**3GPP TSG- WG2 Meeting #125bis**

**, , - 19th, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **<xxxx>** | **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 |  | Core Network | **X** |

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|  |
| ***Title:***  | Miscellaneous corrections on LPP for Rel-18 positioning UE capabilities |
|  |  |
| ***Source to WG:*** | Xiaomi |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2024-04-22 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***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)* |
|  |  |
| ***Reason for change:*** | To capture following agreements made in RAN2#125bis:Move the two fields posSRS-BWA-RRC-Connected-r18 and posSRS-BWA-IndependentCA-RRC-Connected-r18 from IE SRS-CapabilityPerBand-r16 to SRS-PosResourcesPerBand-r16.To update FG 41-4-6, FG 41-4-7 and FG41-4-8 according to R1-2403703 updated RAN1 UE feature list for Rel-18 NR after RAN1 116bis. |
|  |  |
| ***Summary of change:*** | 1 Move the two fields posSRS-BWA-RRC-Connected-r18 and posSRS-BWA-IndependentCA-RRC-Connected-r18 from IE SRS-CapabilityPerBand-r16 to SRS-PosResourcesPerBand-r16.2 Update component 2 and notes of FG41-4-6.3 Update component 2, component 9 and notes of FG 41-4-7.4 Update component 2, component 9 and notes of FG 41-4-8. |
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| ***Consequences if not approved:*** | The UE capabilities for Rel-18 positioning are not captured correctly. |
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| ***Clauses affected:*** | 6.4.3 |
|  |  |
|  | **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

### 6.4.3 Common NR Positioning Information Elements

#### *– NR-UL-SRS-Capability*

The IE *NR-UL-SRS-Capability* defines the UE uplink SRS capability.

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NR-UL-SRS-Capability-r16 ::= SEQUENCE {

 srs-CapabilityBandList-r16 SEQUENCE (SIZE (1..nrMaxBands-r16)) OF

 SRS-CapabilityPerBand-r16,

 srs-PosResourceConfigCA-BandList-r16 SEQUENCE (SIZE (1..nrMaxConfiguredBands-r16)) OF

 SRS-PosResourcesPerBand-r16 OPTIONAL,

 maxNumberSRS-PosPathLossEstimateAllServingCells-r16

 ENUMERATED {n1, n4, n8, n16} OPTIONAL,

 maxNumberSRS-PosSpatialRelationsAllServingCells-r16

 ENUMERATED {n0, n1, n2, n4, n8, n16} OPTIONAL,

 ...

}

SRS-CapabilityPerBand-r16 ::= SEQUENCE {

 freqBandIndicatorNR-r16 FreqBandIndicatorNR-r16,

 olpc-SRS-Pos-r16 OLPC-SRS-Pos-r16 OPTIONAL,

 spatialRelationsSRS-Pos-r16 SpatialRelationsSRS-Pos-r16 OPTIONAL,

 ...,

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 posSRS-RRC-Inactive-InInitialUL-BWP-r17 PosSRS-RRC-Inactive-InInitialUL-BWP-r17 OPTIONAL,

 posSRS-RRC-Inactive-OutsideInitialUL-BWP-r17

 PosSRS-RRC-Inactive-OutsideInitialUL-BWP-r17

 OPTIONAL,

 olpc-SRS-PosRRC-Inactive-r17 OLPC-SRS-Pos-r16 OPTIONAL,

 spatialRelationsSRS-PosRRC-Inactive-r17 SpatialRelationsSRS-Pos-r16 OPTIONAL

 ]],

 [[

 posSRS-SP-RRC-Inactive-InInitialUL-BWP-r17 PosSRS-SP-RRC-Inactive-InInitialUL-BWP-r17

 OPTIONAL

 ]],

 [[

 posSRS-Preconfigured-RRC-InactiveInitialUL-BWP-r18 ENUMERATED {supported} OPTIONAL,

 posSRS-Preconfigured-RRC-InactiveOutsideInitialUL-BWP-r18 ENUMERATED {supported} OPTIONAL,

 posSRS-ValidityAreaRRC-InactiveInitialUL-BWP-r18 ENUMERATED {supported} OPTIONAL,

 posSRS-ValidityAreaRRC-InactiveOutsideInitialUL-BWP-r18 ENUMERATED {supported} OPTIONAL,

 posSRS-TxFH-RRC-Connected-r18 PosSRS-TxFrequencyHoppingRRC-Connected-r18 OPTIONAL,

 posSRS-TxFH-RRC-Inactive-r18 PosSRS-TxFrequencyHoppingRRC-Inactive-r18 OPTIONAL,

 posSRS-TxFH-WithTimeWindow-r18 ENUMERATED {supported} OPTIONAL,

 posSRS-BWA-RRC-Inactive-r18 PosSRS-BWA-RRC-Inactive-r18 OPTIONAL

 ]]

}

OLPC-SRS-Pos-r16 ::= SEQUENCE {

 olpc-SRS-PosBasedOnPRS-Serving-r16 ENUMERATED {supported} OPTIONAL,

 olpc-SRS-PosBasedOnSSB-Neigh-r16 ENUMERATED {supported} OPTIONAL,

 olpc-SRS-PosBasedOnPRS-Neigh-r16 ENUMERATED {supported} OPTIONAL,

 maxNumberPathLossEstimatePerServing-r16 ENUMERATED {n1, n4, n8, n16} OPTIONAL,

 ...

