3GPP TSG-RAN WG2 #114 Tdoc R2-21xxxxx

Electronic meeting, May 19th – 27th, 2021

Agenda Item: 6.5.1

Source: Ericsson (rapporteur)

Title: [AT114-e][220][DCCA] Miscellaneous DCCA corrections

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* [AT114-e][220][DCCA] Miscellaneous DCCA corrections (Ericsson)

Scope:

* + - Discuss corrections under R16 DCCA WI marked for this discussion to see which CRs could be agreeable.

Intended outcome:

* + - Discussion summary in [R2-2106492](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_114-e/Docs/R2-2106492.zip) (by email rapporteur).
    - Agreeable CRs (if any)

Deadline for providing comments, for rapporteur inputs, conclusions and CR finalization:

* + - Initial deadline (for company feedback): 1st week Fri, UTC 0900
    - Initial deadline (for rapporteur summary): 2nd week Mon, UTC 1000
    - Deadline for CR finalization: 2nd week Wed, UTC 1000

# 2 Discussion

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provide input to provide their contact information in this table:

|  |  |
| --- | --- |
| Company | Delegate contact |

|  |  |
| --- | --- |
| Ericsson | stefan.wager@ericsson.com |
| Huawei, HiSilicon | david.lecompte@huawei.com |
| MediaTek | Chun-fan.tsai@mediatek.com |
| ZTE | liu.jing30@zte.com.cn |
| Nokia | [jarkko.t.koskela@nokia.com](mailto:jarkko.t.koskela@nokia.com) |
| vivo | wenjuan.pu@vivo.com |
| Qualcomm | [chengp@qti.qualcomm.ocm](mailto:chengp@qti.qualcomm.ocm) |
| Samsung | s\_dg.kim@samsung.com |
| Apple | naveen.palle@apple.com |
|  |  |

Companies are requested to add their comments for each of the treated CRs of this email discussion in the boxes below.

## 2.1 UE capability corrections

[R2-2105057](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2105057.zip) Corrections on the capability of eutra-IdleInactiveMeasurements CATT CR Rel-16 36.306 16.4.0 1810 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The CR proposes to clarify in *eutra-IdleInactiveMeasurements-r16* that reporting eNB-configured CRS-based RRM measurements for configured carriers is supported also in RRC\_CONNECTED.

*Question 1: Do companies agree the CR?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | No | This Rel-16 capability *eutra-IdleInactiveMeasurements-*r16 indicates what the UE supports in addition to the Rel-15 capability *ca-IdleModeMeasurements-r15*. This can also be seen in the description for *eutra-IdleInactiveMeasurements-r16* where it says that “A UE that indicates support of this feature shall also indicate support of *ca-IdleModeMeasurements-r15*”.  The support for RRC\_CONNECTED mode is already included in the capability *ca-IdleModeMeasurements-r15*:  ***4.3.6.31 ca-IdleModeMeasurements-r15***  *This field defines whether the UE supports performing eNB-configured CRS-based RRM measurements for configured carrier(s) in RRC\_IDLE mode, including reporting them when requested by eNB while in RRC\_CONNECTED, as specified in TS 36.331 [5].*  Thus, the CR is not needed. |
| Huawei, HiSilicon | The changes are ok but editorial | If something has no capability, it is mandatory, so without the change, the UE would be required to support the reporting procedure in RRC\_CONNECTED even though it does not support the NR measurements in RRC\_IDLE, but no network implementation will ask reporting in that case, so no problem can occur. We are ok for the changes as it is more consistent but this could be merged to another CR because no problem can occur. |
| MediaTek | No strong view | Correct but not essential. We slightly prefer to have this change as it would be consistent with previous sentence. |
| ZTE | Prefer No | Idle measurement report is useful while resuming the RRC Connection, so even if network obtains the results in RRC\_CONNECTED by sending UEInformationRequest (not RRCResume), this should be done as early as possible, e.g. right after receiving RRCResumeComplete. Otherwise, the idle measurement results will be out-of-date.  Regarding the current wording “while resuming the RRC connection from RRC\_IDLE”, we think it only refer to the scenario that early measurement results can be beneficial, it does not strictly say only *RRCConnectionResume* message is involved. So we think the original wording is also fine. |
| Nokia | No strong view | Spec is clear but also there is nothing wrong with the CR. If there rapporteur CR then it would be OK to have this there but not enough reason to have own CR for this one. |
| vivo | No | Agree with Ericsson. |
| Qualcomm | No strong view | Same view as MediaTek and Nokia |
| Samsung | No strong view | It seems not essential. |
| Apple | No strong view | Similar views as MediaTek |
| CATT | Yes (as proponent) | Our intention is also to align with the current spec for the case that "if the UE also indicates support of *inactiveState-r15* ". Since for case that UE supporting RRC connection suspension state, the measurement results performed in RRC\_IDLE state can be either reported upon resume or in RRC\_CONNECTED via UE information. Currently, the way of via UE information is not covered by the specification. |
| LG | No strong view | No strong view, but we agree with MediaTek to have consistency with preceding sentence. |

