3GPP TSG-RAN WG2 #118 R2-220xxxx

eMeeting, 09th May – 20th May, 2022

Agenda Item: 6.24.1

Source: Apple

**Title: Summary of [AT118-e][041][NR17] FR2 UL gap (Apple)**

Document for: Discussion and decision

# 1 Introduction

This is the summary of the following email discussion.

* [AT118-e][041][NR17] FR2 UL gap (Apple)

Scope: Treat R2-2205666, R2-2204507, R2-2205659, R2-2205667, R2-2205392

Ph1 Determine agreeable parts, Ph2 agree CRs

Intended outcome: Report, Agreed CRs

Deadline: Schedule 1

# 2 Discussion

## 2.1 On RAN4 LS in R2-2204507

Rapporteur thinks this LS can be just noted as RAN4 has no questions to RAN2.

**Question 1: Do companies agree to note the RAN4 LS R2-2204507?**

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| **Company** | **Yes / No** | **Comments** |
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## 2.2 RIL(s) and Class 0 issues (R2-2205666, R2-2205667)

The conclusion from R2-2205666 is on FR2 UL gap RIL(s) and Class 0 issues is copied below:

**Proposal 1: Agree the following RIL(s) and Class 0 issues and reflect them in rapporteur CR.**

**- RIL: Z151, Z152, A803, A804, A807, A808**

**- Class 0 issues: 155, 156, 193, 425**

**Question 2: Do companies agree the proposal 1 in [1]?**

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| **Company** | **Yes / No** | **Comments** |
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**Question 3: Do companies have comments on the CR R2-2205667 to address the RIL(s) and Class 0 issues?**

It is also fine to add the comments into the CR.

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| **Company** | **Comments** |
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## 2.3 MAC CR in R2-2205659

The reason for change is copied below:

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| RAN4 agreed with the following UE behavior in FR2 UL gap in R4-2206511.  *During UL gaps, except for the signals used for random access procedure according to TS 38.321, CG-PUSCH (type 1 and 2) and PUCCH allocations for SR and LRR [and for the signals used for other RAN4 agreed procedures], UE is not required to conduct transmission to the corresponding NR serving cells in FR2 single CC, intra-band CA. For inter-band FR2-FR2 CA/DC, UE may or may not be required to conduct transmission to the corresponding NR serving cells based on UE capability whether UL transmission within a gap is feasible.*  Note that CR 1191 (R2-2204231) already captured that RACH procedure is prioritized during FR2 UL gap. |

The summary of change:

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| Capture that during FR2 UL gap, if UE does not support UL Tx transmission, UE should not perform certain actions. CG-PUSCH, PUCCH for SR and LRR are the exceptions. |

**Question 4: Do companies have comments on R2-2205659?**

**It is also fine to add comments to the CR.**

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| **Company** | **Comments on the change** |
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## 2.4 Discussions on release of UAI preference in R2-2205392

The discussion in R2-2205392 is not limited to FR2 UL gap, but a rather generic one on UAI message.

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| **Observation 1:** There is some ambiguity with the release of FR2 UL gap preference indication in the UAI.  **Observation 2:** The issue with the release of UAI preference indications exist for several UAI fields.  And proposed the following:  **Proposal 1:** Add NOTE to 5.7.4.3 indicating the following: "When UE includes an indication that requires not including certain fields, UE is still required to include the parent field to ensure network comprehends the message as requesting release of a previously indicated configuration." |

**Question 5: Do companies agree with Proposal 1 in R2-2205392 to add a note.**

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| **Company** | **Yes / No** | **Comments on the Note in Proposal 1** |
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# 3 Conclusions

**[TBA]**

# 4 References

[1] R2-2204507 LS to RAN2 on UL gap in FR2 RF enhancement (R4-2206608; contact: Apple) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2 Cc:RAN1

[2] R2-2205666 Summary of [Pre118-e][004][NR17 FR2 UL Gap] 38331 CR and rapporteur resolutions (Apple) Apple discussion Rel-17 NR\_RF\_FR2\_req\_enh2 Late

[3] R2-2205659 Correction on FR2 UL gap Apple CR Rel-17 38.321 17.0.0 1279 - F NR\_RF\_FR2\_req\_enh2

[4] R2-2205667 Addressing FR2 UL gap RILs [Z151, Z152, A803, A804, A807, A808] Apple CR Rel-17 38.331 17.0.0 3110 - F NR\_RF\_FR2\_req\_enh2 Late

[5] R2-2205392 [N129] Corrections to FR2 UL gaps Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core Late

Chair: General?