**3GPP TSG-RAN WG2 Meeting #119-e *R2-220xxxx***

**Electronic Meeting, 1-12 Nov. 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **.331** | **CR** | 3219 | **rev** | **1** | **Current version:** | 17.10.0 |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | UE capability on DC location for more than 2 UL CCs | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | O | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_RF\_FR2\_req\_enh2 | | | | |  | ***Date:*** | | | 2022-08-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Introduction UE capability on DC locations for more than 2CCs | | | | | | | | |
|  | |  | | | | | | | | |
| Summary of change: | | Add UE capability on DC locations for more than 2 CCs  Impacted 5G architecture options:  NR SA, NR-DC, (NG)EN-DC, NE-DC  Impacted functionality:  DC location report  Inter-operability:  There is no inter-operability issue | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No support of UE capability on DC locations report for more than 2CCs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

#### – *FeatureSets*

The IE *FeatureSets* is used to provide pools of downlink and uplink features sets. A *FeatureSetCombination* refers to the IDs of the feature set(s) that the UE supports in that *FeatureSetCombination*. The *BandCombination* entries in the *BandCombinationList* then indicate the ID of the *FeatureSetCombination* that the UE supports for that band combination.

The entries in the lists in this IE are identified by their index position. For example, the *FeatureSetUplinkPerCC-Id* = 4 identifies the 4th element in the *featureSetsUplinkPerCC* list.

NOTE: When feature sets (per CC) IEs require extension in future versions of the specification, new versions of the *FeatureSetDownlink*, *FeatureSetUplink*, *FeatureSets*, *FeatureSetDownlinkPerCC* and/or *FeatureSetUplinkPerCC* will be created and instantiated in corresponding new lists in the *FeatureSets* IE. For example, if new capability bits are to be added to the *FeatureSetDownlink*, they will instead be defined in a new *FeatureSetDownlink-rxy* which will be instantiated in a new *featureSetDownlinkList-rxy* list. If a UE indicates in a *FeatureSetCombination* that it supports the *FeatureSetDownlink* with ID #5, it implies that it supports both the features in *FeatureSetDownlink* #5 and *FeatureSetDownlink-rxy* #5 (if present). The number of entries in the new list(s) shall be the same as in the original list(s).

*FeatureSets* information element

-- ASN1START

-- TAG-FEATURESETS-START

FeatureSets ::= SEQUENCE {

featureSetsDownlink SEQUENCE (SIZE (1..maxDownlinkFeatureSets)) OF FeatureSetDownlink OPTIONAL,

featureSetsDownlinkPerCC SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetDownlinkPerCC OPTIONAL,

featureSetsUplink SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink OPTIONAL,

featureSetsUplinkPerCC SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetUplinkPerCC OPTIONAL,

...,

[[

featureSetsDownlink-v1540 SEQUENCE (SIZE (1..maxDownlinkFeatureSets)) OF FeatureSetDownlink-v1540 OPTIONAL,

featureSetsUplink-v1540 SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v1540 OPTIONAL,

featureSetsUplinkPerCC-v1540 SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetUplinkPerCC-v1540 OPTIONAL

]],

[[

featureSetsDownlink-v15a0 SEQUENCE (SIZE (1..maxDownlinkFeatureSets)) OF FeatureSetDownlink-v15a0 OPTIONAL

]],

[[

featureSetsDownlink-v1610 SEQUENCE (SIZE (1..maxDownlinkFeatureSets)) OF FeatureSetDownlink-v1610 OPTIONAL,

featureSetsUplink-v1610 SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v1610 OPTIONAL,

featureSetDownlinkPerCC-v1620 SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetDownlinkPerCC-v1620 OPTIONAL

]],

[[

featureSetsUplink-v1630 SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v1630 OPTIONAL

]],

[[

featureSetsUplink-v1640 SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v1640 OPTIONAL

]],

[[

featureSetsDownlink-v1700 SEQUENCE (SIZE (1..maxDownlinkFeatureSets)) OF FeatureSetDownlink-v1700 OPTIONAL,

featureSetsDownlinkPerCC-v1700 SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetDownlinkPerCC-v1700 OPTIONAL,

featureSetsUplink-v1710 SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v1710 OPTIONAL,

featureSetsUplinkPerCC-v1700 SEQUENCE (SIZE (1..maxPerCC-FeatureSets)) OF FeatureSetUplinkPerCC-v1700 OPTIONAL

]],

[[

featureSetsUplink-v17xy SEQUENCE (SIZE (1..maxUplinkFeatureSets)) OF FeatureSetUplink-v17xy OPTIONAL

]]

}

-- TAG-FEATURESETS-STOP

-- ASN1STOP

#### – *FeatureSetUplink*

The IE *FeatureSetUplink* is used to indicate the features that the UE supports on the carriers corresponding to one band entry in a band combination.

