB1* request configuration becomes available.”  Maybe something like this  “If a UE supporting OD-SIB1 barred a cell due to no available *SIB1* request configuration as defined in [RRC, 5.2.2.3.1], it considers the cell is no longer barred once *SIB1* request configuration of the cell is acquired.” |  |
| Xiaomi001 | How to capture the following agreement.   * For the case when pei-Config-r17 is configured and pagingAdaptationPEI-Config-r19 is absent, both R19 UE supporting paging adaption and other UE should monitor PEI according to pei-Config-r17.   [vivo] Do not observe the need to add more description. As in legacy text, UE behavior is not required as “shall monitor PEI”, but as “can monitor PEI”: 7.2.1 Paging Early Indication reception The UE may use Paging Early Indication (PEI) in RRC\_IDLE and RRC\_INACTIVE states in order to reduce power consumption. If PEI configuration is provided in system information, the UE in RRC\_IDLE or RRC\_INACTIVE state supporting PEI (except for the UEs expecting MBS group notification) can monitor PEI using PEI parameters in system information according to the procedure described below.  Therefore, we understand if pagingAdaptationPEI-Config-r19 is absent, both R19 UE supporting paging adaption and other UE can monitor legacy PEI with legacy parameters in SI, which is already allowed in current spec. |  |
| vivo001 | 5.2.4.1  If dedicated frequenecy priority parameters (*odsib1-CellReselectionPriority*, *odsib1-CellReselectionSubPriority*) are provided in system information, the UE supporting OD-SIB1 ignores the *cellReselectionPriority* and *cellReselectionSubPriorit* in the system information and applies the dedicated ones to determine frequency prioritization. If dedicated inter-frequency and/or intra-frequecy excluded cell lists (*intraFreqODSIB1-ExcludedCellList*, *interFreqODSIB1-ExcludedCellList*) are provided in system information, the UE supporting OD-SIB1 ignores *intraFreqExcludedCellList / interFreqExcludedCellList* and doesn’t consider the cell(s) in the dedicated lists as candidates for cell reselection.  Comments: typos |  |
| Google001 | [Response to Nokia001]  We agreed there should be corresponding descriptions in 38.331 to avoid misunderstanding/misalignment, but the issue is more on 38.331 as the current 304 running CR is correctly implemented according to the RAN2 agreements.  We think the closest mapping (for the case of SIB1 monitoring window) in the current 331 running CR is the following:  *5.2.2.3.3x Request for on demand SIB1*  *…*   1. *if the UE is unable to acquire the SIB1:*   *2> perform the actions as specified in clause 5.2.2.5.*  We propose to modify the above condition in 331, such as: *“if the UE is unable to acquire the SIB1* *as defined in FFS”*, assuming the FFS part specifies the UE behavior during the SIB1 monitoring window. |  |
| Ericsson01 | - if the UE is an eRedCap UE and *intraFreqReselection-eRedCap* in *SIB1* is available:  - If the field *intraFreqReselection* in *MIB* message is set to "allowed":  - the UE may select another cell on the same frequency if re-selection criteria are fulfilled;  - If the cell is to be treated as if the cell status is "barred" due to no available *SIB1* request configuration for the UE supporting OD-SIB1; or  - If the cell is to be treated as if the cell status is "barred" due to maximum number of PRACH attempts is reached for the UE supporting OD-SIB1; or  - If the cell is to be treated as if the cell status is "barred" due to failing to acqire the *SIB1* upon the expiry of the *SIB1* monitoring window as defined in [4] for the UE supporting OD-SIB1; or  Are the newly added cases now under Redcap case? Or am I misinterpreting? |  |
| Ericsson02 | RRC captures now:  ***odsib1-CellReselectionPriority, odsib1-CellReselectionSubPriority***  Cell reselection priorities to be considered by a UE supporting OD-SIB1 instead of *cellReselectionPriority*, *cellReselectionSubPriority* as specified in TS 38.304 [20].  Perhaps it is not necessary to repeat in 304 that UE ignores the legacy values? |  |
| CATT001 | 5.2.4.1 Reselection priorities handling ……  If dedicated frequenecy priority parameters (*odsib1-CellReselectionPriority*, *odsib1-CellReselectionSubPriority*) are provided in system information, the UE supporting OD-SIB1 ignores the *cellReselectionPriority* and *cellReselectionSubPriorit* in the system information and applies the dedicated ones to determine frequency prioritization. If dedicated inter-frequency and/or intra-frequecy excluded cell lists (*intraFreqODSIB1-ExcludedCellList*, *interFreqODSIB1-ExcludedCellList*) are provided in system information, the UE supporting OD-SIB1 ignores *intraFreqExcludedCellList / interFreqExcludedCellList* and doesn’t consider the cell(s) in the dedicated lists as candidates for cell reselection.  CATT: For the highlighted part above, there is one more case to consider: on a R19 NES cell,the network will not configure the R19 intraFreqODSIB1-ExcludedCellList, interFreqODSIB1-ExcludedCellList since there is no excluded cell for NES UE in real deployment. For this case, the NES UE still needs to ignore the legacy intraFreqExcludedCellList / interFreqExcludedCellList since NES Cell is included in legacy IE to bar the legacy UE. Suggest to modify it as follows,  If dedicated inter-frequency and/or intra-frequecy excluded cell lists (*intraFreqODSIB1-ExcludedCellList*, *interFreqODSIB1-ExcludedCellList*) are provided in system information, the UE supporting OD-SIB1 ~~ignores~~ *~~intraFreqExcludedCellList / interFreqExcludedCellList~~* ~~and~~ doesn’t consider the cell(s) in the dedicated lists as candidates for cell reselection. The *intraFreqExcludedCellList /interFreqExcludedCellList* may include the OD-SIB1 enabled Cell, the UE supporting OD-SIB1 ignores *intraFreqExcludedCellList /interFreqExcludedCellList* on a cell in which SIBxx is provided. |  |
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# 3 Conclusion

Based on post-meeting email discussion, Rapporteur identify the following stage 3 open issues: