**3GPP TSG-RAN2 Meeting #118-eR2-220xxxx**

**Electronic, 9th – 20th May, 2022**

**Source: Email discussion Rapporteur (Huawei, HiSilicon)**

**Title: Summary for [Post118-e][604] 38.321 Positioning CR (Huawei)**

**Agenda item:** **6.6.2**

**Document for:** **Discussion and Decision**

# General

This document contains the list of comments made during the review of the MAC CR for Positioning

## Contacts

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### Comments

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| Companies | Brief description of the issue | Suggested resolution/company comments | Proposed way forward by rapporteur |
| Xiaomi | We are not clear why UE needs to cancel triggered Positioning Measurement Gap Activation/Deactivation Request MAC CE, in our understanding, the UE shall not cancel it. | Suggest to remove the sentence marked with yellow.  The MAC entity shall,  1>if Positioning Measurement Gap Activation/Deactivation Request MAC CE has been triggered, and not cancelled:  2> if indication from upper layer has been received that the triggered Positioning Measurement Gap Activation/Deactiation Request MAC CE should be cancelled:  3> cancel the triggered Positioning Measurement Gap Activation/Deactivation Request MAC CE.  2> if UL-SCH resources are available for a new transmission and these UL-SCH resources can accommodate the Positioning Measurement Gap Activation/Deactivation Request MAC CE plus its subheader as a result of logical channel prioritization:  3> instruct the Multiplexing and Assembly procedure to generate the Positioning Measurement Gap Activation/Deactivation Request MAC CE according to the upper layer's request;  3> cancel triggered Positioning Measurement Gap Activation/Deactivation Request MAC CE.  2> else:  3> trigger a Scheduling Request for Positioning Measurement Gap Activation/Deactivation Request MAC CE. | This is based on the following agreement in R2#117  Agreements:  For triggering condition for the UL MAC CE, reuse current RRC condition for Rel-16 PRS gap request, taking into account preconfigured MG. If the preconfigured MG is there and can satisfy the UE’s requirement, the UE uses MAC CE, otherwise RRC message as in Rel-16. The selection is specified in RRC. Reuse the “not configured or not sufficient” language from Rel-16.  Proposal 4.1: UL MAC CE for MG activation and deactivation is triggered by upper layers.  Proposal 4.3: LPP signalling for LMF to indicate to UE whether to send/not send the UL MAC CE for positioning MG activation request is not defined.  Proposal 4.5: the following options to cancel a triggered UL MAC CE for MG activation and deactivation should be captured in the spec; other options can be discussed in the running CR discussion.  • When the MAC CE is transmitted  • When a request from upper layers to transmit a new request to gNB for a new/modified gap configuration is received  • When an indication from upper layers that the gaps are not needed any more or a gap with a new id needs to be activated is received  • On MAC reset |
| Xiaomi | The reference clause should be 5.26.2. | The MAC entity shall, if the TA of the configured Positioning SRS is valid according to clause 5.26.2:  - transmit Positioning Periodic SRS or Semi-Persistent SRS defined in TS 38.214 [7]. | Corrected |
| CATT | 6.1.3.42  Does N in the numEntry description mean the N in Oct N in **Figure 6.1.3.42-1: PPW Activation/Deactivation Command MAC CE?**  If so, the description of numEntry should be updated as N, not N-1.  If not, please use another number, such as M without confusion with the existing N in this MAC CE. | - numEntry: This field indicates the number of entries N in the MAC CE. 00 indicates that N equals to 2; 01 indicates that N equals to 3 and so on. The length of the field is 2 bits; | C:\Users\y00397895\AppData\Roaming\eSpace_Desktop\UserData\y00397895\imagefiles\AFDAA105-F3A5-4249-8574-D59BEB9B21D3.png  N denotes this number here |
