**3GPP TSG-RAN WG1 Meeting #117** ***R1-24xxxxx***

**Fukuoka City, Fukuoka, Japan, May 20th – 24th, 2024**

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| *CR-Form-v12.3* |
| **Draft CHANGE REQUEST** |
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|  | **38.213** | **CR** |  | **rev** |  | **Current version:** | **18.2.0** |  |
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| *For* [***HELP***](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:***  | Editorial corrections to TS 38.213 for Rel-18 Positioning |
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| ***Source to WG:*** | Moderator (Intel Corporation) |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_pos\_enh2-Core |  | ***Date:*** | 2024-05-20 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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 canbe 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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)Rel-20 (Release 20)* |
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| ***Reason for change:*** | Clause 7.3.1:* For Rel-18 LPHAP, the following agreement was achieved towards the power control of SRS for positioning:

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| **Agreement in RAN1#113**For the power control of an SRS for positioning configuration in multiple cells for a UE in RRC\_INACTIVE state, when pathloss RS is provided in the configuration, support:• Alt. 2-1 (modified): Reuse the configuration of pathloss RS in Rel-17;o FFS: A CD SSB or non-CD SSB can be configured as pathloss RSo If the UE determines that the pathloss RS cannot be accurately measured, pathloss may be calculated based on the RS resources obtained from SS/PBCH block of the new camping cell that the UE uses to obtain MIB. |

This agreement clarifies the UE behavior when UE is configured with pathloss RS and UE cannot accurately measure the configured pathloss RS. However, the specification is not aligned with the agreement. The description ‘measure a pathloss’ in TS 38.214 is different from ‘measure the pathloss RS’ as intended by the agreement. |
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| ***Summary of change:*** | Clause 7.3.1:* Clarify UE behavior by referring to measurement of pathloss RS configured in *pathlossReferenceRS-Pos*.
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| ***Consequences if not approved:*** | Specification is incomplete or incorrect. |
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| ***Clauses affected:*** | 7.3.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

#### 7.3.1 UE behavior

**<Unchanged text omitted>**

If a UE transmits SRS based on a configuration by *SRS-PosResourceSet* in *SRS-PosRRC-InactiveValidityAreaConfig* in RRC\_INACTIVE state [12, TS 38.331], the active UL BWP *b* refers to the BWP provided by *bwp* in *SRS-PosRRC-InactiveValidityAreaConfig*. If the UE is not provided *pathlossReferenceRS-Pos* in *SRS-PosResourceSet*, or if the UE is provided *pathlossReferenceRS-Pos* in *SRS-PosResourceSet* and the UE cannot accurately measure the pathloss RS configured in *pathlossReferenceRS-Pos*, the UE calculates $PL\_{b,f,c}(q\_{d})$ using an RS resource from an SS/PBCH block with same index as the one the UE used to obtain *MIB*; otherwise, the UE uses the RS indicated by *pathlossReferenceRS-Pos* to calculate $PL\_{b,f,c}(q\_{d})$.

**<Unchanged text omitted>**