**3GPP TSG RAN WG1 Meeting #110 R1-22xxxxx**

**Toulouse, France, August 22 - 26, 2022**

**Agenda Item: 7.2.11**

**Source: Moderator (Huawei)**

**Title: Feature lead summary on LS on eMIMO features defined in different granularity with prerequisite**

**Document for: Discussion and Decision**

# Introduction

This document provides the proposals and summary of discussions on RAN2 LS on eMIMO features defined in different granularity with prerequisite [1] based on the inputs [2-7].

# Discussion

## Issue 1: Response to RAN2 understanding

In [1], RAN2 noticed some eMIMO UE features defined in different granularity with their prerequisite(s) as below:

For example, FG 16-2a-0(per band level), FG 16-2a-4(perUE level) and FG 16-2a-10(perBC level) have prerequisite of FG 16-2a (per FSPC level). FG 16-2b-1a/16-2b-1b (per band level) have prerequisite of FG 16-2b-1(perFS level).

For these UE features, RAN2 has following understanding:

RAN2 understands for the features with prerequisite in a finer granularity, UE shall indicate support of the prerequisite for at least one band/component carrier in at least one band combination.

All inputs [2-7] have the same understanding with RAN2, therefore the following draft response is proposed:

RAN1 confirms that for the features with prerequisite in a finer granularity, UE shall indicate support of the prerequisite for at least one band/component carrier in at least one band combination.

Please input your comments on the draft response to RAN2 understanding.

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| Companies | Comments |
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## Issue 2: Comments to RAN2 CRs

In the LS [1], two RAN2 CRs are also attached as R2-2205560 and R2-2205561. Please input your comments to these two CRs if any.

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## Issue 3: on the applicable range of UE feature

As commented online, the applicable range of such UE features may need to be discussed as well. For example, a per band UE feature X has a prerequisite UE feature Y, which is of per CC reporting type. Then if UE reports UE feature X for a band and UE feature Y for a CC in the band.

Please input your view whether this issue should be discussed and also the applicable range of UE feature X and the prerequisite UE feature Y:

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# Draft LS

To be updated

# References

1. R1-2205731 LS on eMIMO features defined in different granularity with prerequisite RAN2, HiSilicon
2. R1-2205805 Draft reply LS on eMIMO features defined in different granularity with prerequisite Huawei, HiSilicon
3. R1-2205925 Draft reply LS on eMIMO features defined in different granularity with prerequisite ZTE
4. R1-2206186 Draft reply LS on eMIMO features defined in different granularity with prerequisite Google
5. R1-2206216 Draft reply LS on eMIMO features defined in different granularity with prerequisite Lenovo
6. R1-2206706 Draft reply LS on eMIMO features defined in different granularity with prerequisite vivo
7. R1-2206778 Draft Reply LS on eMIMO features defined in different granularity with prerequisite Samsung