**3GPP TSG-RAN WG2 Meeting #113-eR2-210xxxx**

**eMeeting, 25th Jan – 5th Feb, 2021**

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| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **NNN** | **rev** | **-** | **Current version:** | **16.3.0** |  |
|  |
| *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:***  | Capability for dormant BWP switching of multiple SCells |
|  |  |
| ***Source to WG:*** | MediaTek Inc. |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | LTE\_NR\_DC\_CA\_enh-Core |  | ***Date:*** | 2021/01/25 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-16 |
|  | *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-12 (Release 12)Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | According to R4 feature table 6-3 in feature list R4-2103479, it is agreed to have new capability for dormant BWP switching of multiple SCells. The CR proposes to add the corresponding ASN.1 and field description. |
|  |  |
| ***Summary of change:*** | In 6.3.3, add ASN.1 define for *bwp-SwitchingMultiDormancyCCs* in IE *Phy-Parameters* to indicates the additional dormant BWP switching delay of multiple SCells.**Impact analysis:**Impacted 5G architecture options: Standalone, EN-DC, NGEN-DC, NE-DC, NR-DCImpacted functionality: Dormant BWP switching of multiple SCellsInter-operability:If the network is implemented according to this CR while the UE is not or vice versa, there may be additional unclear BWP switching delay if network trigger dormant BWP switching on multiple SCells simultaneously. |
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| ***Consequences if not approved:*** | There may be additional unclear BWP switching delay if network trigger dormant BWP switching on multiple SCells simultaneously. |
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| ***Clauses affected:*** | 6.3.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.306 CR xxxx  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

1st change

### 6.3.3 UE capability information elements

<Skip unrelated parts>

#### – *Phy-Parameters*

The IE *Phy-Parameters* is used to convey the physical layer capabilities.