*Rapporteur summary: Three companies are against the CR, since it is not needed. The rest of the companies have no strong view, but consider the change technically correct and would align the text with the previous sentence of the field description. Given the CR is non-essential editorial correction, rapporteur suggests proponent company to contact 38.306 rapporteur (Intel) to include the change in 38.306 miscellaneous CR.*

1. Changes in R2-2105057 can be merged into 38.306 rapporteur miscellaneous corrections CR.

[R2-2105058](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2105058.zip) Corrections on the capability of direct SCG SCell activation CATT CR Rel-16 38.306 16.4.0 0576 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: Mainly editorial CR with the following changes:

1. Clarifies that directSCG-SCellActivationResume-r16 applies also to NGEN-DC.
2. Correct typo “en-dc” -> “en-DC”
3. Correct typo “nr-dc” -> “NR-DC”

*Question 2: Do companies agree the CR?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | Yes with change | To align with other capability descriptions, it would be better to refer to architecture options rather capability fields.  For 1, change to “support of (NG)EN-DC”.  For 2, change to “EN-DC” |
| Huawei, HiSilicon | Yes except coversheet | The change is ok but the analysis is not correct: without the change, the network cannot use direct SCell activation if the UE supports NGEN-DC only (not EN-DC). The impact of the only non-editorial change is to NGEN-DC, there is no impact to any other architecture.  Besides, we should not use "if the UE indicates support of (NG)EN-DC" as suggested by Ericsson because it is unclear whether it means "if the UE indicates support of EN-DC and NGEN-DC" or "if the UE indicates support of EN-DC or NGEN-DC". |
| MediaTek | Yes with comment | Looks like editorial correction.  We are okay with the change from “nr-dc” to “NR-DC”.  For the change from “en-dc” to “en-DC or ng-EN-DC”, we prefer to use “(NG)EN-DC”. Using “EN-DC or NGEN-DC” is also fine if company has concern. |
| ZTE | Yes with change | For 1, we think it is more precise to say “EN-DC or NGEN-DC”. In addition, since 3 conditions are mentioned (i.e. EN-DC, NGEN-DC, resumeWithSCG-Config), and both “or” and “and” are used, to make it clear, we suggest to add a comma before the last condition, like:  “if the UE indicates support of EN-DC or NGEN-DC, and support of *resumeWithSCG-Config-r16* as specified in TS 36.331 [17].”  And, we should use EN-DC instead of en-DC. |
| Nokia | Similar view with above comments | This is editorial CR – Thus one could consider to have this in rapporteur CR (if any) possibly with other editorial corrections (e.g. then one prior to this one). Anyway we agree with changes proposed by ZTE (and basically others) about proper wording in the CR. |
| vivo | No strong view | For the 1st correction, it has been stated that “A UE indicating support of directSCG-SCellActivationResume-r16 shall indicate support of EN-DC or NGEN-DC and support of resumeWithSCG-Config-r16 as specified in TS 36.331 [17]”, so we are not clear the necessity of this correction.  For 2nd and 3rd correction, we agree that it would be better to use “EN-DC”, “NGEN-DC”, and “NR-DC” to describe. |
| Qualcomm | Yes | Agree with change suggested by Ericsson.  It can be included in rapporteur CR |
| Samsung | Yes with change | We are fine with ZTE’s suggestion. |
| Apple | Yes | Agree with Ericsson’s comments |
| CATT | Yes (as proponent) | To Ericsson:   1. For the 1st suggestion, we prefer not to change to “support of (NG)EN-DC”, since it is unclear whether it is “NGEN-DC and EN-DC”, or “NGEN-DC and EN-DC” as commented by HW. 2. As for to refer the architecture options rather capability fields, we are fine if majority agree.   To HW:  the other two corrections of “nr-dc” to “NR-DC” and “en-dc” to “en-DC” is to align with the capability fields defined for those architecture options, especially for “nr-dc”, there is not such capability fields. But if majority think impacted architectures due to these two changes are only editorial and no need to address, we are also fine to revision the coversheet of the CR by modifying the impacted architecture. |

