3GPP TSG-RAN WG2 #115 electronic R2-210xxxx

Electronic Meeting, Aug 16th – 27th, 2021

Agenda Item: 5.4.3

Source: Ericsson

Title: Summary of offline 015 Rel-15 UE caps I

Document for: Discussion, Decision

# 1 Introduction

This contribution summarizes the following discussion:

* [AT115-e][015][NR15] UE Capabilties I (Ericsson)

 Scope: Determine agreeable parts in a first phase, for agreeable parts agree on CRs. Treat R2-2108379, R2-2108380, R2-2108381, R2-2108382, R2-2108581, R2-2108582, R2-2108583, R2-2108584, R2-2108676, R2-2108677, R2-2106909, R2-2107977, R2-2107978,

 Intended outcome: Report, agreed CRs if applicable

 Deadline: Schedule 1

Companies are invited to fill in contact details.

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| --- | --- |
| **Company** | **Contact details** |
| Huawei, HiSilicon | zhaoyang@huawei.com |
| Qualcomm Incorporated | mkitazoe@qti.qualcomm.com |
| Ericsson | lian.araujo@ericsson.com |
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# 2 Discussion

## 2.1 Part 1: Intended to determine agreeable parts

The CRs in [1][2][3][4] intend to clarify the fallback band combination definition to avoid misleading interpretations e.g. “The current wording suggests that the network should first configure a parent band combination and then deconfigure an SCell/UL SCell/SCG to end up with a fallback band combination” as stated in the coversheet.

**Q1 Do companies agree with the intention of the CRs above?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | No | We think the current text is OK except the SUL correction part, and the proposed changes are not necessary. |
| Qualcomm Incorporated | Yes |  |
| Ericsson | Yes (proponent) |  |
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The CRs in [5][6][7][8] intend to clarify that the UE should also support the band combination resulting from the release of SUL configuration, i.e. “the logic of fallback by releasing SCell or SCell uplink should also be applied to SUL case” as stated in the coverseet.

**Q2 Do companies agree with the intention of the CRs above?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes | Proponent |
| Qualcomm Incorporated | Yes | Should be merged with [1]-[4] |
| Ericsson |  | We agree that once releasing SUL the UE shall also support its remaining configuration, but we do not think this needs to be clarified in the specifications. We think in general by e.g. releasing a certaing the UE should support its remaining configuration anyway. |
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The CRs in [9][10] intend to clarify how the *CarrierAggregationVariant* capability is applicable to the fallback definition when configuring single CC or single mode CA, e.g. “if for a BC (FDD + TDD CA) *CarrierAggregationVariant* indicates pCell can only be placed on FDD cell, whether a TDD only single Cell/CA is considered as “Fallback band combination’ of the combination?” as stated in the coverseet. The CRs propose to clarify that *CarrierAggregationVariant* is applicable to any fallback band combination, including the case when configuring single CC or single mode CA.

**Q3 Do companies agree with the intention of the CRs above?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes | Proponent |
| Qualcomm Incorporated | No | Agree with the intention, but it is clear in [1]-[4] that the fallback is about not changing PCell. |
| Ericsson | No | We think *CarrierAggregationVariant* is only applicable to CA case as it is stated in the current field descriptions, so it should not be applicable to single CC case. |
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The CRs in [12][13] are related to the LS received from RAN1 [11] where it is confirmed that *multiDCI-MultiTRP* is applicable to the fallback definition. Hence, the CRs propose to correct the fallback definition for feature set per CC in a generic manner, which accounts for the *multiDCI-MultiTRP* capability (introduced in Rel-16) and *ModulationOrder* (introduced in Rel-15 and confirmed to be part of fallback definition in a previous LS R2-1810975).

**Q4 Do companies agree with the intention of the CRs above?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes |  |
| Qualcomm Incorporated | Yes |  |
| Ericsson | Yes (proponent) |  |
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## 2.2 Part 2: Intended to progress discussion on agreeable parts

- To be updated after discussion on part 1 -

# 3 Conclusion

- To be updated after discussion on part 1 -

# 4 References

1. R2-2108379 Resolving unclarity in fallback band combination definition, Ericsson, RAN2 #115-e, Aug 16th – 27th, 2021
2. R2-2108381 Resolving unclarity in fallback band combination definition, Ericsson, RAN2 #115-e, Aug 16th – 27th, 2021
3. R2-2108380 Resolving unclarity in fallback band combination definition, Ericsson, RAN2 #115-e, Aug 16th – 27th, 2021
4. R2-2108382 Resolving unclarity in fallback band combination definition, Ericsson, RAN2 #115-e, Aug 16th – 27th, 2021
5. R2-2108581 Correction on fallback band combination for SUL, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
6. R2-2108582 Correction on fallback band combination for SUL, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
7. R2-2108583 Correction on fallback band combination for SUL, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
8. R2-2108584 Correction on fallback band combination for SUL, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
9. R2-2108576 Clarifcation on BC fallback and spCellPlacement, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
10. R2-2108577 Clarifcation on BC fallback and spCellPlacement, Huawei, HiSilicon, RAN2 #115-e, Aug 16th – 27th, 2021
11. R2-2106909 Reply LS on fallback applicability for FeatureSetDownLinkPerCC capability fields (R1-2106133; contact: ZTE), RAN2 #115-e, Aug 16th – 27th, 2021
12. R2-2107977 Definition of fallback per CC feature set, Ericsson, ZTE Corporation, Sanechips, RAN2 #115-e, Aug 16th – 27th, 2021
13. R2-2107978 Definition of fallback per CC feature set, Ericsson, ZTE Corporation, Sanechips, RAN2 #115-e, Aug 16th – 27th, 2021