3GPP RAN WG2 Meeting #131bis R2-25xxxxx

Prague, Czech Republic, 13th – 17th October, 2025

Agenda Item: 8.5.1

Source: Huawei, HiSilicon

Title: Remaining stage-2 open issues for NES enh.

Document for: Discussion, Decision

# Introduction

The following document includes a list of open issues according to the following email discussion:

* [POST131][108][NES] (Huawei)

**Scope:** Update NES 38.300 CR (including this meeting agreements also) with RAN3 CR merged.

**Intended outcome:** 38.300 CR in R2-2506219 to be agreed.

**Deadline:**

1. Initial list of open issues by rapporteur, proposed resolutions for easy open issues or resolution options for other issues: **sept. 19th**
2. Input from other companies and final set of proposals and resolutions for identified issues that don’t require contribution input: **Oct. 1st**

NOTE: no contributions from other companies expected

# Remaining open issues for specification 38.300

**Open issue 38.300-1:*****measurement gap behaviour for OD-SSB***

**Issue description:** Capturing measurement gap behaviour for OD-SSB, either in a Note, or by normative text. Clarification what is the meaning of “SSB associated to the initial DL BWP” in the measurement gap section in 9.2.4, whether it refers to AO-SSB or OD-SSB.

Possible options to resolve the issue:

1. Normative text as e.g. provided by rapp in CR v04 (Appendix TP1)
2. Note as e.g. provided by in the collection of comments in Apple001 (Appendix TP2)
3. No modification of the measurement gap paragraph

Companies are invited to provide feedback regarding the above open issue and possible proposed resolution:

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| --- | --- | --- |
| **Company and comment ID (e.g. HW01)** | **detailed comments/suggestions** | **Rapporteur response** |
| OPPO01 | Considering R1 spec  When the first SS/PBCH blocks in a configured DL BWP can be used to obtain *SIB1* and the frequency location of the first SS/PBCH blocks corresponds to the GSCN of a synchronization raster entry, the UE expects  - a frequency location of the second SS/PBCH blocks to be different from the frequency location of the first SS/PBCH blocks and not to correspond to the GSCN of a synchronization raster entry  - frequency resources of the second SS/PBCH blocks not to overlap with frequency resources of the first SS/PBCH blocks  - the second SS/PBCH blocks to be within the configured DL BWP as the first SS/PBCH blocks  - the second SS/PBCH blocks are not used to obtain *SIB1*  When the first SS/PBCH blocks in a configured DL BWP cannot be used to obtain *SIB1*, the UE expects  - a same frequency location for the second SS/PBCH blocks and for the first SS/PBCH blocks  - a same PBCH payload, other than the SFN index and the half frame index, for a first SS/PBCH block, from the first SS/PBCH blocks, and for a second SS/PBCH block, from the second SS/PBCH blocks, with same SS/PBCH block index as the first SS/PBCH block  There seems no case that AO/OD-SSB are not in same BWP for SSB-based Scell.  So our proposal for this issue is  Proposal1: R2 not pursue change on the intra-frequency measurement gap provision condition for SSB-based SCell case, considering R1 conclusion on AO/OD-SSB intra-BWP collocation restriction.  Proposal2: For SSB-less SCell, R2 restrict the frequency relationship between the ssbFrequency (if configured) in the servingCellMO (within servingCellConfig) and the SSB frequency for OD-SSB, to be the same as each other, and thus no need for separate servingCellMO-OD.  Proposal3: For the intra-frequency measurement gap provision condition for SSB-less SCell when ssbFrequency is configured in servingCellMO (within servingCellConfig), R2 not pursue further change on measurement gap provision condition.  Proposal4: For the intra-frequency measurement gap provision condition for SSB-less SCell, R2 discuss whether to consider the case that ssbFrequency is not configured in servingCellMO (within servingCellConfig), while a separate servingCellMO-OD is configured for OD-SSB or not. |  |
| Xiaomi01 | We agree with OPPO that RAN1 agreed AO-SSB and OD-SSB are on the same BWP, however, if AO-SSB and OD-SSB are on different frequency, it is still necessary to clarify which SSB frequency is utilized to determine the necessity of measurement gap considering the condition is “if any of the UE configured BWPs do not contain the frequency domain resources of the SSB associated to the initial DL BWP”. We prefer to adopt the note from Apple. |  |
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**Rapporteur summary:**

**Open issue 38.300-2:*****Capturing that OD-SSB and AO-SSB is always configured in the same BWP***

**Issue description:** RAN1 has concluded that both AO-SSB and OD-SSB are always located in the same BWP, which is not captured in RAN2 specs. In rapporteurs view, a clarification should be added that OD-SSB and AO-SSB is always configured in the same BWP.

Companies are invited to provide feedback regarding the above open issue and possible proposed resolution (whether and where to capture the RAN1 agreement: 38.300 or 38.331):

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| --- | --- | --- |
| **Company and comment ID (e.g. HW01)** | **detailed comments/suggestions** | **Rapporteur response** |
| OPPO01 | As above, it has been captured in R1 spec, no need to do that for R2 spec in our view. |  |
| Xiaomi01 | No strong view. Maybe better to also clarify in stage 2 for R2 people to refer to. |  |
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**Rapporteur summary:**

# Other identified open issues

Companies are invited to describe any other identified open issues not currently included within this document.

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| **Company and comment ID (e.g. HW01)** | **Other identified open issues (please describe)** | **Rapporteur response** |
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**Rapporteur summary:**

# Conclusions

The following proposals have been provided based on feedback to the above document:

[Proposals for easy agreement]

[Proposals for discussion]

# References

1. XX

# Appendix

## TP1 for normative text

- If the serving cell is associated with SSB, other than the initial BWP, if any of the UE configured BWPs do not contain the frequency domain resources of the SSB associated to the initial DL BWP, and are not configured with NCD-SSB for serving cell measurement, or any of the UE configured BWPs do not contain the frequency domain resources of the OD-SSB associated to the serving cell;

## TP2 for Note

* If the serving cell is associated with SSB, other than the initial BWP, if any of the UE configured BWPs do not contain the frequency domain resources of the SSB associated to the initial DL BWP, and are not configured with NCD-SSB for serving cell measurement;

NOTE 4: when the serving cell is associated with both SSB and OD-SSB in different frequency, “the SSB associated to the initial DL BWP” includes both SSB and OD-SSB.