}

SpatialRelationsSRS-Pos-r16 ::= SEQUENCE {

 spatialRelation-SRS-PosBasedOnSSB-Serving-r16 ENUMERATED {supported} OPTIONAL,

 spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 ENUMERATED {supported} OPTIONAL,

 spatialRelation-SRS-PosBasedOnPRS-Serving-r16 ENUMERATED {supported} OPTIONAL,

 spatialRelation-SRS-PosBasedOnSRS-r16 ENUMERATED {supported} OPTIONAL,

 spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 ENUMERATED {supported} OPTIONAL,

 spatialRelation-SRS-PosBasedOnPRS-Neigh-r16 ENUMERATED {supported} OPTIONAL,

 ...

}

SRS-PosResourcesPerBand-r16 ::= SEQUENCE {

 freqBandIndicatorNR-r16 FreqBandIndicatorNR-r16,

 maxNumberSRS-PosResourceSetsPerBWP-r16 ENUMERATED {n1, n2, n4, n8, n12, n16},

 maxNumberSRS-PosResourcesPerBWP-r16 ENUMERATED {n1, n2, n4, n8, n16, n32, n64},

 maxNumberPeriodicSRS-PosResourcesPerBWP-r16 ENUMERATED {n1, n2, n4, n8, n16, n32, n64},

 maxNumberAP-SRS-PosResourcesPerBWP-r16 ENUMERATED {n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 maxNumberSP-SRS-PosResourcesPerBWP-r16 ENUMERATED {n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 ...,

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 posSRS-BWA-RRC-Connected-r18 PosSRS-BWA-RRC-Connected-r18 OPTIONAL,

 posSRS-BWA-IndependentCA-RRC-Connected-r18 PosSRS-BWA-IndependentCA-RRC-Connected-r18

 OPTIONAL

 ]]

}

PosSRS-RRC-Inactive-InInitialUL-BWP-r17 ::= SEQUENCE {

 maxNumOfSRSposResourceSets-r17 ENUMERATED {n1, n2, n4, n8, n12, n16 } OPTIONAL,

 maxNumOfPeriodicAndSemiPersistentSRSposResources-r17

 ENUMERATED {n1, n2, n4, n8, n16, n32, n64 }

 OPTIONAL,

 maxNumOfPeriodicAndSemiPersistentSRSposResourcesPerSlot-r17

 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

 OPTIONAL,

 maxNumOfPeriodicSRSposResources-r17

 ENUMERATED {n1, n2, n4, n8, n16, n32, n64 }

 OPTIONAL,

 maxNumOfPeriodicSRSposResourcesPerSlot-r17

 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

 OPTIONAL,

 dummy1 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 dummy2 ENUMERATED { n1, n2, n3, n4, n5, n6, n8, n10, n12, n14 }

 OPTIONAL,

 ...

}

PosSRS-RRC-Inactive-OutsideInitialUL-BWP-r17 ::= SEQUENCE {

 maxSRSposBandwidthForEachSCS-withinCC-FR1-r17

 ENUMERATED { mhz5, mhz10, mhz15, mhz20, mhz25, mhz30,
 mhz35, mhz40, mhz45, mhz50, mhz60, mhz70,

 mhz80, mhz90, mhz100 } OPTIONAL,

 maxSRSposBandwidthForEachSCS-withinCC-FR2-r17

 ENUMERATED {mhz50, mhz100, mhz200, mhz400} OPTIONAL,

 maxNumOfSRSposResourceSets-r17 ENUMERATED { n1, n2, n4, n8, n12, n16 } OPTIONAL,

 maxNumOfPeriodicSRSposResources-r17 ENUMERATED { n1, n2, n4, n8, n16, n32, n64 }

 OPTIONAL,

 maxNumOfPeriodicSRSposResourcesPerSlot-r17

 ENUMERATED { n1, n2, n3, n4, n5, n6, n8, n10, n12, n14 }

 OPTIONAL,

 differentNumerologyBetweenSRSposAndInitialBWP-r17

 ENUMERATED { supported } OPTIONAL,

 srsPosWithoutRestrictionOnBWP-r17

 ENUMERATED { supported } OPTIONAL,

 maxNumOfPeriodicAndSemiPersistentSRSposResources-r17

 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maxNumOfPeriodicAndSemiPersistentSRSposResourcesPerSlot-r17

 ENUMERATED { n1, n2, n3, n4, n5, n6, n8, n10,

 n12, n14 } OPTIONAL,

 differentCenterFreqBetweenSRSposAndInitialBWP-r17

 ENUMERATED { supported } OPTIONAL,

 maxNumOfSemiPersistentSRSposResources-r17

 ENUMERATED { n1, n2, n4, n8, n16, n32, n64 }

 OPTIONAL,

 maxNumOfSemiPersistentSRSposResourcesPerSlot-r17

 ENUMERATED { n1, n2, n3, n4, n5, n6, n8, n10,

 n12, n14 } OPTIONAL,

 switchingTimeSRS-TX-OtherTX-r17 ENUMERATED { us100, us140, us200, us300, us500 }

 OPTIONAL,

 ...

