**3GPP TSG RAN WG2 Meeting #130 R2-250xxxx
Malta, MT, 19th to 23rd May 2025**

**Agenda item: 8.5.1**

**Source: Ericsson**

**Title: Comments to 38.331 CR for NES**

**Document for: Discussion and Decision**

# 1 Introduction

This is a summary document on collection of comments to TS 38.331 CR during below running CR discussion:

* [POST129b][111][NES] (Ericsson)

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

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

**Deadline: Long email discussion**

DL for the email discussion is 2nd May, please provide your comments early so there is time to resolve when needed. Last comments to take into account should be uploaded by 23:59 UTC 1st May. Later comments are taken into account by best effort.

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

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| --- | --- | --- |
| Company | Name | Email Address |
| Ericsson | Helka-Liina Määttänen | Helka-liina.maattanen@ericsson.com |
| Apple  | Peng Cheng | Pcheng24@apple.com |
| OPPO | Qianxi Lu | qianxi.lu@oppo.com |
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# 3 Open issue list

**5.2.2.3.1**

Editor’s note:

FFS whether to capture the UE first should acquire a valid SIB1 (e.g. via SIB1 request) for camping on an OD-SIB1 NES cell.

FFS RAN1 discussion on e.g. *ssb-SubcarrierOffset*

**5.2.2.3.3x**

Editor’s note:

FFS how does UE check is SIB1 is already provided.

FFS: if there is need to emphasize it is normal uplink

FFS reference for where are the details on how UE is obtaining SIB1, possibly RAN1 specification

**5.2.2.4.2x**

Editors notes: FFS depending SIBxx/UL WUS validity discussion details

***SIBxx***

Editor’s note: Only parameters in R1-2501645 that are in own rows are implemented and not all listed e.g. in cell 17P or 21P.

FFS to group some parameters under subIEs like frequencyInfoUL

FFS to separate IE OD-SIB1 as own IE, for review purposes it is here now.

FFS: value for maxCells, maxSIB1-Message, maxPCI

FFS: optionality of the parameters as there was no input on this

FFS: if list of cells is ARFCN&PCI or only PCI

***DownlinkConfigCommonSIB***

Editor’s note:

FFS field description for pagingAdaptationNAndPagingFrameOffset with respect to possible configuration restrictions. FFS: firstPDCCH-MonitoringOccasionOfPO for paging adaptations.

FFS: Do we need to introduce a separate pei-ConfigBWP for paging adaptation?

***UE-RadioPagingInfo***

Editor’s note: FFS details

***si-BroadcastStatus***

FFS: how to capture that a CONNECTED MODE UE supporting OD-SIB1 who is in a cell that does not broadcast SIB1, understands that the stored SIB1 is the latest SIB1.

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| Apple | We think the following ENs can be removed: FFS whether to capture the UE first should acquire a valid SIB1 (e.g. via SIB1 request) for camping on an OD-SIB1 NES cell. [Apple] We are a bit confused by this FFS. It seems that Section 5.2.2.3.3x has captured the procedure that the UE acquires a SIB1 via SIB1 request.FFS how does UE check is SIB1 is already provided. [Apple] RAN1#121b has agreed it is up to UE implementation when K\_SSB>=24 for FR1 or K\_SSB>=12 for FR2:**Agreement**If a UE has SIB1 request configuration of a cell and before transmitting UL WUS,* If the UE detects a SSB where K\_SSB>=24 for FR1 or K\_SSB>=12 for FR2, select the following:
	+ Alt. 3: It is up to UE implementation on whether to monitor Type 0 PDCCH for SIB1 transmission

For the other case (i.e. when K\_SSB<24 for FR1 or K\_SSB<12 for FR2), it is legacy UE behaviour on monitoring CD-SSB and no need of new specification. Thus, we think it is sufficient to add the following in Section 5.2.2.3.3x, and remove EN.“NOTE: It is up to UE implementation on how to check SIB1 is being broadcasted.”FFS: if there is need to emphasize it is normal uplink[Apple] As it is same as legacy text in 38,331, we suggest:Keep the current text in running RRC CR and remove EN.Whether to support SUL in OD-SIB1 is a separate discussion, which can be company contribution driven. FFS: how to capture that a CONNECTED MODE UE supporting OD-SIB1 who is in a cell that does not broadcast SIB1, understands that the stored SIB1 is the latest SIB1.[Apple] See A004 |  |
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# 4 RRC CR