*Rapporteur summary: Majority of participating companies agree with the intent of the CR, but regard it as editorial, so since there were also some issues identified with the cover sheet, rapporteur suggests same as for previous CR to merge it into 38.306 miscellaneous corrections CR (Intel). For detailed wordings:*

* *For the first change, majority seem to prefer the following formulation:* “if the UE indicates support of EN-DC or NGEN-DC, and support of *resumeWithSCG-Config-r16* as specified in TS 36.331 [17].”.
* *For first change, majority support to refer to architecture options rather than capability fields, i.e. “EN-DC” instead of “en-DC”.*

1. Changes in R2-2105058 can be merged into 38.306 rapporteur miscellaneous corrections CR, after updating according to discussion conclusion.

## 2.2 NR-DC power control signalling (based on RAN1 feedback)

[R2-2106162](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106162.zip) Clarification on intra-FR2 NR-DC power control Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh

[R2-2106262](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106262.zip) Furthur discussion on FR2 NR-DC power control vivo discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2106263](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106263.zip) Correction on FR2 NR-DC power control parameter vivo, MediaTek Inc CR Rel-16 38.331 16.4.1 2684 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The above contributions all address the incoming LS:

[R2-2104708](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2104708.zip) Further Reply LS on power control for NR-DC (R1-2104018; contact: Apple, vivo) RAN1 LS in Rel-17 LTE\_NR\_DC\_CA\_enh-Core To:RAN4 Cc:RAN2

In the LS, RAN1 confirms that the RAN1 specified power control for FR2 does not work without p-NR-FR2:

*“According to the current TS38.213, if a UE is configured with both MCG and SCG using NR radio access in FR2, the maximum power for FR2 for transmissions in MCG () is given by p-NR-FR2 corresponding to MCG, and the maximum power for FR2 for transmissions in SCG () is given by p-NR-FR2 corresponding to SCG. Consequently, not introducing p-NR-FR2 is not consistent with current RAN1 specifications and would result in undefined power control for both uplink CCs of MCG in FR2 and uplink CCs of SCG in FR2.”*

Based on this input, the contributions propose changes to TS 38.331, TS 38.306 and TS 37.340. In the following, we discuss the proposed changes per specification.

### 2.2.1 TS 38.331

Both [R2-2106162](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106162.zip) and [R2-2106263](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106263.zip) propose changes to TS 38.331 that are almost identical, basically adding the sentence “This field is not used in this version of specification” to applicable fields. The only difference is that [R2-2106263](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106263.zip) covers also *nrdc-PC-mode-FR2* in *CG-ConfigInfo* and *nrdc-PCmode-FR2* in *PhysicalCellGroupConfig*. Given that [R2-2106262](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106262.zip) makes the same proposal, rapporteur suggests to take the CR in [R2-2106263](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106263.zip) as basis, with the addition that the sentence ”This field is not used in this version of specification” is added also to the fields *nrdc-PC-mode-FR2* in *CG-ConfigInfo* and *nrdc-PCmode-FR2* in *PhysicalCellGroupConfig.*