*Phy-Parameters* information element

-- ASN1START

-- TAG-PHY-PARAMETERS-START

Phy-Parameters ::= SEQUENCE {

 phy-ParametersCommon Phy-ParametersCommon OPTIONAL,

 phy-ParametersXDD-Diff Phy-ParametersXDD-Diff OPTIONAL,

 phy-ParametersFRX-Diff Phy-ParametersFRX-Diff OPTIONAL,

 phy-ParametersFR1 Phy-ParametersFR1 OPTIONAL,

 phy-ParametersFR2 Phy-ParametersFR2 OPTIONAL

}

Phy-ParametersCommon ::= SEQUENCE {

 csi-RS-CFRA-ForHO ENUMERATED {supported} OPTIONAL,

 dynamicPRB-BundlingDL ENUMERATED {supported} OPTIONAL,

 sp-CSI-ReportPUCCH ENUMERATED {supported} OPTIONAL,

 sp-CSI-ReportPUSCH ENUMERATED {supported} OPTIONAL,

 nzp-CSI-RS-IntefMgmt ENUMERATED {supported} OPTIONAL,

 type2-SP-CSI-Feedback-LongPUCCH ENUMERATED {supported} OPTIONAL,

 precoderGranularityCORESET ENUMERATED {supported} OPTIONAL,

 dynamicHARQ-ACK-Codebook ENUMERATED {supported} OPTIONAL,

 semiStaticHARQ-ACK-Codebook ENUMERATED {supported} OPTIONAL,

 spatialBundlingHARQ-ACK ENUMERATED {supported} OPTIONAL,

 dynamicBetaOffsetInd-HARQ-ACK-CSI ENUMERATED {supported} OPTIONAL,

 pucch-Repetition-F1-3-4 ENUMERATED {supported} OPTIONAL,

 ra-Type0-PUSCH ENUMERATED {supported} OPTIONAL,

 dynamicSwitchRA-Type0-1-PDSCH ENUMERATED {supported} OPTIONAL,

 dynamicSwitchRA-Type0-1-PUSCH ENUMERATED {supported} OPTIONAL,

 pdsch-MappingTypeA ENUMERATED {supported} OPTIONAL,

 pdsch-MappingTypeB ENUMERATED {supported} OPTIONAL,

 interleavingVRB-ToPRB-PDSCH ENUMERATED {supported} OPTIONAL,

 interSlotFreqHopping-PUSCH ENUMERATED {supported} OPTIONAL,

 type1-PUSCH-RepetitionMultiSlots ENUMERATED {supported} OPTIONAL,

 type2-PUSCH-RepetitionMultiSlots ENUMERATED {supported} OPTIONAL,

 pusch-RepetitionMultiSlots ENUMERATED {supported} OPTIONAL,

 pdsch-RepetitionMultiSlots ENUMERATED {supported} OPTIONAL,

 downlinkSPS ENUMERATED {supported} OPTIONAL,

 configuredUL-GrantType1 ENUMERATED {supported} OPTIONAL,

 configuredUL-GrantType2 ENUMERATED {supported} OPTIONAL,

 pre-EmptIndication-DL ENUMERATED {supported} OPTIONAL,

 cbg-TransIndication-DL ENUMERATED {supported} OPTIONAL,

 cbg-TransIndication-UL ENUMERATED {supported} OPTIONAL,

 cbg-FlushIndication-DL ENUMERATED {supported} OPTIONAL,

 dynamicHARQ-ACK-CodeB-CBG-Retx-DL ENUMERATED {supported} OPTIONAL,

 rateMatchingResrcSetSemi-Static ENUMERATED {supported} OPTIONAL,

 rateMatchingResrcSetDynamic ENUMERATED {supported} OPTIONAL,

 bwp-SwitchingDelay ENUMERATED {type1, type2} OPTIONAL,

 ...,

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 dummy ENUMERATED {supported} OPTIONAL

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 maxNumberSearchSpaces ENUMERATED {n10} OPTIONAL,

 rateMatchingCtrlResrcSetDynamic ENUMERATED {supported} OPTIONAL,

 maxLayersMIMO-Indication ENUMERATED {supported} OPTIONAL

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 spCellPlacement CarrierAggregationVariant OPTIONAL

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 -- R1 9-1: Basic channel structure and procedure of 2-step RACH

 twoStepRACH-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-1: Monitoring DCI format 1\_2 and DCI format 0\_2

 dci-Format1-2And0-2-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-1a: Monitoring both DCI format 0\_1/1\_1 and DCI format 0\_2/1\_2 in the same search space

 monitoringDCI-SameSearchSpace-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-10: Type 2 configured grant release by DCI format 0\_1

 type2-CG-ReleaseDCI-0-1-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-11: Type 2 configured grant release by DCI format 0\_2

 type2-CG-ReleaseDCI-0-2-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 12-3: SPS release by DCI format 1\_1

 sps-ReleaseDCI-1-1-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 12-3a: SPS release by DCI format 1\_2

 sps-ReleaseDCI-1-2-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 14-8: CSI trigger states containing non-active BWP

 csi-TriggerStateNon-ActiveBWP-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-2: Support up to 4 SMTCs configured for an IAB node MT per frequency location, including IAB-specific SMTC window periodicities

 seperateSMTC-InterIAB-Support-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-3: Support RACH configuration separately from the RACH configuration for UE access, including new IAB-specific offset and scaling factors

 seperateRACH-IAB-Support-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-5a: Support semi-static configuration/indication of UL-Flexible-DL slot formats for IAB-MT resources

 ul-flexibleDL-SlotFormatSemiStatic-IAB-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-5b: Support dynamic indication of UL-Flexible-DL slot formats for IAB-MT resources

 ul-flexibleDL-SlotFormatDynamics-IAB-r16 ENUMERATED {supported} OPTIONAL,

 dft-S-OFDM-WaveformUL-IAB-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-6: Support DCI Format 2\_5 based indication of soft resource availability to an IAB node

 dci-25-AI-RNTI-Support-IAB-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-7: Support T\_delta reception.

 t-DeltaReceptionSupport-IAB-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 20-8: Support of Desired guard symbol reporting and provided guard symbok reception.

 guardSymbolReportReception-IAB-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 18-8 HARQ-ACK codebook type and spatial bundling per PUCCH group

 harqACK-CB-SpatialBundlingPUCCH-Group-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 19-2: Cross Slot Scheduling

 crossSlotScheduling-r16 SEQUENCE {

 non-SharedSpectrumChAccess-r16 ENUMERATED {supported} OPTIONAL,

 sharedSpectrumChAccess-r16 ENUMERATED {supported} OPTIONAL

 } OPTIONAL,

 maxNumberSRS-PosPathLossEstimateAllServingCells-r16 ENUMERATED {n1, n4, n8, n16} OPTIONAL,

