3GPP TSG-RAN WG2 #118-e Tdoc R2-220XXXX

Electronic meeting, 9th - 20th May 2022

Agenda Item: 6.12.2.2

Source: Ericsson (Rapporteur)

Title: Report from [AT118-e][102][RedCap] RRC CR (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This is the report from the offline discussion below:

**[AT118-e][102][RedCap] RRC CR (Ericsson)**

Initial scope: continue the discussion on the RedCap WI-specific RILs, also considering the submitted contributions

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

·         List of resolved RILs

·         List of RILs for online discussion

·         List of RILs for further offline discussion

Deadline (for companies' feedback): Wednesday 2022-05-11 2000 UTC

Deadline (for rapporteur's summary in R2-2206192): Wednesday 2022-05-11 2200 UTC

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

[R2-2206021](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206021.zip) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.331

[R2-2206022](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206022.zip) RedCap WI ASN1 RIL list Ericsson discussion Rel-17

[R2-2204725](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204725.zip) [O374] correction on RedCap UE’s cell barring OPPO draftCR 38.331

[R2-2204736](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204736.zip) [O372] Discussion on prohibit timer for UAI for RRM relaxation fulfilment indication OPPO

[R2-2204737](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204737.zip) [O377] Correction to 38.331 on UAI for RRM relaxation fulfilment indication OPPO draftCR 38.331

[R2-2204813](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204813.zip) [V166] Including RedCap Capability in the UERadioPagingInformation Inter-Node Message vivo, Guangdong Genius discussion

[R2-2204814](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204814.zip) [V170] Discussion on Inter-RAT Mobility from LTE to NR for RedCap vivo, Guangdong Genius discussion

[R2-2204929](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204929.zip) RRC open issues on Rel17 RedCap WI Intel Corporation

[R2-2206059](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206059.zip) [X115]38.331 Corrections on UE's behaviour of getting SIB1 for Redcap Xiaomi Communications draftCR 38.331

[R2-2206060](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206060.zip) [X119][X114] Discussion on PDCCH-ConfigCommon for Redcap Xiaomi Communications

[R2-2206061](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206061.zip) [X119][X114] 38.331 Corrections on PDCCH-ConfigCommon for Redcap Xiaomi Communications draftCR 38.331

[R2-2206062](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206062.zip) [X120] 38.331 Corrections on Need code of RedCap-specific initial DL BWP for handover Xiaomi Communications draftCR 38.331

[R2-2204541](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204541.zip) [S953] SI Request for RedCap UEs Samsung Electronics Co., Ltd

[R2-2204936](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204936.zip) I051 support of RedCap based on intraFreqReselectionRedCap Intel Corporation

[R2-2204979](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204979.zip) Cell reselection priority for RedCap (RIL#: S952) Samsung

[R2-2205523](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2205523.zip) SIB validity with eDRX MediaTek Inc.

[R2-2205783](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2205783.zip) Miscellaneous RedCap corrections Nokia, Nokia Shanghai Bell CR 38.331

[R2-2205785](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2205785.zip) HD-FDD RedCap support in system information Nokia, Nokia Shanghai Bell

[R2-2206080](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206080.zip) [H507] Corrections on cell re-selection measurements during RRC setup/resume Huawei, HiSilicon CR 38.331

[R2-2206081](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206081.zip) [H511] Corrections on redcapAccessRejected Huawei, HiSilicon CR 38.331

[R2-2206082](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206082.zip) [H513 H516 H520 H524 H525 H526 H527] Corrections on RedCap initial BWP Huawei, HiSilicon CR 38.331

[R2-2204819](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204819.zip) UE Capability and System Information for eDRX vivo, Guangdong Genius

In this document, we continue the discussion based on the agreements above 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 related online session.

