3GPP TSG RAN WG2 Meeting #116b-e R2-220xxxx

**Electronic meeting, 17-25 January 2022**

**Agenda item:** 8.11.1

**Source:** Intel Corporation

**Title:** Report of email discussion [Post116bis-e][629][POS] 38.305 RAT-dependent positioning running CR (Intel)

**Document for:**  Discussion and decision

# Introduction

This is the report of following offline discussion:

* [Post116bis-e][629][POS] 38.305 RAT-dependent positioning running CR (Intel)

Scope: Check and endorse the running CR considering decisions of RAN2#116bis-e.

Intended outcome: Endorsed CR

Deadline: Friday 2022-01-28 0800 UTC

**CR review**: Companies are invited to provide comments/suggestions in the summary documents; Please do not add your comments/suggestions in the running CRs directly;

Rapporteur would like to set an early deadline for companies to provide initial comments in order to reserve time for further updates/discussion.

Deadline for initial comments (from companies): Thursday 2022-01-27 0700 UTC;

# Annex: companies’ point of contact

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| **Company** | **Point of contact** | **Email address** |
| Intel Corporation | Yi Guo | Yi.guo@intel.com |
| Qualcomm | Sven Fischer | sfischer@qti.qualcomm.com |
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# Discussion

## 3.1 Discussion

**Discussion point 3.1: Companies are invited to provide view on running TS38.305 CR ?**

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| **Company’s name** | **Section** | **Identified issues** | **Change suggestion** |
| Qualcomm | 3.2 | Editorial | Abbreviation SDT is nowhere used |
| 6.2.2 | PRS Processing Window has no definition. | PRS Processing Window is a new feature, specifically for positioning methods requiring DL-PRS and therefore, should have a definition in 38.305? |
| 7.3.2 | Description creates dependency between different features: "If a scheduled location time is provided in step 1, the LMF may provide pre-configured assistance data with a validity area to the UE ahead of time…" | Keep assistance data and location measurements separate; keep assistance data and validity area separate.  "If a scheduled location time is provided in step 1, the LMF schedule location measurements by the UE to occur at or near to the scheduled location time."  Assistance data delivery is already covered by the previous sentence.  This whole section is Service Layer Support (i.e., method independent) and not only for NR RAT-dependent methods.  LPP features should be described in 8.x.3 for each applicable positioning method. |
| 7.3.3 | Same as in 7.3.2 above. | In addition, not all MO-LR service types require location estimate and/or assistance.  LPP features may be better put into 8.x.3. |
| 7.4.1.x | Measurement gap activation via LMF | "The gNB may activate the pre-configurated measurement gap upon receiving the request from a UE or LMF."  Question:  Is the LMF activation of measurement gaps only for pre-configured measurement gaps? It's not clear to me from the RAN1 LS. |
| 7.4.1.z | Periodic Tx TEG reporting/TEG change procedure | According to RAN1 LS in R2-2200092: "It is up to RAN2 to decide how to indicate the change of the Tx TEG association during the configured period (e.g., using the timestamps)".  The procedure mentions "periodic report of UE TxTEG association", but what is needed seems an a-periodic report (i.e., a report when the TEG association has changed). Or what is the purpose of periodically reporting the same information? |
| 7.x.2 | Editor's Note on MO-LR has been deleted, but procedure has not been updated. | Add possibility for MO-LR in procedure; a simple proposal is described in R2-2200964, section 7. |
| 7.x.2 | Step 2b of the procedure is not restricted to LPP Location Information Transfer (up to LMF). | Replace Step 2b with "Possible LPP Procedure" which includes LPP Location Information Transfer, LPP Capability Transfer and LPP Assistance Data Transfer. A proposal is described in R2-2200964, section 7. |
| 7.x.2 | Step 2a is not restricted to pre-defined configurations only. | Delete " if the UE has pre-defined PRS configurations". |
| 8.10.2 | Available On-Demand-DL-PRS-Configurations missing in Table 8.10.2.1-1.  First path RSRP missing in Table 8.10.2.2-1 |  |
| 8.11.2 | Available On-Demand-DL-PRS-Configurations missing in Table 8.11.2.1-1.  Spatial direction information for UE-assisted missing in Table 8.11.2.1-1.  Expected Angle Assistance missing in Table 8.11.2.1-1.  PRS priority list missing in Table 8.11.2.1-1. |  |
| 8.12.2 | Available On-Demand-DL-PRS-Configurations missing in Table 8.12.2.1-1. |  |
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# Summary report and proposals