 extendedCG-Periodicities-r16 ENUMERATED {supported} OPTIONAL,

 extendedSPS-Periodicities-r16 ENUMERATED {supported} OPTIONAL,

 codebookVariantsList-r16 CodebookVariantsList-r16 OPTIONAL,

 -- R1 11-6: PUSCH repetition Type A

 pusch-RepetitionTypeA-r16 SEQUENCE {

 sharedSpectrumChAccess-r16 ENUMERATED {supported} OPTIONAL,

 non-SharedSpectrumChAccess-r16 ENUMERATED {supported} OPTIONAL

 } OPTIONAL,

 -- R1 11-4b: DL priority indication in DCI with mixed DCI formats

 dci-DL-PriorityIndicator-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 12-1a: UL priority indication in DCI with mixed DCI formats

 dci-UL-PriorityIndicator-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1e: Maximum number of configured pathloss reference RSs for PUSCH/PUCCH/SRS by RRC for MAC-CE based pathloss reference RS update

 maxNumberPathlossRS-Update-r16 ENUMERATED {n4, n8, n16, n32, n64} OPTIONAL,

 -- R1 18-9: Usage of the PDSCH starting time for HARQ-ACK type 2 codebook

 type2-HARQ-ACK-Codebook-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1g-1: Resources for beam management, pathloss measurement, BFD, RLM and new beam identification across frequency ranges

 maxTotalResourcesForAcrossFreqRanges-r16 SEQUENCE {

 maxNumberResWithinSlotAcrossCC-AcrossFR-r16 ENUMERATED {n2, n4, n8, n12, n16, n32, n64, n128} OPTIONAL,

 maxNumberResAcrossCC-AcrossFR-r16 ENUMERATED {n2, n4, n8, n12, n16, n32, n40, n48, n64, n72, n80, n96, n128, n256}

 OPTIONAL

 } OPTIONAL,

 -- R1 16-2a-4: HARQ-ACK for multi-DCI based multi-TRP – separate

 harqACK-separateMultiDCI-MultiTRP-r16 SEQUENCE {

 maxNumberLongPUCCHs-r16 ENUMERATED {longAndLong, longAndShort, shortAndShort} OPTIONAL

 } OPTIONAL,

 -- R1 16-2a-4: HARQ-ACK for multi-DCI based multi-TRP – joint

 harqACK-jointMultiDCI-MultiTRP-r16 ENUMERATED {supported} OPTIONAL,

 -- R4 9-1: BWP switching on multiple CCs RRM requirements

 bwp-SwitchingMultiCCs-r16 CHOICE {

 type1-r16 ENUMERATED {us100, us200},

 type2-r16 ENUMERATED {us200, us400, us800, us1000}

 } OPTIONAL

 ]],

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 targetSMTC-SCG-r16 ENUMERATED {supported} OPTIONAL,

 supportRepetitionZeroOffsetRV-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-12: in-order CBG-based re-transmission

 cbg-TransInOrderPUSCH-UL-r16 ENUMERATED {supported} OPTIONAL

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 -- R4 6-3: Dormant BWP switching on multiple CCs RRM requirements

 bwp-SwitchingMultiDormancyCCs-r16 CHOICE {

 type1-r16 ENUMERATED {us100, us200},

 type2-r16 ENUMERATED {us200, us400, us800, us1000}

 } OPTIONAL

 ]]

}

Phy-ParametersXDD-Diff ::= SEQUENCE {

 dynamicSFI ENUMERATED {supported} OPTIONAL,

 twoPUCCH-F0-2-ConsecSymbols ENUMERATED {supported} OPTIONAL,

 twoDifferentTPC-Loop-PUSCH ENUMERATED {supported} OPTIONAL,

 twoDifferentTPC-Loop-PUCCH ENUMERATED {supported} OPTIONAL,

 ...,

 [[

 dl-SchedulingOffset-PDSCH-TypeA ENUMERATED {supported} OPTIONAL,

 dl-SchedulingOffset-PDSCH-TypeB ENUMERATED {supported} OPTIONAL,

 ul-SchedulingOffset ENUMERATED {supported} OPTIONAL

 ]]