# Contact Information

Please fill in the following table for contact information:

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| --- | --- |
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# 2 Discussion on RILs and open issues

## 2.1 RILs marked with “PropAgree”

**Q 2.1** The following is a list of RILs which are marked as “PropAgree” in the latest version of the Excel document that contains RILs, i.e., R2-2206022:

H506, V163, H509, V168, V169, H514, H704, Z033, H515, M608, H517, V161, Z034, H522

The rapporteur has implemented those RILs in the 38.331 CR provided in R2-2206021, which is to be updated once RILs marked with “PropModifyAgree”, “PropDiscMeeting” or “PropReject” are concluded. The rapporteur proposes the following:

**Proposal The following RILs are agreed: H506, V163, H509, V168, V169, H514, H704, Z033, H515, M608, H517, V161, Z034, H522 (as captured in R2.2206021).**

Do you agree with the proposal above? Please elaborate your reply, especially if you do not, and provide a resolution/text proposal that addresses your concerns considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes | V168/V169 are related to the discussion on whether FD-FDD is mandatory or not. But it is ok for us for the changes.  We did not find H704, is it typo?  H509: We don’t agree to H509. We don’t see a benefit to move from field description to condition. In general, conditions should be used if the conditions is related to something in the same message and not something that was configured previously (though this may not be strictly followed).  [Huawei]: “The field is only included when the UE is configured with eDRX in RRC\_IDLE, see TS 24.401 [23]” The legacy text explains the condition when the filed should be configured.So, it is actually the Cond. |
| Samsung | Yes, except for V168, V169 | V168/V169 can be discussed after having conclusion from FD-FDD discussion.  H704, which is missing in R2-2206021, is to clarify 'If configured, the RedCap UE operating in this BWP uses…' from the field description of nonCellDefiningSSB-r17, and we are fine with the change.  For H517, we are fine with the change itself, but want to clarify the comment from Huawei in their RIL: we understand that the RedCap specific initial DL BWP can be used for paging and OSI if the BWP includes CD-SSB and contains the entire CORESET#0.  [Huawei]: Yes, but the mentioned spec wording is only about the case not containing CORSET#0, “*Otherwise, i.e., if the locationAndBandwidth of this BWP does not contain the entire CORESET#0, the UE uses this BWP also for receiving DL messages during initial access (Msg2, Msg4, ...) and after initial access* .” |
| Xiaomi | Yes except for V168 | H509:   1. Change ”Need R” to “Cond RAN-Paging” 2. Add Cond “RAN-Paging This field is optionally present, Need R, if the UE is configured with DILE eDRX, see TS 24.401 [23]; otherwise the field is not present.”   It is better to change to “Cond IDLEeDRX”. Because the condition is the idle mode eDRX is used.  V168 is about the HD-FDD flag while the FFS is about the eDRX flag. |
| Huawei, HiSilicon | Yes, but the rapp CR should be allowed to further check before agreed. | Z034 is actually not essential/accurate: *NonCellDefiningSSB* is only configured in dedicated signaling. So, even in the RedCap specific BWP#0 with dedicated signaling configuarion (BWP#0 option1), it is still called “dedicated BWP“. There seems nothing wrong in the current text. But, we are open to go with majority view. |
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**Summary – Q 2.1**

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

1. ???

## 2.2 RILs marked with “PropModifyAgree”

**Q 2.2** The following is a list of RILs which are marked as “PropModifyAgree” in the latest version of the Excel document that contains RILs, i.e., R2-2206022:

H520, H705

The rapporteur has implemented those RILs in the 38.331 CR provided in R2-2206021 with a modification on the text proposed by the source company. The rapporteur proposes the following:

**Proposal The following RILs are agreed: H520, H705 (as captured in R2.2206021).**

Do you agree with the proposal above? Please elaborate your reply, especially if you do not, and provide a resolution/text proposal that addresses your concerns considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Comments | H520, is related to the discussion in Atmeeting 105,  **Proposal 9: Clarify in the RRC field description that the paging search space is configured in an initial BWP only if that BWP includes the CD-SSB.**  Would be good to wait a bit. |
| Samsung | Yes | We support the changes in the RILs. |
| Xiaomi |  | H520, the issue is relates to whether Redcap UE need to read the SS for paging, SI from PDCCH-ConfigCommon configuration from legacy initial BWP in case RedCap-specific initial DL BWP NOT contains CORESET#0.  We have a paper R2-2206060. Can be discussed with X119-2.  Or wait for AT105.  H705, do not see the problem. |
| Huawei, HiSilicon | Yes | Fine to wait a little bit on H520 |
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**Summary – Q 2.2**

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

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## 2.3 RILs marked with “PropReject”

**Q 2.3** The following is a list of RILs which are marked as “PropReject” in the latest version of the Excel document that contains RILs, i.e., R2-2206022:

X115, X110, X111, X112, V165, H525, H526

The rapporteur has indicated that there is no need to implement those RILs as argued in R2-2206022. The rapporteur proposes the following:

**Proposal The following RILs are not pursued: X115, X110, X111, X112, V165, H525, H526.**

Do you agree with the proposal above? Please elaborate your reply, especially if you do not, and provide a resolution/text proposal that addresses your concerns considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes |  |
| Samsung | Yes | V165 can be superseded by H705 as rapporteur suggested.  H525/526 seems obvious, so we are fine with rapporteur's suggestion. |
| Xiaomi | - | X115: we want to add:  “To add:  6> if the UE is unable to acquire the SIB1:  7> perform the actions as specified in clause 5.2.2.5;  6> else:  7> upon acquiring SIB1, perform the actions specified in clause 5.2.2.4.2.  ”  If people think it is already clear in the spec, we can follow the majority view.  X110,and X111:  “apply a supported uplink channel bandwidth with a maximum transmission bandwidth which is wider than or equal to the bandwidth of the initial BWP for the uplink“ then the qestion is which initial BWP, the one for Redcap or for eMBB UE? We would rather to reconsider this.  X112, OK to withdraw it.  H525/526, to“ Add “This parameter shall always be present if the initial UL BWP for non-RedCap UEs exceeds the RedCap UE maximum bandwidth.” We think that is already caputured in 38.213. |
| Huawei, HiSilicon | Yes, except for the ones in comments | X100: If we understand the RIL correctly, it seems quite straight forward. Rapp may need to clarify why this is not needed.  4> apply a supported uplink channel bandwidth with a maximum transmission bandwidth which  - is contained within the *carrierBandwidth* indicated in *uplinkConfigCommon* for the SCS of the initial uplink BWP or, for RedCap UEs, initial uplink BWP for RedCap, if configured, and which  - is wider than or equal to the bandwidth of the initial BWP or, for RedCap UEs, initial BWP for RedCap, for the uplink;  We want to flag H525, H526:  The wording is included in the R1 LS on RRC parameterer. Is there any reason RAN2 spec does not follow R1 LS for this R1 related parameter?  “This parameter shall always be present if the initial UL BWP for non-RedCap UEs exceeds the RedCap UE maximum bandwidth.” |
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**Summary – Q 2.3**

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

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## 2.4 RILs marked with “PropDiscMeeting”

The discussion in this section is on a selection of RILs from the following list which are marked as “PropDiscMeeting”:

I051, O374, V162, X116, H507, V170, H508, N016, H510, FW001, S952, H511, C271, H512, Z035, Z036, N107, X119, V164, H513, H516, H518, X114, H523, S953, H524

**Q 2.4.1** This question is regarding RILs I051 and N016, which are related.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes | As proponent. It would be good to follow legacy way, i.e. the UE only needs to check cell barring information, it can also save 1 bit in system information. |
| Samsung | Yes | Agree with N016. |
| Xiaomi | - | Can be discussed.  The proposed change seems to treat *cellBarredRedCap1Rx or cellBarredRedCap2Rx as optional which is conflict with what we have agreed:*  “For the cell barring in SIB1, RAN2 agree to use two mandatory sub-IEs with {barred, notBarred} values included in one optional parent IE cellBarredRedCap-r17.“ |
| Huawei, HiSilicon | No | Please note the RAN2 ASN.1 review adhoc meeting agreement is “Group the RedCap-related fields in SIB1 under the same SEQUENCE and remove optionality bits from ENUMERATED whose other value is equal to field behaviour on absence, **with the intention NOT to change functionality.**”  This change reverts the RAN2 agreement/functionality: “ If RedCap-specific IFRI is absent from broadcast SI, the UE considers the cell does not support RedCap.”  The presence of RedCap specific IFRI is used to determine the supporting of RedCap. With the proposed RIL, we may need to update the procedure and field description. The impact is relatively huge, compared to saving just 1bit in SIB1. |
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**Summary – Q 2.4.1**

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

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**Q 2.4.2** This question is regarding RIL O374.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes | Ok to us. |
| Xiaomi | - | Can discuss whether UE to follow the IFRI in SIB1 or treat the IFRI as allowed  Seems the current spec is Ok. |
| Huawei, HiSilicon | No | Not essential.  There is still the case the halfDuplexRedCapAllowed is not present but intraFreqReselectionRedCap is present. Namely that the gNB supporting RedCap but not supporting HD-FFD only RedCap UE. The intraFreqReselectionRedCap is still usefull, since redcap-supporting gBN will have the knowledge of intra-frequency deployment for RedCap.  There is nothing wrong in the current spec, or even better than the proposed changes. |
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**Summary – Q 2.4.2**

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

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**Q 2.4.3** This question is regarding RIL V162.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes |  |
| Samsung | Yes | To change to 'perform' would be fine. |
| Xiaomi | - | Can discuss.  We also noticed that in 331, for eMBB UE, we also used this way. |
| Huawei, HiSlicon | Yes, but | V162 gives two options to change. We are only fine with the option1 in V162, similar comment as Samsung. |
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**Summary – Q 2.4.3**

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

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**Q 2.4.4** This question is regarding RIL X116.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Do not see the problem to keep the sentence. |
| Samsung | No | To update the text like in MIB (as proposed by V162) would resolve the issue? |
| Xiaomi | - | The same issue with V162. |
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**Summary – Q 2.4.4**

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

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**Q 2.4.5** This question is regarding RIL H507.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Maybe | No strong opinion on whether the Note should be added. It would be good to capture something in RAN4 spec. |
| Xiaomi | - | No strong view. Maybe we can add it. |
| Huawei, HiSilicon | Yes | Proponent. We also have the Tdoc [R2-2206080](file:///C:\Data\3GPP\RAN2\Docs\R2-2206080.zip) [H507] Corrections on cell re-selection measurements during RRC setup/resume |
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**Summary – Q 2.4.5**

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

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**Q 2.4.6** This question is regarding RIL H510.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Maybe | No strong opinion on whether “dB2” should be added as minimum value for stationary evluation. |
| Xiaomi | Yes | Reasonable.  Is the value range decided by RAN4 or RAN2? |
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**Summary – Q 2.4.6**

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

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**Q 2.4.7** This question is regarding RIL FW001.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided, e.g., R2-2204353.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Do not see the problem since TS38.304 is clear. |
| Xiaomi | No | Do not see the problem. |
| Huawei, HiSilicon | Yes | No strong view.  We may need to fix the typo anyway:5.2.4.9.Y->5.2.4.9.2 |
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**Summary – Q 2.4.7**

