3GPP TSG RAN WG2 Meeting #117-e R2-2203623

**Electronic meeting, 21 Feb- 3 March, 2022**

**Agenda item:** 8.11.2.7

**Source:** Intel Corporation

**Title:** Report of [AT117-e][605][POS] Capability running CRs (Intel)

**Document for:**  Discussion and decision

# Introduction

This is the report of following offline discussion:

* [AT117-e][605][POS] Capability running CRs (Intel)

      Scope: Review and update the following CRs:

* R2-2202495 (capability running CR to 38.331)
* R2-2202496 (capability running CR to 38.306)

      Intended outcome: Endorsable CRs

      Deadline:  Friday 2022-02-25 1000 UTC – extended to Wednesday 2022-03-02 1000 UTC to take account of any additional RAN1 input

# Annex: companies’ point of contact

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| **Company** | **Point of contact** | **Email address** |
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| Nokia | Mani Thyagarajan | mani.thyagarajan@nokia.com |
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# Discussion

Based on Pre117-612 in R2-2202494, R2-2202495 (capability running CR to 38.331) and R2-2202496 (capability running CR to 38.306) captured following RAN1/RAN4 UE feature lists.

* TEG 27-1-2;
* PPW 27-3-2, 27-3-2a
* Preconfigured MG 27-10, 27-11
* Positioning in RRC\_INACTIVE 27-15, 27-15a, 27-16, 27-17, 27-18a, 27-18b, 27-18c, 27-19
* RAN4 per-FR MG for PRS measurement 14-1

Note: LPP related changes (proposed in R2-2202494) should be captured in LPP running CR directly.

However based on RAN2 agreements,

**For Rel17 NR UE caps:**

* Aim to Work on mega CRs (one mega CR for TS38.306 and one for TS38.331) to incorporate all RAN1/RAN4 feature groups. ​There could be exceptions, case by case.
* RAN2 should only implement the feature groups from the RAN1 and 4 feature list without any FFS (no highlighted yellow, [] and marked as FFS/TBD) into the CRs. Also Caps that are dependent on FFS Caps should not be implemented.
* Include an annex containing the RAN2 determined UE capabilities in the feature list format in the running UE capability CRs (similar to annex containing RAN2 agreements) for easy compilation into the TR38.822 in the later stage.
* For capabilities developed in R2, WIs will provide input to the mega CR.

Only 27-10, 27-11 and 14-1 have no any FFS. Therefore Rapporteur removed other changes, and only kept changes for them in the CRs.

**Discussion point : For RRC related changes, companies are invited to provide comments, suggestions if any.**

Note: For RAN1/RAN4 feature lists, Rapporteur will update CRs (resolve FFSs) accordingly once RAN1 and RAN4 update their UE feature lists;

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| **Company’s name** | **RRC Section x**  **306 Section y** | **Comments** |
| Nokia | RRC CR cover | Consequences if not approved is missing.  [Rapp]I removed it intentionally since the TP will be merged in capability Mega CR;  For traceability purposes, it is good to add the tdoc numbers for the RAN1/RAN4 UE features list or LS that includes updates for 27-10, 27-11 and 14-1  [Rapp] Done. |
| Nokia | 306 CR cover | Consequences if not approved is missing.  [Rapp]I removed it intentionally since the TP will be merged in capability Mega CR;  For traceability purposes, it is good to add the tdoc numbers for the RAN1/RAN4 UE features list or LS that includes updates for 27-10, 27-11 and 14-1  [Rapp] Done. |
| Nokia | 306 Section 4.2.6 | Good to follow the existing convention for the new text proposals. Suggest the following TP:  ActivationCommPRS-Meas-r17  Indicates whether UE supports the use of DL MAC CE from the gNB, as specified in TS 38.321, to activate the preconfigured MG for PRS measurements.  mg-ActivationRequestPRS-Meas-r17  Indicates whether UE supports the use of UL MAC CE, as specified in TS 38.321, to request the activation of the preconfigured MG for PRS measurements. The UE can include this field only if the UE supports mg-ActivationCommPRS-Meas-r17  [Rapp] Done. |
| Nokia | 306 Section 4.2.9 | Good to follow the existing convention for the new text proposals. Suggest the following TP:  independentGapConfigPRS-r17  Indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 for PRS measurement, as specified in clause 9.1.2 of TS 38.133 [5].  [Rapp] Done. |

# Summary report and proposals