3GPP TSG-RAN WG2 Meeting #118 Electronic R2-22XXXXX

Elbonia, 09 – 20 May 2022

**Agenda item: 5.1.4.1.1 Connection control**

**Source: Huawei (Rapporteur)**

**Title: Report of [AT118-e][017][NR1516] Connection Control II (Huawei)**

**WID/SID: NR Rel-15 and Rel-16**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report of the following email discussion:

* [AT118-e][017][NR1516] Connection Control II (Huawei)

 Scope: Treat R2-2204920, R2-2204921, R2-2206145, R2-2206146, R2-2204917, R2-2204918, R2-2204919, R2-2205251, R2-2205252, R2-2205617, R2-2205624

 Ph1 Determine agreeable parts, Ph2 for agreeable parts agree CRs (offline agreement, CB online only if necessary).

 Intended outcome: Report, Agreed CRs

 Deadline: Schedule 1

A **first round** with **Deadline for comments W1 Thursday May 12th 1200 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline W2 Wednesday May 18th 1200 UTC** to settle details / agree CRs etc.

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |  |
| --- | --- | --- |
| Company | Name | Email Address |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 3 Discussion

## 3.1 CHO related discussions

**CHO related papers**

[1] R2-2204920 Correction on the RRC reestablishment in CHO Huawei, HiSilicon CR Rel-16 38.331 16.8.0 3018 - F NR\_Mob\_enh-Core

[2] R2-2204921 Correction on the RRC reestablishment in CHO Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3019 - A NR\_Mob\_enh-Core

R2-2205850 CHO configuration with SCG release Qualcomm Incorporated CR Rel-16 38.331 16.8.0 3120 - F NR\_Mob\_enh-Core

=> Revised in R2-2206145

[3] R2-2206145 CHO configuration with SCG release Qualcomm Incorporated CR Rel-16 38.331 16.8.0 3120 1 F NR\_Mob\_enh-Core

R2-2205858 CHO configuration with SCG release Qualcomm Incorporated CR Rel-16 36.331 16.8.0 4809 - F LTE\_feMob-Core

=> Revised in R2-2206146

[4] R2-2206146 CHO configuration with SCG release Qualcomm Incorporated CR Rel-16 36.331 16.8.0 4809 1 F LTE\_feMob-Core

[1] and [2] are about corrections to CHO, and the reasons are as below:

* For CHO recovery, the UE can try CHO candidate cell and do the CHO handover if possible. The feature CHO recovery is only valid for CHO, but not CPC. However, the current spec only checks *conditionalReconfiguration* for CHO recovery, which covers both CHO and CPC cases.

In the CRs [1][2], for CHO recovery, it is clarified the UE only checks conditionalReconfiguration for CHO.

**Question 1: Do companies agree with [1] and [2]?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

[3] and [4] are about CHO configuration with SCG release. In R16, RAN3 agreed on the scenario where the SCG is released upon CHO execution, however the scenario does not seem to be supported. The CRs [3][4] are to introduce support for the scenario where a UE operating in MR-DC releases the SCG configuration upon CHO execution.

**Question 2: Do companies agree with [3] and [4]?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## 3.2 DAPS related discussions

**DAPS related papers**

[5] R2-2204917 Discussion on RLC re-establishment issue upon DAPS fallback Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[6] R2-2204918 Correction on UE behaviours for DAPS fallback\_Alt1 Huawei, HiSilicon CR Rel-16 38.331 16.8.0 3016 - F NR\_Mob\_enh-Core

[7] R2-2204919 Correction on UE behaviours for DAPS fallback\_Alt2 Huawei, HiSilicon CR Rel-16 38.331 16.8.0 3017 - F NR\_Mob\_enh-Core

[5] is about an issue during DAPS fallback procedure, and the contribution includes background, issues and some possible solutions. [6] and [7] are CRs for some solutions.

**Question 3: Do companies agree with the following observation in [5]?**

**Observation: It is hard for the source gNB to handle the SRBs (including RLC state) from when the DAPS HO command is sent to when failure information message is sent.**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Question 4: for Q3, if the issue is confirmed, which of solutions do you prefer? E.g. Alt 1, Alt 2, Alt 3 (in [5]), and others if any.**

|  |  |  |
| --- | --- | --- |
| Company | Preferred solution | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## 3.3 IAB related discussions

**IAB related papers**

[8] R2-2205251 Corrections on BAP entity release in MR DC release procedure in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.8.0 3060 - F NR\_IAB-Core

[9] R2-2205252 Corrections on BAP entity release in MR DC release procedure in TS 38.331 Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3061 - A NR\_IAB\_enh-Core

[10] R2-2205617 Correction to RRC reestablishment for IAB Google Inc. CR Rel-16 38.331 16.8.0 3104 - F NR\_IAB-Core

[11] R2-2205624 Correction to RRC reestablishment for IAB Google Inc. CR Rel-17 38.331 17.0.0 3105 - A NR\_IAB-Core

[8] and [9] are about an issue for IAB, and it is observed that the spec 38.331 does not clarify whether the IAB-MT releases the BAP entity even if the last and only configured bap-Config is released. The CRs [8][9] add the operation and the condition to release the BAP entity in IAB-MT’s MR DC release procedures

**Question 5: Do companies agree with [8] and [9]?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

[10] and [11] are about an issue for IAB, and the reasons are as below:

* If the IAB-MT is configured with the conditionalReconfiguration, the IAB-MT does not suspend BH RLC channels upon initiating the RRC reestablishment procedure. Upon initiating the RRC reestablishment procedure, the IAB-MT should suspend the BH RLC channels irrespective of whether the IAB-MT is configured with the conditionalReconfiguration.

In the CRs [10][11], it is clarified that if the IAB-MT is configured with the conditionalReconfiguration, the IAB-MT suspends BH RLC channels upon initiating the RRC reestablishment procedure.

**Question 6: Do companies agree with [10] and [11]?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 4 Conclusion

TBD.