3GPP TSG-RAN WG2 #113-e Tdoc R2-21xxxxx

Electronic meeting, January 25th – February 5th, 2021

Agenda Item: 6.8.1

Source: Ericsson (rapporteur)

Title: Summary of [AT113-e][221][DCCA] Other DCCA corrections

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* [AT113-e][221][DCCA] Other DCCA corrections (Ericsson)

Scope:

* + - Discuss corrections under 6.8.x marked for this discussion to see which CRs could be agreeable
    - Some (or even all) CRs may be merged together if seen needed

Intended outcome:

* + - Discussion summary in [R2-2101967](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2101967.zip) (by email rapporteur).
    - Agreeable CRs (if any)

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

* + - Initial deadline (for companies' feedback): 1st week Thu, UTC 0900
    - Initial deadline (for rapporteur's summary): 1st week Fri, UTC 0900
    - Deadline for CR finalization: 2nd week Thu, 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:

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

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| Ericsson | stefan.wager@ericsson.com |
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Companies are requested to add their comments for each of the treated CRs of this email discussion in the boxes below.

## 2.1 HARQ-ACK codebook configuration (RAN1)

[R2-2101076](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2101076.zip) CR on HARQ-ACK codebook configuration for secondary PUCCH group Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2384 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100095](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100095.zip) Clarification on HARQ-ACK codebook for secondary PUCCH group CATT CR Rel-16 38.331 16.3.1 2299 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The above CRs both address incoming RAN1 LS in* [*R1-2009631*](http://www.3gpp.org/ftp/tsg_ran/WG1_RL1//TSGR1_103-e/Docs//R1-2009631.zip) *and are therefore discussed together. The RAN1 LS is to inform RAN2 that:*

*“RAN1 #103 discussed the issue that according to the current specification, both pdsch-HARQ-ACK-CodebookList-r16 and pdsch-HARQ-ACK-Codebook-secondaryPUCCHgroup-r16 can be configured simultaneously. In this case, it is not clear how to determine the HARQ-ACK codebook type for the two HARQ-ACK codebooks for the secondary PUCCH group. If pdsch-HARQ-ACK-CodebookList-r16 is followed, HARQ-ACK codebook type for the secondary PUCCH group cannot be separately configured from the primary PUCCH group. Otherwise if pdsch-HARQ-ACK-Codebook-secondaryPUCCHgroup-r16 is followed, only one HARQ-ACK codebook can be configured for the secondary PUCCH group which is not aligned with the intention in URLLC.*

*RAN1 agreed to resolve the issue with the following solution:*

*•* ***The same RRC configuration pdsch-HARQ-ACK-CodebookList-r16 is applied to both primary PUCCH group and secondary PUCCH group if two PUCCH groups are configured.”***

*The two CRs represent two alternative ways of capturing the RAN1 agreement in TS 38.331. Companies are requested to indicate in the table below whether they prefer*

1. *the formulation in* [R2-2101076](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2101076.zip)
2. *the formulation in* [R2-2100095](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100095.zip)
3. *or none of the above*

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| Company | Agree 1 (R2-2101076), 2 (R2-2100095) or none. | Comments |
| Ericsson | 1 with change | In addition, the field description could also mention that *pdsch-HARQ-ACK-Codebook-secondaryPUCCHgroup* shall be ignored if *pdsch-HARQ-ACK-CodebookList* is present. |
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## 2.2 Fast MCG recovery

[R2-2100096](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100096.zip) Clarification on Fast MCG Link Recovery CATT CR Rel-16 36.331 16.3.0 4543 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100097](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100097.zip) Clarification on Fast MCG Link Recovery CATT CR Rel-16 38.331 16.3.1 2300 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The above two CRs cover changes in 36.331 and TS 38.331 respectively, related to agreements in RAN2#109 that in case of MCG failure during the execution of PSCell change or addition, the UE shall trigger RRC re-establishment procedure and not the MCG failure information. Since the changes proposed in both specs are the same, they can be discussed here together. Companies are requested to indicate in the table below whether they agree the CR or not and provide relevant comments.*

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| Company | Agree CRs? (yes or no) | Comments |
| Ericsson | No | The CRs are not needed, since during SCG addition, the UE does not yet have an SCG. It is there only once the procedure is concluded by the complete message. Thus, following current spec, legacy RRC re-establishment will be triggered.  Regarding first change: During PSCell addition, there is no SCG for the UE to report the MCG failure information. There is then also no T316, and it is then covered by the following line in 5.3.7.2:  1> upon detecting radio link failure and T316 is not configured, in accordance with 5.3.11; or  Regarding second change: It is not needed since during SCG addition there is not yet an SCG, thus UE will fail the following two checks and not execute MCG failure information procedure:  2> if the UE is configured with (NG)EN-DC; and  2> if T316 is configured; and  Regarding the third change: PSCell addition does not need to be mentioned, as in that case UE is not configured with split SRB nor SRB3. The only change that could be considered is to add “PSCell change is not ongoing”, but that can be covered in rapporteur CR. |
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[R2-2100438](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100438.zip) T316 handling when rlf-TimersAndConstantsMCG-Failure is received Samsung, ZTE Corporation, Sanechips CR Rel-16 36.331 16.3.0 4550 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The CR proposes to add procedural text in section 5.3.10.7 for the handling of received rlf-TimersAndConstantsMCG-Failure (i.e. t316). Companies are welcome to provide their input in the below table.*

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| Company | Agree CR? (yes or no) | Comments |
| Ericsson | Yes, with change | It seems this was indeed missing. There is a refence to 5.3.10.7 when receiving *rlf-TimersAndConstantsMCG-Failure* but there is no corresponding text in 5.3.10.7:  1> if the received *radioResourceConfigDedicated* includes the *rlf-TimersAndConstants* or the *rlf-TimersAndConstantsMCG-Failure*:  2> reconfigure the values of timers and constants as specified in 5.3.10.7;  But the CR cover page requires updates. There is no impact analysis. It mentions no functional change, but the CR adds procedural text. |
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## 2.3 Embedded RRC message handling

[R2-2100093](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100093.zip) Correction on the Handling of Reconfiguration within RRC Resume CATT CR Rel-16 38.331 16.3.1 2298 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100094](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2100094.zip) Correction on the Handling of Reconfiguration within RRC Resume CATT CR Rel-16 36.331 16.3.0 4542 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The above two CRs cover changes in 38.331 and TS 36.331 respectively, related to the handling of the SCG RRCReconfigurationComplete message for a RRCReconfiguration message received as part of a RRCResume or RRCConnectionResume message. Companies are welcome to provide their input in the below table.*

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| Company | Agree CRs? (yes or no) | Comments |
| Ericsson | No | Tend to agree that it would be cleaner not to have the description of where to send the complete message in the procedure part describing how to set the contents of the complete message. On the other hand, the proposed placing for handling the complete message may not work either, since it is under the EN-DC / NE-DC branch, and the UE may not be yet in EN-DC /NE-DC until the complete message has been submitted. Making changes in these parts now easily may cause some changes needed in other parts as well. It requires careful checking.  In summary, if nothing is erroneous or broken with the current text, we would prefer not to change at this late stage. |
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[R2-2101018](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2101018.zip) Correction on the submission of RRCReconfigurationComplete vivo CR Rel-16 38.331 16.3.1 2376 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The above CR covers changes in 38.331 related to the handling of the SCG RRCReconfigurationComplete message for a RRCReconfiguration message received via E-UTRA SRB1. Companies are welcome to provide their input in the below table.*

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| Company | Agree CR? (yes or no) | Comments |
| Ericsson | Yes | We agree UE may enter this also for the EUTRA resume case, so we are ok with deleting the proposed parts. As this is a minor change we can add it in rapporteur CR. |
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## 2.4 NR-DC power control

[R2-2101016](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2101016.zip) Correction on FR2 NR-DC power control parameter vivo CR Rel-16 38.331 16.3.1 2374 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101092](file:///C:\Users\terhentt\Documents\Tdocs\RAN2\RAN2_113-e\R2-2101092.zip) Correction on p-UE-FR2 and p-NR-FR2 for NR-DC power control Ericsson CR Rel-16 38.331 16.3.1 2386 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: The above CRs both address the* *RAN4 LS in* [*R4-2011721*](http://www.3gpp.org/ftp/tsg_ran/WG4_Radio//TSGR4_96_e/Docs//R4-2011721.zip)*, indicating that p-UE-FR2 will not be used in Rel-16. This was discussed during RAN2#112e and it was agreed not to dummify p-UE-FR2, but instead indicate in field description that it is not used in Rel-16. The exact formulation for the field description could however not be agreed and since there was also a question whether the same applies also to p-NR-FR2, it was decided to postpone the topic and send an LS back to RAN4 to ask whether the same applies also to p-NR-FR2. Once that reply is received, the field descriptions could then be updated to both fields at once.*

*The above CRs provide two alternative approaches for updating the required field descriptions. Both CRs include changes also to p-NR-FR2 fields. Rapporteur notes the following:*

1. *For the changes affecting p-NR-FR2 we need to await the RAN4 confirmation that p-NR-FR2 fields are also affected before agreeing the CRs.*
2. *There is also a dependency on the discussion on FR2 p-max in dedicated signalling that was held in offline [AT112-e][005]. As discussed during offline [AT112-e][225], when it comes to the formulation in the field description, we should use same formulation as is used there. In this meeting, p-max for FR2 dedicated signalling is handled in offline [AT113-e][004][NR15] Connection Control I (ZTE).*

*Companies are welcome to provide their input in the below table.*

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| Company | Agree 1 (R2-2101016), 2 (R2-2101092) or none. | Comments |
| Ericsson | Not yet | We need to await a) and b) above, i.e. the RAN4 LS and the discussion on FR2 p-max signalling for dedicated signalling. |
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## 2.5 Rapporteur CRs

[R2-2101088](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2101088.zip) Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 38.331 16.3.1 2385 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101089](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2101089.zip) Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 36.331 16.3.0 4568 - F LTE\_NR\_DC\_CA\_enh-Core

*Rapporteur comment: In the of the 1st week online Rel-16 DCCA session it was agreed to include also the rapporteur CRs into the scope of this email discussion. The CRs include minor corrections to TS 38.331 and TS36.331 respectively. Companies are welcome to provide their input in the below table.*

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| Company | Agree CRs? (yes or no) | Comments |
| Ericsson | Yes |  |
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# Conclusion

Tbd…

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