*FeatureSetUplink* information element

-- ASN1START

-- TAG-FEATURESETUPLINK-START

FeatureSetUplink ::= SEQUENCE {

featureSetListPerUplinkCC SEQUENCE (SIZE (1.. maxNrofServingCells)) OF FeatureSetUplinkPerCC-Id,

scalingFactor ENUMERATED {f0p4, f0p75, f0p8} OPTIONAL,

dummy3 ENUMERATED {supported} OPTIONAL,

intraBandFreqSeparationUL FreqSeparationClass OPTIONAL,

searchSpaceSharingCA-UL ENUMERATED {supported} OPTIONAL,

dummy1 DummyI OPTIONAL,

supportedSRS-Resources SRS-Resources OPTIONAL,

twoPUCCH-Group ENUMERATED {supported} OPTIONAL,

dynamicSwitchSUL ENUMERATED {supported} OPTIONAL,

simultaneousTxSUL-NonSUL ENUMERATED {supported} OPTIONAL,

pusch-ProcessingType1-DifferentTB-PerSlot SEQUENCE {

scs-15kHz ENUMERATED {upto2, upto4, upto7} OPTIONAL,

scs-30kHz ENUMERATED {upto2, upto4, upto7} OPTIONAL,

scs-60kHz ENUMERATED {upto2, upto4, upto7} OPTIONAL,

scs-120kHz ENUMERATED {upto2, upto4, upto7} OPTIONAL

} OPTIONAL,

dummy2 DummyF OPTIONAL

}

FeatureSetUplink-v1540 ::= SEQUENCE {

zeroSlotOffsetAperiodicSRS ENUMERATED {supported} OPTIONAL,

pa-PhaseDiscontinuityImpacts ENUMERATED {supported} OPTIONAL,

pusch-SeparationWithGap ENUMERATED {supported} OPTIONAL,

pusch-ProcessingType2 SEQUENCE {

scs-15kHz ProcessingParameters OPTIONAL,

scs-30kHz ProcessingParameters OPTIONAL,

scs-60kHz ProcessingParameters OPTIONAL

} OPTIONAL,

ul-MCS-TableAlt-DynamicIndication ENUMERATED {supported} OPTIONAL

}

FeatureSetUplink-v1610 ::= SEQUENCE {

-- R1 11-5: PUsCH repetition Type B

pusch-RepetitionTypeB-r16 SEQUENCE {

maxNumberPUSCH-Tx-r16 ENUMERATED {n2, n3, n4, n7, n8, n12},

hoppingScheme-r16 ENUMERATED {interSlotHopping, interRepetitionHopping, both}

} OPTIONAL,

-- R1 11-7: UL cancelation scheme for self-carrier

ul-CancellationSelfCarrier-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-7a: UL cancelation scheme for cross-carrier

ul-CancellationCrossCarrier-r16 ENUMERATED {supported} OPTIONAL,

-- R1 16-5c: The maximum number of SRS resources in one SRS resource set with usage set to 'codebook' for Mode 2

ul-FullPwrMode2-MaxSRS-ResInSet-r16 ENUMERATED {n1, n2, n4} OPTIONAL,

-- R1 22-4a/4b/4c/4d: CBG based transmission for UL with unicast PUSCH(s) per slot per CC with UE processing time Capability 1

cbgPUSCH-ProcessingType1-DifferentTB-PerSlot-r16 SEQUENCE {

scs-15kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-30kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-60kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-120kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL

} OPTIONAL,

-- R1 22-3a/3b/3c/3d: CBG based transmission for UL with unicast PUSCH(s) per slot per CC with UE processing time Capability 2

cbgPUSCH-ProcessingType2-DifferentTB-PerSlot-r16 SEQUENCE {

scs-15kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-30kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-60kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL,

scs-120kHz-r16 ENUMERATED {one-pusch, upto2, upto4, upto7} OPTIONAL

} OPTIONAL,

supportedSRS-PosResources-r16 SRS-AllPosResources-r16 OPTIONAL,

intraFreqDAPS-UL-r16 SEQUENCE {

dummy ENUMERATED {supported} OPTIONAL,

intraFreqTwoTAGs-DAPS-r16 ENUMERATED {supported} OPTIONAL,

dummy1 ENUMERATED {supported} OPTIONAL,

dummy2 ENUMERATED {supported} OPTIONAL,

dummy3 ENUMERATED {short, long} OPTIONAL

} OPTIONAL,

intraBandFreqSeparationUL-v1620 FreqSeparationClassUL-v1620 OPTIONAL,

-- R1 11-3: More than one PUCCH for HARQ-ACK transmission within a slot

multiPUCCH-r16 SEQUENCE {

sub-SlotConfig-NCP-r16 ENUMERATED {set1, set2} OPTIONAL,

sub-SlotConfig-ECP-r16 ENUMERATED {set1, set2} OPTIONAL

} OPTIONAL,

-- R1 11-3c: 2 PUCCH of format 0 or 2 for a single 7\*2-symbol subslot based HARQ-ACK codebook

twoPUCCH-Type1-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-3d: 2 PUCCH of format 0 or 2 for a single 2\*7-symbol subslot based HARQ-ACK codebook

twoPUCCH-Type2-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-3e: 1 PUCCH format 0 or 2 and 1 PUCCH format 1, 3 or 4 in the same subslot for a single 2\*7-symbol HARQ-ACK codebooks

twoPUCCH-Type3-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-3f: 2 PUCCH transmissions in the same subslot for a single 2\*7-symbol HARQ-ACK codebooks which are not covered by 11-3d and

-- 11-3e

twoPUCCH-Type4-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-3g: SR/HARQ-ACK multiplexing once per subslot using a PUCCH (or HARQ-ACK piggybacked on a PUSCH) when SR/HARQ-ACK

-- are supposed to be sent with different starting symbols in a subslot

mux-SR-HARQ-ACK-r16 ENUMERATED {supported} OPTIONAL,

dummy1 ENUMERATED {supported} OPTIONAL,

dummy2 ENUMERATED {supported} OPTIONAL,

-- R1 11-4c: 2 PUCCH of format 0 or 2 for two HARQ-ACK codebooks with one 7\*2-symbol sub-slot based HARQ-ACK codebook

twoPUCCH-Type5-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4d: 2 PUCCH of format 0 or 2 in consecutive symbols for two HARQ-ACK codebooks with one 2\*7-symbol sub-slot based HARQ-ACK

-- codebook

twoPUCCH-Type6-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4e: 2 PUCCH of format 0 or 2 for two subslot based HARQ-ACK codebooks

twoPUCCH-Type7-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4f: 1 PUCCH format 0 or 2 and 1 PUCCH format 1, 3 or 4 in the same subslot for HARQ-ACK codebooks with one 2\*7-symbol

-- subslot based HARQ-ACK codebook

twoPUCCH-Type8-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4g: 1 PUCCH format 0 or 2 and 1 PUCCH format 1, 3 or 4 in the same subslot for two subslot based HARQ-ACK codebooks

twoPUCCH-Type9-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4h: 2 PUCCH transmissions in the same subslot for two HARQ-ACK codebooks with one 2\*7-symbol subslot which are not covered

-- by 11-4c and 11-4e

twoPUCCH-Type10-r16 ENUMERATED {supported} OPTIONAL,

-- R1 11-4i: 2 PUCCH transmissions in the same subslot for two subslot based HARQ-ACK codebooks which are not covered by 11-4d and