}

Phy-ParametersFRX-Diff ::= SEQUENCE {

 dynamicSFI ENUMERATED {supported} OPTIONAL,

 dummy1 BIT STRING (SIZE (2)) OPTIONAL,

 twoFL-DMRS BIT STRING (SIZE (2)) OPTIONAL,

 dummy2 BIT STRING (SIZE (2)) OPTIONAL,

 dummy3 BIT STRING (SIZE (2)) OPTIONAL,

 supportedDMRS-TypeDL ENUMERATED {type1, type1And2} OPTIONAL,

 supportedDMRS-TypeUL ENUMERATED {type1, type1And2} OPTIONAL,

 semiOpenLoopCSI ENUMERATED {supported} OPTIONAL,

 csi-ReportWithoutPMI ENUMERATED {supported} OPTIONAL,

 csi-ReportWithoutCQI ENUMERATED {supported} OPTIONAL,

 onePortsPTRS BIT STRING (SIZE (2)) OPTIONAL,

 twoPUCCH-F0-2-ConsecSymbols ENUMERATED {supported} OPTIONAL,

 pucch-F2-WithFH ENUMERATED {supported} OPTIONAL,

 pucch-F3-WithFH ENUMERATED {supported} OPTIONAL,

 pucch-F4-WithFH ENUMERATED {supported} OPTIONAL,

 pucch-F0-2WithoutFH ENUMERATED {notSupported} OPTIONAL,

 pucch-F1-3-4WithoutFH ENUMERATED {notSupported} OPTIONAL,

 mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot ENUMERATED {supported} OPTIONAL,

 uci-CodeBlockSegmentation ENUMERATED {supported} OPTIONAL,

 onePUCCH-LongAndShortFormat ENUMERATED {supported} OPTIONAL,

 twoPUCCH-AnyOthersInSlot ENUMERATED {supported} OPTIONAL,

 intraSlotFreqHopping-PUSCH ENUMERATED {supported} OPTIONAL,

 pusch-LBRM ENUMERATED {supported} OPTIONAL,

 pdcch-BlindDetectionCA INTEGER (4..16) OPTIONAL,

 tpc-PUSCH-RNTI ENUMERATED {supported} OPTIONAL,

 tpc-PUCCH-RNTI ENUMERATED {supported} OPTIONAL,

 tpc-SRS-RNTI ENUMERATED {supported} OPTIONAL,

 absoluteTPC-Command ENUMERATED {supported} OPTIONAL,

 twoDifferentTPC-Loop-PUSCH ENUMERATED {supported} OPTIONAL,

 twoDifferentTPC-Loop-PUCCH ENUMERATED {supported} OPTIONAL,

 pusch-HalfPi-BPSK ENUMERATED {supported} OPTIONAL,

 pucch-F3-4-HalfPi-BPSK ENUMERATED {supported} OPTIONAL,

 almostContiguousCP-OFDM-UL ENUMERATED {supported} OPTIONAL,

 sp-CSI-RS ENUMERATED {supported} OPTIONAL,

 sp-CSI-IM ENUMERATED {supported} OPTIONAL,

 tdd-MultiDL-UL-SwitchPerSlot ENUMERATED {supported} OPTIONAL,

 multipleCORESET ENUMERATED {supported} OPTIONAL,

 ...,

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 csi-RS-IM-ReceptionForFeedback CSI-RS-IM-ReceptionForFeedback OPTIONAL,

 csi-RS-ProcFrameworkForSRS CSI-RS-ProcFrameworkForSRS OPTIONAL,

 csi-ReportFramework CSI-ReportFramework OPTIONAL,

 mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot SEQUENCE {

 sameSymbol ENUMERATED {supported} OPTIONAL,

 diffSymbol ENUMERATED {supported} OPTIONAL

 } OPTIONAL,

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

 mux-MultipleGroupCtrlCH-Overlap ENUMERATED {supported} OPTIONAL,

 dl-SchedulingOffset-PDSCH-TypeA ENUMERATED {supported} OPTIONAL,

 dl-SchedulingOffset-PDSCH-TypeB ENUMERATED {supported} OPTIONAL,

 ul-SchedulingOffset ENUMERATED {supported} OPTIONAL,

 dl-64QAM-MCS-TableAlt ENUMERATED {supported} OPTIONAL,

 ul-64QAM-MCS-TableAlt ENUMERATED {supported} OPTIONAL,

 cqi-TableAlt ENUMERATED {supported} OPTIONAL,

 oneFL-DMRS-TwoAdditionalDMRS-UL ENUMERATED {supported} OPTIONAL,

 twoFL-DMRS-TwoAdditionalDMRS-UL ENUMERATED {supported} OPTIONAL,

 oneFL-DMRS-ThreeAdditionalDMRS-UL ENUMERATED {supported} OPTIONAL

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 pdcch-BlindDetectionNRDC SEQUENCE {

 pdcch-BlindDetectionMCG-UE INTEGER (1..15),

 pdcch-BlindDetectionSCG-UE INTEGER (1..15)

