3GPP TSG-RAN WG2 #119-e Tdoc R2-220XXXX

Electronic meeting, 9th - 20th May 2022

Agenda Item: 6.12.2.2

Source: Ericsson (Rapporteur)

Title: Report from [AT119-e][115][RedCap] CP Corrections (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This is the report from the offline discussion below:

**[AT119-e][115][RedCap] CP corrections (Ericsson)**

Initial scope: Discuss remaining CP corrections

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions
* List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-08-22 1200 UTC

Initial deadline (for rapporteur's summary in R2-2208772): Monday 2022-08-22 2000 UTC

Proposals marked "for agreement" in R2-2208772 not challenged until Tuesday 2022-08-23 08:00 UTC will be declared as agreed via email by the session chair (for the rest the discussion might continue offline).

Companies should consider the following Tdocs and the discussions therein in mind when providing feedback to the offline discussion:

[R2-2207054](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207054.zip) Clarification on support of eDRX OPPO CR Rel-17 38.331 17.1.0 3213 - F NR\_redcap-Core

[R2-2207055](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207055.zip) Clarification on UE support of eDRX OPPO CR Rel-17 38.306 17.1.0 0757 - F NR\_redcap-Core

[R2-2207069](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207069.zip) Discussion on inter-RAT mobility from LTE to NR OPPO discussion Rel-17 NR\_redcap-Core

[R2-2207209](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207209.zip) 38.331 Corrections on PDCCH-ConfigCommon for Redcap Xiaomi Communications draftCR Rel-17 38.331 17.1.0 NR\_redcap-Core

[R2-2207230](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207230.zip) Correction on inter-RAT handover from E-UTRA to NR for RedCap Sequans Communications, Huawei, HiSilicon CR Rel-17 38.300 17.1.0 0505 - F NR\_redcap-Core

[R2-2207386](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207386.zip) Alignment on the support of 2TX and 2UL MIMO for RedCap UEs Intel Corporation, Huawei discussion Rel-17 NR\_redcap-Core

[R2-2207620](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207620.zip) Corrections on PDCCH-ConfigCommon for RedCap initial BWP Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3297 - F NR\_redcap-Core

[R2-2207621](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207621.zip) Corrections on the relaxed measurement criterion and smtc field for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3298 - F NR\_redcap-Core

[R2-2207747](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207747.zip) Discussion on NCD SSB for RedCap UEs vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

[R2-2207749](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207749.zip) Correction on capability for RedCap vivo, Guangdong Genius CR Rel-17 38.306 17.1.0 0777 - F NR\_redcap-Core Late

[R2-2207751](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207751.zip) Correction on TS 38.300 for RedCap vivo CR Rel-17 38.300 17.1.0 0517 - F NR\_redcap-Core

[R2-2207996](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207996.zip) Inter-RAT handover from LTE to NR MediaTek Inc. discussion Rel-17 NR\_redcap-Core

[R2-2208155](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208155.zip) Correction on UERadioPagingInformation and UERadioPagingInfo container Ericsson CR Rel-17 38.331 17.1.0 3364 - F NR\_newRAT-Core, NR\_redcap-Core Withdrawn

[R2-2208309](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208309.zip) Clarification on the field description of commonControlResourceSet for RedCap UEs Ericsson CR Rel-17 38.331 17.1.0 3402 - F NR\_redcap-Core

[R2-2208310](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208310.zip) Paging configuration for RedCap UEs in the initial DL BWP Ericsson discussion Rel-17 NR\_redcap-Core Late

[R2-2208385](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208385.zip) Corrections on RedCap specific initial DL BWP related description CATT CR Rel-17 38.331 17.1.0 3413 - F NR\_redcap-Core

[R2-2208386](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208386.zip) Discussion and TP on the SI request on SUL for RedCap CATT discussion Rel-17 NR\_redcap-Core

[R2-2208438](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208438.zip) Remaining aspect on RedCap initial DL BWP CMCC discussion Rel-17 NR\_redcap-Core

[R2-2208439](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208439.zip) Corrections on RedCap initial DL BWP CMCC CR Rel-17 38.331 17.1.0 3420 - F NR\_redcap-Core

[R2-2208631](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208631.zip) Correction on eDRX allowed indication and PDCCH-ConfigCommon ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3456 - F NR\_redcap-Core

[R2-2208632](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208632.zip) Correction on eDRX allowed indication and BFD ZTE Corporation, Sanechips CR Rel-17 38.300 17.1.0 0544 - F NR\_redcap-Core

[R2-2208924](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208924.zip) Correction on PUCCH-ConfigCommon for RedCap UE ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3463 - F NR\_redcap-Core

In this document, we discuss the remaining control plane corrections based on the discussions during the online session on Thursday, August 18th and the list of Tdocs provided above with the intention to formulate a list of proposals that are agreeable and a list of proposals that require further discussion during the next online session.

# Contact Information

Please fill in the following table for contact information:

|  |  |
| --- | --- |
| Company | Contact person - email@address.com |
| Ericsson | Emre A. Yavuz – emre.yavuz@ericsson.com |
| Huawei, HiSilicon | Yulong – shiyulong5@huawei.com |
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# 2 Discussion on CP corrections

## 2.1 eDRX

In this section, we discuss the eDRX related issues brought up in the contributions below:

[R2-2207054](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207054.zip) Clarification on support of eDRX OPPO CR Rel-17 38.331 17.1.0 3213 - F NR\_redcap-Core

[R2-2207055](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207055.zip) Clarification on UE support of eDRX OPPO CR Rel-17 38.306 17.1.0 0757 - F NR\_redcap-Core

[R2-2208631](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208631.zip) Correction on eDRX allowed indication and PDCCH-ConfigCommon ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3456 - F NR\_redcap-Core

[R2-2208632](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208632.zip) Correction on eDRX allowed indication and BFD ZTE Corporation, Sanechips CR Rel-17 38.300 17.1.0 0544 - F NR\_redcap-Core

**Q 2.1.1** In R2-2207054 and R2-2207055, it is proposed to revise the names of some eDRX related parameters. Do you agree with the intention of changes? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | No, but | Renaming the ASN.1 field is not needed.But the changes to the text on “for UE in RRC\_IDLE” is reasonable. |
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**Q 2.1.2** If you agree with the intention of changes in R2-2207054 and R2-2207055., please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
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**Summary – Q 2.1.1 and Q 2.1.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

**Q 2.1.3** In R2-2208631 and R2-2208632, it is proposed to revise the names of some eDRX related parameters, and introduce new parameters in *PDCCH-ConfigCommon*. Do you agree with the intention of changes? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Maybe | R2-2208631The changes to the field description eDRX-AllowedIdle/eDRX-AllowedInactive are reasonable.Other changes can relies on NW implementation. But we are fine to go with majority.R2-2208632Changes on eDRX: Intention is OK. Changes on BFD: Intention is OK.  |
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**Q 2.1.4** If you agree with the intention of changes in R2-2208631 and R2-2208632., please comment below if you have any suggestions for the wording and elaborate why.

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**Summary – Q 2.1.3 and Q 2.1.4**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.2 inter RAT mobility

In this section, we discuss the inter RAT mobility related issues based on the outcome of the related online discussion.:

[R2-2207069](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207069.zip) Discussion on inter-RAT mobility from LTE to NR OPPO discussion Rel-17 NR\_redcap-Core

[R2-2207230](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207230.zip) Correction on inter-RAT handover from E-UTRA to NR for RedCap Sequans Communications, Huawei, HiSilicon CR Rel-17 38.300 17.1.0 0505 - F NR\_redcap-Core

[R2-2207996](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207996.zip) Inter-RAT handover from LTE to NR MediaTek Inc. discussion Rel-17 NR\_redcap-Core

The following agreement was made during the online session on Thursday, August 18th.

