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

Bengaluru, India, 25 - 29 Aug, 2025

Agenda Item: 8.5.1

Source: ZTE Corporation, Sanechips

Title: Report of [POST131][112][NES] (ZTE)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* [POST131][112][NES] (ZTE)

 **Scope:** Update NES UE capability CRs (including this meeting agreements also).

 **Intended outcome:** 38.331 CR in R2-2506223 and 38.306 CR in R2-2506224 to be endorsed.

**Deadline:** Sept 4th

Please provide your comments by Thursday September 4th EOB to allow time for the rapporteur to update the CR before the deadline.

# 2 Discussion

## 2.1 38.306 CR for NES enhancement UE capability

The post-RAN2#131 38.306 CR for NES enhancements UE capability 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. ZTE01, ZTE02, etc. so it is easier for the rapporteur to respond.

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| **Company and comment ID (e.g. ZTE01)** | **Section and detailed comments/suggestions** | **Rapporteur response** |
| OPPO001 | ***pagingAdaptation-r19***Indicates whether the UE supports paging adaption, in which the value range for parameter N and Ns as defined in TS 38.331[9] are extended to make it possible to have increased interval between Paging Frames and compensate the decrease in the number of Paging Frames.[OPPO] Due to the support of this feature for Redcap as well, we understand there are two types of UE implementation1. Implementation-1 supports paging adaptation in initialDownlinkBWP-RedCap-r17
2. Implementation-2 supports paging adaptation configured for initialDownlinkBWP via PCCH-Config

It is more straightforward for us to use separate capability bits to differentiate implementation-1/2. Or if not, it would be helpful to clarify how for network to understand which implementation UE supports by reporting a single capability bit.If cannot solve quickly in the short email, we would like to raise this as an issue to further discuss in the coming meeting. | Currently we define the *pagingAdaptation-r19* capability as per UE capability without differentiating RedCap or non-RedCap.And we already have the RedCap related capability report to network thus we understand it is up to NW to configure paging adaption in *initialDownlinkBWP* or *initialDownlinkBWP-RedCap-r17* based on the capability received. It is natural that NW takes multiple capabilities into account when providing configuration.With the above consideration, we do not see strong motivation to differentiate thus prefer to keep the current definition. |
| Nokia001 | Regarding Oppo001 comment. We don’t fully understand OPPO issue – So NW knows UE is redcap capable – wouldn’t that indicate nw which paging adaptation to use? [OPPO] Sure that is one way-out, but that means a same capability bit (pagingAdaptation-r19) represents different implementation, depending on the presence/absence of another capability bit (e.g., supportOf(E)RedCap), which to me is not a clear solution.Or is OPPO meaning that redcap UE may choose which way to implement paging adaptation? | Same as above |
| Nokia002 | @rapporteur – Don’t use special characters in document names- Now in CRs you some character at the beginning which prevents downloading with browser and Windows omplains about unsupported filename characters. | Thanks for reminding. I remove the blank in the file names and upload in v01. |
| Apple001 | On OPPO 001, we think there are two way-forward:* WF-1: introduce a separate capability for paging in initialDownlinkBWP-RedCap-r17 for (e)redcap UE (as OPPO suggested)
* WF-2: integrate the capability of paging in initialDownlinkBWP-RedCap-r17 for redcap UE into ***pagingAdaptation-r19***

Either way is fine to us. We slightly prefer WF-1. If WF-2 is adopted, we can provide a wording:***pagingAdaptation-r19***Indicates whether the UE supports paging adaption in *initialDownlinkBWP* and paging adaptation in*initialDownlinkBWP-RedCap-r17* for (e)redcap UE, in which the value range for parameter N and Ns as defined in TS 38.331[9] are extended to make it possible to have increased interval between Paging Frames andcompensate the decrease in the number of Paging Frames. If (e)redcap UE reports its supporting for paging adaptation, it shall support paging adaptation in *initialDownlinkBWP-RedCap-r17*.  | See response to OPPO 001. |
| vivo001 | For OPPO001, we understand it is not an issue. According to TS 38.331, the RedCap UE use *initialDownlinkBWP-RedCap-r17* if it is configured, and it’s straightforward that the RedCap UE use the paging adaptation configuration if present in *initialDownlinkBWP-RedCap-r17.* We think the paging adaptation configuration in PCCH is for *initialDownlinkBWP.*

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| ***initialDownlinkBWP-RedCap***If present, (e)RedCap UEs use this DL BWP instead of *initialDownlinkBWP*.If absent, (e)RedCap UEs use *initialDownlinkBWP* provided that it does not exceed the (e)RedCap UE maximum bandwidth (see also clause 5.2.2.4.2). |

If one wants to clarify the UE has the chance to implement choosing either *firstPDCCH-MonitoringOccasionOfPO* in PCCH or *MonitoringOccasionOfPO* in *initialDownlinkBWP-RedCap-r17* to determine its PO, then this should be raised in TEI, as this issue may also happens in R17. | See response to OPPO 001. |
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## 2.2 38.331 CR for NES enhancement UE capability

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| **Company and comment ID (e.g. ZTE01)** | **Section and detailed comments/suggestions** | **Rapporteur response** |
| OPPO001 | As above. |  |
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# 3 Conclusion