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

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**Q 2.4.8** This question is regarding RILs S952, H511, and C271.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | S952 cell reselection priority Cell level resele3ction priority for RedCap (1 rx, HDD)  It has been excluded in last meeting. |
| Samsung | Yes (Proponent) | Regardless of 1RX and HD-FDD issues, the legacy structure can be considered for the RedCap itself.  1RX and HD-FDD issues can be discussed together with SIB1 indication (considering FD-FDD capability). |
| Xiaomi | - | S952: we have excluded this.  H511,C271: OK |
| Huawei, HiSilicon | Yes to H511/C271 | S952 seems to introduce new feature rather than correction.  We provide the TP to implement this, See [R2-2206081](file:///C:\Data\3GPP\RAN2\Docs\R2-2206081.zip) [H511] Corrections on redcapAccessRejected  The intention is to keep the spec align with the R2 agreement. |
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**Summary – Q 2.4.8**

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

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**Q 2.4.9** This question is regarding RIL H512.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Comments | It is related to At meeting discussion 105, should wait. |
| Xiaomi | - | Wait for AT105. |
| Huawei, HiSilicon | Wait | Yes, this can just wait for the NCD-SSB offline conclusion. |
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**Summary – Q 2.4.9**

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

1. ???

**Q 2.4.10** This question is regarding RIL H512.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel |  | Duplicated with Q 2.4.9 |
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**Summary – Q 2.4.10**

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

1. ???

**Q 2.4.11** This question is regarding RIL Z035.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes | Looks good to us. |
| Samsung | Yes | - |
| Xiaomi | Yes |  |
| Huawei, HiSilicon | See comment | It is valid issue to be discussed. We also think CD-SSB can be used even the RedCap BWP is not associated with any SSB. So, RedCap separate BWP can be configured with rach-ConfigCommon in any case (w/o NCD-SSB). Maybe the following is more accurate.  “The NW configures SSB-based RA (and hence *RACH-ConfigCommon*) only for UL BWPs if the linked DL BWPs (same *bwp-Id* as UL-BWP) are the initial DL BWPs or DL BWPs containing the SSB associated to the initial DL BWP, or for RedCap separate initial UL BWP.“ |
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**Summary – Q 2.4.11**

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

1. ???

**Q 2.4.12** This question is regarding RILs Z036, N107, and H523.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Comments | H523, Need R should be correct since the field is put under extension and we need the way to delete it.  Z036, we agreed in last meeting delta signalling is not used. So do not understand why the need code should be changed to Need M?   1. For RedCap-specific BWP, both common and dedicated configurations are provided using full configuration, i.e., delta configuration is not supported.   N107, seems correct. |
| Xiaomi |  | Z036/ N107: can be discussed with X119-1 in **Q 2.4.13.** |
| Huawei, HiSilicon | See comments. | Z036 seems the better one. (We withdraw H523 somehow).  This is to address the case of HO where the target cell does not configure RedCap sepcific BWP anymore. So, it should be released.  But, we are open to on whether we have to use Setuprelease. Need R is also acceptable.  N107 (Need S) is not needed, this is not the default value, it is only to clarify UE fall back to use legacy BWP. |
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**Summary – Q 2.4.12**

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

1. ???

**Q 2.4.13** This question is regarding RIL X119-1.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Comments | May discuss based on Vivo R2-2204817 on the UE behavior if the RedCap-specific initial BWP is not configured. |
| Xiaomi | Yes | Can be disussed with Z036.  The purpose is to change the Need code of RedCap-specific initial DL BWP for handover.  We have provides a paper R2-2206062:  initialDownlinkBWP-RedCap-r17 BWP-DownlinkCommon OPTIONAL -- Cond ServCellAdd1  ServCellAdd1: For Redcap, this field is mandatory present upon handover from E-UTRA to NR. It is optionally present, Need M otherwise. |
| Huawei, HiSilicon | Yes, but | It is reasonable clarification. This is related to H525, H526, Z036.  In summary, we believe RedCap specific BWP is not mandatory in HO case. But it is mandatory if the legacy BWP exceeds the RedCap UE maximum bandwidth.  Then we can formulate the description similar to Cond *ServCellAdd*  This field is mandatory present upon serving cell addition for PSCell if the initial UL BWP for non-RedCap UEs exceeds the RedCap UE maximum bandwidth. It is optionally present, Need M otherwise. |
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**Summary – Q 2.4.13**

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

1. ???