}

PosSRS-SP-RRC-Inactive-InInitialUL-BWP-r17 ::= SEQUENCE {

 maxNumOfSemiPersistentSRSposResources-r17

 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maxNumOfSemiPersistentSRSposResourcesPerSlot-r17

 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

 OPTIONAL,

 ...

}

PosSRS-TxFrequencyHoppingRRC-Connected-r18 ::=SEQUENCE {

 maximumSRS-BandwidthAcrossAllHopsFR1-r18 ENUMERATED {mhz40, mhz50, mhz80, mhz100}

 OPTIONAL,

 maximumSRS-BandwidthAcrossAllHopsFR2-r18 ENUMERATED {mhz100, mhz200, mhz400} OPTIONAL,

 maximumTxFH-Hops-r18 ENUMERATED {n2, n3, n4, n5, n6} OPTIONAL,

 rf-TxRetunTimeFR1-r18 ENUMERATED {n70, n140, n210} OPTIONAL,

 rf-TxRetunTimeFR2-r18 ENUMERATED {n35, n70, n140} OPTIONAL,

 switchTimeBetweenActiveBWP-FrequencyHop-r18 ENUMERATED {n100, n140,n200,n300,n500} OPTIONAL,

 numOfOverlappingPRB-r18 ENUMERATED {n0, n1, n2, n4} OPTIONAL,

 maximumSRS-ResourcePeriodic-r18 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumSRS-ResourceAperiodic-r18 ENUMERATED {n0,n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumSRS-ResourceSemipersistent-r18 ENUMERATED {n0,n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 ...

}

PosSRS-TxFrequencyHoppingRRC-Inactive-r18 ::=SEQUENCE {

 maximumSRS-BandwidthAcrossAllHopsFR1-r18 ENUMERATED {mhz40, mhz50, mhz80, mhz100}

 OPTIONAL,

 maximumSRS-BandwidthAcrossAllHopsFR2-r18 ENUMERATED {mhz100, mhz200, mhz400} OPTIONAL,

 maximumTxFH-Hops-r18 ENUMERATED {n2, n3, n4, n5, n6} OPTIONAL,

 rf-TxRetunTimeFR1-r18 ENUMERATED {n70, n140, n210} OPTIONAL,

 rf-TxRetunTimeFR2-r18 ENUMERATED {n35, n70, n140} OPTIONAL,

 switchTimeBetweenActiveBWP-FrequencyHop-r18 ENUMERATED {n100, n140,n200,n300,n500} OPTIONAL,

 numOfOverlappingPRB-r18 ENUMERATED {n0, n1, n2, n4} OPTIONAL,

 maximumSRS-ResourcePeriodic-r18 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumSRS-ResourceSemipersistent-r18 ENUMERATED {n0,n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 ...

}

PosSRS-BWA-RRC-Connected-r18 ::=SEQUENCE {

 numOfCarriersIntraBandContiguous-r18 ENUMERATED {two, three, twoandthree} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR1-r18 ENUMERATED {mhz20, mhz40, mhz50, mhz80, mhz100, mhz160, mhz180, mhz190, mhz200} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz400, mhz600, mhz800} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR1-r18 ENUMERATED {mhz80, mhz100, mhz160, mhz200, mhz240, mhz300} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz300, mhz400, mhz600, mhz800, mhz1000, mhz1200} OPTIONAL,

 maximumAggregatedResourceSet-r18 ENUMERATED {n1, n2, n4, n8, n12, n16} OPTIONAL,

 maximumAggregatedResourcePeriodic-r18 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumAggregatedResourceAperiodic-r18 ENUMERATED {n0, n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumAggregatedResourceSemi-r18 ENUMERATED {n0, n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 maximumAggregatedResourcePeriodicPerSlot-r18 ENUMERATED {n1, n2, n3, n4, n5, n6,

 n8, n10, n12, n14} OPTIONAL,

 maximumAggregatedResourceAperiodicPerSlot-r18 ENUMERATED {n0, n1, n2, n3, n4,

 n5, n6, n8, n10, n12, n14} OPTIONAL, maximumAggregatedResourceSemiPerSlot-r18 ENUMERATED {n0, n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL,

 supportOfSameSRS-PowerReduction-r18 ENUMERATED {supported} OPTIONAL,

...

