**3GPP TSG-RAN2 Meeting #123bis R2-231**

**Xiamen, China , 9th -13th October, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.321** | **CR** | DraftCR | **rev** | **-** | **Current version:** | 17.5.0 |  |
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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:***  |  Draft running MAC CR for the introduction of carrier phase positioning |
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| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | RAN2 |
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| ***Work item code:*** | NR\_pos\_enh2 |  | ***Date:*** | 2023-10-09 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | * **Issue1**: In the LS to RAN1 on RAN1-led positioning issues, the following question has been asked regarding the time window for UL-SRS transmission for carrier phase positioning as in R2-2311391

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| Carrier phase positioning:* For simultaneous transmission of UL SRS from a target UE and a PRU, is there a need for gNB to indicate the time window(s) directly to UE?
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Hence, an FFS is added in a newly created section for SRS transmission in carrier phase positioning |
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| ***Summary of change:*** | The following changes have been applied in the current CR* Change1: Add a new section for SRS transmission in carrier phase positioning
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| ***Consequences if not approved:*** | The new feature carrier phase positioning can not be well supported by the MAC spec |
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| ***Clauses affected:*** | 5.xx |
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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:*** |  |
|  |  |
| ***This CR's revision history:*** | Ver0 in RAN2#123bis: R2-23 |

====================================CHANGE BEGIN====================================

## 5.xx SRS transmission for carrier phase positoning

Editor's NOTE: FFS whether the UL time window needs to be indicated to the UE from the gNB for carrier phase positioning.

=====================================END OF CHANGES=================================