*Question 3: Do companies agree the CR in R2-2106263, with the addition that the sentence ”This field is not used in this version of specification” is added also to the fields nrdc-PC-mode-FR2 in CG-ConfigInfo and nrdc-PCmode-FR2 in PhysicalCellGroupConfig?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | Yes |  |
| MediaTek | Yes |  |
| ZTE | Yes, but | The changes in CR look generally correct. However, we don’t think it is urgent to agree the CR now, because if RAN4 responds that FR2 NR-DC cannot be supported as a consequence, then spec may need update again. So we suggest to wait for the response from RAN4, and then discuss RAN2 SPEC changes. |
| Nokia | Yes | We think it is OK to agree with the CRs. We do not see need to update the spec even if RAN4 would indicated FR2 NR DC cannot be supported – That seems obvious if power control parameters are obsolete. |
| vivo | Yes | Same view as Nokia. |
| Huawei, HiSilicon | Postpone | The changes are fine to us. But we are wondering why not to just take R2-2106162 considering rapporteur also thinks “*nrdc-PC-mode-FR2* in *CG-ConfigInfo* and *nrdc-PCmode-FR2* in *PhysicalCellGroupConfig*” covered by R2-2106162 are correct and needed.  However, we would not argue much, as companies are likely to postpone the part related to UE capabilities of the PC-modes supported for FR2 in Q4. So we share the same view as ZTE, we should also postpone the RRC CR, as we should avoid from having an uncompleted CR in this meeting and have another CR later for the same issue. |
| Qualcomm | Yes | It is also fine for us to postpone agree this CR |
| Samsung | Yes, but | It seems not urgent. |
| Apple | Postpone |  |
| CATT | Yes, but | We can discuss RAN2 spec changes after receiving the response from RAN4. |

*Rapporteur summary: Participating companies agree with the CR with the proposed additions, but several companies prefer to wait with the CRs until RAN4 responds to the RAN1 LS, since if RAN4 responds that FR2 NR-DC cannot be supported in general, it may have further impact to the specifications.*

1. Changes to 38.331 regarding FR2 power control are postponed until RAN4 input is received.

### 2.2.2 TS 38.306

In [R2-2106162](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106162.zip), changes are proposed to the NR-DC power sharing capabilities to indicate that FR2 is not supported. There are two options proposed for how to do this.

In [R2-2106262](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106262.zip), it is proposed that no changes are needed for the NR-DC power sharing capabilities.

Rapporteur notes that there is an ongoing discussion on possible UE capability impact in RAN1. It relates to the LS [R2-2104708](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2104708.zip) that RAN1 sent to RAN4, so for UE capability impact RAN2 should await the outcome in RAN1.

*Question 4: Do companies agree to wait for RAN1 for the required updates to UE capabilities?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | Yes |  |
| MediaTek | Yes |  |
| ZTE | Yes |  |
| Nokia | Yes |  |
| vivo | Yes | Ok to wait for RAN1. |
| Huawei, HiSilicon | Yes | Since this is not urgent, we can accept to postpone and wait for RAN4 reply LS and further RAN1 decision. |
| Qualcomm | Yes |  |
| Samsung | Yes |  |
| Apple | Yes |  |
| CATT | Yes |  |

*Rapporteur summary: All companies agree to await RAN1 input.*

1. Changes to 38.306 regarding FR2 power control are postponed until RAN1 input is received.

### 2.2.3 TS 37.340

In [R2-2106162](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106162.zip), there is a proposal to update the description in 37.340 to highlight that NR-DC power sharing within FR2 is not supported in Rel-16.

Rapporteur notes that the current description in 37.340 is on a high level and agnostic to FR1/FR2. From this perspective it is sufficient to cover the FR2 limitation in stage-3, and stage-2 update is not needed.

*Question 5: Do companies agree to update the description in 37.340 to cover the FR2 limitation in Rel-16?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | No | As mentioned above there is not need to mention this in the high level description in stage-2 as the FR2 limitation will be covered in stage-3. |
| MediaTek | No strong view | Not critical to clarify this in stage 2 but fine to have it if majority prefers. |
| ZTE | Yes, but | If we conclude FR2 power coordination is not needed, then TS 37.340 can be updated. But we prefer to make update after receiving the final conclusion from RAN4. |
| Nokia | No strong view | This will be clear in stage 3. No need to expclitly outrule in stage 2. |
| vivo | No | It is sufficient to cover the FR2 limitation only in stage-3. |
| Huawei, HiSilicon | Yes | We think the changes are needed. Even though it is stage 2, we still need to make sure no misleading in the spec. However, similar as handling of 331 and 306 CR, if companies prefer to wait for RAN4 reply LS, we can accept to postpone. |
| Qualcomm | No strong view | We can agree if majority agree. In that case, we prefer to make update after receiving the final conclusion from RAN4. |
| Samsung | No | Agree with Rapp. |
| Apple | No strong view |  |
| CATT | No strong view | Clarification in stage 2 spec seems to be fine, but this is not critical. |

*Rapporteur summary: Majority of participating companies think stage-2 changes are not needed or have no strong view. Thus there seems to be no momentum for changing stage-2. The stage-2 description can be kept FR1/FR2 agnostic, and the limitations in FR2 power control support can be covered in stage-3.*

1. No changes needed in 37.340 to reflect support or no support of FR2 power control in Rel-16.

## 2.3 Miscellaneous corrections

[R2-2105322](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2105322.zip) Correction on pdsch-HARQ-ACK-Codebook-secondaryPUCCHgroup 38 331 CATT CR Rel-16 38.331 16.4.1 2613 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The CR clarifies for *pdsch-HARQ-ACK-Codebook-secondaryPUCCHgroup* that it applies only for CA, since secondary PUCCH group cannot be configured for UE in non-CA case.

*Question 6: Do companies agree the CR?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | Yes, but | this non-functional change shall be added to rapporteur CR. It is apparently a copy-paste error from text in *pdsch-HARQ-ACK-Codebook*. |
| Huawei, HiSilicon | Yes, but | same view like Ericsson, there is no functional issue |
| MediaTek | Yes | Agree to add this editorial change to rapporteur CR. |
| ZTE | Yes | Same view as Ericsson. |
| Nokia | Yes | Same as Ericsson |
| vivo | Yes |  |
| Qualcomm | Yes | **Same view as Ercsson** |
| Samsung | Yes | Agree with Ericsson. |
| Apple | Yes but | Same view as Ericsson |
| CATT | Yes | Proponent |
| LG | Yes | Yes, We have same view with Ericsson |

*Rapporteur summary: All of participating companies agree with the change, but consider it editorial change to be merged into rapporteur CR.*

1. Changes in R2-2105322 are merged into 38.331 DCCA rapporteur CR.

[R2-2106065](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106065.zip) Clarification on coordination of UE measurement capabilities for CHO and MDT in MRDC Samsung Telecommunications CR Rel-16 38.331 16.4.1 2665 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The CR proposes to add a note in *CG-ConfigInfo* field descriptions that restrictions in *maxInterFreqMeasIdentitiesSCG*, *maxIntraFreqMeasIdentitiesSCG* and *maxMeasFreqsSCG*, also cover measurements for immediate MDT and conditional reconfiguration.

*Question 7: Do companies agree the CR?*

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| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | No | It seems rather clear already that these measurements should be covered by the parameters as it says “…maximum number of allowed measurement identities…” and “…maximum number of NR inter-frequency carriers…”. MeasId is included also in conditional reconfiguration. There is no need for the note to list explicitly what is covered and what not, and it introduces a risk that something is missed. |
| Huawei, HiSilicon | Maybe no | We tend to agree with Ericsson but a note could be ok. |
| ZTE | No | We have same view as Ericsson, no matter of MDT, CHO or normal measurements, they are configured by MeasConfig, and share the same MeasId space.  MeasId ::= INTEGER (1..maxNrofMeasId)  So the current wording can cover all the cases.  We don’t prefer to add note, as Ericsson pointed out, it may introduce a risk that something is missed. |
| Nokia | No | Spec seems to be clear as Ericsson points out. Additionally NOTEs are not requirements we do not generally like to see NOTEs unless they are purely informative |
| vivo | No | No need to explicitly list the case that these measurements can cover. |
| Qualcomm | No | **Same view as Ericsson** |
| Samsung | Yes, but | We are OK with the majority view. |
| CATT | No | Share the similar view with Ericsson. And other parameters should also be considered if the note is added which will have a risk that something is missed as mentioned by Ericsson. |

*Rapporteur summary: Majority of participating companies regard the change is not needed.*

1. R2-2106065 is not agreed.

[R2-2104957](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2104957.zip) Clarification reconfigurationWithSync IE reception due to fast MCG recovery OPPO CR Rel-16 38.331 16.4.1 2595 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The CR proposes to remove the limitation of ”not suspended” for SRB2 and at least one DRBs when including *reconfigurationWithSync* is included in *masterCellGroup*:

