**3GPP TSG-RAN WG2 Meeting #124** **R2-231**

**Chicago, USA, 13th – 17th Nov., 2023**

**Title: Email discussion on the running MAC CR**

**Source: Huawei, HiSilicon**

**Agenda item: 8.2.2**

**Document for: Discussion and Decision**

# Background

The following post meeting email discussion has been planned during RAN2#123bis:

**[Post123bis][409][POS] Rel-18 positioning MAC CRs (Huawei)**

Scope: Review the running CRs and develop open issue lists.

Intended outcome: Draft CRs and open issue list for next meeting

Deadline: Medium (2 weeks)

NOTE that we have the following guidelines from the chair on the running CR email discussions

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| Guidance for all post-meeting discussions on running CRs/open issues (also applicable to AI 7.9.1):   * Update the running CR with agreements from the meeting * Rapporteur to propose resolutions for straightforward open issues which can already be included in the running CR * Get input on stage-3 issues that require further input from companies to make a decision: * Focus on stage-3 issues which are better handled via offline, e.g. signaling details, parameter values/ranges, NOT functionality discussion * For these issues, the discussion rapporteur submits a report with proposals to the next meeting, and input via company Tdocs should be avoided * Identify the remaining open issues that need to be solved for WI completion in the next meeting * Company Tdocs for the next meeting should focus on these issues |

This contribution intends to collect the comments on the running MAC CR for the different features in R18 positioning

# 2 Discussion on MAC CR for SL positioning

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| Company+index  (e,g, HW000) | Excerpted spec with issues | Comments |
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# 3 Discussion on MAC CR for LPHAP

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| Company+index  (e,g, HW000) | Excerpted spec with issues | Comments |
| CATT | 1> when a Timing Advance Command is received in a Random Access Response message for a Serving Cell belonging to a TAG or in a MSGB for an SpCell: | The (re)start condition of srs-ValidityAreaTimeAlignmentTimer may also need to be added when Timing Advance Command is received in a Random Access Response message.  [Rapp] This issue has not been discussed specifically for RACH before. But OK to add it if companies are OK |
| CATT | 2> if the UE is configured with SRS with validity area and the upper layer indicates the MAC to update the stored RSRP:  3> store the RSRP of the downlink pathloss reference with the current RSRP value of the downlink pathloss reference of the camped cell as in TS 38.331 | The following agreement for TA in the parameter list R1-2310694 from RAN1 need to be reflected in MAC spec.   |  | | --- | | For the determination of UL timing to transmit SRS for positioning by UEs in RRC\_INACTIVE state within the SRS positioning validity area, support the following to determine a valid TA:  • The DL reference timing follows the DL timing of current camping cell.  • By default, UE maintains the TA from the last serving cell.  o UE can adjust its UL timing according to the change in DL reference timing.  • If configured by the network, subject to UE capability, UE autonomously adjusts the TA, when cell-reselection happens. |   [Rapp] as explained during last RAN2 meeting, TA update is not within the scope of RAN2 spec. |
| Xiaomi01 | 1> compared to the stored downlink pathloss reference RSRP value, the current RSRP value of the downlink pathloss reference has not increased/decreased by more than *inactivePosSRS-RSRP-ChangeThreshold*, if configured; and  1> *inactivePosSRS-TimeAlignmentTimer* is running or *srs-ValidityArea-TimerAlignmentTimer* is running when positioning validity area is configured. | The definition of the current RSRP may be different for Rel-18 SRS with validity area, this should be clarified.  [Rapp] Since we have sent out an LS to RAN4 and this is FFS. I have added an editor’s NOTE |

# 4 Discussion on MAC CR for REDCAP positioning

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| Company+index  (e,g, HW000) | Excerpted spec with issues | Comments |
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# 5 Discussion on MAC CR for CA positioning

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| Company+index  (e,g, HW000) | Excerpted spec with issues | Comments |
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# 6 Discussion on MAC CR for carrier phase positioning

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| Company+index  (e,g, HW000) | Excerpted spec with issues | Comments |
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# 7 Summary

*NADA*