}

PosSRS-BWA-IndependentCA-RRC-Connected-r18 ::=SEQUENCE {

 numOfCarriersIntraBandContiguous-r18 ENUMERATED {two, three, twoandthree} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR1-r18 ENUMERATED {mhz20, mhz40, mhz50, mhz80, mhz100, mhz160, mhz180, mhz190, mhz200} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz400, mhz600, mhz800} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR1-r18 ENUMERATED {mhz80, mhz100, mhz160, mhz200, mhz240, mhz300} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz300, mhz400, mhz600, mhz800, mhz1000, mhz1200} OPTIONAL,

 maximumAggregatedResourceSet-r18 ENUMERATED {n1, n2, n4, n8, n12, n16} OPTIONAL,

 maximumAggregatedResourcePeriodic-r18 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumAggregatedResourceAperiodic-r18 ENUMERATED {n0, n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumAggregatedResourceSemi-r18 ENUMERATED {n0, n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 maximumAggregatedResourcePeriodicPerSlot-r18 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL,

 maximumAggregatedResourceAperiodicPerSlot-r18 ENUMERATED {n0, n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL, maximumAggregatedResourceSemiPerSlot-r18 ENUMERATED {n0, n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL,

 supportOfSameSRS-PowerReduction-r18 ENUMERATED {supported} OPTIONAL,

 guardPeriod-r18 ENUMERATED {n0, n30, n100, n140, n200} OPTIONAL,

 powerClassForTwoAggregatedCarriers-r18 ENUMERATED {pc2, pc3} OPTIONAL,

 powerClassForThreeAggregatedCarriers-r18 ENUMERATED {pc2, pc3} OPTIONAL,

...

}

PosSRS-BWA-RRC-Inactive-r18 ::=SEQUENCE {

 numOfCarriersIntraBandContiguous-r18 ENUMERATED {two, three, twoandthree} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR1-r18 ENUMERATED {mhz20, mhz40, mhz50, mhz80, mhz100, mhz160, mhz180, mhz190, mhz200} OPTIONAL,

 maximumAggregatedBW-TwoCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz400, mhz600, mhz800} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR1-r18 ENUMERATED {mhz80, mhz100, mhz160, mhz200, mhz240, mhz300} OPTIONAL,

 maximumAggregatedBW-ThreeCarriersFR2-r18 ENUMERATED {mhz50, mhz100, mhz200, mhz300, mhz400, mhz600, mhz800, mhz1000, mhz1200} OPTIONAL,

 maximumAggregatedResourceSet-r18 ENUMERATED {n1, n2, n4, n8, n12, n16} OPTIONAL,

 maximumAggregatedResourcePeriodic-r18 ENUMERATED {n1, n2, n4, n8, n16, n32, n64} OPTIONAL,

 maximumAggregatedResourceSemi-r18 ENUMERATED {n0, n1, n2, n4, n8, n16, n32, n64}

 OPTIONAL,

 maximumAggregatedResourcePeriodicPerSlot-r18 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL,

 maximumAggregatedResourceSemiPerSlot-r18 ENUMERATED {n0, n1, n2, n3, n4, n5, n6, n8, n10, n12, n14} OPTIONAL,

 supportOfSameSRS-PowerReduction-r18 ENUMERATED {supported} OPTIONAL,

 guardPeriod-r18 ENUMERATED {n0, n30, n100, n140, n200} OPTIONAL,

 powerClassForTwoAggregatedCarriers-r18 ENUMERATED {pc2, pc3} OPTIONAL,

 powerClassForThreeAggregatedCarriers-r18 ENUMERATED {pc2, pc3} OPTIONAL,

...

