**3GPP TSG-RAN WG2 Meeting #126R2-24xxxxx**

**Fukuoka, Japan, 20th – 24th May 2024**

Agenda Item: 7.2.1

Source: Ericsson

Title: [Post126][407][POS] Rel-18 positioning RRC CR (Ericsson)

Document for: Discussion, Decision

# Introduction

This is to kick off the email discussion.

* [Post126][407][POS] Rel-18 positioning RRC CR (Ericsson)

 Scope: Update the CR in R2-2405257 in line with decisions of this meeting, including implementation of constraints on configuration of SL-PRS carrier in SIB23/preconfiguration. Late-arriving parameter updates from RAN1 can be taken into account if possible.

 Intended outcome: Agreed CR in R2-2405884

 Deadline: Short (for RP)

# 2 Discussion

## 2.1 LPHAP

Please provide your comments on the LPHAP changes

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| Company Name | Comments  |
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## 2.2 Sidelink

Please provide your comments on Sidelink changes.

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| Company Name | Comments  |
| ZTE | SIB23:

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| ***sl-PosFreqInfoList***This field indicates the NR sidelink positioning carrier frequencies for SL-PRS transmission and reception. In this release, only one entry of *sl-PosFreqInfoList* is configured with *sl-BWP-PRS-PoolConfig*. |

If only one entry of *sl-PosFreqInfoList* can be associated with dedicated pool BWP, then why the SIB23 has to contain multiple entries(a list) of *sl-PosFreqInfoList*? SIB23 is to indicate frequency of dedicate pool, so we think the following should be adopted:

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| ***sl-PosFreqInfoList***This field indicates the NR sidelink positioning carrier frequencies for SL-PRS transmission and reception. In this release, only one entry of SL-FreqConfigCommon is contained in sl-PosFreqInfoList-r18. |

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## 2.3 Bandwidth Aggregation

Please provide your comments on the bandwidth aggregation changes.

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| Company Name | Comments  |
| ZTE | SRS-PosResourceSetLinkedForAggBWList-r18 ::= SEQUENCE (SIZE(1..maxNrOfLinkedSRS-PosResourceSet-r18)) OF SRS-PosResourceSetLinkedForAggBW-r18The yellow part should be 2, since when the list only contains one entry of SRS-PosResourceSetLinkedForAggBW-r18, there is only one SRS resource set configured. But an aggregation requires at least 2 entries, i.e., two aggregated SRS resource sets. |
| ZTE |  SRS-InactivePosResourceSetLinkedForAggBWList-r18 ::= SEQUENCE (SIZE (1..maxNrOfLinkedSRS-PosResourceSet-r18)) OF SRS-PosResourceSetLinkedForAggBW-r18If here in RRC INACTIVE, the yellow part is changed to 3, then the one of the configured aggregated carriers in this Rel-18 IE should compulsively contain the Rel-17 configured carrier (i.e., configured in SRS-PosRRC-InactiveConfig-r17).It is not a good design from configuration/signaling perspective. So we suggest to change the yellow IE to be 2 |
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## 2.4 REDCAP

Please provide your comments on the RedCap changes

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| Company Name | Comments  |
| ZTE | SRS-PosTx-Hopping-r18 ::= SEQUENCE { srs-PosConfig-r18 SRS-PosConfig-r17, bwp-r18 BWP OPTIONAL, -- Need R inactivePosSRS-TimeAlignmentTimer-r18 TimeAlignmentTimer OPTIONAL, -- Need M inactivePosSRS-RSRP-ChangeThreshold-r18 RSRP-ChangeThreshold-r17 OPTIONAL, -- Need M srs-PosUplinkTransmissionWindowConfig-r18 SetupRelease { SRS-PosUplinkTransmissionWindowConfig-r18 } OPTIONAL, -- Need M ...}Why the inactivePosSRS-TimeAlignmentTimer and inactivePosSRS-RSRP-ChangeThreshold are configured in hopping configuration?? |
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## 2.5 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