“- the *reconfigurationWithSync* is included in *masterCellGroup* only when AS security has been activated, and SRB2 with at least one DRB or, for IAB, SRB2, are setup;”

*Question 8: Do companies agree the CR?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | No | Suspension here refers to suspension of SRB2 and DRBs, e.g. during RRC re-establishment. In case of MCG failure, SRBs and DRBs are not suspended, only MCG transmission is suspended for SRBs and DRBs. Transmission via SCG is still possible for SRBs and DRBs that are configured with SCG RLC bearer. Thus, bearers are not suspended, and there is nothing wrong with the current text. |
| Huawei, HiSilicon | No | Agree with Ericsson, moreover, the text proposed to be removed is to exclude reconfigurationWithSync in the first reconfiguration after reestablishment, removing that text would then introduce new UE requirements to support this |
| MediaTek | No | Same comment as Ericsson and Huawei. |
| ZTE | No | We think the CR is not needed, because when all DRBs are configured in MCG, it means network does not configure SCG *CellGroupConfig* to UE. According to the requirements defined in TS 38.331 section 5.1.3, in this case, UE will NOT regard itself as configured with MR-DC. So UE will not trigger MCG failure recovery in this scenario. |
| Nokia | No | Suspending an RB is different from suspending MCG transmission for the RB, even if the RB is MCG-only. |
| vivo | No | Agree with Ericsson and Huawei. |
| Qualcomm | No | Same comments as above |
| Samsung | No |  |
| Apple | No |  |
| CATT | No | There will be some impacts (e.g. reestablishment mentioned by Huawei) if the change is agreed. |
| LG | No | Same view with preceding comments |

*Rapporteur summary: No participating company support the CR.*

1. R2-2104957 is not agreed.

[R2-2106022](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106022.zip) Correction on field condition for MCG recovery Ericsson CR Rel-16 38.331 16.4.1 2663 - F LTE\_NR\_DC\_CA\_enh-Core

Rapporteur comment: The CR proposes to clarify in field condition SCG that the field is mandatory in case of *RRCReconfiguration* message contained in an *RRCConnectionReconfiguration* message, which is received in response to *MCGFailureInformation*. The change is closely related to the IPA CR in [R2-2106333](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106333.zip). Since both contain changes for the same field condition, if agreed, this CR could be merged with IPA CR in [R2-2106333](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_114-e/Docs//R2-2106333.zip) to avoid collision when merging CRs into the spec.