}

-- ASN1STOP

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| --- |
| *NR-UL-SRS-Capability* field descriptions |
| ***srs-PosResourceConfigCA-BandList***This field indicates the number of SRS for positioning resources supported by the target device. The target device includes this field for each band which belongs to the *srs-CapabilityBandList* for the current configured CA band combination. The capability signalling comprises the following parameters:- ***freqBandIndicatorNR***indicates the current configured NR band of the target device.- ***maxNumberSRS-PosResourceSetsPerBWP***indicates the maximum number of SRS Resource Sets for positioning supported by the target device per BWP. Enumerated values *n1*, *n2*, *n4*, *n8*, *n12*, *n16* correspond to 1, 2, 4, 8, 12, 16 SRS Resource Sets for positioning, respectively.- ***maxNumberSRS-PosResourcesPerBWP***indicates the maximum number of periodic, semi-persistent, and aperiodic SRS Resources for positioning supported by the target device per BWP. Enumerated values *n1, n2, n4, n8, n16, n32, n64* correspond to 1, 2, 4, 8, 16, 32, 64 SRS Resources for positioning, respectively.- ***maxNumberPeriodicSRS-PosResourcesPerBWP***indicates the maximum number of periodic SRS Resources for positioning supported by the target device per BWP. Enumerated values *n1, n2, n4, n8, n16, n32, n64* correspond to 1, 2, 4, 8, 16, 32, 64 periodic SRS Resources for positioning, respectively.- ***maxNumberAP-SRS-PosResourcesPerBWP***indicates the maximum number of aperiodic SRS Resources for positioning supported by the target device per BWP. Enumerated values *n1, n2, n4, n8, n16, n32, n64* correspond to 1, 2, 4, 8, 16, 32, 64 aperiodic SRS Resources for positioning, respectively.- ***maxNumberSP-SRS-PosResourcesPerBWP***indicates the maximum number of semi-persistent SRS Resources for positioning supported by the target device per BWP. Enumerated values *n1, n2, n4, n8, n16, n32, n64* correspond to 1, 2, 4, 8, 16, 32, 64 semi-persistent SRS Resources for positioning, respectively. |
| ***maxNumberSRS-PosPathLossEstimateAllServingCells***Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of *olpc-SRS-PosBasedOnPRS-Serving, olpc-SRS-PosBasedOnSSB-Neigh* and *olpc-SRS-PosBasedOnPRS-Neigh.* Otherwise, the UE does not include this field. |
| ***maxNumberSRS-PosSpatialRelationsAllServingCells***indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of *spatialRelation-SRS-PosBasedOnSSB-Serving*, *spatialRelation-SRS-PosBasedOnCSI-RS-Serving*, *spatialRelation-SRS-PosBasedOnPRS-Serving*, *spatialRelation-SRS-PosBasedOnSSB-Neigh* or *spatialRelation-SRS-PosBasedOnPRS-Neigh*. Otherwise, the UE does not include this field. |
| ***olpc-SRS-Pos***Indicates whether the UE supports open-loop power control for SRS for positioning. The capability signalling comprises the following parameters:- ***olpc-SRS-PosBasedOnPRS-Serving***indicates whether the UE supports OLPC for SRS for positioning based on DL-PRS from the serving cell in the same band. The UE can include this field only if the UE supports NR-DL-*PRS-ProcessingCapability* and *srs-PosResources* TS38.331 [35] Otherwise, the UE does not include this field.- ***olpc-SRS-PosBasedOnSSB-Neigh***indicates whether the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports *srs-PosResources* TS 38.331 [35]. Otherwise, the UE does not include this field.- ***olpc-SRS-PosBasedOnPRS-Neigh***indicates whether the UE supports OLPC for SRS for positioning based on DL-PRS from the neighbouring cell in the same band. The UE can include this field only if the UE supports *olpc-SRS-PosBasedOnPRS-Serving*. Otherwise, the UE does not include this field.Note: A DL-PRS from a PRS-only TP is treated as DL-PRS from a non-serving cell.- ***maxNumberPathLossEstimatePerServing***indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning per serving cell in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of *olpc-SRS-PosBasedOnPRS-Serving, olpc-SRS-PosBasedOnSSB-Neigh* and *olpc-SRS-PosBasedOnPRS-Neigh.* Otherwise, the UE does not include this field. |
| ***spatialRelationsSRS-Pos***Indicates whether the UE supports spatial relations for SRS for positioning. It is only applicable for FR2. The capability signalling comprises the following parameters:- ***spatialRelation-SRS-PosBasedOnSSB-Serving*** indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the serving cell in the same band. The UE can include this field only if the UE supports *srs-PosResources* TS 38.331 [35]. Otherwise, the UE does not include this field.- ***spatialRelation-SRS-PosBasedOnCSI-RS-Serving*** indicates whether the UE supports spatial relation for SRS for positioning based on CSI-RS from the serving cell in the same band. The UE can include this field only if the UE supports *spatialRelation-SRS-PosBasedOnSSB-Serving*. Otherwise, the UE does not include this field.- ***spatialRelation-SRS-PosBasedOnPRS-Serving***indicates whether the UE supports spatial relation for SRS for positioning based on DL-PRS from the serving cell in the same band. The UE can include this field only if the UE supports any of DL-PRS Resources for DL-AoD, DL-PRS Resources for DL-TDOA or DL-PRS Resources for Multi-RTT, or *srs-PosResources* TS 38.331 [35]. Otherwise, the UE does not include this field.- ***spatialRelation-SRS-PosBasedOnSRS***indicates whether the UE supports spatial relation for SRS for positioning based on SRS in the same band. The UE can include this field only if the UE supports *srs-PosResources* TS 38.331 [35]. Otherwise, the UE does not include this field.- ***spatialRelation-SRS-PosBasedOnSSB-Neig****h* indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports *spatialRelation-SRS-PosBasedOnSSB-Serving*. Otherwise, the UE does not include this field.- ***spatialRelation-SRS-PosBasedOnPRS-Neigh***indicates whether the UE supports spatial relation for SRS for positioning based on DL-PRS from the neighbouring cell in the same band. The UE can include this field only if the UE supports *spatialRelation-SRS-PosBasedOnPRS-Serving*. Otherwise, the UE does not include this field.Note: A DL-PRS from a PRS-only TP is treated as DL-PRS from a non-serving cell. |
