3GPP TSG-RAN WG2 Meeting #119e Tdoc R2-22xxxxx

Electronical meeting, August 17th – 29th, 2022

Agenda: 6.2.3

Source: Ericsson

Title: Summary of [AT119-e][223][DCCA] RRC corrections to CPAC (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

In this document the following offline is discussed:

* [AT119-e][223][DCCA] RRC corrections to CPAC (Ericsson)

      Scope: Discuss NR and LTE RRC corrections for CPAC marked for this discussion.

Intended outcome: Report in in [R2-2208760](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208760.zip). Merged NR RRC CR in [R2-2208761](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208761.zip) and LTE RRC CR in [R2-2208762](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208762.zip).

Deadline: Deadline 1 (report) / Deadline 2 (final CRs)

Contact information:

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| MediaTek | Felix Tsai, chun-fan.tsai at mediatek.com |
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# 2 Discussion

## 2.1 Rel-17 CPAC corrections to NR 38.331

The following CR addresses three changes for CPAC:

[R2-2207320](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207320.zip) Rel-17 CPAC corrections to NR 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.1.0 3246 - F LTE\_NR\_DC\_enh2-Core

1. Two subclauses are merged into a single one, to make the procedural text shorter in 5.3.5.3  
2. The text on the association between the condition and the configuration is removed in 5.5.3.1, as this was not formally agreed in RAN2.  
3. condRRCReconfig is modified to remove the sentence on the CPAC and SCell deactivation coexistence.

Rapporteur’s comment:

The first change seems relevant. Regarding the second change, the current text was agreed in RAN2#118, see agreement below. It is also not clear what the issue with current implementation is.

* Correct issue (not perform measurements for conditional events not used as execution condition) RIL E029. The TP in [R2-2206116](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_118-e/Docs/R2-2206116.zip) is used as baseline.

The third change is similar to CR in R2-2208695 in [AT119-e][221][DCCA] RRC corrections to SCG deactivation (Huawei). The field description of scg-State already captures this behaviour and the RRC CR for SCG deactivation proposes to remove this.

Question 1: Do you have any comments on R2-2207320?

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| --- | --- | --- |
| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon | Agree | About the conditional measurements:  A network implemented according to 38.331 v17.1.0 thinks that it is no problem for a Rel-16 UE to release conditional configurations but not release the corresponding conditional measurements, because the specification says the UE will not do the measurements in that case.  However, the UE is implemented according to Rel-16 38.331 that says the UE shall do the measurements, then it is a bit unclear what the Rel-16 UE will do, e.g. the UE could perhaps consider the configuration as invalid and do re-establishment. So in fact, 38.331 v17.1.0 has a risk of inter-operability issue with Rel-16 UEs.  About the third change: we agree because the same information is already in the field description of scg-State. |
| MediaTek | See comment | First Change in 5.5.3.1 (Disagree) – We think no need to merge two clauses. It is common style in RRC to have a new line after “else:”.  Second Change in 5.5.3.1 (unclear) – Not sure why this is needed. There is no description in coversheet on what problem to fix.  Third change 5.5.3.1 (unclear) – related to previous change on *condTriggerConfig*. The editor note could be removed if we do not have previous change.  Change in field description (Agree) – It is fine to remove this as already clear in the field description of scg-State. |
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Summary question 1:

TBD

## 2.2 On maximum number of SN initiated conditional reconfigurations

The following CR resolves the FFS related to maxNumberCPCCandidates:

[R2-2207639](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207639.zip) On maximum number of SN initiated conditional reconfigurations Lenovo, ZTE Corporation, Sanechips, CATT CR Rel-17 38.331 17.1.0 3300 - F LTE\_NR\_DC\_enh2-Core

1. Remove the Editor’s Note related to the working assumption.
2. Change the minimum value for *maxNumberCPCCandidates-r17* to be 0. Change the maximum value for *maxNumberCPCCandidates-r17* to be *maxNrofCondCells-1-r17* since the absence of this field indicates maximum number of *maxNrofCondCells-r16* conditional reconfigurations allowed at SN.
3. Add clarification on *maxNumberCPCCandidates-r17* in the field description regarding the absence of the field and the minimum value.

Rapporteur’s comment:

This is one possible option to resolve the FFS.

Question 2: Do you have any comments on R2-2207639?

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| --- | --- | --- |
| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon | Agree but | No impact analysis  Styles are not correct  English is not correct should be: 0 indicates that the SN is not allowed to configure SN initiated CPC. If the field is absent, the SN is allowed to configure up to *maxNrofCondCells-r16* conditional reconfigurations for SN-initiated CPC. |
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Summary question 2:

TBD

## 2.3 Outstanding issue for CPC

The discussion paper proposes resolution of the FFS related to maxNumberCPCCandidates.

[R2-2207728](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207728.zip) Outstanding issue for CPC Ericsson discussion Rel-16 LTE\_NR\_DC\_enh2-Core

**Proposal 1:** The source SN may propose up to eight candidates for the target SN to consider for CPC.

**Proposal 2:** Include the change of “ffsUpperLimit” to “8” in CandidateCellInfoListCPC in a correction CR for CPAC.

Rapporteur’s comment:

This is another option to resolve the same FFS as in 2.2.

Question 3: Do you have any comments on R2-2207728?

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| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon |  | It is very similar to the previous question, ok with the TP in the previous question with the indicated rewording. |
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Summary question 3:

TBD

## 2.4 RIL E022

A TP was proposed in e-mail discussion [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) to resolve RIL E022.

[R2-2208647](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208647.zip) [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

Question 3: Do you have any comments on the TP for RIL E022?

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| --- | --- | --- |
| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon | Agree | Although no change is also fine |
| MediaTek | Agree the TP |  |
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Summary question 4:

TBD

## 2.5 RIL E023

A TP was proposed in e-mail discussion [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) to resolve RIL E023.

[R2-2208647](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208647.zip) [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

Question 5: Do you have any comments on the TP for RIL E023?

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| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon | Agree | Although no change is also fine |
| MediaTek | Agree the TP |  |
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Summary question 5:

TBD

## 2.6 RIL V190

A TP was proposed in e-mail discussion [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) to resolve RIL V190.

[R2-2208647](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208647.zip) [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

Question 5: Do you have any comments on the TP for RIL V190?

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| --- | --- | --- |
| **Company** | **Agree/Not agree** | **Comments** |
| Huawei, HiSilicon | Agree | Although no change is also fine  If the previous is agreed, the additional modifications indicated by MediaTek in R2-2208647 should be included. |
| MediaTek | Agree the TP | With additional modification as we indicated in [R2-2208647](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208647.zip). |
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Summary question 6:

TBD

# 3 Summary

Based on the discussion in the previous sections the following is proposed:

[Proposal 1 TBD.](#_Toc103256338)

# 4 References

1. [R2-2207320](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207320.zip) Rel-17 CPAC corrections to NR 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.1.0 3246 - F LTE\_NR\_DC\_enh2-Core
2. [R2-2207639](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207639.zip) On maximum number of SN initiated conditional reconfigurations Lenovo, ZTE Corporation, Sanechips, CATT CR Rel-17 38.331 17.1.0 3300 - F LTE\_NR\_DC\_enh2-Core
3. [R2-2207728](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207728.zip) Outstanding issue for CPC Ericsson discussion Rel-16 LTE\_NR\_DC\_enh2-Core
4. [R2-2208647](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208647.zip) [Post118-e][227][DCCA] Resolving E022 and E023 for CPAC (Huawei) Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core