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| **Company** | **Detailed comments RRC CR** | **Rapporteur response** |
| AppleA001 | **Where:** 5.2.2.1 General UE requirements:and SIBxx (if UE is supporting OD-SIB1). The in RRC\_CONNECTED shall ensure having a valid version of SIBxx (if UE is supporting OD-SIB1)**Issue:**Some typos in above text.We understand OD-SIB1 UE in all RRC state has this requirement (rather than only RRC\_CONNECTED).**Suggested change:**and *SIBxx* (if UE is supporting OD-SIB1). The UE supporting OD-SIB1 ~~in RRC\_CONNECTED~~ shall ensure having a valid version of *SIBxx*.Nokia: Seems legit proposal to us |  |
| A002 | **Where:** 5.2.2.2.2 SI change indication and PWS notificationUEs in RRC\_CONNECTED shall monitor for SI change indication in any paging occasion exept those for paging adaptation at least once per modification period if the UE is provided with common search spaceETWS or CMAS capable UEs in RRC\_CONNECTED shall monitor for indication about PWS notification in any paging occasion exept those only for paging adaptation at least once every *defaultPagingCycle* if the UE is provided with common search space, including *pagingSearchSpace*, *searchSpaceSIB1* and *searchSpaceOtherSystemInformation,* on the active BWP to monitor paging.**Issue:**We think the above highlighted text is not clear because paging adaptation is a NES technique rather than indicating some specific paging occasion. **Suggested change:**We think it is sufficient to add the following simple clarification text in section 5.2.2.2.2 or in 38.300:“Paging adaptation is not supported for the UE in RRC\_CONNECTED.”Nokia: Stage-2 is not full requirement so not sure if that would be enough. If there is no nclear requirement for UE then NW cannot utilize this. So maybe we should in fact refer to actual IE to make it clear e.g. “ except the ones configured in *pgingAdaptation-NS* and *pagingAdaptationNAndPagingFrameOffset*” if possible one could consider adding a IE pagingAdapation-r19 which contain above two listed parameters to simplify the wording. |  |
| A003 | **Where:**Section 6.3.1***sib1-rsrp-ThresholdSSB*** L1-RSRP threshold used for determining whether a candidate beam may be used by the UE to attempt to transmit OD-SIB1 request, see TS XXXXX**Issue:**It is sufficient to refer to 38.321.**Suggested change:*****sib1-rsrp-ThresholdSSB*** L1-RSRP threshold used for determining whether a candidate beam may be used by the UE to attempt to transmit OD-SIB1 request, see TS 38.321 [3]. ~~XXXXX~~ |  |
| A004 | **Where:**Section 6.3.2***si-BroadcastStatus***Indicates if the SI message is being broadcasted or not. Change of *si-BroadcastStat*us should not result in system information change notifications in Short Message transmitted with P-RNTI over DCI (see clause 6.5). The value of the indication is valid until the end of the BCCH modification period when set to *broadcasting.* When *SIB19* is scheduled in an NTN cell, the *si-BroadcastStatus* for the mapped *SIB19* is set to *broadcasting*. When *SIB22* is scheduled in an ATG cell, the *si-broadcastStatus* for the mapped *SIB22* is set to *broadcasting*. FFS: how to capture that a CONNECTED MODE UE supporting OD-SIB1 who is in a cell that does not broadcast SIB1, understands that the stored SIB1 is the latest SIB1.**Issue:**According to RAN2#129b agreement, we think it is sufficient to capture that “The UE supporting OD-SIB1 in RRC\_CONNECTED regards the stored SIB1 is the latest SIB1”.1. UE understands that the stored SIB1 is the latest SIB1.