| ***posSRS-RRC-Inactive-InInitialUL-BWP***Indicates whether the UE supports positioning SRS transmission in RRC\_INACTIVE state for initial UL BWP. The capability signalling comprises the following parameters:- ***maxNumOfSRSposResourceSets*** indicates the maximum number of SRS Resource Sets for positioning supported by the UE.- ***maxNumOfPeriodicAndSemiPersistentSRSposResources*** indicates the maximum number of periodic and semi-persistent SRS Resources for positioning supported by the UE.- ***maxNumOfPeriodicAndSemiPersistentSRSposResourcesPerSlot***indicates the maximum number of periodic and semi-persistent SRS Resources for positioning per slot supported by the UE.- ***maxNumOfPeriodicSRSposResources***indicates the maximum number of periodic SRS Resources for positioning supported by the UE.- ***maxNumOfPeriodicSRSposResourcesPerSlot***indicates the maximum number of periodic SRS Resources for positioning per slot supported by the UE.- ***dummy1, dummy2***are not used in the specification. If received they shall be ignored by the receiver. |
| ***posSRS-RRC-Inactive-OutsideInitialUL-BWP***Indicates whether the UE supports positioning SRS transmission in RRC\_INACTIVE state outside initial UL BWP. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***maxSRSposBandwidthForEachSCS-withinCC-FR1*** indicates the maximum SRS bandwidth in MHz supported for each SCS that UE supports within a single CC for FR1.- ***maxSRSposBandwidthForEachSCS-withinCC-FR2*** indicates the maximum SRS bandwidth in MHz supported for each SCS that UE supports within a single CC for FR2.- ***maxNumOfSRSposResourceSets*** indicates the maximum number of SRS Resource Sets for positioning supported by the UE.- ***maxNumOfPeriodicSRSposResources***indicates the maximum number of periodic SRS Resources for positioning supported by the UE.- ***maxNumOfPeriodicSRSposResourcesPerSlot***indicates the maximum number of periodic SRS Resources for positioning per slot supported by the UE.- ***differentNumerologyBetweenSRSposAndInitialBWP***indicates whether different numerology between the SRS and the initial UL BWP is supported by the UE. If the field is absent, the UE only supports same numerology between the SRS and the initial UL BWP.- ***srsPosWithoutRestrictionOnBWP*** indicates whether SRS operation without restriction on the BW is supported by the UE; BW of the SRS may not include BW of the CORESET#0 and SSB. If the field is absent, the UE supports only SRS BW that includes the BW of the CORESET #0 and SSB.- ***maxNumOfPeriodicAndSemiPersistentSRSposResources*** indicates the maximum number of periodic and semi-persistent SRS Resources for positioning supported by the UE.- ***maxNumOfPeriodicAndSemiPersistentSRSposResourcesPerSlot*** indicates the maximum number of periodic and semi-persistent SRS Resources for positioning per slot supported by the UE.- ***differentCenterFreqBetweenSRSposAndInitialBWP*** indicates whether different center frequency between the SRS for positioning and the initial UL BWP is supported by the UE. If the field is absent, the UE only supports same center frequency between the SRS for positioning and initial UL BWP.- ***maxNumOfSemiPersistentSRSposResources***indicates the maximum number of semi-persistent SRS Resources for positioning supported by the UE. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field.- ***maxNumOfSemiPersistentSRSposResourcesPerSlot***indicates the maximum number of semi-persistent SRS Resources for positioning per slot supported by the UE. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field.- ***switchingTimeSRS-TX-OtherTX*** indicates the switching time between SRS Tx and other Tx in initial UL BWP or Rx in initial DL BWP. |
| ***olpc-SRS-PosRRC-Inactive***Indicates whether the UE supports open-loop power control for SRS for positioning in RRC\_INACTIVE state. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field. |
| ***spatialRelationsSRS-PosRRC-Inactive***Indicates whether the UE supports spatial relations for SRS for positioning in RRC\_INACTIVE state on FR2. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field. |
| ***posSRS-SP-RRC-Inactive-InInitialUL-BWP***Indicates whether the UE supports positioning SRS transmission in RRC\_INACTIVE state for initial UL BWP with semi-persistent SRS. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***maxNumOfSemiPersistentSRSposResources*** indicates the maximum number of semi-persistent SRS Resources for positioning supported by the UE.- ***maxNumOfSemiPersistentSRSposResourcesPerSlot*** indicates the maximum number of semi-persistent SRS Resources for positioning per slot supported by the UE. |
| ***posSRS-Preconfigured-RRC-InactiveInitialUL-BWP***Indicates whether the UE supports pre-configured SRS with validity area in RRC\_INACTIVE for initial BWP. The UE can include this field only if the UE supports *posSRS-ValidityAreaRRC-InactiveInitialUL-BWP*. Otherwise, the UE does not include this field. |
| ***posSRS-Preconfigured-RRC-InactiveOutsideInitialUL-BWP***Indicates whether the UE supports pre-configured SRS with validity area in RRC\_INACTIVE outside initial BWP. The UE can include this field only if the UE supports *posSRS-ValidityAreaRRC-InactiveOutsideInitialUL-BWP*. Otherwise, the UE does not include this field. |
