**3GPP TSG-RAN WG2 Meeting #111 electronic Draft R2-2008133**

**Elbonia, Aug 17th – 28th 2020**

**Agenda item:** 6.7.2

**Source:** Intel Corporation

**Title:** Summary of discussion [203] [MOB] CHO and CPC corrections (Intel)

**Document for:**  Discussion and decision

# Introduction

This is the summary of below offline discussion:

* **[AT111-e][203][MOB] CHO and CPC corrections (Intel)**

Scope:

* Collect companies’ feedback for the contributions under 6.7.2 and 6.7.3 marked for this email discussion
* Proponents may provide updated versions (if needed) under this email discussion (Tdoc numbers can be requested for this purpose from the session chair or the RAN2 secretary)

        Intended outcome:

* Discussion summary in [R2-2008133](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_111-e/Docs/R2-2008133.zip) (by email rapporteur).
* Email discussion report treated during the 2nd online session, but session chair may propose intermediate conclusions after summary is available

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

* Deadline for companies' feedback:  Thursday 2020-08-20 09:00 UTC
* Deadline for rapporteur's summary (in [R2-2008133](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_111-e/Docs/R2-2008133.zip)):  Friday 2020-08-21 09:00 UTC
* Deadline for CR finalization (for agreed CRs): Thursday 2020-08-27 07:00 UTC

# Discussion

## CRs under 6.7.2 for CHO

As indicated by chairman, following CRs are handled in this offline discussion for CHO;

R2-2006869 Correction to conditional configurations Google Inc. CR Rel-16 36.331 16.1.1 4359 - F LTE\_NR\_DC\_CA\_enh-Core

**Reason for change:**

It has been agreed that the UE stops evaluating conditions for CHO and CPC upon detecting MCG RLF. The agreement is missing.

**The real change:**

**5.6.26.2**

1> stop conditional reconfiguration evaluation for CHO, if configured;

1> stop conditional reconfiguration evaluation for CPC, if configured;

**[Rapp comments] The changes in the content are to align with NR, and should be correct. But some changes are needed on the coverpage;**

* **Affected clause shall be 5.6.26.2 instead of 5.6.26.1;**
* **WI code shall be “**LTE\_feMob-Core**” instead of** LTE\_NR\_DC\_CA\_enh-Core;

**Question 2.1-1: Do companies agree Rapporteur comments on R2-2006869? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007765 Correction on TS 36.331 for CHO Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4409 - F LTE\_feMob-Core

**[Rapp comments] Some changes are needed;**

**Below editorial changes are correct:**

* Editorial changes in 5.3.5.9.3; First part of change is partially overlapping with changes in R2-2007663. Would be good to handle it in R2-2007663.
* Editorial changes in 5.3.5.9.4;

**The intention for Changes in 6.3.5 is ok. But not aligned with LTE 331’s principle, i.e. we cannot add “CondReconfigurationTriggerEUTRA field descriptions”. The corresponding changes have to be added for each fields under “ReportConfigEUTRA field descriptions”;**

**Changes in 7.3.1:**

* **Changes on T304 is to align with NR; Ok**
* **Changes on T310 and T312 are not needed since CHO can be covered by “upon triggering the handover procedure”.**

**Question 2.1-2: Do companies agree Rapporteur comments on R2-2007765? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007764 Correction on TS 38.331 for CHO Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1898 - F NR\_Mob\_enh-Core

**[Rapp comments] All changes look correct;**

**Below editorial changes are correct:**

* Editorial changes in 5.3.5.13.1;
* Editorial changes in 6.3.2 on CondReconfigToAddModList and ReportConfigNR;

**Changes in 7.1.1 on T310 and T312 to add stop condition “upon conditional reconfiguration execution i.e. when applying a stored RRCReconfiguration message including reconfigurationWithSync for that cell group”; Looks correct.**

**Question 2.1-3: Do companies agree Rapporteur comments on R2-2007764? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007663 Correction to update of CHO configuration Samsung CR Rel-16 36.331 16.1.1 4396 - F LTE\_feMob-Core

**[Rapp comments] Changes are correct.**

**First change in 5.3.5.9.3 is overlapping with the changes in R2-2007765. Would be good to handle it in R2-2007663 since anyway R2-2007765 needs to be updated.**

**Question 2.1-4: Do companies agree Rapporteur comments on R2-2007763? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007664 Corrections to Mobility Enahncements Samsung CR Rel-16 38.331 16.1.0 1874 - F NR\_Mob\_enh-Core

**[Rapp comments] All changes are correct.**

**Question 2.1-5: Do companies agree Rapporteur comments on R2-2007764? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007705 Timer handling upon initiation of RRC re-establishment ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1886 - F NR\_Mob\_enh-Core

**[Rapp comments] The changes are correct and align with LTE specification.**

**Question 2.1-6: Do companies agree Rapporteur comments on R2-2007705? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007706 Timer handling upon initiation of RRC re-establishment ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4404 - F LTE\_feMob-Core

**[Rapp comments] The changes are correct and aligned with the procedure parts. But the some changes are needed for the coverpage:**