**Suggested change:**Indicates if the SI message is being broadcasted or not. Change of *si-BroadcastStat*us should not result in system information change notifications in Short Message transmitted with P-RNTI over DCI (see clause 6.5). The value of the indication is valid until the end of the BCCH modification period when set to *broadcasting.* When *SIB19* is scheduled in an NTN cell, the *si-BroadcastStatus* for the mapped *SIB19* is set to *broadcasting*. When *SIB22* is scheduled in an ATG cell, the *si-broadcastStatus* for the mapped *SIB22* is set to *broadcasting*. ~~FFS: how to capture that a CONNECTED MODE UE supporting OD-SIB1 who is in a cell that does not broadcast SIB1, understands that the stored SIB1 is the latest SIB1.~~ The UE supporting OD-SIB1 in RRC\_CONNECTED regards the stored SIB1 is the latest SIB1.Nokia: Maybe we need nothing for this. What else can UE do than consider latest one valid? So likely we don’t need to capture anything on this. I would be fine to just remove FFS. |  |
| OPPO001 | In 5.2.2.1,The in RRC\_CONNECTED shall ensure having a valid version of SIBxx (if UE is supporting OD-SIB1) [OPPO] The sentence is not completed. But even if adding UE here, the intention seems not aligned with 129b conclusion, where it is to rely on \***NW**\* to ensure the validity rather than UE, for RRC\_CONNECTED state.=> NW ensures that the RRC connected UE has the latest SIB1 (e.g. dedicated RRC message to deliver SIB1 or not configure searchSpaceSIB1), as baseline. UE understands that the stored SIB1 is the latest SIB1.Nokia: we don’t write NW specification but UE specification in stage-3. Only thing we need to define is UE behaviour. If we don’t capture anything then it is clear that NW needs to update SIB1 to UEs. No need to capture anything.  |  |
| OPPO002 | In 5.2.2.3.3xFor the deletion of “immediately”[OPPO] we share the concern from RRC Rapp, since the word is used in other places, so the deletion may cause the misunderstanding that there is a difference between SIB1 acquisition and other cases.Nokia: After further thinking we are OK either way – For some reason we use word immediately for SIB acquisition. Not sure why though. So maybe better to keep immediately for now to aligne with legacy text. |  |
| OPPO003 | In the FD below***totalNumberOfRA-Preambles***Total number of preambles used for contention based and contention free 4-step or 2-step random access in the RACH resources defined in *RACH-ConfigCommon*, excluding preambles used for other purposes (e.g. for SI request). If the field is absent, all 64 preambles are available for RA. [OPPO] can we extend the “(e.g. for SI request)”, to cover SIB1 acquisition here.[OPPO] is it really possible for the value here to use 64 “ If the field is absent, all 64 preambles are available for RA.”, which means no preamble left for SIB1 acquisition? |  |
| OPPO004 | In the condition belowFR2-Only This field is mandatory present for an FR2 carrier frequency. It is absent otherwise and UE releases any configured value .[OPPO] If the field is either mandatory present, or always absent, why there is a case that a value was configured but now absent? And if there is, is the intention to say it is need-R? |  |
| OPPO005 | In the FD below***pagingAdaptationPEI-Config***The PEI related configuration for paging adaptation. The UE supporting paging adapdation ignores field pei-Config, if configured. [OPPO] here “if configured”, is to say the new PEI configuration is configured, but not the legacy pei-Config is configured (?), if so, good to clarify to avoid misunderstanding. |  |
| Nokia001 | Editorial – several places exept=>except |  |
| Nokia002 | 5.2.2.3.3x – In 38.304 there is also failure if UE cannot acquire during the SI windows. Should we remove it from 38.304 as I guess it is covered by last two bullets in this section i.e. general failure to acquire SIB1. That seems to work to us.  |  |
| Nokia003 | Field description of  ***odsib1-cellReselectionPriority, odsib1-cellReselectionSubPriority***Maybe align with excluded cell list to clarify these are applicable only for UE supporting OD-SIB1 |  |
| Nokia004 | Field description of pagingAdaptation parameters. For PEI parameter do we need to highlight UE supporting both PEI and OD-SIB1? And similarly for NS/N/frameoffset clarify UE supportin OD-SIB1 usese these if configured? Would it make sense to have all parameter in one IE pagingAdapation-r19? |  |
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# 5 Conclusion