1. For inter-RAT mobility from LTE to NR, RAN2 agrees to have a note in Stage 2, based on the TP in R2-2207230. Further discuss the detailed wording offline, especially for the second sentence.

**Q 2.2.1** Please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
| Huawei, HiSilicon | TP in R2-2207230 is fine as the baseline.If companies think the wording is strong we can change like“ NOTE: It is up to the E-UTRA network implementation, if possible, to avoid handover attempts of a RedCap UE to a target NR cell not supporting RedCap. If a RedCap UE determines that the target NR cell does not support RedCap, by considering the above configuration in SIB1 of the target cell, the UE ~~is expected to~~should initiate the connection re-establishment procedure.“BTW, copy the corresponding agreement below

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| RAN2#116bis-eAgreements online:For the LTE to NR handover, in case the target NR cell is a legacy cell, the RedCap UE should trigger RRC re-establishment procedure. FFS any specification impact or purely leave to implementation |

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**Summary – Q 2.2.1**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.3 PDCCH-ConfigCommon

In this section, we discuss the *PDCCH-ConfigCommon* related issues based on the contributions below:

[R2-2207209](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207209.zip) 38.331 Corrections on PDCCH-ConfigCommon for Redcap Xiaomi Communications draftCR Rel-17 38.331 17.1.0 NR\_redcap-Core

[R2-2207620](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207620.zip) Corrections on PDCCH-ConfigCommon for RedCap initial BWP Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3297 - F NR\_redcap-Core

[R2-2208309](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208309.zip) Clarification on the field description of commonControlResourceSet for RedCap UEs Ericsson CR Rel-17 38.331 17.1.0 3402 - F NR\_redcap-Core

**Q 2.3.1** In the contributions above, it is proposed to clarify the field description of *commonControlResourceSet* in *PDCCH-ConfigCommon* for RedCap UEs. Do you agree with the intention of changes? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes | The intentions are similar.**But, another change is missing in the question from R2-2207620 to clarify the conditional presence of InitialBWP-Only***InitialBWP-Only*If *SIB1* is broadcast the field is mandatory present in the *PDCCH-ConfigCommon* of the initial BWP (BWP#0) in *ServingCellConfigCommon,* except it is the RedCap specific initial BWP not including CD-SSB and the entire CORESET#0; it is absent in other BWPs and when sent in system information. If SIB1 is not broadcast and there is an SSB associated to the cell, the field is optionally present, Need M, in the *PDCCH-ConfigCommon* of the initial BWP (BWP#0) in *ServingCellConfigCommon* (still with the same setting for all UEs). In other cases, the field is absent. |
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**Q 2.3.2** If you agree with the intention of changes in those contribution, please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
| Huawei, HiSilicon | The wording from R2-2207620 is preferred. |
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**Summary – Q 2.3.1 and Q 2.3.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.4 PUCCH-ConfigCommon

In this section, we discuss the *PUCCH-ConfigCommon* related issues based on the contributions below:

[R2-2208924](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208924.zip) Correction on PUCCH-ConfigCommon for RedCap UE ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3463 - F NR\_redcap-Core

[R2-2208932](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208932.zip) On PUCCH configuration in initial UL BWP MediaTek Inc. discussion Rel-17 NR\_redcap-Core

**Q 2.4.1** In R2-2208924, it is proposed to dummify the *pucch-ResourceCommon-RedCap* field and delete the corresponding field description. Do you agree with the intention of changes? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | No | This coming from the R1 LS on the RRC parameters. RAN1 spec already capture how it works between the legacy one and the newly added one. It seems even if in RedCap specific BWP, NW can choose to configure RedCap specific *pucch-ResourceCommon-RedCap.* |
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**Q 2.4.2** If you agree with the intention of changes in R2-2208924, please comment below if you have any suggestions for the wording and elaborate why.