-- 11-4f

twoPUCCH-Type11-r16 ENUMERATED {supported} OPTIONAL,

-- R1 12-1: UL intra-UE multiplexing/prioritization of overlapping channel/signals with two priority levels in physical layer

ul-IntraUE-Mux-r16 SEQUENCE {

pusch-PreparationLowPriority-r16 ENUMERATED {sym0, sym1, sym2},

pusch-PreparationHighPriority-r16 ENUMERATED {sym0, sym1, sym2}

} OPTIONAL,

-- R1 16-5a: Supported UL full power transmission mode of fullpower

ul-FullPwrMode-r16 ENUMERATED {supported} OPTIONAL,

-- R1 18-5d: Processing up to X unicast DCI scheduling for UL per scheduled CC

crossCarrierSchedulingProcessing-DiffSCS-r16 SEQUENCE {

scs-15kHz-120kHz-r16 ENUMERATED {n1,n2,n4} OPTIONAL,

scs-15kHz-60kHz-r16 ENUMERATED {n1,n2,n4} OPTIONAL,

scs-30kHz-120kHz-r16 ENUMERATED {n1,n2,n4} OPTIONAL,

scs-15kHz-30kHz-r16 ENUMERATED {n2} OPTIONAL,

scs-30kHz-60kHz-r16 ENUMERATED {n2} OPTIONAL,

scs-60kHz-120kHz-r16 ENUMERATED {n2} OPTIONAL

} OPTIONAL,

-- R1 16-5b: Supported UL full power transmission mode of fullpowerMode1

ul-FullPwrMode1-r16 ENUMERATED {supported} OPTIONAL,

-- R1 16-5c-2: Ports configuration for Mode 2

ul-FullPwrMode2-SRSConfig-diffNumSRSPorts-r16 ENUMERATED {p1-2, p1-4, p1-2-4} OPTIONAL,

-- R1 16-5c-3: TPMI group for Mode 2

ul-FullPwrMode2-TPMIGroup-r16 SEQUENCE {

twoPorts-r16 BIT STRING(SIZE(2)) OPTIONAL,

fourPortsNonCoherent-r16 ENUMERATED{g0, g1, g2, g3} OPTIONAL,

fourPortsPartialCoherent-r16 ENUMERATED{g0, g1, g2, g3, g4, g5, g6} OPTIONAL

} OPTIONAL

}

FeatureSetUplink-v1630 ::= SEQUENCE {

-- R1 22-8: For SRS for CB PUSCH and antenna switching on FR1 with symbol level offset for aperiodic SRS transmission

offsetSRS-CB-PUSCH-Ant-Switch-fr1-r16 ENUMERATED {supported} OPTIONAL,

-- R1 22-8a: PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot and constrained timeline for SRS for CB

-- PUSCH and antenna switching on FR1

offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16 ENUMERATED {supported} OPTIONAL,

-- R1 22-8b: For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS, monitoring occasion can be any OFDM symbol(s)

-- of a slot for Case 2 and constrained timeline for SRS for CB PUSCH and antenna switching on FR1

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 ENUMERATED {supported} OPTIONAL,

-- R1 22-8c: For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS, monitoring occasion can be any OFDM symbol(s)

-- of a slot for Case 2 with a DCI gap and constrained timeline for SRS for CB PUSCH and antenna switching on FR1

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 ENUMERATED {supported} OPTIONAL,

dummy ENUMERATED {supported} OPTIONAL,

-- R1 22-9: Cancellation of PUCCH, PUSCH or PRACH with a DCI scheduling a PDSCH or CSI-RS or a DCI format 2\_0 for SFI

partialCancellationPUCCH-PUSCH-PRACH-TX-r16 ENUMERATED {supported} OPTIONAL

}

FeatureSetUplink-v1640 ::= SEQUENCE {

-- R1 11-4: Two HARQ-ACK codebooks with up to one sub-slot based HARQ-ACK codebook (i.e. slot-based + slot-based, or slot-based +

-- sub-slot based) simultaneously constructed for supporting HARQ-ACK codebooks with different priorities at a UE

twoHARQ-ACK-Codebook-type1-r16 SubSlot-Config-r16 OPTIONAL,

-- R1 11-4a: Two sub-slot based HARQ-ACK codebooks simultaneously constructed for supporting HARQ-ACK codebooks with different

-- priorities at a UE

twoHARQ-ACK-Codebook-type2-r16 SubSlot-Config-r16 OPTIONAL,

-- R1 22-8d: All PDCCH monitoring occasion can be any OFDM symbol(s) of a slot for Case 2 with a span gap and constrained timeline