**Q 2.4.14** This question is regarding RIL V164.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Do not see the need to add every RAN1 details in RRC specification. |
| Samsung | Maybe no | We are not sure whether the referred RAN1 agreement is about this update. |
| Xiaomi | No | Do not see the problem. |
| Huawei, HiSilicon | No | R1 LS does not indicate to add this. |
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**Summary – Q 2.4.14**

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

1. ???

**Q 2.4.15** This question is regarding RILs H513 and H516.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Editorial change, do not see the problem. |
| Samsung | No | The current wording looks okay to us. |
| Xiaomi | No | Do not see the problem. |
| Huawei, HiSilicon | Yes | This is related to H513, H516, H524, H527. See Tdoc in [R2-2206082](file:///C:\Data\3GPP\RAN2\Docs\R2-2206082.zip) [H513 H516 H520 H524 H525 H526 H527] Corrections on RedCap initial BWP  The proposal is to align the desciption with legacy text. |
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**Summary – Q 2.4.15**

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

1. ???

**Q 2.4.16** This question is regarding RIL H518.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Do not see the problem, since we already mentioned “the UE uses this BWP also for receiving DL messages during initial access (Msg2, Msg4, ...) and after initial access .” |
| Samsung | No | Agree with Intel. |
| Xiaomi | - | No strong view. Can check with RAN1. |
| Huawei, HiSilicon | Yes | No strong view on this. But, please note the R1 LS does not include this ”after initial access”. |
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**Summary – Q 2.4.16**

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

1. ???

**Q 2.4.17** This question is regarding RIL X119-2.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | We think from signalling pov, all signalling in PDCCH-CommonConfig should be in RedCap specific initial BWP. Then whether further UE needs to get it from the RedCap specific initial BWP or from the legacy initial BWP is for signalling optimisation. |
| Xiaomi | Yes | Can discuss with H520 in Q2.  The issue is relates to whether Redcap UE need to read the SS for paging, SI from PDCCH-ConfigCommon configuration from legacy initial BWP in case RedCap-specific initial DL BWP NOT contains CORESET#0.  We have a paper R2-2206060.  Or wait for AT105. |
| Huawei, HiSilicon | No, but | We need to clarify that UE should use the PDCCH-common provided in the legacy BWP, in case the separate BWP does not contain CORESET#0. |
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**Summary – Q 2.4.17**

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

1. ???

**Q 2.4.18** This question is regarding RIL X114.

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Intel | No | Do not see the strong need on the suggested sentence. |
| Xiaomi | Yes | Need to discuss.  If the RedCap specific initial DL BWP does NOT contain the entire CORESET#0, then the additional common control resource set configured for Redcap is not contained in the bandwidth of CORESET#0.  The current spec says“ The network configures the *commonControlResourceSet* in *SIB1* so that it is contained in the bandwidth of CORESET#0.“ Obviously, it is not considering the BWP may not containing CORESET#0.  We suggest it to be clarified. |
| Huawei, HiSilicon |  | Related to X119-2 |
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**Summary – Q 2.4.18**

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

1. ???

