**3GPP TSG RAN WG2 Meeting #131 R2-250xxxx
Bengaluru, Indian, August 25 – 29, 2025**

**Agenda item: 8.5.1**

**Source: Apple (Rapporteur)**

**Title: Summary report of [POST131][109][NES] 38.304 CR (Apple)**

**WID/SID: Netw\_Energy\_NR\_enh-Core– Release 19**

**Document for: Discussion and Decision**

# 1 Introduction

This is a summary document on collection of comments to TS 38.304 running CR after RAN2#131:

* [[POST131][109][NES] (Apple)

 **Scope:** Update NES 38.304 CR (including this meeting agreements also).

 **Intended outcome:** 38.304 CR in R2-2506220 to be agreed.

**Deadline:** Short email discussion

## Contact information:

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# 2 Updates after RAN2#131

In RAN2#131, the following running CR was endorsed:

*R2-2505496 Running 38.304 CR for network energy saving Apple (Rapporteur) CR Rel-19 38.304 18.4.0 0442 - B Netw\_Energy\_NR\_enh-Core*

* *Endorsed and considered as baseline for further discussion.*

After online and offline discussion of RAN2#131, CR rapporteur made the following updates (compared with *R2-2505496)* summarized in Table.1.

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| **Description of the change**  | **Reason for the change** |
| **Section 7.1:**For a UE in RRC\_IDLE or RRC\_INACTIVE state and supporting paging adaptation, if *pagingAdaptation-NS* and *pagingAdaptationNAndPagingFrameOffset* are signaled in *SIB1*, the UE determines the value of Ns from *pagingAdaptation-NS,* N and PF\_offset from the parameter *pagingAdaptationNAndPagingFrameOffset* as defined in TS 38.331 [3], and only monitors the PO(s) derived from these paging parameters. The parameter *firstPDCCH-MonitoringOccasionOfPO-r19* for paging adaptation is signalled in *SIB1* for paging in the BWP configured by *initialDownlinkBWP*. For paging in a DL BWP other than the BWP configured by *initialDownlinkBWP*, the parameter *firstPDCCH-MonitoringOccasionOfPO-r19* for paging adaptation is signaled in the corresponding BWP configuration. | Capture the following RAN2#131 agreement:=> firstPDCCHMonitoringOccasionOfPO-r19 is introduced both PCCH-Config and PDCCH-ConfigCommon.  |
| **Section 7.2.1:**The time location of PEI-O for UE's PO is determined by a reference point and an offset:- The reference point is the start of a reference frame determined by a frame-level offset from the start of the first PF of the PF(s) associated with the PEI-O, provided by *pei-FrameOffset* (or *pei-FrameOffset-r19*) in SIB1;- The offset is a symbol-level offset from the reference point to the start of the first PDCCH MO of this PEI-O, provided by *firstPDCCH-MonitoringOccasionOfPEI-O* (or *firstPDCCH-MonitoringOccasionOfPEI-O-r19*) in SIB1.If one PEI-O is associated with POs of two PFs, the two PFs are consecutive PFs calculated by the parameters *PF\_offset*, *T*, *Ns*, and *N*. The first PF of the PFs associated with the PEI-O is provided by (SFN for PF) - floor (*iPO*/*Ns*)\**T*/*N*, where SFN for PF is determined in clause 7.1, *iPO* is defined in clause 10.4a in TS 38.213[4], *T*, *Ns*, and *N* are determined in clause 7.1.The PDCCH MOs for PEI are determined as specified in TS 38.213 [4] according to *pei-SearchSpace*, *pei-FrameOffset* (or *pei-FrameOffset-r19*), *firstPDCCH-MonitoringOccasionOfPEI-O* (or *firstPDCCH-MonitoringOccasionOfPEI-O-r19*) and *nrofPDCCH-MonitoringOccasionPerSSB-InPO* ifconfigured as specified in TS 38.331 [3]. When *SearchSpaceId* = 0 is configured for *pei-SearchSpace*, the PDCCH MOs for PEI are same as for RMSI as defined in clause 13 in TS 38.213 [4]. UE determines first PDCCH MO for PEI-O based on *pei-FrameOffset* (or *pei-FrameOffset-r19*), and *firstPDCCH-MonitoringOccasionOfPEI-O* (or *firstPDCCH-MonitoringOccasionOfPEI-O-r19*), as for the case with *SearchSpaceId* > 0 configured. | Capture the following RAN2#131 agreement:Proposal 4 (7/13) The following Rel-19 PEI configurations with the same value range (except pei-FrameOffset-r19) as Rel-17 PEI configuration need to be introduced. o po-NumPerPEI-r19o payloadSizeDCI-2-7-r19o pei-FrameOffset-r19: extend to 32 radio frame**=> All proposals above (proposal 1 - 5, and 8 - 15) are agreed.** |
| **Section 7.2.1:**For a UE supporting paging adaptation and PEI, if *pagingAdaptationPEI-Config* is signaled in system information, the UE in RRC\_IDLE or RRC\_INACTIVE state can monitor the PEI occasion according to *pagingAdaptationPEI-Config, pei-FrameOffset-r19* and *firstPDCCH-MonitoringOccasionOfPEI-O-r19 ~~(if configured).~~* | Capture the following RAN2#131 agreement:Proposal 15: When pagingAdaptationPEI-Config is signaled in system information, pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 should be configured.**=> All proposals above (proposal 1 - 5, and 8 - 15) are agreed.** |

**Table.1 Summary of updates after RAN2#131**

# 3 Collection of comments on running CR after RAN2#131

Please provide your comments in below table, and Rapporteur will response. Please do not insert any comments in running CR directly, which is hard for Rapporteur to follow all comments.

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| **Company****+issue #****(e.g. Apple 001)** | **Detailed issue and proposed change** | **Rapporteur response** |

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| Nokia001 | Parameter having actual effect should not be listed in parenthesis. Anything in paranthesis is just informative and does not have any impact to UE implementation as such. So one should not have pei-frameOffset-r19 in parenthesis but just listed similarly as other parameters. |  |
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# 3 Conclusion

TBD