| ***posSRS-ValidityAreaRRC-InactiveInitialUL-BWP***Indicates whether the UE supports SRS for positioning configuration in multi cells in RRC\_INACTIVE for initial BWP. The UE can include this field only if the UE support *posSRS-RRC-Inactive-InInitialUL-BWP*. Otherwise, the UE does not include this field. |
| ***posSRS-ValidityAreaRRC-InactiveOutsideInitialUL-BWP***Indicates whether the UE supports SRS for positioning configuration in multi cells in RRC\_INACTIVE outside initial BWP. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-OutsideInitialUL-BWP* and *posSRS-ValidityAreaRRC-InactiveInitialUL-BWP****.*** Otherwise, the UE does not include this field. |
| ***posSRS-TxFH-RRC-Connected***Indicates the UE capability for support of positioning SRS with Tx frequency hopping in RRC\_CONNECTED for RedCap UEs. The UE can include this field only if the UE supports *SRS-AllPosResources* and one of *supportOfRedCap* and *supportOfERedCap* defined in TS 38.331 [35]. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***maximumSRS-BandwidthAcrossAllHopsFR1***: Indicates the maximum positioning SRS bandwidth across all hops in MHz for FR1, which is supported and reported by UE.- ***maximumSRS-BandwidthAcrossAllHopsFR2***: Indicates the maximum positioning SRS bandwidth across all hops in MHz for FR2, which is supported and reported by UE.- ***maximumTxFH-Hops***: Indicates the maximum number of transmission hops, which is supported and reported by UE.- ***rf-TxRetunTimeFR1***: Indicates the RF Tx retune times between consecutive hops for FR1. Enumerated values indicate 70, 140, 210us.- ***rf-TxRetunTimeFR2***: Indicates the RF Tx retune times between consecutive hops for FR2. Enumerated values indicate 35, 70, 140us.- ***switchTimeBetweenActiveBWP-FrequencyHop***: Indicates the switching time between active BWP and frequency hop. Enumerated values indicate 100, 140, 200, 300, 500µs.- ***numOverlappingPRB***: Indicates the overlapping PRB(s) between adjacent hops. Enumerated values indicate 0,1,2,4 PRBs.- ***maximumSRS-ResourcePeriodic***: Indicates the maximum number of periodic positioning SRS resources with Tx frequency hopping.- ***maximumSRS-ResourceAperiodic***: Indicates the maximum number of aperiodic positioning SRS resources with Tx frequency hopping.- ***maximumSRS-ResourceSemipersistent***: Indicates the maximum number of Semi-persistent positioning SRS resources with Tx frequency hopping.NOTE 1: No additional UE requirements shall be specified for the case of Tx hopping with non-overlapping hops compared to the case of Tx hopping with overlapping hops, e.g., a UE is not responsible for keeping phase continuity across the hops in either case of overlapping or non-overlapping hops. |
| ***posSRS-TxFH-RRC-Inactive***Indicates the UE capability for support of positioning SRS with Tx frequency hopping in RRC\_INACTIVE for RedCap UEs. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-OutsideInitialUL* and one of *supportOfRedCap* and *supportOfERedCap* defined in TS 38.331 [35]. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***maximumSRS-BandwidthAcrossAllHopsFR1***: Indicates the maximum positioning SRS bandwidth across all hops in MHz for FR1, which is supported and reported by UE.- ***maximumSRS-BandwidthAcrossAllHopsFR2***: Indicates the maximum positioning SRS bandwidth across all hops in MHz for FR2, which is supported and reported by UE.- ***maximumTxFH-Hops***: Indicates the maximum number of transmission hops, which is supported and reported by UE.- ***rf-TxRetunTimeFR1***: Indicates the RF Tx retune times between consecutive hops for FR1. Enumerated values indicate 70, 140, 210µs.- ***rf-TxRetunTimeFR2***: Indicates the RF Tx retune times between consecutive hops for FR2. Enumerated values indicate 35, 70, 140µs.- ***switchTimeBetweenActiveBWP-FrequencyHop***: Indicates the switching time between active BWP and frequency hop. Enumerated values indicate 100, 140, 200, 300, 500µs.- ***numOfOverlappingPRB***: Indicates the overlapping PRB(s) between adjacent hops. Enumerated values indicate 0,1,2,4 PRBs.- ***maximumSRS-ResourcePeriodic*** indicates the maximum number of periodic positioning SRS resources with Tx frequency hopping.- ***maximumSRS-ResourceSemipersistent*** indicates the maximum number of Semi-persistent positioning SRS resources with Tx frequency hopping.NOTE 2: No additional UE requirements shall be specified for the case of Tx hopping with non-overlapping hops compared to the case of Tx hopping with overlapping hops, e.g., a UE is not responsible for keeping phase continuity across the hops in either case of overlapping or non-overlapping hops. |
| ***posSRS-TxFH-WithTimeWindow***Indicates the UE capability for support of UL time window and transmission of SRS for positioning with Tx Frequency hopping within the window. The UE can include this field only if the UE supports *posSRS-TxFH-RRC-Connected*. Otherwise, the UE does not include this field. |