**Q 2.4.19** This question is regarding RIL S953 (Tdoc R2-2204541).

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
| Samsung | Yes (Proponent) | SI request configuration (for Msg1 based SI request) for the RedCap-specific initial UL BWP should be provided separately, as RedCap UEs have to use only the RedCap-specific initial UL BWP to perform RACH if configured.  Note that RedCap-specific initial UL BWP has its own RACH configuration (preambles/ROs). The preambles/ROs available for SI request on RedCap-specific initial UL BWP are not same as the preambles/ROs available for SI request on legacy initial UL BWP (i.e. non RedCap-specific initial UL BWP). So current SI request configuration cannot be applied for both RedCap-specific initial UL BWP and legacy initial UL BWP (i.e. non RedCap-specific initial UL BWP). |
| Xiaomi | - | Can be discussed.  The Redcap UE acquire the same SIB with eMBB UE, why the SI request configuration cannot be reused? |
| Huawei, HiSilicon | Should be concluded in this meeting | We also have a Todc on this [R2-2205040](file:///C:\Data\3GPP\Extracts\R2-2205040%20Discussion%20on%20MAC%20RACH%20related%20issues%20for%20RedCap%20UE.DOCX) Discussion on MAC RACH related issues for RedCap UE.  **Proposal 2: RedCap UEs always use the legacy initial UL BWP for Msg1 based SI request, if it does not exceed the RedCap UE maximum bandwidth. Otherwise, RedCap UEs use Msg3 based SI request.**  If companes are not willing to add ASN.1 signalling (as address in S953), our P2 should be agreed. |
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**Summary – Q 2.4.19**

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

1. ???

**Q 2.4.20** This question is regarding RIL V166

Do you agree with the issue(s) indicated? Please elaborate your reply, regardless of whether you do or not and provide a resolution/text proposal that addresses your concerns, if you agree with the intention considering the feedback from companies, if provided.

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| **Company** | **Yes/No** | **Comments** |
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**Summary – Q 2.4.20**

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

1. ???

## 2.5 RRC related issues discussed separately

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

[R2-2204929](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204929.zip) RRC open issues on Rel17 RedCap WI Intel Corporation

[R2-2204819](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204819.zip) UE Capability and System Information for eDRX vivo, Guangdong Genius

[R2-2205523](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2205523.zip) SIB validity with eDRX MediaTek Inc.

**Q 2.5.1** In R2-2204929, it is proposed that supported number of Rx for RedCap UEs is provided in *UERadioPagingInformation*.

Do you agree with the proposal? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Yes |  |
| Xiaomi | - | No strong view.  The CN already can identify the Redcap UE from UE initial message. If the CN knows the gNB does not support Redcap, then the CN will not forward the paging to gNB.  And for RAN paging, according the Xn AP, gNB can know which cell supports Redcap or not. |
| Huawei, HiSilicon | Yes | We also propose this in R2-2205037. |
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**Summary – Q 2.5.1**

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

1. ???

**Q 2.5.2** In R2-2204819 it is proposed that there should be two indications in SIB1, one that indicates whether IDLE eDRX is enabled in the serving cell, and one that indicates whether INACTIVE eDRX is enabled in the serving cell.

Do you agree with the proposal? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Comments | It depends on the discussion in 110 on whether we have separate capability for IDLE and INACTIVE UE or not. It would be good to wait a bit. |
| Xiaomi | - | Same view with intel. |
| Huawei, HiSilicon |  | Better to discuss in offline 110. |
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**Summary – Q 2.5.2**

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

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**Q 2.5.3** In R2-2205523 it is proposed that, by default, UEs configured with eDRX should consider stored system information to be invalid after 24 hours from the moment it was successfully confirmed as valid, which is currently specified as 3 hours, and suggested to introduce an optional parameter, i.e., *si-ValidityTime*, in case an operator prefers to configure it with 3 hours.

Do you agree with the proposal? Please elaborate your reply, especially if you do not.

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| **Company** | **Yes/No** | **Comments** |
| Intel | Maybe | The intention seems reasonable however it seems more logical if this kind of config is defined as UE-specific (i.e. provided in *RRCRelease*) as the storage requirement may be very different for a UE config with eDRX of 2.56sec vs very long values, In addition, the procedural text needs to check whether *eDRX-Allowed* is set by the network. |
| Xiaomi | - | Can be discussed.  Seems an optimization. Unlike in NB-Iot, the UEs may not be configured with such a large eDRX cycle( Note that we also have introduced eDRX of 2.56s) then seems 3 hrs in current spec is sufficient. |
| Huawei, HiSlicon | No | The 24hour was introduced in LTE, not due to eDRX. It is mainly for the service latency requirement, e.g. NB-IoT UE is allowed to not have the valid SI in a very long time.  The max eDRX is only 2.9hour, which means the latency requirement is only relaxed to 2.9h, rather than 24 hours. |
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**Summary – Q 2.5.3**

