**3GPP TSG-RAN WG2 #117-e meeting R2-220xxxx**

**Electronic meeting, 21st February – 3rd March 2022**

**Agenda item: 8.24.0**

**Source: Xiaomi (Rapporteur)**

**Title: Report of [AT117-e][052][NR17] IPA CRs (Xiaomi)**

**Document for: Discussion and Decision**

# 1 Introduction

This document summarizes the following email discussion:

* [AT117-e][052][NR17] IPA CRs (Xiaomi)

 Scope: Treat R2-2202765, R2-2202766, R2-2203714, R2-2203715, R2-2203123, R2-2203124, R2-2202151, R2-2203138, R2-2203139, R2-2203322, R2-2203323. Check the CRs (incl cover sheet) determine revisions if needed. Agree CRs (submitted or revisions).

 Intended outcome: Report, Agreed CRs, Endorsed UE cap CRs (or draft CRs) (38306, 38331) for Merge.

 Deadline: Schedule 1

Discussions with Deadline **Schedule 1**:

A **first round** with **Deadline for comments W1 Thur Feb 24th 1200 UTC** to settle scope what is agreeable etc.

A Final round with **Final deadline W2 Wed March 2nd 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 |
| Xiaomi (Rapporteur) | Yumin Wu | wuyumin@xiaomi.com |
| Lenovo | Hyung-Nam Choi | hchoi5@lenovo.com |
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# 3 Discussion of the first round

## 3.1 In-Principle Agreed CRs

The CRs already agreed in-principle at the last meeting are:

NR FR2 FWA Bn257 Bn258

R2-2202765 Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei, HiSilicon, Nokia CR Rel-17 38.306 16.7.0 0687 - C NR\_FR2\_FWA\_Bn257\_Bn258-Core

R2-2202766 Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei, HiSilicon, Nokia CR Rel-17 38.331 16.7.0 2905 - C NR\_FR2\_FWA\_Bn257\_Bn258-Core

NR RF FR1 enh - Max MIMO layers for SUL

R2-2203714 Draft CR: Remove the maximum number of MIMO layers configuration restrictions for SUL CMCC, Huawei, HiSilicon, CATT CR Rel-17 38.306 16.7.0 0532 1 C NR\_RF\_FR1\_enh

Chair comment: the title should not use the wording Draft CR.

R2-2203715 Remove the maximum number of MIMO layers configuration restrictions for SUL CMCC, Huawei, HiSilicon, CATT CR Rel-17 38.331 16.7.0 2465 1 C NR\_RF\_FR1\_enh

BCS4 BCS5

R2-2203123 Introduction of BCS4 and BCS5 Xiaomi Communications CR Rel-17 38.331 16.7.0 2871 2 B NR\_BCS4-Core R2-2201834

R2-2203124 Introduction of BCS4 and BCS5 Xiaomi Communications CR Rel-17 38.306 16.7.0 0669 2 B NR\_BCS4-Core R2-2201835

R2-2202151 Reply LS on NR CA capability for BCS5 (R4-2201295; contact: Xiaomi) RAN4 LS in Rel-17 To:RAN2

Chair Comment: I assume that this LS doesn’t imply any change to the CRs. Suggest Noted.

NR SAR PC2 Inter-band CA and SUL

R2-2203138 CR to TS 38.306 on UE capability for UE power class 2 NR inter-band CA and SUL configurations China Telecom, Huawei, HiSilicon CR Rel-17 38.306 16.7.0 0651 2 B NR\_SAR\_PC2\_interB\_SUL\_2BUL R2-2111499

R2-2203139 CR to TS 38.331 on UE capability for UE power class 2 NR inter-band CA and SUL configurations China Telecom, Huawei, HiSilicon CR Rel-17 38.331 16.7.0 2829 1 B NR\_SAR\_PC2\_interB\_SUL\_2BUL R2-2110426

DL 1024QAM

Chair Comment: the 38331 CR was previously endorsed/agreed-in-principle, the 38300 CR is new, they should be treated together

R2-2203322 Introduction of DL 1024QAM for NR Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 16.7.0 2940 - B NR\_DL1024QAM\_FR1-Core

R2-2203323 Introduction of DL 1024QAM for NR Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.8.0 0420 - B NR\_DL1024QAM\_FR1-Core

**Question 1: Does any of these CRs require some updates?**

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| Answers to Question 1 |
| Company | Yes/No | Which CR and what changes |
| Lenovo | Yes | **NR FR2 FWA Bn257 Bn258, 38.331 CR in R2-2202766:*** In Table C-1 CR# and rev# need to be added.

**NR RF FR1 enh - Max MIMO layers for SUL:*** 38.306 CR in R2-2203714:
	+ Cover page: remove “Draft CR:” from the title; add “R2” in “Source to TSG”; in “Other specs affected” add “TS 38.331 CR2465”.
* 38.331 CR in R2-2203715:
	+ Cover page: remove “Draft CR:” from the title; add “R2” in “Source to TSG”; in “Other specs affected” add “TS 38.306 CR0532”.

**BCS4 BCS5:*** 38.331 CR in R2-2203123:
	+ Cover page: wrong spec version "16.6.0"; in “Other specs affected” the CR# for the 38.306 CR is missing.
	+ In Table C-1: CR# needs to be added and rev# needs to be corrected.
* 38.306 CR in R2-2203124:
	+ Cover page: wrong spec version "16.6.0"; in “Other specs affected” the CR# for the 38.331 CR is missing.

**NR SAR PC2 Inter-band CA and SUL, for both R2-2203138 and R2-2203139:*** Cover page: "Source to TSG" should say "R2"; Impact analysis is not needed.

**DL 1024QAM, 38.331 CR in R2-2203322:*** Cover page: the statement in “Other comments” saying: “Please note that capabilities aspects have been left out from this CR and will be addressed only once the capabilites are discussed in RAN1 and RAN4.” Can be removed. Reason: The capability pdsch-1024QAM-FR1-r17 has been already added in the mega capability CRs.
* cqi-Table: the suffix of new value “table4-r17” should be “-v17xy”.
* Description of mcs-Table: word “fields” should be in singular “field”.
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**Summary 1**: TBD.

**Proposal 1**: TBD.

# 4 Discussion of the final round

TBD.

# 5 Conclusion

TBD.