| vivo | The MAC entity shall, when triggered by the upper layer to send Positioning Measurement Gap Activation/Deactivation Request, cancel the triggered Positioning Measurement Gap Activation/Deactivation Request, if any and trigger another Positioning Measurement Gap Activation/Deactivation Request according to the upper layer's request.  The MAC entity shall,  1>if Positioning Measurement Gap Activation/Deactivation Request MAC CE has been triggered, and not cancelled:  2> if indication from upper layer has been received that the triggered Positioning Measurement Gap Activation/Deactiation Request MAC CE should be cancelled:  3> cancel the triggered Positioning Measurement Gap Activation/Deactivation Request MAC CE.  With the green-highlighted part, we understand that the MAC layer can already follow the requests from upper layer to cancel the MAC CE. Thus, the yellow-highlighted part is not needed as there are no explicit cancel indication procedure in RRC spec. | Suggest to remove the yellow-highlighted part.  The MAC entity shall, when triggered by the upper layer to send Positioning Measurement Gap Activation/Deactivation Request, cancel the triggered Positioning Measurement Gap Activation/Deactivation Request, if any and trigger another Positioning Measurement Gap Activation/Deactivation Request according to the upper layer's request.  The MAC entity shall,  1>if Positioning Measurement Gap Activation/Deactivation Request MAC CE has been triggered, and not cancelled: | [Rapp] This agreement is to implement the following agreement.  Proposal3 (modified): Detailed conditions for cancelling triggered MAC CE from the upper layer does not need to be captured in normative text in the MAC spec. Indicate in the cancellation procedure that MAC follows requests from upper layer.  My understanding is that the green part and the yellow part are not exactly the same.   * The green part means that the MAC eneity should cancel the not transmitted MAC CE when the higher layer trigger another MAC CE * The yellow part means that the MAC entity shall cancel the MAC CE when the higher layer indicate the MAC to cancel the MAC CE |
| vivo | The MAC entity shall:  1> if the UE is configured with *measObject* for the Serving Cell where the UE receives configuration for SRS transmission in RRC\_INACTIVE:  2> store the RSRP of the downlink pathloss reference derived based on the *measObject* configured for the Serving Cell as in TS 38.331.  1> else if Timing Advance Command MAC CE is received for *inactivePosSRS-TimeAlignmentTimer* as in clause 5.2:  2> update the stored downlink pathloss reference with the current RSRP value of the downlink pathloss reference.  We understand that the pathloss derivation should use the parameters in the system information, which is not aligned with the yellow-highlighted part. | The MAC entity shall:  1> if the UE receives configuration for SRS transmission in RRC\_INACTIVE:  2> store the RSRP of the downlink pathloss reference with the current RSRP value of the downlink pathloss reference as in TS 38.331.  1> else if Timing Advance Command MAC CE is received for *inactivePosSRS-TimeAlignmentTimer* as in clause 5.2:  2> update the stored downlink pathloss reference with the current RSRP value of the downlink pathloss reference. | [Rapp] Thanks for the comments. Corrected |
| vivo | - numEntry: This field indicates the number of entries N-1 in the MAC CE. 00 indicates that N equals to 2; 01 indicates that N equals to 3 and so on. The length of the field is 2 bits;  The field ‘L’ in the MAC subheader can already indicate the length, suggest removing the numEntry field.  L: The Length field indicates the length of the corresponding MAC SDU or variable-sized MAC CE in bytes. | Remove the numEntry field in PPW Activation/Deactivation Command MAC CE. | [Rapp] We agree that for variable size MAC CE, a subheader with L should be indicated. But, the processing of the MAC subheader and the MAC SDU might be independent. SO, here we prefer to keep the numEntry field. |
| vivo | The following IE names are not aligned between RRC and MAC specs:  MAC:  *inactivePosSRS-RSRP-ChangeThreshold*  *inactivePosSRS-TimeAlignmentTimer*  RRC;  srs-TimeAlignmentTimer  inactivePosSRS-RSRP-changeThresh | Align with RRC spec. | [Rapp] We have commented in the RRC CR that these field names should be aligned with MAC spec. |