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**Summary – Q 2.4.1 and Q 2.4.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

**Q 2.4.3** In R2-2208932, it is proposed to clarify when different PUCCH resources need to be configured for RedCap UEs and if so which set of PUCCH resources are to be used. Do you agree with the intention of changes and sending an LS to RAN1 to inform them? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes, but | The intention seems correct. On the LS itself, maybe we can check with our R1 colleagues first. Hope this is also the understanding in R1. In that case, there seems no need of the LS. |
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**Q 2.4.4** If you agree with the intention of changes suggested in R2-2208932, please comment below if you have any suggestions for the wording and elaborate why.

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**Summary – Q 2.4.3 and Q 2.4.4**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.5 UE Capabilities

In this section, we discuss the conflict between the description TS 38.306 and the RAN4 agreements based on the contribution below:

[R2-2207386](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207386.zip) Alignment on the support of 2TX and 2UL MIMO for RedCap UEs Intel Corporation, Huawei discussion Rel-17 NR\_redcap-Core

**Q 2.5.1** Do you agree with the problem described in the contribution above. Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes | It is the R4 conclusion. |
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**Q 2.5.2** If you agree with the problem described, please comment below on how RAN2 should address the problem, e.g., option 1, option 2, any other option, and elaborate why.

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| **Company** | **Comments** |
| Huawei, HiSilicon | Option1**Proposal: Update TS 38.306, indicating that 2 Tx and 2 UL MIMO layers are not supported by the RedCap UEs. If so, the following change should be captured in Capability Mega CR as*:***For FR 1, 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported; for FR2, either 1 or 2 DL MIMO layers can be supported, while 2 Rx branches are always supported. For FR1 and FR2, UE features and corresponding capabilities related to more than 2 UE Rx branches or more than 2 DL MIMO layers, as well as UE features and capabilities related to more than or equal to 2 UE Tx branches or more than or equal to 2 UL MIMO layers are not supported by RedCap UEs; |
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**Summary – Q 2.5.1 and Q 2.5.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.6.1 Initial DL BWP

In this section, we discuss the inital DL BWP related issues brought up in the contributions below:

[R2-2208385](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208385.zip) Corrections on RedCap specific initial DL BWP related description CATT CR Rel-17 38.331 17.1.0 3413 - F NR\_redcap-Core

[R2-2208438](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208438.zip) Remaining aspect on RedCap initial DL BWP CMCC discussion Rel-17 NR\_redcap-Core

[R2-2208439](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208439.zip) Corrections on RedCap initial DL BWP CMCC CR Rel-17 38.331 17.1.0 3420 - F NR\_redcap-Core

**Q 2.6.1** Do you agree with the intention of changes in R2-2208385? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon |  | The change to commonControlResourceSet is already discussed in Q 2.3.1.For the rest of changes, it is sufficient to add one sentence to clarify the initial BWP also includes the RedCap specific initial BWP, rather than to clarify everywhere. |
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**Q 2.6.2** If you agree with the intention of changes in R2-2208385, please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
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**Summary – Q 2.6.1 and Q 2.6.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

**Q 2.6.3** Do you agree with the intention of changes proposed in R2-2208438 and captured in R2-2208439? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | No | This is NBC change for signaling optimization. |
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**Q 2.6.4** If you agree with the intention of changes in R2-2208438, please comment below if you have any suggestions for the wording (any alternative text to what is captured in R2-2208439) and elaborate why.

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| **Company** | **Comments** |
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**Summary – Q 2.6.3 and Q 2.6.4**

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Based on the observations above, the rapporteur proposes the following:

1. ???