*Question 8: Do companies agree the CR?*

|  |  |  |
| --- | --- | --- |
| Company | Agree (yes/no) | Comments |
| Ericsson | Yes | For similar reasons as in IPA CR R2-2106333, *secondaryCellGroup* is needed also for the recovery from MCG failure in (NG)EN-DC, which requires LTE handover. Since LTE handover always involves master key change, *secondaryCellGroup* is needed either to provide *reconfigurationWithSync* (in case of SN terminated DRBs), or to release SCG RLC bearers (in case of MN terminated DRBs). |
| Huawei, HiSilicon | No | The fact that secondaryCellGroup must be included in EN-DC in case of handover is already true in Rel-15 but this is not captured in this field description because it is covered by descriptions of handover/key change procedures.  These descriptions are written in such a way that they can apply to handover inside inside DLInformationTransferMRDC without the need for any change.  So no problem can occur without this CR.  The situation in IPA CR R2-2106333 is totally different: without the CR, nothing prevents the network from restoring the SCG without including secondaryCellGroupConfig, so the UE could have to restore the SCG without RACH, which is was never discussed.  Regarding the first comment from ZTE: if you the network would be allowed to not include secondaryCellGroup because it is optional, it would also mean that in NR-DC, if KgNB changes in the RRCReconfiguration (whether it is received on SRB1 or in DLInformationTransferMRDC on SRB3), the network may not include secondaryCellGroup because it is optional.  Supposing one could be confused with the "optional", we could add a note to explain, but there is no functional issue, this is just for explanation and can be merged to misc. corrections.  Regarding the comments from ZTE on "release all SCG bearers": this note covers release and add. |
| MediaTek | Yes | We are okay with this CR and could merge it with IPA CR R2-2106333. On the other hand, if there is strong concern, we are also fine not having it and rely on the general description as commented by Huawei. It is actually difficult to capture all possibility in field description and conditional code, but we could try to make SPEC as clear as possible. |
| ZTE | Yes with changes | Regarding the comment from Huawei, if we don’t have this CR, then based on the yellow sentence, network is allowed to not provide *secondaryCellGroup* in case of EN-DC handover triggered upon MCG failure recovery. That is incorrect.  The field is optional present, Need M, in:  - an *RRCReconfiguration* message contained in another *RRCReconfiguration* message (or in an *RRCConnectionReconfiguration* message, see TS 36.331 [10]) which is contained in *DLInformationTransferMRDC*  So we think the modification in CR is correct.  But if MN decides to release SCG (releasing all SCG RLC bearers means releasing SCG CellGroup configuration) upon MCG failure recovery, then the *RRCConnectionReconfiguration* will include endc-ReleaseAndAdd **without** including RRCReconfiguration container. So the cover page can be updated to remove the case of “releasing all existing SCG RLC bearers”. |
| Nokia | No strong view | We see nothing wrong with the CR so we are OK to agree but also Huawei has a point. So we have quite neutral view on this one but generally it is always preferred to have as clear spec as possible. |
| vivo | Yes | The CR is correct, and should be agreed.  Besides, we also agree with the comments provided by ZTE for the cover page. |
| Qualcomm | No strong view | Same view as MediaTek: We are okay with this CR and could merge it with IPA CR R2-2106333. On the other hand, if there is strong concern, we are also fine not having it and rely on the general description as commented by Huawei. |
| Samsung | Yes | It would be better to merge this with R2-2106333 since both have a similar reason. |
| Apple | Yes | Same view as MediaTek |
| CATT | No strong view | It seems no problem can occur without the CR as the network anyway will get to know to configure the *secondaryCellGroup* if the *RRCReconfiguration* message contained in an *RRCConnectionReconfiguration* message is sent to UE. |
| LG | No | Same view as MediaTek. We think this CR can be merged in IPA CR, but this is not strong view. |

*Rapporteur summary: 6 companies support the CR. One company is against, but no strong concern was raised against the CR. The comment that “secondaryCellGroup must be included in EN-DC in case of handover is already true in Rel-15 but this is not captured in this field description” is true, but it is because the case of “an RRCReconfiguration message contained in another RRCReconfiguration message (or in an RRCConnectionReconfiguration message, see TS 36.331 [10]) transmitted on SRB1” is not always a handover. The rest of the companies have no strong view, but consider the content of the CR correct and that it could be merged with the IPA CR R2-2106333. Then the reason for change should also be updated to remove the “releasing all existing SCG RLC bearers” as commented by ZTE. Thus rapporteur propose:*

1. Merge the changes in R2-2106022 into IPA CR R2-2106333.

# Conclusion

Rapporteur would like to thank all companies participating in the email discussion. In summary, based on the discussion the following is proposed:

[Proposal 1 Changes in R2-2105057 can be merged into 38.306 rapporteur miscellaneous corrections CR.](#_Toc72513395)

[Proposal 2 Changes in R2-2105058 can be merged into 38.306 rapporteur miscellaneous corrections CR, after updating according to discussion conclusion.](#_Toc72513396)

[Proposal 3 Changes to 38.331 regarding FR2 power control are postponed until RAN4 input is received.](#_Toc72513397)

[Proposal 4 Changes to 38.306 regarding FR2 power control are postponed until RAN1 input is received.](#_Toc72513398)

[Proposal 5 No changes needed in 37.340 to reflect support or no support of FR2 power control in Rel-16.](#_Toc72513399)

[Proposal 6 Changes in R2-2105322 are merged into 38.331 DCCA rapporteur CR.](#_Toc72513400)

[Proposal 7 R2-2106065 is not agreed.](#_Toc72513401)

[Proposal 8 R2-2104957 is not agreed.](#_Toc72513402)

[Proposal 9 Merge the changes in R2-2106022 into IPA CR R2-2106333.](#_Toc72513403)