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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 ???](#_Toc103161219)

[Proposal 2 ???](#_Toc103161220)

[Proposal 3 ???](#_Toc103161221)

[Proposal 4 ???](#_Toc103161222)

[Proposal 5 ???](#_Toc103161223)

[Proposal 6 ???](#_Toc103161224)

[Proposal 7 ???](#_Toc103161225)

[Proposal 8 ???](#_Toc103161226)

[Proposal 9 ???](#_Toc103161227)

[Proposal 10 ???](#_Toc103161228)

[Proposal 11 ???](#_Toc103161229)

[Proposal 12 ???](#_Toc103161230)

[Proposal 13 ???](#_Toc103161231)

[Proposal 14 ???](#_Toc103161232)

[Proposal 15 ???](#_Toc103161233)

[Proposal 16 ???](#_Toc103161234)

[Proposal 17 ???](#_Toc103161235)

[Proposal 18 ???](#_Toc103161236)

[Proposal 19 ???](#_Toc103161237)

[Proposal 20 ???](#_Toc103161238)

[Proposal 21 ???](#_Toc103161239)

[Proposal 22 ???](#_Toc103161240)

[Proposal 23 ???](#_Toc103161241)

[Proposal 24 ???](#_Toc103161242)

[Proposal 25 ???](#_Toc103161243)

[Proposal 26 ???](#_Toc103161244)

# References

1. [R2-2206021](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206021.zip) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.331
2. [R2-2206022](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206022.zip) RedCap WI ASN1 RIL list Ericsson discussion Rel-17
3. [R2-2204725](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204725.zip) [O374] correction on RedCap UE’s cell barring OPPO draftCR 38.331
4. [R2-2204736](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204736.zip) [O372] Discussion on prohibit timer for UAI for RRM relaxation fulfilment indication OPPO
5. [R2-2204737](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204737.zip) [O377] Correction to 38.331 on UAI for RRM relaxation fulfilment indication OPPO
6. [R2-2204813](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204813.zip) [V166] Including RedCap Capability in the UERadioPagingInformation Inter-Node Message vivo, Guangdong Genius
7. [R2-2204814](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204814.zip) [V170] Discussion on Inter-RAT Mobility from LTE to NR for RedCap vivo, Guangdong Genius
8. [R2-2204929](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204929.zip) RRC open issues on Rel17 RedCap WI Intel Corporation
9. [R2-2206059](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206059.zip) [X115]38.331 Corrections on UE's behaviour of getting SIB1 for Redcap Xiaomi Communications
10. [R2-2206060](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206060.zip) [X119][X114] Discussion on PDCCH-ConfigCommon for Redcap Xiaomi Communications
11. [R2-2206061](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206061.zip) [X119][X114] 38.331 Corrections on PDCCH-ConfigCommon for Redcap Xiaomi Communications
12. [R2-2206062](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206062.zip) [X120] 38.331 Corrections on Need code of RedCap-specific initial DL BWP for handover Xiaomi Communications
13. [R2-2204541](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204541.zip) [S953] SI Request for RedCap UEs Samsung Electronics Co., Ltd
14. [R2-2204936](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204936.zip) I051 support of RedCap based on intraFreqReselectionRedCap Intel Corporation
15. [R2-2204979](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2204979.zip) Cell reselection priority for RedCap (RIL#: S952) Samsung

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6. [R2-2206082](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_118-e/Docs/R2-2206082.zip) [H513 H516 H520 H524 H525 H526 H527] Corrections on RedCap initial BWP Huawei, HiSilicon

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