## 2.7.1 Others

In this section, we discuss other issues brought up in the contributions below:

[R2-2207621](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207621.zip) Corrections on the relaxed measurement criterion and smtc field for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3298 - F NR\_redcap-Core

[R2-2208310](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208310.zip) Paging configuration for RedCap UEs in the initial DL BWP Ericsson discussion Rel-17 NR\_redcap-Core Late

**Q 2.7.1** Do you agree with the intention of changes in R2-2207621? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes, proponent | The current field description of *smtc* only considers the case that the first active BWP is configured with CD-SSB. For RedCap UE, when the first active DL BWP is configured with NCD-SSB, the following description is not correct: “The network sets the periodicityAndOffset to indicate the same periodicity as ssb-periodicityServingCell in spCellConfigCommon”, where the periodicityAndOffset can be same as the one of NCD-SSB.Considering the NCD-SSB is introduced, the field description of *smtc*: “the UE uses the SMTC in the measObjectNR having the same SSB frequency and subcarrier spacing” becomes ambiguous. It is not clear which SSB the “SSB frequency and subcarrier spacing” refers to. It should be clarified as the previous CD-SSB for non-RedCap UEs and as the previous NCD-SSB on the active DL BWP before handover for RedCap UE.***smtc***The SSB periodicity/offset/duration configuration of target cell for NR PSCell change and NR PCell change. The network sets the *periodicityAndOffset* to indicate the same periodicity as *ssb-periodicityServingCell* in *spCellConfigCommon,* unless the first active DL BWP included in this RRC message is configured with *nonCellDefiningSSB-r17* for RedCap*.*For case of NR PCell change, the *smtc* is based on the timing reference of (source) PCell. For case of NR PSCell change, it is based on the timing reference of source PSCell.If both this field and *targetCellSMTC-SCG* are absent, the UE uses the SMTC in the *measObjectNR* having the same SSB frequency and subcarrier spacing as the cell-Defining SSB,or the non-Cell-Defining SSB on the active DL BWP for RedCap, as configured before the reception of the RRC message. For a RedCap UE, if the first active DL BWP included in this RRC message is configured with *nonCellDefiningSSB-r17*, this field corresponds to the NCD-SSB indicated by *nonCellDefiningSSB-r17*, otherwise, this field corresponds to the CD-SSB indicated by *absoluteFrequencySSB* in *frequencyInfoDL*. |
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**Q 2.7.2** If you agree with the intention of changes in R2-2207621, please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
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**Summary – Q 2.7.1 and Q 2.7.2**

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Based on the observations above, the rapporteur proposes the following:

1. ???

**Q 2.7.3** Do you agree with the intention of changes proposed in R2-2208310? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes | Maybe the following is better.***pagingSearchSpace***ID of the Search space for paging (see TS 38.213 [13], clause 10.1). If the field is absent, the UE does not receive paging in this BWP (see TS 38.213 [13], clause 10). This field is absent for the RedCap specific initial DL BWP, and a RedCap UE shall monitor paging in the initial DL BWP defined by MIB-configured CORESET#0, if it does not include CD-SSB and the entire CORESET#0. |
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**Q 2.7.4** If you agree with the intention of changes in R2-2208310, please comment below if you have any suggestions for the wording and elaborate why.

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| **Company** | **Comments** |
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**Summary – Q 2.7.3 and Q 2.7.4**

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Based on the observations above, the rapporteur proposes the following:

1. ???

# 3 Conclusion

Based on the discussion above rapporteur suggests a discussion on the following proposals:

[Proposal 1 ???](#_Toc112039480)

[Proposal 2 ???](#_Toc112039481)

[Proposal 3 ???](#_Toc112039482)

[Proposal 4 ???](#_Toc112039483)

[Proposal 5 ???](#_Toc112039484)

[Proposal 6 ???](#_Toc112039485)

[Proposal 7 ???](#_Toc112039486)

[Proposal 8 ???](#_Toc112039487)

[Proposal 9 ???](#_Toc112039488)

[Proposal 10 ???](#_Toc112039489)

[Proposal 11 ???](#_Toc112039490)

# References

1. [R2-2207054](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207054.zip) Clarification on support of eDRX OPPO CR Rel-17 38.331 17.1.0 3213 - F NR\_redcap-Core
2. [R2-2207055](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207055.zip) Clarification on UE support of eDRX OPPO CR Rel-17 38.306 17.1.0 0757 - F NR\_redcap-Core
3. [R2-2207069](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207069.zip) Discussion on inter-RAT mobility from LTE to NR OPPO discussion Rel-17 NR\_redcap-Core
4. [R2-2207209](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207209.zip) 38.331 Corrections on PDCCH-ConfigCommon for Redcap Xiaomi Communications draftCR Rel-17 38.331 17.1.0 NR\_redcap-Core
5. [R2-2207230](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207230.zip) Correction on inter-RAT handover from E-UTRA to NR for RedCap Sequans Communications, Huawei, HiSilicon CR Rel-17 38.300 17.1.0 0505 - F NR\_redcap-Core
6. [R2-2207386](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207386.zip) Alignment on the support of 2TX and 2UL MIMO for RedCap UEs Intel Corporation, Huawei discussion Rel-17 NR\_redcap-Core
7. [R2-2207620](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207620.zip) Corrections on PDCCH-ConfigCommon for RedCap initial BWP Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3297 - F NR\_redcap-Core
8. [R2-2207621](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207621.zip) Corrections on the relaxed measurement criterion and smtc field for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3298 - F NR\_redcap-Core
9. [R2-2207747](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207747.zip) Discussion on NCD SSB for RedCap UEs vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core
10. [R2-2207749](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207749.zip) Correction on capability for RedCap vivo, Guangdong Genius CR Rel-17 38.306 17.1.0 0777 - F NR\_redcap-Core Late
11. [R2-2207751](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207751.zip) Correction on TS 38.300 for RedCap vivo CR Rel-17 38.300 17.1.0 0517 - F NR\_redcap-Core
12. [R2-2207996](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2207996.zip) Inter-RAT handover from LTE to NR MediaTek Inc. discussion Rel-17 NR\_redcap-Core
13. [R2-2208155](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208155.zip) Correction on UERadioPagingInformation and UERadioPagingInfo container Ericsson CR Rel-17 38.331 17.1.0 3364 - F NR\_newRAT-Core, NR\_redcap-Core Withdrawn
14. [R2-2208309](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208309.zip) Clarification on the field description of commonControlResourceSet for RedCap UEs Ericsson CR Rel-17 38.331 17.1.0 3402 - F NR\_redcap-Core
15. [R2-2208310](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208310.zip) Paging configuration for RedCap UEs in the initial DL BWP Ericsson discussion Rel-17 NR\_redcap-Core Late
16. [R2-2208385](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208385.zip) Corrections on RedCap specific initial DL BWP related description CATT CR Rel-17 38.331 17.1.0 3413 - F NR\_redcap-Core
17. [R2-2208386](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208386.zip) Discussion and TP on the SI request on SUL for RedCap CATT discussion Rel-17 NR\_redcap-Core
18. [R2-2208438](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208438.zip) Remaining aspect on RedCap initial DL BWP CMCC discussion Rel-17 NR\_redcap-Core
19. [R2-2208439](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208439.zip) Corrections on RedCap initial DL BWP CMCC CR Rel-17 38.331 17.1.0 3420 - F NR\_redcap-Core
20. [R2-2208631](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208631.zip) Correction on eDRX allowed indication and PDCCH-ConfigCommon ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3456 - F NR\_redcap-Core
21. [R2-2208632](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208632.zip) Correction on eDRX allowed indication and BFD ZTE Corporation, Sanechips CR Rel-17 38.300 17.1.0 0544 - F NR\_redcap-Core
22. [R2-2208924](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208924.zip) Correction on PUCCH-ConfigCommon for RedCap UE ZTE Corporation, Sanechips CR Rel-17 38.331 17.1.0 3463 - F NR\_redcap-Core

1. [R2-2208932](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_119-e/Docs/R2-2208932.zip) On PUCCH configuration in initial UL BWP MediaTek Inc. discussion Rel-17 NR\_redcap-Core