3GPP TSG-RAN WG2 Meeting #112-e R2-2011095

Online, 2 – 13 November 2020

**Agenda item: 6.7.2**

**Source: Nokia (RAN2 Vice-chair )**

**Title: Summary of [AT112-e][216][MOB] Check CHO-related parts of R2-2010229 (RAN2 VC)**

**Document for: Discussion and Decision**

# 1 Brief scope of the contributions

This document contains the summary of email discussion [216] as per below:

* [AT112-e][216][MOB] Check CHO-related parts of [R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip) (RAN2 VC)

Scope:

* + - Check whether the CHO-related parts of [R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip) are agreeable.

 Intended outcome:

* + - Discussion summary in R2-2011095 (by email rapporteur).

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

* + - Initial deadline (for companies' feedback): 2nd week Thu, UTC 15:00
		- Initial deadline (for rapporteur's summary in R2-2011095): 2nd week Fri, UTC 05:00

By Email [216]

Editorials:

[R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip) Support of Rel-16 features for SCG in EN-DC and NR-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2192 - F NR\_IAB-Core, NR\_Mob\_enh-Core

Moved from 6.1.3 to 6.2.4, then Moved from 6.2.4 to here

* Main session requested to check the CHO-related parts
* Offline [216]

Hence, there is only one document to check in this discussion, and only the CHO-related parts in the document.

# 2 CHO-related parts of [R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip)

There are two changes aspects related to CHO in the CR [R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip):

1. When MR-DC is released, CPC commands are also released autonomously by UE (as part of the MR-DC context)
2. Clarifying that SCG CG information in CG-Config inter-node message can also contain the field *conditionalReconfiguration* (i.e. CPC command can be included in the SCG configuration to UE)

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| --- |
| 5.3.5.10 MR-DC releaseThe UE shall:1> as a result of MR-DC release triggered by E-UTRA or NR:2> release SRB3, if established, as specified in 5.3.5.6.2;2> release *measConfig* associated with SCG;2> if the UE is configured with NR SCG:3> release the SCG configuration as specified in clause 5.3.5.4;3> release *otherConfig* associated with the SCG;3> stop timers T346a, T346b, T346c, T346d and T346e associated with the SCG, if running;3> release *bap-Config* associated with the SCG, if configured;3> release *iab-IP-AddressConfigurationList* associated with the SCG, if configured;3> release *conditionalConfiguration* associated with the SCG, if configured; |

**Table 1: CHO-related change #1 in** [**R2-2010229**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip)

|  |
| --- |
| ***scg-CellGroupConfig***Contains the *RRCReconfiguration* message (containing only *secondaryCellGroup* and/or *measConfig* and/or *otherConfig* and/or *bap-Config* and/or *iab-IP-AddressConfigurationList* and/or *conditionalReconfiguration*):- to be sent to the UE, used upon SCG establishment or modification, as generated (entirely) by the (target) SgNB. In this case, the SN sets the *RRCReconfiguration* message in accordance with clause 6 e.g. regarding the "Need" or "Cond" statements. or- including the current SCG configuration of the UE, when provided in response to a query from MN, or in SN triggered SN change in order to enable delta signaling by the target SN. In this case, the SN sets the *RRCReconfiguration* message in accordance with clause 11.2.3.The field is absent if neither SCG (re)configuration nor SCG configuration query nor SN triggered SN change is performed, e.g. at inter-node capability/configuration coordination which does not result in SCG (re)configuration towards the UE. This field is not applicable in NE-DC. |

**Table 2: CHO-related change #2 in** [**R2-2010229**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip)

Company comments are invited to each in the table below.

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| --- | --- | --- |
| **Company** | **Is the change needed? (Yes/No)** | **Comments**  |
| Intel | **No** | The first change in 5.3.5.10 on release of CPC configuration is not needed since it has been covered by 5.3.5.4. 5.3.5.4 Secondary cell group releaseThe UE shall:1> as a result of SCG release triggered by E-UTRA (i.e. (NG)EN-DC case) or NR (i.e. NR-DC case):2> reset SCG MAC, if configured;2> for each RLC bearer that is part of the SCG configuration:3> perform RLC bearer release procedure as specified in 5.3.5.5.3;2> release the SCG configuration;2> if CPC was configured,3> remove all the entries within *VarConditionalReconfig*, if any;Last change on CPC has been covered by Google’s CR in the email discussion 211.  |
| OPPO | No | It seems to be already addressed by the step: 3> release the SCG configuration as specified in clause 5.3.5.4; |
| Samsung  | **No** | **Same view with Intel above.** |
| Sharp | **No** | This change is not needed since it has been covered by current spec in 5.3.5.4.  |
| ZTE | **No** | **Share the same view with Intel.** |
| CATT | **No** | **Share the same view with Intel** |
| LG | **No**  | We also don’t think this change is needed because, as mentioned by Intel, in the procedure of MR-DC release, the UE release SCG configuration and we think given conditional reconfiguration is also implicitly released. |
| Nokia, Nokia Shanghai Bell | **No** | First, there is no field *conditionalConfiguration* (the intent seems to be the field *conditionalReconfiguration*). Second, while the intent is correct but the following sentences already covers release of the CPC:3> release the SCG configuration as specified in clause 5.3.5.4;5.3.5.4 Secondary cell group releaseThe UE shall:1> as a result of SCG release triggered by E-UTRA (i.e. (NG)EN-DC case) or NR (i.e. NR-DC case):2> reset SCG MAC, if configured;2> for each RLC bearer that is part of the SCG configuration:3> perform RLC bearer release procedure as specified in 5.3.5.5.3;2> release the SCG configuration;2> if CPC was configured,3> remove all the entries within *VarConditionalReconfig*, if any; |

**Table 3. Comments to the change#1 in** [**R2-2010229**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip)

**Conclusions to change#1: No company supports the change as it's already included in the procedural text.**

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| --- | --- | --- |
| **Company** | **Is the change needed? (Yes/No)** | **Comments**  |
| OPPO | Yes |  |
| Samsung  | **No** | **Same view with Intel above.** |
| Sharp | No | Same view with Intel above. |
| ZTE | **No** | **Same view with Intel above.** |
| CATT | **No** | Same view with Intel above. |
| LG | **No** | Same view with Intel above. |
| Nokia, Nokia Shanghai Bell | **No** | This is only relevant for the case when CPC command is immediately configured during HO, PSCell addition or change. This has been excluded y Stage-2 37.340, subclause 10.6:*CPC configuration in HO command, PSCell change command or CPC configuration is not supported.* |
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**Table 3. Comments to the change#2 in** [**R2-2010229**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip)

**Conclusions to change#2: Almost all companies think the change is not needed/correct.**

# 3 Conclusions

**Conclusions:**

**Conclusions to change#1: No company supports the change as it's already included in the procedural text.**

**Conclusions to change#2: Almost all companies think the change is not needed/correct.**

**Proposal 1: The CR** [**R2-2010229**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip) **is not pursued.**

# 4 List of referenced documents

[1] [R2-2010229](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_112-e%5CR2-2010229.zip) Support of Rel-16 features for SCG in EN-DC and NR-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2192 - F NR\_IAB-Core, NR\_Mob\_enh-Core