**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In current specification, when SRS overlaps with PUCCH/PUSCH, SRS or PUCCH is dropped according to rules in clause 6.2.1 of TS 38.214. However, when cell DRX is configured, UE behavious is ambiguous whether to perform the current dropping rule first or perform the determination of PUCCH/PUSCH/SRS transmission within non-active periods of cell DRX first.  To avoid the unnecessary dropping of A-SRS or SRS for positioning, and to minimize the specification changes and minimize the UE implementation impact, we proposed that a UE first performs determination of whether to transmit a PUCCH/PUSCH/SRS within non-active period of cell DRX and then applies dropping rule for resolving overlapping between SRS and PUCCH/PUSCH as in clause 6.2.1 of TS 38.214. | | | | | | | | |
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| ***Summary of change:*** | | Clarify that the UE shall first perform determination of whether to transmit a PUCCH/PUSCH/SRS within non-active period of cell DRX and then apply dropping rule for resolving overlapping between SRS and PUCCH/PUSCH as in clause 6.2.1 of TS 38.214. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE behavious is ambiguous whether to perform the current dropping rule first or perform the determination of PUCCH/PUSCH/SRS transmission within non-active periods of cell DRX first. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.1 | | | | | | | | |
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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 text omitted ---*

### 6.2.1 UE sounding procedure

The UE may be configured with one or more Sounding Reference Signal (SRS) resource sets as configured by the higher layer parameter *SRS-ResourceSet* or *SRS-PosResourceSet*. For each SRS resource set configured by *SRS-ResourceSet*, a UE may be configured with SRS resources (higher layer parameter *SRS-Resource*), where the maximum value of K is indicated by UE capability[13, 38.306]. When SRS resource set is configured with the higher layer parameter *SRS-PosResourceSet,* a UE may be configured with *K* ≥1 SRS resources (higher layer parameter *SRS-PosResource*), where the maximum value of K is 16. The SRS resource set applicability is configured by the higher layer parameter *usage* in *SRS-ResourceSet.* When the higher layer parameter *usage* is set to 'beamManagement'*,* only one SRS resource in each of multiple SRS resource sets may be transmitted at a given time instant, but the SRS resources in different SRS resource sets with the same time domain behaviour in the same BWP may be transmitted simultaneously. For a given CC, multiple SRS resources across multiple sets with usage “beamManagement” are not expected to be partially overlapped in time.

During non-active periods of cell DRX, the UE configured with cell DRX is not expected to transmit the periodic SRS, or semi-persistent SRS for channel acquisition. SRS for positioning is not impacted by cell DRX operation.

During non-active periods of cell DRX, the UE configured with cell DRX applies the procedures described in this clause after it determines PUSCH, SRS, and PUCCH transmission due to cell DRX operations according to clause 5.34.3 of [11, TS 38.321].

For the SRS resource set(s) configured *in srs-ResourceSetToAddModListDCI-0-2* with higher layer parameter *usage* set to '*antennaSwitching*' or '*beamManagement*', the UE expects the same SRS resource set(s) with the same *usage* being configured in *srs-ResourceSetToAddModList.*

*--- unchanged text omitted ---*