**3GPP TSG-RAN WG1 Meeting #118 *R1-24NNNN***

Maastricht, Netherlands, August 19th – August 24th, 2024

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| *CR-Form-v12.3* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
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|  | **38.214** | **CR** | **draft** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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 SRS frequency hopping for positioning | | | | | | | | | |
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| ***Source to WG:*** | Moderator (Ericsson), CATT, Intel Corporation | | | | | | | | | |
| ***Source to TSG:*** | RAN1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_pos\_enh2-Core | | | | |  | ***Date:*** | | | 2024-08-19 |
|  |  | | | |  | |  | | |  |
| ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | Corrections on description associated with SRS frequency hopping for RedCap UEs positioning.  **Agreement（RAN1#115）**  For RedCap UEs positioning transmitting the UL SRS with frequency hopping, regarding the collisions between other UL and DL signals/channels and the UL SRS with frequency hopping, support both of the following options   * Option 1: UL time window where the UE is not expected to [receive/]transmit other signals/channels and is only expected to transmit FH SRS for positioning.   + FFS details of an UL time window   + Note: it implies that UE drops the transmission of other signals/channels and transmits SRS for positioning * Option 2: new collision rules between the UL SRS with frequency hopping and other UL and DL signals/channels/. Option 2 can apply without UL time window (i.e. option 1)   + FFS: details on the collision rules * Note: it is understood that option 2 is a component of the feature for UL SRS Tx hopping (FG 41-5-2), and option 1 is a separate feature group. * Note: UE is not expected to be configured with a SRS for positioning hopping cycle, including the switching time from/to active BWP required ahead of the first hop and after the last hop, partially overlapping with UTW. | | | | | | | | |
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| ***Summary of change:*** | | Remove the bracket on “cycle”. | | | | | | | | |
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| ***Consequences if not approved:*** | | Unclear UE behaviour for SRS frequency hopping configuration. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.1.4.1 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**<<< UNCHANGED PARTS OMITTED >>>**

##### 6.2.1.4.1 SRS frequency hopping for positioning

The reduced capability UE may be configured, via srs-PosUplinkTransmissionWindowConfig, subject to UE capability, with an UL time window where the UE is not expected to transmit other signals/channels and is only expected to transmit the SRS for positioning using frequency hopping. The UE is not expected to be configured with one cycle of the transmit frequency hopping, including the switching time from/to active BWP required ahead of the first hop and after the last hop, that is partially overlapped with the time window.

**<<< UNCHANGED PARTS OMITTED >>>**