-- for SRS for CB PUSCH and antenna switching on FR1

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16 SEQUENCE {

scs-15kHz-r16 ENUMERATED {set1, set2, set3} OPTIONAL,

scs-30kHz-r16 ENUMERATED {set1, set2, set3} OPTIONAL,

scs-60kHz-r16 ENUMERATED {set1, set2, set3} OPTIONAL

} OPTIONAL

}

FeatureSetUplink-v1710 ::= SEQUENCE {

-- R1 23-3-1 Multi-TRP PUSCH repetition (type A) -codebook based

mTRP-PUSCH-TypeA-CB-r17 ENUMERATED {n1,n2,n4} OPTIONAL,

-- R1 23-3-1-2 Multi-TRP PUSCH repetition (type A) - non-codebook based

mTRP-PUSCH-RepetitionTypeA-r17 ENUMERATED {n1,n2,n3,n4} OPTIONAL,

-- R1 23-3-3 Multi-TRP PUCCH repetition-intra-slot

mTRP-PUCCH-IntraSlot-r17 ENUMERATED {pf0-2, pf1-3-4, pf0-4} OPTIONAL,

-- R1 23-8-4 Maximum 2 SP and 1 periodic SRS sets for antenna switching

srs-AntennaSwitching2SP-1Periodic-r17 ENUMERATED {supported} OPTIONAL,

-- R1 23-8-9 Extension of aperiodic SRS configuration for 1T4R, 1T2R and 2T4R

srs-ExtensionAperiodicSRS-r17 ENUMERATED {supported} OPTIONAL,

-- R1 23-8-10 1 aperiodic SRS resource set for 1T4R

srs-OneAP-SRS-r17 ENUMERATED {supported} OPTIONAL,

-- R4 16-8 UE power class per band per band combination

ue-PowerClassPerBandPerBC-r17 ENUMERATED {pc1dot5, pc2, pc3} OPTIONAL,

-- R4 17-8 UL transmission in FR2 bands within an UL gap when the UL gap is activated

tx-Support-UL-GapFR2-r17 ENUMERATED {supported} OPTIONAL

}

FeatureSetUplink-v17xy ::= SEQUENCE {

* R4 17-5 Support of UL DC location(s) report

extendedDC-LocationReport-r17 ENUMERATED {supported} OPTIONAL

}

SubSlot-Config-r16 ::= SEQUENCE {

sub-SlotConfig-NCP-r16 ENUMERATED {n4,n5,n6,n7} OPTIONAL,

sub-SlotConfig-ECP-r16 ENUMERATED {n4,n5,n6} OPTIONAL

}

SRS-AllPosResources-r16 ::= SEQUENCE {

srs-PosResources-r16 SRS-PosResources-r16,

srs-PosResourceAP-r16 SRS-PosResourceAP-r16 OPTIONAL,

srs-PosResourceSP-r16 SRS-PosResourceSP-r16 OPTIONAL

}

SRS-PosResources-r16 ::= SEQUENCE {

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

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

maxNumberSRS-ResourcesPerBWP-PerSlot-r16 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14},

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

maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r16 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

}

SRS-PosResourceAP-r16 ::= SEQUENCE {

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

maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

}

SRS-PosResourceSP-r16 ::= SEQUENCE {

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

maxNumberSP-SRS-PosResourcesPerBWP-PerSlot-r16 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10, n12, n14}

}

SRS-Resources ::= SEQUENCE {

maxNumberAperiodicSRS-PerBWP ENUMERATED {n1, n2, n4, n8, n16},

maxNumberAperiodicSRS-PerBWP-PerSlot INTEGER (1..6),

maxNumberPeriodicSRS-PerBWP ENUMERATED {n1, n2, n4, n8, n16},

maxNumberPeriodicSRS-PerBWP-PerSlot INTEGER (1..6),

maxNumberSemiPersistentSRS-PerBWP ENUMERATED {n1, n2, n4, n8, n16},

maxNumberSemiPersistentSRS-PerBWP-PerSlot INTEGER (1..6),

maxNumberSRS-Ports-PerResource ENUMERATED {n1, n2, n4}

}

DummyF ::= SEQUENCE {

maxNumberPeriodicCSI-ReportPerBWP INTEGER (1..4),

maxNumberAperiodicCSI-ReportPerBWP INTEGER (1..4),

maxNumberSemiPersistentCSI-ReportPerBWP INTEGER (0..4),

simultaneousCSI-ReportsAllCC INTEGER (5..32)

}

-- TAG-FEATURESETUPLINK-STOP

-- ASN1STOP