 } OPTIONAL,

 mux-HARQ-ACK-PUSCH-DiffSymbol ENUMERATED {supported} OPTIONAL

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 -- R1 11-1b: Type 1 HARQ-ACK codebook support for relative TDRA for DL

 type1-HARQ-ACK-Codebook-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 11-8: Enhanced UL power control scheme

 enhancedPowerControl-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1b-1: TCI state activation across multiple CCs

 simultaneousTCI-ActMultipleCC-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1b-2: Spatial relation update across multiple CCs

 simultaneousSpatialRelationMultipleCC-r16 ENUMERATED {supported} OPTIONAL,

 cli-RSSI-FDM-DL-r16 ENUMERATED {supported} OPTIONAL,

 cli-SRS-RSRP-FDM-DL-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 19-3: Maximum MIMO Layer Adaptation

 maxLayersMIMO-Adaptation-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 12-5: Configuration of aggregation factor per SPS configuration

 aggregationFactorSPS-DL-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1g: Resources for beam management, pathloss measurement, BFD, RLM and new beam identification

 maxTotalResourcesForOneFreqRange-r16 SEQUENCE {

 maxNumberResWithinSlotAcrossCC-OneFR-r16 ENUMERATED {n2, n4, n8, n12, n16, n32, n64, n128} OPTIONAL,

 maxNumberResAcrossCC-OneFR-r16 ENUMERATED {n2, n4, n8, n12, n16, n32, n40, n48, n64, n72, n80, n96, n128, n256}

 OPTIONAL

 } OPTIONAL,

 -- R1 16-7: Extension of the maximum number of configured aperiodic CSI report settings

 csi-ReportFrameworkExt-r16 CSI-ReportFrameworkExt-r16 OPTIONAL

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 twoTCI-Act-servingCellInCC-List-r16 ENUMERATED {supported} OPTIONAL

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}

Phy-ParametersFR1 ::= SEQUENCE {

 pdcch-MonitoringSingleOccasion ENUMERATED {supported} OPTIONAL,

 scs-60kHz ENUMERATED {supported} OPTIONAL,

 pdsch-256QAM-FR1 ENUMERATED {supported} OPTIONAL,

 pdsch-RE-MappingFR1-PerSymbol ENUMERATED {n10, n20} OPTIONAL,

 ...,

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 pdsch-RE-MappingFR1-PerSlot ENUMERATED {n16, n32, n48, n64, n80, n96, n112, n128,

 n144, n160, n176, n192, n208, n224, n240, n256} OPTIONAL

 ]]

}

Phy-ParametersFR2 ::= SEQUENCE {

 dummy ENUMERATED {supported} OPTIONAL,

 pdsch-RE-MappingFR2-PerSymbol ENUMERATED {n6, n20} OPTIONAL,

 ...,

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 pCell-FR2 ENUMERATED {supported} OPTIONAL,

 pdsch-RE-MappingFR2-PerSlot ENUMERATED {n16, n32, n48, n64, n80, n96, n112, n128,

 n144, n160, n176, n192, n208, n224, n240, n256} OPTIONAL

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 -- R1 16-1c: Support of default spatial relation and pathloss reference RS for dedicated-PUCCH/SRS and PUSCH

 defaultSpatialRelationPathlossRS-r16 ENUMERATED {supported} OPTIONAL,

 -- R1 16-1d: Support of spatial relation update for AP-SRS via MAC CE

 spatialRelationUpdateAP-SRS-r16 ENUMERATED {supported} OPTIONAL,

 maxNumberSRS-PosSpatialRelationsAllServingCells-r16 ENUMERATED {n0, n1, n2, n4, n8, n16} OPTIONAL

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}

-- TAG-PHY-PARAMETERS-STOP

-- ASN1STOP

|  |
| --- |
| *Phy-ParametersFRX-Diff field description* |
| ***csi-RS-IM-ReceptionForFeedback/ csi-RS-ProcFrameworkForSRS/ csi-ReportFramework***These fields are optionally present in *fr1-fr2-Add-UE-NR-Capabilities* in *UE-NR-Capability*. They shall not be set in any other instance of the IE *Phy-ParametersFRX-Diff*. If the network configures the UE with serving cells on both FR1 and FR2 bands, these parameters, if present, limit the corresponding parameters in *MIMO-ParametersPerBand*. |