3GPP TSG-RAN WG2 #118-e Tdoc R2-22xxxxx

Electronic meeting, 2022-05-09 - 2022-05-20

Agenda Item: 6.11.2.9

Source: Ericsson

Title: [Post118-e][602][POS] 38.331 positioning CR (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

# 1 Introduction

This document is to collect comments for the CR:

* [Post118-e][602][POS] 38.331 positioning CR (Ericsson)

 Scope: Update and check the CR in R2-2206246.

 Intended outcome: Agreed CR

 Deadline: Short (for RP)

# 2 Contact Information

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# 3 Comments

**Please provide your review comments here**

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| Company | Comments |
| ZTE | In section 5.5.6.2, the ‘pre-configured measurement gap’ in step 2 should be ‘pre-configured measurement gap for positioning’.2> if preconfigured measurement gaps for positioning are configured and the UE considers that at least one of the preconfigured measurement gap for positioning is sufficient for the location measurement when activated: |
| CATT | 1. In 5.5.6.2, there are “not preconfigured positioning measurement gap” and “preconfigured measurement gap for positioning” as highlighted below. The term needs to be aligned.

NOTE 2: When indication is received from upper layers for performing location measurement and there is pre-configured measurement gap configured (not preconfigured positioning measurement gap), the UE considers this pre-configured measurement gap to be not sufficient if the measurement gap is not considered to be always activated according to clause 9.1.7.2 of TS 38.133 [14].1> if and only if upper layers indicate to stop performing location measurements towards E-UTRA or NR or stop subframe and slot timing detection towards E-UTRA :2> if there is no activated preconfigured measurement gap for positioning:3> initiate the procedure to indicate stop as specified in 5.5.6.3.2> else if there is activated preconfigured measurement gap for positioning:3> trigger the lower layers to deactivate all the activated measurement gap(s) for positioning as specified in TS 38.321 [6].2. In section “5.7.X Derivation of pathloss reference for TA validation of SRS for Positioning transmission and CG-SDT in RRC\_INACTIVE”, the procedure of acquiring SIB2 and verification of the two parameters can be deleted, as it is a common procedure which has already contained in clause 5.2.2. In addition, there is a case, that *nrOfSS-BlocksToAverage* is not configured, is missing.The proposed change can be:Upon request from lower layer for pathloss reference derivation for TA validation for SRS for Positioning transmission or CG-SDT in RRC\_INACTIVE, the UE shall:~~1> Acquire~~ *~~SIB2,~~* ~~if stored version is invalid:~~~~2> verify the configuration of~~ *~~nrOfSS-BlocksToAverage~~* ~~and~~ *~~absThreshSS-BlocksConsolidation~~* ~~is available.~~~~3~~1> if *nrOfSS-BlocksToAverage* is not configured in SIB2, or if *absThreshSS-BlocksConsolidation* is not configured in SIB2, or if a*bsThreshSS-BlcoksConsolidation* is configured in SIB2 and the highest beam measurement quantity value is below or equal to *absThreshSS-BlockConsolidation*:~~4~~2> derive the downlink pathloss reference RSRP for TA validation as the highest beam measurement quantity value, where each beam measurement quantity is described in TS 38.215 [24].~~3~~1> else:~~4~~2> derive the downlink pathloss reference RSRP for TA validation as the linear average of the power values of up to *nrOfSS-BlocksToAverage* of the highest beam measurement quantity values above *absThreshSS-BlocksConsolidation*, where each beam measurement quantity is described in TS 38.215 [24].3. According to the agreement “Add a new field description in SIB2 and a new clause for pathloss derivation for TA validation of SRSp transmission. No conclusion now on whether this clause can also be used for CG-SDT in RRC\_INACTIVE.”, the “CG-SDT in RRC\_INACTIVE” part in 5.7.X can be deleted and wait for the decision from the SDT.5.7.X Derivation of pathloss reference for TA validation of SRS for Positioning transmission ~~and CG-SDT in RRC\_INACTIVE~~Upon request from lower layer for pathloss reference derivation for TA validation for SRS for Positioning transmission ~~or CG-SDT in RRC\_INACTIVE~~, the UE shall:4. In the field description of SIB2, the field description for pathloss derivation is missed.***absThreshSS-BlocksConsolidation***Threshold for consolidation of L1 measurements per RS index. If the field is absent, the UE uses the measurement quantity as specified in TS 38.304 [20]. This field is also used for deriving cell level pathloss reference for TA validation of positioning SRS transmission in RRC\_INACTIVE.***nrofSS-BlocksToAverage***Number of SS blocks to average for cell measurement derivation. If the field is absent the UE uses the measurement quantity as specified in TS 38.304 [20]. This field is also used for deriving cell level pathloss reference for TA validation of positioning SRS transmission in RRC\_INACTIVE.5. In section 6.3.2 and 6.4① The following editor’s note can be deleted~~--Editor's Note: maxGapConfig is FFS--~~② The definition of maxGapConfig in section 6.4 can be deleted ~~maxGapConfig-r17 INTEGER ::= ffsUpperLimit -- Maximum number of Preconfigured Gaps is FFS~~6. Under the current mechanism, if cell reselection occurs, UE will release the *srs-PosRRC-InactiveConfig*. However, when UE moves back to the original gNB who configures the SRS to the UE, this original gNB will configure SRS based on its previous SRS to this UE if the TAT is still valid. But the previous SRS in UE already invalid and released because of cell re-selection. This issue brings misalignment between UE and original gNB. In order to avoid wrong configuration, We suggest not supporting delta configuration for *srs-PosRRC-InactiveConfig*.– *RRCRelease* srs-PosRRC-Inactive-r17 ~~SetupRelease {~~ SRS-PosRRC-Inactive-r17 ~~}~~ OPTIONAL, -- Need ~~M~~RSRS-PosRRC-Inactive-r17 ::= OCTET STRING (CONTAINING SRS-PosRRC-InactiveConfig-r17)SRS-PosRRC-InactiveConfig-r17 ::= SEQUENCE { srs-PosConfig-r17 SRS-PosConfig-r17, bwp-SUL-r17 BWP OPTIONAL, -- Need S bwp-NUL-r17 BWP OPTIONAL, -- Need S srs-TimeAlignmentTimer-r17 TimeAlignmentTimer OPTIONAL, -- Need ~~M~~R inactivePosSRS-RSRP-changeThresh-r17 RSRP-ChangeThresh-r17 OPTIONAL -- Need ~~M~~R}SRS-PosConfig-r17 ::= SEQUENCE { ~~srs-PosResourceSetToReleaseList-r17 SEQUENCE (SIZE(1..maxNrofSRS-PosResourceSets-r16)) OF SRS-PosResourceSetId-r16 OPTIONAL,-- Need N~~ srs-PosResourceSet~~ToAddMod~~List-r17 SEQUENCE (SIZE(1..maxNrofSRS-PosResourceSets-r16)) OF SRS-PosResourceSet-r16 OPTIONAL,-- Need ~~N~~R ~~srs-PosResourceToReleaseList-r17 SEQUENCE (SIZE(1..maxNrofSRS-PosResources-r16)) OF SRS-PosResourceId-r16 OPTIONAL,-- Need N~~ srs-PosResource~~ToAddMod~~List-r17 SEQUENCE (SIZE(1..maxNrofSRS-PosResources-r16)) OF SRS-PosResource-r16 OPTIONAL -- Need ~~N~~R} |
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# Conclusion

In the previous sections we made the following observations: