**3GPP TSG-RAN WG2 Meeting #126 R2-240**

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

**Agenda item:**

**Source: Huawei, HiSilicon**

**Title: Summary for [Post126][411][POS] Rel-18 positioning MAC CR (Huawei)**

**Document for: Discussion and Decision**

# Introduction

After RAN2#126, the following email discussion has been organized for reviewing the MAC CR after RAN2#126.

* [Post126][411][POS] Rel-18 positioning MAC CR (Huawei)

Scope: Update the CR in R2-2404762 in line with decisions of this meeting.

Intended outcome: Agreed CR in R2-2405888

Deadline: Short (for RP)

In this email discussion, we discuss on the issues have been presented in these papers

# Discussion

***Companies are invited to feedback the issues in the current draft CR under the following table***

|  |  |  |
| --- | --- | --- |
| Companies | Issue in the draft CR | Comments |
| ZTE | 6.1.3.xx  - Positioning SRS Aggregation ID: This field indicates one of the combinations of linked *srs-PosResourceSet* corresponding to *srs-PosResourceSetLinkedForAggBWList* specified in TS 38.331 [5]. Value 0 corresponds to the first entry within the list *srs-PosResourceSetLinkedForAggBWList*; value 1 corresponds to the second entry within the list *srs-PosResourceSetLinkedForAggBWList* and so on; | The yellow IE should be replaced by ‘SRS-PosResourceSetAggBWCombinationList and SRS-PosRRC-AggBW-InactiveConfigList’, since these two IEs are 32 combinations and 16 combinations, respectively |
|  | 6.1.3.xx  - C1, C2, C3: These fields indicate the activation/deactivation status of each *srs-PosResourceSet* that is linked for SRS for positioning bandwidth aggregation configured in *srs-PosResourceSetLinkedForAggBWList* specified in TS 38.331 [5]. C1 corresponds to the first entry in *srs-PosResourceSetLinkedForAggBWList*, C2 corresponds to the second one and so on.The Ci field is set to 1 to indicate that the *srs-PosResourceSet* corresponding to Ci shall be activated. The Ci field is set to 0 to indicate that the *srs-PosResourceSet* corresponding to Ci shall be de-activated; | The yellow IE is only for connected.  We agreed that   * The currently designed SRS BW aggregation MAC CE can be used for RRC\_CONNECTED and RRC\_INACTIVE.   So SRS-InactivePosResourceSetLinkedForAggBWList should be added after each yellow IE, too. |
| ZTE | 6.1.3.xx | The MAC CE does not contain C field:  - C: This field indicates whether the octets containing Resource Serving Cell ID field(s) and Resource BWP ID field(s) within the field Spatial Relation for Resource ID i are present, except for Spatial Relation Resource IDi with DL-PRS or SSB. When A/D is set to 1, if this field is set to 1, the octets containing Resource Serving Cell ID field(s) and Resource BWP ID field(s) in the field Spatial Relation for Resource IDi are present, otherwise if this field is set to 0, they are not present. When A/D is set to 0, this field is always set to 0 that they are not present;  Does it assume that the Resource Serving Cell ID field(s) and Resource BWP ID field(s) within the field Spatial Relation for Resource ID i should be always present? |
| ZTE | 6.1.3.XX  - Spatial Relation for Resource IDi: The field Spatial Relation for Resource IDi is only present if MAC CE is used for activation, i.e. at least one of the C1, C2, and C3 is set to 1. There can be as many as 16 entries of Spatial Relation for Resource IDi depending on the RRC configuration. There are 4 types of Spatial Relation for Resource IDi, which is indicated by the F (F0 and F1) field within, defined as in Figure 6.1.3.36-2 to 6.1.3.36-5 in clause 6.1.3.36. Spatial Relation for Resource ID1 corresponds to the spatial relation of the first aggregated SRS resource *[ffs what is the first aggregated SRS resource]*; | The agreement is:   * In the IE description of Spatial Relation for Resource IDi field, clarify that the SRS resource ID of the spatial relation comes from the first linked SRS resource set in this MAC CE. Other Spatial Relation for Resource IDi field design should remain as legacy.   So we suggest to update the yellow part as:  Spatial Relation for Resource ID1 corresponds to the spatial relation of the first pair of aggregated SRS resources in the first aggregated SRS resource set which is indicated by Positioning SRS Aggregation ID*[ffs what is the first aggregated SRS resource]*; |

# Conclusion