3GPP TSG-RAN WG2#130 R2-25XXXXX

St Julian’s, Malta, 19 May - 23 May, 2025

Agenda Item: 8.5.1

Source: Huawei, HiSilicon

Title: Report of [POST129b][114][NES] (Huawei)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* [POST129b][114][NES] (Huawei)

 **Scope:** Update 38.300 running CR based on RAN2#129bis progress.

 **Intended outcome:** Updated 38.300 running CR.

**Deadline: Long email discussion (May 2nd 10:00 UTC)**

Please provide your comments by Thursday May 1st 10:00 UTC to allow 24h for the rapporteur to update the CR before the deadline.

# 2 38.300 CR for NES

The post-RAN2#129bis draft running stage-2 CR for NES enhancements and a document for providing comments are provided in the discussion folder. Please don’t change the CR text or insert comments to the CR file. Please use the table below for comments and wording suggestions for clarity of the CR tdoc. If you want to highlight several issues, please use comment IDs e.g. HW001, HW002, etc. so it is easier for the rapporteur to respond.

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| --- | --- | --- |
| **Company and comment ID (e.g. HW001)** | **Section and detailed comments/suggestions** | **Rapporteur response** |
| SAM 001 | Figure 7.3.1-1The arrow for periodically broadcast SIB1 should be dotted line. |  |
| SAM 002 | Given that Section 15.4.2.5, specifies that “If a cell provides SIB1 on-demand, the cell can allow the access of UEs supporting OD-SIB1 but prevent the access of UEs not supporting OD-SIB1 based on no SIB1 indication in MIB as described in clause 7.3.1.”, it would be good to capture the following agreement:* When the cell supporting on demand SIB1 is broadcasting SIB1 (e.g. upon SIB1 request), legacy UE can camp on the cell if the legacy UE is able to acquire the broadcasted SIB1.

Otherwise, current text may give impression that UEs not supporting OD-SIB1 are always prevented.TP:“If a cell supporting on demand SIB1 is broadcasting SIB1 (e.g. upon SIB1 request), it may allow access of UEs not supporting OD-SIB1”[OPPO] after checking with our R1, we are now a bit negative to capture this conclusion directly, since R1 assume that Kssb would not change upon SIB1-request reception, but rather kept as >=24/12.**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

So that some further clarification may be needed at R2 in terms of the scenario where Kssb @ MIB <24/12 for a NES cell. |  |
| NOK 001 | In 5.2.2.5 – To align with rest of the wording maybe “being broadcasted” should be “being broadcast” - Both are I guess correct but maybe better to avoid using both ways.Also maybe add reference to 15.2.4.x2 to make it clear which feature we mention here. |  |
| NOK 002 | 7.3.1 – on the added sentences in *SIB1* section.Maybe highlight that “request” is “OD-SIB1 request” and then also maybe it is wrong to say that only “broadcast on-demand” is allowed after the request. NW can start regular broadcast as well. So Maybe sentence could be modifed to (red removed- green added) “SIB1 can be broadcast on-demand upon OD-SIB1 request from UEs in RRC\_IDLE, RRC\_INACTIVE or RRC\_CONNECTED state when T311 is running if a UE and cell support OD-SIB1 as described in 15.4.2.x2”Also see comment on 15.4.2.x2 – maybe we can remove RRC states mentioned here and just mention them in the 15.4.2.x2. |  |
| NOK003 | In 9.2.5 – “The UE supporting paging adaptation shall also monitor separately signalled PEIs, if configured.”Should we mention also that this is only for UEs supporting PEI? |  |
| NOK004 | 15.4.2.5 – Samsung suggestion looks quite good to us.  |  |
| Nokia005 | 15.4.2.x1 – “after the SCell activation complete” =>” after the SCell activation completion” |  |
| Nokia006 | 15.4.2.x2 – As we mention in this section RRC states where the feature is supported then maybe we could remove duplicating those in the other sections e.g. 7.3.1This sentence “While the UE is camped on a cell, it can use the OD-SIB1 request configuration of another cell from SIBxx valid in the camped cell to acquire OD-SIB1 of that cell for cell reselection or it can apply the OD-SIB1 request configuration of the camped cell from SIBxx valid in the camped cell to acquire OD-SIB1 of the camped cell.” Is bit convoluted – so maybe some simplification would be desirable. It is already mentioned in earlier sentences that SIBxx may contain info for this or other cel. Also UE cannot camp on cell before it acquires SIB1 so terminology is not really correct in my view. In fact is this sentence needed at all. So maybe remove it as all the information is already in the previous sentences? If something is needed then maybe something in line with below:“While the UE is determining suitability of the cell during reselection, UE may request SIB1 based on the configuration in the SIBxx“ |  |
| Nok007 | 15.4.2.x3 – for paging adaptation do we need to mention anything here or then just reference to 9.2.5 where detailed description is?Likely same for SSB and PRACH once we have some more text on those.Also I guess SMTC decision for SSB adapatation is applicable for OD-SSB as well so maybe that text should be somewhere in measurements section or some common section? |  |
| OPPO001 | 15.4.2.X1On-demand SSB transmissions facilitated through serving cell indications enable UEs to perform at least SCell activation, and are supported for FR1 and FR2 in non-shared spectrum. This solution is supported prior to or when the UE receives the SCell activation command or after the SCell activation complete.[OPPO] Refer to R1 conclusion**Agreement**For a cell supporting on-demand SSB SCell operation, the following combinations of scenarios and cases are supported for indicating OD-SSB using a MAC-CE.* Scenario #3B and Case #1
	+ In the above combinations of scenarios and cases, the MAC-CE is used only for updating the transmission parameter of a transmitted OD-SSB for the cell since the OD-SSB has been transmitted according to NW indication.
* Scenario #3B and Case #2
	+ In the above combinations of scenarios and cases, the MAC-CE is used only for updating the transmission parameter of a transmitted OD-SSB for the cell since the OD-SSB has been transmitted according to NW indication.

“after SCell activation complete” is only feasible if it is sent previously already. Now the wording seems to say it can be sent without a prior command. More importantly, sending OD-SSB MAC-CE after completion is clearly not a case to “enable UEs to perform at least SCell activation”. Reworded version can be “This solution is supported prior to or when the UE receives the SCell activation command, and the OD-SSB MAC-CE can be re-sent ~~or~~ after the SCell activation complete.” |  |
| OPPO002 | 15.4.2.x3 For adaptation of paging occasions in time domain, the value range for parameter N is extended to make it possible to have increased interval between PFs. The value range for Ns, which is the number of paging occasions within one paging frame, is increased to compensate the decrease in the number of PFs. UEs supporting paging adaption should monitor PEI according to the additional PEI configuration, if configured.[OPPO] for UEs supporting PEI (as commented above in NoK003), ‘should’ should be removed. UEs supporting paging adaption ~~should~~ monitor PEI |  |
| Xiaomi001 | In last meeting, we agreed to not support MAC CE based signalling for SSB adaptation1. Not support MAC CE based signalling to indicate SSB adaptation in addition to DCI agreed in RAN1.

Better to clarify in stage2, suggested TP:Adaptation of SSB in time domain is supported for SCells for UEs in RRC\_CONNECTED configured with carrier aggregation (CA). Multiple SMTC configurations can be configured to the UE, and the UE selects one SMTC based on the SSB adaptation indication via DCI. |  |