* **Specifciation version shall be 16.1.1;**

**Question 2.1-7: Do companies agree Rapporteur comments on R2-2007706? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007859 Correction on NR CHO OPPO CR Rel-16 38.331 16.1.0 1936 - F NR\_Mob\_enh-Core

**[Rapp comments] Correct editorial change;**

**Question 2.1-8: Do companies agree Rapporteur comments on R2-2007859? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007594 Correction of description of CHO events for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1868 - F NR\_Mob\_enh-Core

**[Rapp comments] Changes are correct to clarify NOTE The definition of Event A3/5 also applies to CondEvent A3/5.;**

**Question 2.1-9: Do companies agree Rapporteur comments on R2-2007594? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007018 Minor Correction for Mobility Further Enhancement CATT CR Rel-16 38.331 16.1.0 1771 - F NR\_Mob\_enh-Core

**[Rapp comments] Changes are correct;**

**Question 2.1-10: Do companies agree Rapporteur comments on R2-2007018? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007361 Corrections to Conditional Reconfiguration triggering Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1836 - F NR\_Mob\_enh-Core

**[Rapp comments] To clarify the procedure text; Nice to have.**

**Question 2.1-11: Do companies agree the changes in R2-2007361? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007502 Corrections to number of candidate cell in CHO Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1849 - F NR\_Mob\_enh-Core

**[Rapp comments] The intention is ok. But change is need:**

- maxNrofCondCells-r16-1 need to be defined;

**Question 2.1-12: Do companies agree the changes in R2-2007502? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007593 Correction of Need Code for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1867 - F NR\_Mob\_enh-Core

**[Rapp comments] Do not see the need for the change (The Need Code for condReconfigAdd is changed to S.)**

**It is related to the first change in R2-2007664. I assume the precondition for the first change in R2-2007664 is the configuration is based on delta signalling since the condition is Need M. And then we do not need to mention when to keep the configuration.**

**Question 2.1-13: Do companies agree the changes in R2-2007593? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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## CRs under 6.7.3 for CPC

As indicated by chairman, following CRs are handled in this offline discussion for CHO;

By Email [203]

Stage-3 corrections:

R2-2007592 Correction of field description for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1866 - F NR\_Mob\_enh-Core

**Reason for change:**

For CPC, conditional reconfiguration can also be part of the secondary cell group configuration, but that is currently not supported in the specification.

**The real change:**

***mrdc-SecondaryCellGroup***

Includes an RRC message for SCG configuration in NR-DC or NE-DC.
For NR-DC (nr-SCG), *mrdc-SecondaryCellGroup* contains the *RRCReconfiguration* message as generated (entirely) by SN gNB. In this version of the specification, the RRC message can only include fields *secondaryCellGroup, otherConfig, conditionalReconfiguration* and *measConfig*.

For NE-DC (eutra-SCG), *mrdc-SecondaryCellGroup* includes the E-UTRA *RRCConnectionReconfiguration* message as specified in TS 36.331 [10]. In this version of the specification, the E-UTRA RRC message can only include the field *scg-Configuration*.

**[Rapp comments] Looks correct.**

**Question 2.2-1: Do companies agree Rapporteur comments on R2-2007592? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007766 Correction on TS 38.331 for CPC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1899 - F NR\_Mob\_enh-Core

To capture below agreements:

**S1\_4. Upon RLF on PCell during the execution of Conditional PSCell change for intra-SN change without MN involvement, the UE supports the Rel-16 MR-DC procedures, i.e. performs connection re-establishment procedure without any fast MCG link recovery.**

**The real change:**

1. Change to 5.3.7.2: If radio link failure of MCG is detected when CPC execution is ongoing, then the UE should initiate RRC reestablishment procedure.
2. Change to 5.3.10.3: Fast MCG recovery can only be started when CPC execution is not going

**[Rapp comments] Not needed since upon CPC execution, the UE will also start T304, i.e. same as PSCell change. Therefore the S1\_4 should have been covered by PSCell change.**

**5.3.7.2**

1> upon detecting radio link failure of the MCG while PSCell change is ongoing, in accordance with 5.3.10; or

1> upon detecting radio link failure of the MCG while CPC execution is ongoing, in accordance with 5.3.10; or

**5.3.10.3**

5> if PSCell change is not ongoing (i.e. timer T304 for the NR PSCell is not running in case of NR-DC or timer T307 of the E-UTRA PSCell is not running as specified in TS 36.331 [10], clause 5.3.10.10, in NE-DC) and CPC execution is not ongoing:

**Question 2.2-2: Do companies agree Rapporteur comments onR2-2007766? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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R2-2007767 Correction on TS 36.331 for CPC Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4410 - F NR\_Mob\_enh-Core

**Reason for change:**

Same as R2-2007766.

**[Rapp comments] Not needed. Same comments as above, i.e. Upon CPC execution, the UE will also start T304, i.e. same as PSCell change. Therefore S1\_4 should have been covered by PSCell change.**

**In addition, if CR is agreebale, the coverpage shall be updated:**

* **WI code shall be “**LTE\_feMob-Core**” instead of** NR\_Mob\_enh-Core;

**Question 2.2-3: Do companies agree Rapporteur comments on R2-2007767? And if any additional correction is needed for this CR?**

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| **Company** | **Yes/No** | **Remark**  |
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# Summary

To be added: