3GPP TSG-RAN WG2#124 R2-23XXXXX

Chicago, US, 13 – 17 November, 2023

Agenda Item: x.xx.x

Source: Huawei, HiSilicon

Title: Report of [POST123bis][021][NES] 38.331 Running CR (Huawei)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* [POST123bis][021][NES] 38.331 Running CR (Huawei)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus more detailed open issues that would help with CR finalisation).

 Deadline: long (Oct. 27th 1000 UTC)

The intention of this discussion is to provide a running RRC CR for NES and discuss the remaining open issues that need resolving to finalise the CR.

 **Please provide your comments by Thursday October 26th 10:00 UTC to allow 24h for the rapporteur to prepare a summary and update the CR.**

Companies providing input to this email discussion are requested to leave contact information below.

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| **Company** | **Delegate name** | **Email address** |
| Apple | Peng Cheng | pcheng24@apple.com |
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# 2 Running RRC CR for NES

The running RRC CR for NES is 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 suggestions on procedures or wording changes for clarity of the CR tdoc. If you want to highlight several issues please use numbers, i.e. “issue 1)”, “issue 2)” etc. so it is easier for the rapporteur to respond.

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| **Company** | **Detailed comments** | **Rapporteur response** |
| Apple | Description of ***cellDTXDRX-CycleStartOffset:******cellDTXDRX-CycleStartOffset****cellDTXDRX-Cycle* in ms and *cellDTXDRX-StartOffset* in multiples of 1 ms.*cellDTXDRX-Cycle* is an integer multiple of *drx-longCycle* of all UEs in a cell or vice versa.We think it is weird to use "all UEs in a cell" because such description is from NW perspective but TS 38.331 is actually from UE perspective. Maybe it can be modified to:" The configured *cellDTXDRX-Cycle* is an integer multiple of configured *drx-longCycle* ~~of all UEs in a cell~~ or vice versa." |  |
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# 3 Identified open issues

The rapporteur identifies the following open issues that need resolving to finalise the CR:

## 3.1 CHO agreement implementation in RRC

In [3] the rapporteur identified a following open issue:

**Issue 4-2: Configuration details for the NES specific CHO execution condition (e.g. whether to add a new offset/threshold or flag to existing CHO events, or add a separate list of MeasIds for NES CHO events).**

RAN2 has agreed to have the NES specific CHO execution condition. How to implement it in the configuration is not decided. At RAN2#123-bis the following options were discussed:

* add a new offset/threshold
* add a flag to existing CHO events
* add a separate list of MeasIds for NES CHO events

After the discussion at RAN2#123-bis, the following was recommended:

=> **the rapporteur will recommend something simple** in email discussion and get company inputs if there are any issues

Thus, the rapporteur has implemented the TP from [4], which was discussed online and had support from other companies. As per Chair’s guidance please indicate in the table below only if you have a real concern and have identified a serious issue with what has been implemented.

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| **Company** | **Comments** |
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## 3.2 SSB-less SCell for inter-band CA implementation in RRC

In [3] the rapporteur identified a following open issue:

**Issue 2-1: SSB-less SCell operation impact on the RRC specification.**

Currently only impact identified for inter-band SSB-less is in the *absoluteFrequencySSB* field (“same frequency band” is currently mentioned). For further 331 spec impacts more discussion is needed. The rapporteur did not identify any RAN4 agreement related to RAN2 specs.

Companies are invited to comment or provide TPs for this issue to the table below and by contribution to RAN2#124.

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| **Company** | **Comments** |
| Apple | RAN4 sent LS to RAN2 in R4-2317307, which asks RAN2 to design signalling to support indication of which cell is the reference cell. Although RAN2 has not discussed this issue, we assume the signaling should be RRC signaling with spec change in TS 38.331. Because RAN2 has not discussed the LS, we think it is expected to be difficulty to discuss it in post-meeting email discussion. Thus, we suggest Rapporteur to list it as one open issue of RRC.  |
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## 3.3 RAN1 parameter list implementation in RRC

In [3] the rapporteur identified a following open issue:

**Issue 5-1: Implementation of RAN1 parameter list.**

The parameter list will be implemented by the RRC rapporteur and reviewed after RAN2 receives the LS. The most recent RAN1 parameter list (R1-2310692) is provided in the discussion folder for reference.

No input to this table is foreseen until the rapporteur provides the TP. Companies can also provide TPs for this issue by contribution to RAN2#124.

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| **Company** | **Comments** |
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*[Rapporteur’s summary and proposals]*

# 4 Conclusion

Based on the discussion in the previous sections we propose the following:

**Proposal 1** abc

**Proposal 2** def

# 5 References

1. RP-223540, “New WID: Network energy savings for NR”, Huawei
2. 3GPP TR 38.864 V1.0.0, “Study on network energy savings for NR (Release 18)”
3. R2-2310003, “Discussion on remaining issues of the RRC CR for NES”, Huawei, HiSilicon
4. R2-2310293, “Remaining issues of NES specific CHO enhancement”, Apple