**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **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 | **x** | Radio Access Network | **x** | Core Network |  |

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|  |
| ***Title:***  |  |
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| ***Source to WG:*** | , Qualcomm Incorporated |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |   |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***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 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:*** | In RAN2#127, it was agreed to limit the Parallel Tx capabilities to non-DC case only, which are currently applicable to both MCG and SCG. Additionally, intra-band Parallel Tx capabilities should be limited to the case of intra-band non-contiguous CA operated in only one band. |
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| ***Summary of change:*** | Update the parallel Tx capabilities in CA-ParametersNR to be applicable to NR SA CA but not SCG.This CR needs to be supported by the UE and the Network to implement this feature (Parallel Tx).**Impact analysis**Impacted 5G architecture options: Standalone  Impacted functionality: Parallel Tx capabilities   Inter-operability: If the network implements the CR and the UE does not, there is no interoperability issue. The UE may support a parallel Tx capability for both MCG and SCG (when including the existing capabilities), but the network will only configure the feature for NR SA.If the UE implements the CR and the network does not, the network may configure a parallel Tx feature for SCG while the UE may support it only for NR SA. |
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| ***Consequences if not approved:*** | The parallel Tx capabilities will remain applicable to both MCG and SCG and thus UEs may be forced to refrain from reporting those capabilities in case such UEs could support these features only for NR SA. |
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| ***Clauses affected:*** | 4.2.7.4 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

START OF CHANGE

| ***parallelTxMsgA-SRS-PUCCH-PUSCH-r16***Indicates whether the UE supports parallel transmission of MsgA in PCell and SRS/ PUCCH/ PUSCH across CCs in an inter-band CA band for NR SA. A UE supporting this feature shall also indicate support of *parallelTxPRACH-SRS-PUCCH-PUSCH*. | BC | No | N/A | N/A |
| --- | --- | --- | --- | --- |
| ***parallelTxMsgA-SRS-PUCCH-PUSCH-intraBand-r17***Indicates whether the UE supports parallel transmission of MsgA in SpCell and SRS/ PUCCH/ PUSCH across CCs in an intra-band non-contiguous CA band combination or across CCs in an intra-band non-contiguous CA of the Cell Group in which intra-band non-contiguous CA is configured (i.e. the UE capability is applicable to NR-DC band combination where only one of the Cell Groups is configured with intra-band non-contiguous CA and the Cell Group contains a single intra-band non-contiguous CA component). The UE indicating support of this field shall also indicate support of *parallelTxMsgA-SRS-PUCCH-PUSCH-r16*. | BC | No | N/A | N/A |
| ***parallelTxSRS-PUCCH-PUSCH***Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an inter-band CA band combination for NR SA. | BC | No | N/A | N/A |
| ***parallelTxSRS-PUCCH-PUSCH-intraBand-r17***Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an intra-band non-contiguous CA band combination or across CCs in an intra-band non-contiguous CA of the Cell Group in which intra-band non-contiguous CA is configured (i.e. the UE capability is applicable to NR-DC band combination where only one of the Cell Groups is configured with intra-band non-contiguous CA and the Cell Group contains a single intra-band non-contiguous CA component) . | BC | No | N/A | N/A |
| ***parallelTxPRACH-SRS-PUCCH-PUSCH***Indicates whether the UE supports parallel transmission of PRACH and SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination for NR SA. | BC | No | N/A | N/A |
| ***parallelTxPRACH-SRS-PUCCH-PUSCH-intraBand-r17***Indicates whether the UE supports parallel transmission of PRACH and SRS/PUCCH/PUSCH across CCs in an intra-band non-contiguous CA band combination or across CCs in an intra-band non-contiguous CA of the Cell Group in which intra-band non-contiguous CA is configured (i.e. the UE capability is applicable to NR-DC band combination where only one of the Cell Groups is configured with intra-band non-contiguous CA and the Cell Group contains a single intra-band non-contiguous CA component). | BC | No | N/A | N/A |
| ***parallelTxPUCCH-PUSCH-r17***Indicates whether the UE supports simultaneous PUCCH and PUSCH transmissions of different priority across CCs in an inter-band CA band combination for NR SA. | BC | No | N/A | N/A |
| ***parallelTxPUCCH-PUSCH-SamePriority-r17***Indicates whether the UE supports simultaneous PUCCH and PUSCH transmissions of same priority across CCs in an inter-band CA band combination for NR SA as specified in clause 9 of TS 38.213 [11]. | BC | No | N/A | N/A |

END OF CHANGE