**3GPP TSG-RAN WG2 Meeting #125bisR2-24xxxxx**

**Changsha, China, 15th – 19th April 2024**

Agenda Item: 7.2.1

Source: Ericsson

Title: [Post125bis][408][POS] Rel-18 positioning RRC CR (Ericsson)

Document for: Discussion, Decision

# Introduction

This is to kick off the email discussion.

* [Post125bis][408][POS] Rel-18 positioning RRC CR (Ericsson)

Scope: Update and check the Rel-18 positioning CR to 38.331.

Intended outcome: Endorsed CR in R2-2403819

Deadline: Short

# 2 RIL O800

RIL O800 raises the question: *Have we made agreement that sl-RxPool and/or sl-PRS-RxPool should be only included in handover message but not other RRC dedicated message?*

The description for SL Positioning mimics the SL Communication description:

Below is what is captured for SL Communication:

### 5.8.7 Sidelink communication reception

A UE capable of NR sidelink communication that is configured by upper layers to receive NR sidelink communication shall:

1> if the conditions for NR sidelink communication operation as defined in 5.8.2 are met:

2> if the frequency used for NR sidelink communication is included in *sl-FreqInfoToAddModList*/*sl-FreqInfoToAddModListExt* in *RRCReconfiguration* message or *sl-FreqInfoList*/*sl-FreqInfoListSizeExt* included in *SIB12*:

3> if the UE is configured with *sl-RxPool* included in *RRCReconfiguration* message with *reconfigurationWithSync* (i.e. handover):

And for SL Positioning

#### 5.8.18.2 NR sidelink positioning measurement

A UE capable of NR sidelink positioning that is configured by upper layers for performingSL-PRS measurement:

1> if the conditions for NR sidelink positioning operation as defined in 5.8.2 are met:

2> if the frequency used for NR sidelink positioning is included in *sl-FreqInfoToAddModList* in *RRCReconfiguration* message or *sl-FreqInfoList* included in *SIB12* or *SIB23*:

3> if the UE is configured with *sl-RxPool* and/or *sl-PRS-RxPool* included in *RRCReconfiguration* message with *reconfigurationWithSync* (i.e. handover):

Companies are requested to provide their view on O800. If the current implementation is fine or if any change is needed and if yes what are the suggested changes:

Please provide your opinion/comments on the O800.

Option 1: Current CR is fine, no change needed.

Option 2: There may be other message that may be impacted, or the current changes are not correct.

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| Company Name | Option 1/2 | Comments |
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# 3 Discussion

## 3.1 LPHAP

Please provide your comments on the LPHAP changes

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| Company Name | Comments |
| Samsung | For the RIL implementation of [S208], the following yellow part should be removed in 5.3.13.6 (for cell re-selection part). The UE should apply the preconfiguration when it receives RRCRelease message.  3> if the selected cell and previously camped cell are in the different *srs-PosConfigValidityArea*;  4> initiate RRC connection resume procedure in 5.3.13.2;  4> apply the SRS configuration *srs-PosConfigValidityArea* corresponding to the validity area of the selected cell and instruct lower layers to initiate SRS transmission. |
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## 3.2 Sidelink

Please provide your comments on Sidelink changes.

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| Company Name | Comments |
| Samsung | For the sl-PRS-Bandwidth-r18 in UAI, at least mhz200 & mhz400 can be added as candidates values for ENUMERATED type field based on the feature 41-1-1 in the RAN1 UE features list (R1-2312572). |
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## 3.3 Bandwidth Aggregation

Please provide your comments on the bandwidth aggregation changes.

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| Company Name | Comments |
| Samsung | In SRS-PosResourceSetLinkedForAggBW, we can reuse the existing IE (i.e., ServingCellAndBWP-ID-r17) instead of having two separate fields for BWP ID and serving cell Index as in the TP below.  connectedMode-r18 SEQUENCE {  servingCellAndBWP-r18 ServingCellAndBWP-ID-r17,  ...  }, |
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## 3.4 REDCAP CR

Please provide your comments on the RedCap changes

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## 3.5 Any other comments

Please provide any other comments below.

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| Company Name | Comments |
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# Conclusion

In the previous sections we made the following observations:

Based on the discussion in the previous sections we propose the following:

# References