**3GPP TSG-RAN WG1 Meeting #110R1-2207944**

**Toulouse, France, August 22nd –26th, 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.214** | **CR** | 0293 | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Correction on UE sounding procedure for positioning purpose | | | | | | | | | |
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| ***Source to WG:*** | Moderator(CATT), ZTE, vivo | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_ pos\_enh-Core | | | | |  | ***Date:*** | | | 2022-08-24 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | In TS 38.214, the UE Rx or RxTx TEG definition is specified in section 5.1.6.5. However, there is no such definition for UE Tx TEG in the current specification.  Instead, the statement in the current TS 38.214 is that UE reports Tx TEG. This is not aligned with the previous agreement where UE Tx TEG is just a definition and UE only reports Tx TEG ID and assoicaiton information between Tx TEG ID and SRS resoruces.  It is noted that TS 38.214 has additionally specified that UE can report Tx TEG ID and the association information. | | | | | | | | |
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| ***Summary of change:*** | | Clarify the definition of UE Tx TEG in TS 38.214 | | | | | | | | |
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| ***Consequences if not approved:*** | | UE Tx TEG’s definition is not accurately captured in the specification. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.1.4 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
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| ***Other comments:*** | | **Isolated impact analysis:**  This draft is intended to correct the specification to align with RAN1’s agreements. There is no isolated impact. | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

#### 6.2.1.4 UE sounding procedure for positioning purposes

**<Unchanged parts omitted>**

For operation on the same carrier, if an SRS configured by the higher parameter *SRS-PosResource* collides with a scheduled PUSCH, the SRS is dropped in the symbols where the collision occurs.

The UE does not expect to be configured with *SRS-PosResource* on a carrier of a serving cell with slot formats comprised of DL and UL symbols, not configured for PUSCH/PUCCH transmission.

~~The UE may be configured, subject to UE capability, to report~~ ~~UE Tx TEGs (Timing Error Group), where~~

Timing Error Group (TEG) at UE side is defined:

- UE Tx TEG is associated with the transmissions of one or more UL SRS resources for the positioning purpose, which have the Tx timing error difference within a certain margin.

The UE may be configured to report, subject to UE capability, association information of the already transmitted SRS resource(s) configured by the higher layer parameter *SRS-PosResource* with UE Tx TEG(s) via higher layer parameter [*ueTxTEG*].

**<Unchanged parts omitted>**