3GPP TSG RAN WG2 Meeting #116-e R2-210xxxx

**Electronic meeting, 1st -12th November 2021**

**Agenda item:** 8.11.1

**Source:** Intel Corporation

**Title:** Report of offline discussion [AT116-e][623][POS] 38.305 CR for RAT-dependent positioning (Intel)

**Document for:**  Discussion and decision

# Introduction

This is the report of following offline discussion:

* [AT116-e][623][POS] 38.305 CR for RAT-dependent positioning (Intel)

Scope: Collect comments on the running CR preparatory to endorsement.

Intended outcome: Updated CR and report

Deadline: Tuesday 2021-11-09 0800 UTC

Rapporteur would like to split the discussion in two phases:

**Phase 1**: To collect comment on the draft running CR in R2-2109674; The **deadline for this 1st phase** of email discussion is **Friday 2021-11-05 1000 UTC (comments) .**

**Phase 2**: To check the updated version before the final deadline Tuesday 2021-11-09 0800 UTC

# Annex: companies’ point of contact

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| **Company** | **Point of contact** | **Email address** |
| Intel Corporation | Yi Guo | Yi.guo@intel.com |
| vivo | Xiang Pan | panxiang@vivo.com |
| Apple | Sasha Sirotkin | ssirotkin@apple.com |
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# Phase 1 to collect comments on the draft running CR

The changes on Scheduled location time, storing capability in AMF are captured in section 5.4.4, 7.3.2, 7.3.3 and 7.3.4;

**Companies are invited to provide your comments on the changes shown in the running CR on Latency reduction;**

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| **Company’s name** | **Comments, if any** |
| vivo | - If no impact on section 7.3.4 is foreseen, the Editor’s Note can be removed.  - NRPPA->NRPPa in section 7.3.2, 7.3.3 |
| Apple | Some editorial corrections to the PRU text  “A Positioning Reference Unit (PRU) at a known location can perform positioning measurements (e.g., RSTD, RSRP, UE Rx-Tx Time Difference measurements, etc.) and report these measurements to a location server. In addition, the PRU can transmit SRS to enable TRPs to measure and report UL positioning measurements (e.g., RTOA, UL-AoA, gNB Rx-Tx Time Difference, etc.) from PRUs at known locations. The PRU measurements can be compared by a location server with the measurements expected at the known PRU location to determine correction terms for other nearby target devices. The DL- and/or UL location measurements for other target devices can then be corrected based on the previously determined correction terms.  From a location server perspective, the PRU functionality is realized by a UE with known location.” |
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The changes on positioning in RRC\_INACTIVE are captured in section 5.2;

**Companies are invited to provide your comments on the changes shown in the running CR on positioning in RRC\_INACTIVE;**

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| **Company’s name** | **Comments, if any** |
| vivo | The following note is not entirely correct. E.g., the UL E-CID procedure in RRC\_INACTIVE is not supported as UE cannot send RRC measurement report during RRC\_INACTIVE.   |  | | --- | | NOTE: The positioning procedures between a UE and network for UEs in RRC\_CONNECTED state are also applied for UEs in RRC\_INACTIVE state using SDT. | |
| Apple | The note language can be improved as follows: “NOTE: The positioning procedures between a UE and the network for UEs in RRC\_CONNECTED state also apply for UEs in RRC\_INACTIVE state using SDT.” |
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The changes on On-Demand PRS transmission are captured in section 7.x;

**Companies are invited to provide your comments on the changes shown in the running CR on On-Demand PRS transmission;**

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| **Company’s name** | **Comments, if any** |
| vivo | For step 6, It is not agreed that LMF can provide the updated PRS configuration used for PRS transmission via posSI to the UE. We prefer not to support this solution which may cause very frequent system information update.  Therefore, we propose to remove it in the CR.  LMF provides the updated PRS configuration used for PRS transmission via LPP Provide Assistance Data message ~~or posSI~~ to the UE. |
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The changes on PRU are captured in section 3.2 and 5.4.x;

**Companies are invited to provide your comments on the changes shown in the running CR on PRU;**

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| **Company’s name** | **Comments, if any** |
| vivo | More FFS are needed.  - FFS how to provide PRU location coordinates to the LMF.  - FFS how to enable the LMF to be aware of the PRU. |
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# Summary report and proposals

# Reference

1. R2-2109673 Email discussion report on [609][POS] RAT-dependent stage 2 CR (Intel) Intel Corporation
2. R2-2109674 Email discussion [609] Running 38.305 CR for Positioning WI on RAT dependent positioning methods Intel Corporation draftCR Rel-17 38.305 16.6.0 B