**3GPP TSG-RAN** **WG2 Meeting #112-e R2-200xxxx**

**Electronic, 2nd – 13rd November 2020**

**Agenda Item: 5.4.3**

**Source: Huawei, HiSilicon**

**Title: Summary of offline 013 Rel-15 UE caps III**

**Document for: Discussion and decision**

# Introduction

This document summarizes the following offline discussion for Rel-15 UE capability corrections.

* [AT112-e][013][NR15] UE caps III (Huawei)

Treat R2-2009480, R2-2008734, R2-2008770, R2-2008771, R2-2010241, R2-2010242, R2-2009392, R2-2009393, R2-2010239, R2-2010240, R2-2010545, R2-2010546, R2-2010561, R2-2010562

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

# Contact from companies

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| Company | Email |
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# Discussion

## Part 1 discussion: to achieve agreeable principle

Part 1 discussion is focusing on reaching conclusion whether the proposals/CRs can be agreed in principle, and Part 2 discussion would then focus on detailed changes for those agreeable contributions.

*Note: Regarding R2-2010561, R2-2010562, as it was already discussed on Monday GTW, the current discussion did not cover these two contributions.*

### 2.1.1 Clarification on the capability of supportedNumberTAG

Discussion is in [1]. The intention is to indicate the support of 2TAGs in a subset of the band combination,and the following 2 options are proposed:

* **Option 1:** UE is required to support the different TAGs in the different bands if the TAG number < band entry number;
* **Option 2:** Introduce the association between the TAG and the band entries, e.g. via the cell grouping;

**Proposal 1: Adopt Option 1 or Option 2 for the *supportedNumberTAG*** **capability** **indication in the mix intra/inter-band BC.**

**Q1-1 Do companies agree with P1?**

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| **Company** | **Yes/No** | **Comments** |
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**Q1-2 If companies agree with P1, which option is preferred and which release is expected to start the changes?**

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| **Company** | **Option 1/2** | **Release** | **Comments** |
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### 2.1.2 Clarification on RAN4 features of NE-DC

The corresponding LS and CRs are in [2]-[6]. The main intention is to clarify the applicability of some features for NE-DC. The two sets of the CRs are quite similar and the major differences are whether to also have changes for some MR-DC parameters. So it could be discussed first and then decide which set of CRs is used as the baseline.

**Q2-1 Do companies agree *syncIntraBandENDC*, *intraBandENDC-Support* and *UL-TimingAlignmentEUTRA-NR* are applied to NE-DC as proposed in [3][4]?**

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| **Company** | **Yes/No** | **Comments** |
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**Q2-2 Do companies agree with other changes for BandCombinationList and CA-ParametersEUTRA listed in [3][4][5][6]?**

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| **Company** | **Yes/No** | **Comments** |
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**Q2-3 Please indicate which release to start adopting the changes if companies support in general to have the above changes?**

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| **Company** | **Release** | **Comments** |
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### 2.1.3 Correction on PDCP duplication capability for NR-DC

The CRs are in [7][8], and the intention is to add duplication related capabilities specifically for NR-DC.

**Q3 Do companies agree with the major principle of the CRs? If yes, please indicate the starting release for the changes.**

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| **Company** | **Yes/No** | **Release** | **Comments** |
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### 2.1.4 Clarification on handover capability

The CRs are in [9][10], and the main intention is to clarify how to interpret the FDD/TDD and FR1/FR2 differentiation.

**Q4 Do companies agree with the major principle of the CRs? If yes, please indicate the starting release for the changes.**

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| **Company** | **Yes/No** | **Release** | **Comments** |
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### 2.1.5 Clarification on xDD differentiation

The CRs are in [11][12]. The main intention is to clarify how FDD/TDD differentiation applies to rsrqMeasWidebandEUTRA.

**Q5 Do companies agree with the major principle of the CRs? If yes, please indicate the starting release for the changes.**

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## Part 1 discussion summary

## Part 2 discussion: TBD

To be updated after Phase I discussion

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# Reference

1. [R2-2009480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009480.zip) Clarification on the capability of supportedNumberTAG Apple
2. [R2-2008734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008734.zip) Reply LS on Clarification on RAN4 features of NE-DC (R4-2011688; contact: Samsung)
3. [R2-2008770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008770.zip) Correction for RAN4 features of NE-DC OPPO, Qualcomm Incorporated CR
4. [R2-2008771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008771.zip) Correction for RAN4 features of NE-DC OPPO, Qualcomm Incorporated CR
5. [R2-2010241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010241.zip) Clarification on NE-DC for bandwidth combination set Huawei, HiSilicon, Samsung
6. [R2-2010242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010242.zip) Clarification on NE-DC for bandwidth combination set Huawei, HiSilicon, Samsung
7. [R2-2009392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009392.zip) Corrections on PDCP duplication capability for NR-DC Huawei, HiSilicon
8. [R2-2009393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009393.zip) Corrections on PDCP duplication capability for NR-DC Huawei, HiSilicon
9. [R2-2010239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010239.zip) Clarification on the inter-frequency handover capability Huawei, HiSilicon, Ericsson
10. [R2-2010240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010240.zip) Clarification on the inter-frequency handover capability Huawei, HiSilicon, Ericsson
11. [R2-2010545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010545.zip) Clarification on UE capabilities with FDD/TDD differentiation Ericsson, ZTE Corporation, Sanechips
12. [R2-2010546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010546.zip) Clarification on UE capabilities with FDD/TDD differentiation Ericsson, ZTE Corporation, Sanechips