3GPP TSG-RAN WG2#131 R2-25XXXXX

Bengaluru, India, 25 Aug - 29 Aug, 2025

Agenda Item: 8.5.1

Source: Huawei, HiSilicon

Title: Report of [POST130][119][NES] (Huawei)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* [POST130][119][NES] (Huawei)

 **Scope:** Update 38.300 running CR.

 **Intended outcome:** 38.300 running CR.

**Deadline: Long email discussion (Aug 8th 10:00 UTC)**

Please provide your comments by Friday August 1st EOB to allow time for the rapporteur to update the CR before the deadline.

# 2 38.300 CR for NES

The post-RAN2#130 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. HW01, HW02, etc. so it is easier for the rapporteur to respond.

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| **Company and comment ID (e.g. HW01)** | **Section and detailed comments/suggestions** | **Rapporteur response** |
| A001 | Section 15.4.2.x1:“The OD-SSB transmission indication is transmitted prior to or when the UE receives the SCell activation command. RRC and MAC-CE can indicate the activation/deactivation state of OD-SSB transmissions.”**Issue 1:** On highlighted text “The OD-SSB transmission indication is transmitted”, According to RAN1 agreement, “OD-SSB transmission indication” includes 3 cases: OD-SSB activation, OD-SSB deactivation and OD-SSB transmission adaptation. So, we think “OD-SSB transmission indication” introduces ambiguity. Considering OD-SSB transmission adaptation is already covered by a later sentence, we suggest change “The OD-SSB transmission **activation/deactivation** indication **~~is~~can only be** transmitted…” to focus on activation/deactivation. **Issue 2:** According to RAN1 agreement, OD-SSB activation/deactivation before SCell configuration (i.e. Scenario 1 for OD-SSB activation in neighbour cell) is precluded. But the highlighted text may be misunderstood as supporting Scenario 1 as well. Thus, we suggest change “…is transmitted **to a UE configured with SCell**…”.**Issue 3:** On highlighted text, my Apple Intelligence warns me grammar issue :-). “prior to the UE receives..” is a broken English grammar because “prior to” + Noun only rather than Subject+Verb.Thus, we suggest change “…prior to or when **receiving ~~the UE receives~~** the.…”**Suggestion:** In summary, we suggest below changes to cover issue 1/2/3:“The OD-SSB transmission **activation/deactivation** indication **~~is~~can only be** transmitted **to a UE configured with SCell** prior to or when **receiving** **~~the UE receives~~** the SCell activation command. RRC and MAC-CE can indicate the activation/deactivation state of OD-SSB transmissions.” |  |
| A002 | Section 15.4.2.x1:**Issue:** As the current text captures the scenarios of OD-SSB (i.e. when MAC-CE can be used to activate/deactivate OD-SSB and when MAC-CE can be used for parameter adaptation), we think the below related RAN1 agreement needs to be captured as well:**Agreement (RAN1 #120bis)**For a cell supporting on-demand SSB SCell operation, for Case #1 (i.e., No always-on SSB on the cell)·       UE does not expect the OD-SSB transmission indicated by RRC/MAC-CE to be deactivated while the SCell is activated.**Suggestion:** we suggest to adding the following text at the end:“…. At least for the case when there is no always-on SSB on the SCell, OD-SSB transmission can’t be deactivated by RRC or MAC-CE while SCell is activated. |  |
| A003 | Section 15.4.2.x1**Issue:** The following RAN2 agreements on L3 RRM of OD-SSB are missed to be captured:1. In L3 measurement in OD-SSB case 1, if MAC-CE/RRC based activation / deactivation:

 • The UE starts L3 measurement towards the activated OD-SSB based on configured servingCellMO after reception of the activation. • The UE stops L3 measurements after it determines the OD-SSB is deactivated implicitly or explicitly. Spec impact can be further discussed in running CR preparation.1. The UE applies the OD-SSB specific SMTC when the OD-SSB is activated and SCell is activated. This decision does not impact RAN4 discussion whether both OD-SSB and AO-SSB can be measured.
2. When OD-SSB is activated, UE uses servingCellMO-OD to measure serving cell; when OD-SSB is deactivated, UE uses servingCellMO-AO (i.e., legacy servingCellMO) to measure serving cell.

**Suggestion:** we suggest to adding the following text as a separate paragragh at the end:“L3 measurement on OD-SSB is supported. When there is not always-on SSB (AO-SSB) in the SCell, the UE starts L3 measurement on OD-SSB after it is activated by MAC-CE/RRC and stops L3 measurement after OD-SSB is deactivated implicitly or explicitly. When AO-SSB and OD-SSB have the same centre frequency in the SCell, the UE applies the OD-SSB specific SMTC when the OD-SSB is activated and SCell is activated. When AO-SSB and OD-SSB have different centre frequency in the SCell, the UE uses a dedicated measurement object associated with the OD-SSB to perform L3 measurement on OD-SSB when OD-SSB is activated.”  |  |
| A004 | Section 15.4.2.x3Adaptation of PRACH configurations in time domain is supported for 4-step RACH CBRA. Additional RACH resources are configured together with the common RACH resources in the same set of RACH resources, and the network can indicate whether the additional RACH resources are available**Issue 1:** As RAN1 agreed to support RACH adaptaiton of PDCCH-order CFRA, we need to capture the agreement:1. RAN2 confirms the newly introduced 1-bit indication in DCI 1\_0 for C-RNTI, i.e., PDCCH order, applies to both CBRA and CFRA.

**Issue 2:** the last sentence is not clear how the Network can indicate additional RACH resource is available. We suggest to add a reference to TS 38.213 or clearly add “via DCI 1-0 with RNTI or DCI 1-0 with C-RNTI” **Suggestion:** we suggest the following change:“Adaptation of PRACH configurations in time domain is supported for 4-step RACH CBRA and PDCCH-order CFRA in seving cell. Additional RACH resources are configured together with the common RACH resources in the same set of RACH resources, and the network can indicate whether the additional RACH resources are available as specified in Section 8.1 of TS 38.213 [38].” |  |
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