| ***posSRS-BWA-RRC-Connected***Indicates the UE capability for support of positioning SRS bandwidth aggregation in RRC\_CONNECTED. The UE can include this field only if the UE supports *SRS-AllPosResources and supportedBandCombinationList* defined in TS 38.331 [35]. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***numOfCarriersIntraBandContiguous***: Indicates the number of supported aggregated carriers in intra band contiguous carriers, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedResourceSet***: Indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodic***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourceAperiodic***: Indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourceSemi***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodicPerSlot***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***maximumAggregatedResourceAperiodicPerSlot***: Indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***maximumAggregatedResourceSemiPerSlot***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***supportOfSameSRS-PowerReduction***: Indicates the support of the same SRS power reduction across aggregated carriers, which is supported and reported by UE.NOTE 3: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.NOTE 4: Each two or three linked SRS resources are counted as 1 resourceNOTE 5: A UE that support *SRS-PosResourceAP* defined in TS 38.331 [35] must signal a non-zero value for *maximumAggregatedResourceAperiodic* and *maximumAggregatedResourceAperiodicPerSlot*;NOTE 6: UE only reports the number on bands for the current configured CA band combination.NOTE 7: For *numOfCarriersIntraBandContiguous*, it shall be less than or equal to the maximum number of the component carrier associated with *ca-BandwidthClassUL-NR* in TS38.331 [35].NOTE 8: For maximum aggregated UL SRS bandwidth, it shall be less than or equal to the maximum aggregated transmission bandwidth associated with *ca-BandwidthClassUL-NR* in TS38.331 [35]. Additionally, it shall be less than or equal to the maximum aggregated bandwidth for the supported CA configuration in Table 5.5A.1-1 in TS 38.101-1 [37] for FR1 bands or Table 5.5A.1-1 in TS 38.101-2 [34] for FR2 bands for the band where aggregated SRS CCs is configured. |
| ***posSRS-BWA-IndependentCA-RRC-Connected***Indicates the UE capability for support of positioning SRS bandwidth aggregation independent from UL communication CA in RRC\_CONNECTED. The UE can include this field only if the UE supports *SRS-AllPosResources* defined in TS 38.331 [35]. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***numOfCarriersIntraBandContiguous***: Indicates the number of supported aggregated carriers in intra band contiguous carriers, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedResourceSet***: Indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodic***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourceAperiodic***: Indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourceSemi***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodicPerSlot***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***maximumAggregatedResourceAperiodicPerSlot***: Indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***maximumAggregatedResourceSemiPerSlot***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***supportOfSameSRS-PowerReduction***: Indicates the support of the same SRS power reduction across aggregated carriers, which is supported and reported by UE.- ***guardPeriod***: Indicates the guard period in microseconds before and after aggregated SRS transmission.- ***powerClassForTwoAggregatedCarriers***: Indicates the power class of supported two aggregated carriers in intra band contiguous carries.- ***powerClassForThreeAggregatedCarriers***: Indicates the power class of supported three aggregated carriers in intra band contiguous carries.NOTE 9: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.NOTE 10: Each two or three linked SRS resources are counted as 1 resourceNOTE 11: UE only reports the number on bands for the current configured CA band combination.NOTE 12: Guard period is needed before and after the aggregated SRS transmissions when SRS resource is configured within a CC without PUSCH/PUCCH is linked for aggregation with an SRS resource configured within an UL active BWP of a UL communication CC.NOTE 13: For a given band, independent of the band combination, the UE must signal the same guard period.NOTE 14: The power class is only applicable for FR1 bands. |
| ***posSRS-BWA-RRC-Inactive***Indicates the UE capability for support of positioning SRS bandwidth aggregation in RRC\_INACTIVE. The UE can include this field only if the UE supports *posSRS-RRC-Inactive-OutsideInitialUL-BWP*. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:- ***numOfCarriersIntraBandContiguous***: Indicates the number of supported aggregated carriers in intra band contiguous carriers, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-TwoCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR1***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE.- ***maximumAggregatedBW-ThreeCarriersFR2***: Indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE.- ***maximumAggregatedResourceSet***: Indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodic***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourceSemi***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE.- ***maximumAggregatedResourcePeriodicPerSlot***: Indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***maximumAggregatedResourceSemiPerSlot***: Indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE.- ***supportOfSameSRS-PowerReduction***: Indicates the support of the same SRS power reduction across aggregated carriers, which is supported and reported by UE.- ***guardPeriod*:** Indicates the guard period in microseconds before and after aggregated SRS transmission.- ***powerClassForTwoAggregatedCarriers***: Indicates the power class of supported two aggregated carriers in intra band contiguous carries.- ***powerClassForThreeAggregatedCarriers***: Indicates the power class of supported three aggregated carriers in intra band contiguous carries.NOTE 15: The power class is only applicable for FR1 bands. |

End of the change