3GPP TSG-RAN WG2 #112 electronic R2-200xxxx

Electronic Meeting, Nov 2-13, 2020

Agenda Item: 5.4.3

Source: Ericsson

Title: Summary of offline 011 Rel-15 UE caps I

Document for: Discussion, Decision

# 1 Introduction

This contribution summarizes the following discussion:

* [AT112-e][011][NR15] UE caps I (Ericsson)

Treat R2-2010512, R2-2010513, R2-2010238, R2-2009630, R2-2010567, R2-2010568, R2-2010539, R2-2010538, R2-2010517 - R2-2010520, R2-2010084

 Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

 Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

# 2 Discussion

## 2.1 Part 1: Intended to determine agreeable parts

The proposals listed in this subsection 2.1 are merely extracted from discussion TDocs to facilitate the discussion and follow the numbering of the corresponding TDoc from which they were extracted (i.e. they do not represent actual proposals from this TDoc, which should be listed in subsection 2.2).

### 2.1.1 Band list for redirection and measurement configuration

In [1], the following proposals are made:

**Proposal 1: Ran2 to discuss whether the UE can report the single CC capability for the band that included in the*supportedBandListNR* but outside of the *frequencyBandListFilter.***

**Proposal 2: If the reporting on the Bands outside of the *frequencyBandListFilter* is not allowed by the legacy gNB, this optimization can be introduced from the Rel-16.**

**Q1 Do companies agree to introduce the functionalitly described in Proposal 1 above? If yes, please clarify if this should be introduced for both Rel-15 and Rel-16 or only for Rel-16 (Proposal 2). Companies are also invited to provide their views on the CRs related to this discussion, which are provided in [2] and [3]**

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| **Company** | **Yes/No** | **Comments** |
| Qualcomm Incorporated | No | This is non-backward compatible change, and we should stick to the current principle, i.e. the network should be including the NR SA bands in the UE capability filter. We should not change the behaviour for release-16 as well because the network does not even know the UE release at the time it puts together the UE capability filter. |
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If the proposals above cannot be agreed, [1] further discusses other ways forward, which seem to be in line with the proposals discussed in [4], hence the proposals in the latter TDoc are captured below:

**Proposal 1: The network can configure the band that included in *supportedBandListNR* (no matter if such band is included in the *supportedBandCombinationList* of the *RF-Parameters* and/or *RF-ParametersMRDC*) as a redirection target band.**

**Proposal 2: The network can configure the band that included in *supportedBandListNR* (no matter if such band is included in the *supportedBandCombinationList* of the *RF-Parameters* and/or *RF-ParametersMRDC*) as a measurement object.**

**Q2 Do companies agree with the Proposal 1 and 2 above? If yes: please clarify whether you agree with both proposals, only Proposal 1, or only Proposal 2. Companies are also invited to provide their views on the CRs related to this discussion, which are provided in [5] and [6].**

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| **Company** | **Yes/No** | **Comments** |
| Qualcomm Incorporated | P1: NoP2: Yes | P1: If a band is not included in supportedBandCombinationList of RF-Parameters and is included in supportedBandCombinationList of RF-ParametersMRDC , it means that the UE supports the NR band only in EN-DC setting. It is not clear what the network expects the UE to do when the UE is redirected to such band. We think the UE behaviour is unspecified in this case. |
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### 2.1.2 Feature sets and fallback concept

The CRs in [7],[8],[9] and [10] intend to remove the contradiction between 38.331 and 38.306 regarding Featurese Set per CC description by removing from 38.331 the description of the restrictions and rules for FSpUCC/FSpDCC and instead capturing these only in 38.306.

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

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| **Company** | **Yes/No** | **Comments** |
| Qualcomm Incorporated | Yes |  |
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The CRs in [11] and [12] intend to correct the definition of fallback per CC feature set, where there are parameters that are part of the fallback per CC feature set but are not captured in the current definition.

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

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| **Company** | **Yes/No** | **Comments** |
| Qualcomm Incorporated | Yes |  |
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### 2.1.3 Inter-node coordination

The discussion in [13] wants to confirm whether the UE capability coordination accounts for the behaviour captured in the proposal below:

**Proposal: RAN2 is requested to confirm that according to current standards MN can include a fallback BC not explicitly signalled within the UE MRDC capabilities (i.e. by setting bandCombinationIndex to a superset BC reported by the UE and by signalling value 0 for some bands indicated by allowedFeatureSetsList)**

**Q5 Do companies agree with the Proposal above?**

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| **Company** | **Yes/No** | **Comments** |
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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. [R2-2009630](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2009630.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2009630.zip) Further Consideration on the non-CA BC Capability Reporting, ZTE Corporation, Sanechips, RAN2 #112-e, 2-13 November 2020

1. [R2-2010567](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010567.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010567.zip) CR on the non-CA BC Capability Reporting, ZTE Corporation, Sanechips, RAN2 #112-e, 2-13 November 2020

1. [R2-2010568](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010568.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010568.zip) CR on the non-CA BC Capability Reporting, ZTE Corporation, Sanechips, RAN2 #112-e, 2-13 November 2020

1. [R2-2010238](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010238.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010238.zip) Discussion on band for redirection and measurement configuration Huawei, HiSilicon, Ericsson, RAN2 #112-e, 2-13 November 2020

1. [R2-2010512](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010512.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010512.zip) Clarified meaning of band combinations, Ericsson, Huawei, HiSilicon, RAN2 #112-e, 2-13 November 2020

1. [R2-2010513](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010513.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010513.zip) Clarified meaning of band combinations, Ericsson, Huawei, HiSilicon, RAN2 #112-e, 2-13 November 2020

1. [R2-2010517](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010517.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010517.zip) Removing contradiction on number of FSpUCC and FSpDCC, Ericsson, Nokia, Nokia Shanghai-Bell, RAN2 #112-e, 2-13 November 2020 NR\_newRAT-Core

1. [R2-2010518](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010518.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010518.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell, RAN2 #112-e, 2-13 November 2020

1. [R2-2010519](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010519.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010519.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell, RAN2 #112-e, 2-13 November 2020

1. [R2-2010520](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010520.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010520.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell, RAN2 #112-e, 2-13 November 2020

1. [R2-2010539](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010539.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010539.zip) Definition of fallback per CC feature set, Ericsson, RAN2 #112-e, 2-13 November 2020

1. [R2-2010538](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010538.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010538.zip) Definition of fallback per CC feature set, Ericsson, RAN2 #112-e, 2-13 November 2020

1. [R2-2010084](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_112-e%5C%5CDocs%5C%5CR2-2010084.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_112-eDocsR2-2010084.zip) Internode coordination for superset BCs reported by UE, Samsung Telecommunications, RAN2 #112-e, 2-13 November 2020