**3GPP TSG-RAN WG3 Meeting #117-e R3-225075**

**E-Meeting, 15th – 24th Aug 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **CR** | **0986** | **rev** | **2** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | CR for TS38.473 on Extending NR Operation to 71GHz | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom,Ericsson, Huawei | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_ext\_to\_71GHz-Core | | | | |  | ***Date:*** | | | 2022-08-15 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In order to support extending NR operation to 71GHz, new subcarrier spacings and transmission bandwidth configuration NRB for FR2-2 had been specified in Rel-17. The configuration of one NR cell comprises of subcarrier spacings and Transmission bandwidth. Therefore, the new subcarrier spacings configuration and Transmission bandwidth can be used to indicate one cell in FR2-2. In addition, two lengths of PRACH root sequence, namely L=571 and L=1151, can be used to operation with licensed channel access in Rel-17. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Add SCS 480kHz and 960kHz in NR Transmission Bandwidth, NR Carrier List, Intended TDD DL-UL Configuration, Time Stamp, SRS Configuration, and NR PRACH Configuration List * Add more values in transmission bandwidth configuration NRB * Add two lengths of PRACH root sequence, namely L=571 and L=1151 in NR PRACH Configuration List * Add 800MHz,1600MHz,2000MHz to FR2 Bandwidth in Requested SRS Transmission Characteristics   Impact assessment towards the previous version of the specification (same release):  This CR has an isolated impact towards the previous version of the specification (same release). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.3.1.15,9.3.1.89,9.3.1.137,9.3.1.140,9.3.171,9.3.175,9.3.1.192,9.4.5,9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | V1:  - update cover sheet  - add two new scs value in NR carrier List  - change lengths of PRACH root sequencce from 1171 to 1151  V2:  - Use the latest CR format   * Move new added IE to the same level with other subcarrier in 9.3.1.140 * Fix ASN.1 extension container | | | | | | | | |

////////////////////////////////////////////////////////////////////////start of change ////////////////////////////////////////////////////////////////////////

#### 9.3.1.15 Transmission Bandwidth

The *Transmission Bandwidth* IE is used to indicate the UL or DL transmission bandwidth.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| NR SCS | M |  | ENUMERATED (scs15, scs30, scs60, scs120, ...,scs 480, scs960) | The values scs15, scs30, scs60 ,scs120,scs480 and scs960 corresponds to the sub carrier spacing in TS 38.104 [17]. |
| NRB | M |  | ENUMERATED (nrb11, nrb18, nrb24, nrb25, nrb31, nrb32, nrb38, nrb51, nrb52, nrb65, nrb66, nrb78, nrb79, nrb93, nrb106, nrb107, nrb121, nrb132, nrb133, nrb135, nrb160, nrb162, nrb189, nrb216, nrb217, nrb245, nrb264, nrb270, nrb273, ..., nrb33, nrb62, nrb124, nrb148, nrb248) | This IE is used to indicate the UL or DL transmission bandwidth expressed in units of resource blocks "NRB" (TS 38.104 [17]). The values nrb11, nrb18, etc. correspond to the number of resource blocks "NRB" 11, 18, etc. |

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#### 9.3.1.89 Intended TDD DL-UL Configuration

This IE contains the subcarrier spacing, cyclic prefix and TDD DL-UL slot configuration of an NR cell that the receiving gNB needs to take into account for cross-link interference mitigation, and/or for NR-DC power coordination, when operating its own cells.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| NR SCS | M |  | ENUMERATED (scs15, scs30, scs60, scs120, …,scs 480, scs960) | The values scs15, scs30, scs60,scs120, ,scs480 and scs960 corresponds to the sub carrier spacing in TS 38.104 [17]. | - |  |
| NR Cyclic Prefix | M |  | ENUMERATED (Normal, Extended, …) | The type of cyclic prefix, which determines the number of symbols in a slot. | - |  |
| NR DL-UL Transmission Periodicity | M |  | ENUMERATED (ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms3, ms4, ms5, ms10, ms20, ms40, ms60, ms80, ms100, ms120, ms140, ms160, …) | The periodicity is expressed in the format msXpYZ, and equals X.YZ milliseconds. | - |  |
| **Slot Configuration List** |  | 1 |  |  | - |  |
| **>Slot Configuration List Item** |  | *1..<maxnoofslots>* |  |  | - |  |
| >>Slot Index | M |  | INTEGER (0..5119) |  | - |  |
| >>CHOICE *Symbol Allocation in Slot* | M |  |  |  | - |  |
| >>>*All DL* |  |  | NULL | This choice implies that all symbols in the slot are DL symbols. | - |  |
| >>>*All UL* |  |  | NULL | This choice implies that all symbols in the slot are UL symbols. | - |  |
| >>>*Both DL and UL* |  |  |  |  | - |  |
| >>>>Number of DL Symbols | M |  | INTEGER (0..13) | Number of consecutive DL symbols in the slot identified by Slot Index IE. If extended cyclic prefix is used, the maximum value is 11. The *Permutation* IE indicates the location of DL symbols in the slot. | - |  |
| >>>>Number of UL Symbols | M |  | INTEGER (0..13) | Number of consecutive UL symbols in the slot identified by Slot IndexIE. If extended cyclic prefix is used, the maximum value is 11. The *Permutation* IE indicates the location of UL symbols in the slot. | - |  |
| >>>>Permutation | O |  | ENUMERATED (DFU, UFD, …) | If not present, the default value is DFU. | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| *maxnoofslots* | Maximum length of number of slots in a 10-ms period. Value is 5120. |

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#### 9.3.1.137 NR Carrier List

This IE indicates the SCS-specific carriers per TDD, per DL, per UL or per SUL of an NR cell.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| **NR Carrier Item** |  | *1..<maxnoofNRSCSs>* |  |  |
| >NR SCS | M |  | ENUMERATED (scs15, scs30, scs60, scs120, …, scs480, scs960) | SCS for the corresponding carrier. |
| >Offset to Carrier | M |  | INTEGER (0.. 2199, ...) | Offset in frequency domain between Point A (lowest subcarrier of common RB 0) and the lowest usable subcarrier on this carrier in number of PRBs (using the *NR SCS* IE defined for this carrier). The maximum value corresponds to 275×8−1. See TS 38.211 [33], clause 4.4.2. |
| >Carrier Bandwidth | M |  | INTEGER (1.. maxnoofPhysicalResourceBlocks, ...) | Width of this carrier in number of PRBs (using the *NR SCS* IE defined for this carrier). See TS 38.211 [33], clause 4.4.2. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofNRSCSs | Maximum no. of SCS-specific carriers per TDD, per DL, per UL or per SUL of an NR cell. Value is 5. |
| maxnoofPhysicalResourceBlocks | Maximum no. of Physical Resource Blocks. Value is 275. |

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#### 9.3.1.140 NR PRACH Configuration List

This IE indicates the PRACH resources used or reserved in the UL carrier(s) or SUL carrier(s) of the current NR cell.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| **NR PRACH Configuration Item** |  | *0..< maxnoofPrachConfiguration >* |  | Length=0 means releasing of all NR PRACH Configuration Items for this UL or SUL. |  |  |
| >NR SCS | M |  | ENUMERATED (scs15, scs30, scs60, scs120, …,scs 480, scs960) | The SCS of the carrier to which this *PRACH Configuration Item* relates, i.e. in Section 5.3.2 in TS 38.211 [33]. The values scs15, scs30, scs60 ,scs120, scs 480, and scs960 corresponds to the sub carrier spacing in TS 38.104 [17].  NOTE: Its value may not be identical to the SCS of PRACH. | - |  |
| > PRACH Frequency Start from Carrier | M |  | INTEGER (0.. maxNrofPhysicalResourceBlocks-1, …) | Lowest number of resource blocks which can be used to deliver MSG1 or the preamble part of MSGA, counting from the start number of the corresponding carrier.  Identical to  in Section 5.1.2.2.2 in TS 38.214 [34] plus *msg1-FrequencyStart* or *msgA-RO-FrequencyStart-r16* in TS 38.331 [8]. | - |  |
| >PRACH-FDM | M |  | ENUMERATED (one, two, four, eight, …) | in Section 6.3.3.2 in TS 38.211 [33]. | - |  |
| >PRACH Configuration Index | M |  | INTEGER (0.. 255, …, 256..262) | See Section 6.3.3.2 in TS 38.211 [33]. | - |  |
| >SSB per RACH Occasion | M |  | ENUMERATED (oneEighth, oneFourth, oneHalf, one, two, four, eight, sixteen, ...) | Number of SSBs per RACH occasion. Value *oneEight* corresponds to one SSB associated with 8 RACH occasions, value *oneFourth* corresponds to one SSB associated with 4 RACH occasions, and so on. | - |  |
| >CHOICE *FreqDomainLength* | M |  |  | For the case of PRACH resources reserved for BFR or MSG1-based SI Request, *L139* is always used. | - |  |
| >>*L839* |  |  |  |  |  |  |
| >>>**L839 Info** |  | *1* |  |  | - |  |
| >>>>Root Sequence Index | M |  | INTEGER (0..837) | See Section 6.3.3.1 in TS 38.211 [33]. | - |  |
| >>>>Restricted Set Config | M |  | ENUMERATED (unrestrictedSet, restrictedSetTypeA, restrictedSetTypeB, …) | See Section 6.3.3.1 in TS 38.211 [33]. | - |  |
| >>*L139* |  |  |  |  |  |  |
| >>>**L139 Info** |  | *1* |  |  | - |  |
| >>>>PRACH SCS | M |  | ENUMERATED (scs15, scs30, scs60, scs120, …, scs 480, scs960) | Subcarrier Spacing of PRACH, i.e. in Section 5.3.2 in TS 38.211 [33]. | - |  |
| >>>>Root Sequence Index | M |  | INTEGER (0..137) | See Section 6.3.3.1 in TS 38.211 [33]. | - |  |
| >>*L571* |  |  |  |  |  |  |
| >>>**L571 Info** |  | *1* |  |  | - |  |
| >>>>PRACH SCS for L571 | M |  | ENUMERATED (scs30, scs120, …, ) | Subcarrier Spacing of PRACH, i.e. in Section 5.3.2 in TS 38.211 [33]. | - | reject |
| >>>>Root Sequence Index | M |  | INTEGER (0..569) | See Section 6.3.3.1 in TS 38.211 [33]. | - | reject |
| >>*L1151* |  |  |  |  |  |  |
| >>>**L1151 Info** |  | *1* |  |  | - |  |
| >>>>PRACH SCS for L1151 | M |  | ENUMERATED (scs15, scs120, scs 480, …,) | Subcarrier Spacing of PRACH, i.e. in Section 5.3.2 in TS 38.211 [33]. | - | reject |
| >>>>Root Sequence Index | M |  | INTEGER (0..1169) | See Section 6.3.3.1 in TS 38.211 [33]. | - | reject |
| >Zero Correlation Zone Config | M |  | INTEGER (0..15) | See Section 6.3.3.1 in TS 38.211 [33]. | - |  |

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#### 9.3.1.171 Time Stamp

This information element contains the time stamp associated with the measurement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| System Frame Number | M |  | INTEGER(0..1023) |  |
| CHOICE *Slot Index* | M |  |  |  |
| *>SCS-15* |  |  |  |  |
| >>SCS-15 | M |  | INTEGER(0..9) |  |
| *>SCS-30* |  |  |  |  |
| >>SCS-30 | M |  | INTEGER(0..19) |  |
| *>SCS-60* |  |  |  |  |
| >>SCS-60 | M |  | INTEGER(0..39) |  |
| *>SCS-120* |  |  |  |  |
| >>SCS-120 | M |  | INTEGER(0..79) |  |
| *>SCS-480* |  |  |  |  |
| >>SCS-480 | M |  | INTEGER(0..319) |  |
| *>SCS-960* |  |  |  |  |
| >>SCS-960 | M |  | INTEGER(0..639) |  |
| Measurement Time | O |  | Relative Time 1900  9.3.1.183 |  |

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#### 9.3.1.175 Requested SRS Transmission Characteristics

This IE contains the requested SRS configuration for the UE for positioning purposes.

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| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| Number Of Periodic Transmissions | C-ifResourceTypePeriodic |  | INTEGER (0..500,…) | The number of periodic SRS transmissions requested. The value of ‘0’ represents an infinite number of SRS transmissions. | - |  |
| Resource Type | M |  | ENUMERATED (periodic, semi-persistent, aperiodic, …) |  | - |  |
| CHOICE *Bandwidth SRS* | M |  |  |  | - |  |
| >*FR1* |  |  |  |  | - |  |
| >>FR1 Bandwidth | M |  | ENUMERATED (5, 10, 20, 40, 50, 80, 100, ...) |  | - |  |
| >*FR2* |  |  |  |  | - |  |
| >>FR2 Bandwidth | M |  | ENUMERATED (50, 100, 200, 400,…,800,1600,2000) |  | - |  |
| **SRS Resource Set List** |  | *0.. 1* |  |  | - |  |
| **>SRS Resource Set Item** |  | *1..<* *maxnoSRS-ResourceSets>* |  |  | - |  |
| >>Number of SRS Resources Per Set | O |  | INTEGER (1..16,...) | The number of SRS Resources per resource set for SRS transmission. | - |  |
| >>**Periodicity List** |  | *0.. 1* |  |  | - |  |
| **>>>Periodicity List Item** |  | 1..<*maxnoSRS-ResourcePerSet*> |  |  | - |  |
| >>>>PeriodicitySRS | M |  | ENUMERATED (0.125, 0.25, 0.5, 0.625, 1, 1.25, 2, 2.5, 4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 160, 320, 640, 1280, 2560, 5120, 10240, …) | Milli-seconds | - |  |
| >>Spatial Relation Information | O |  | 9.3.1.181 | This IE is ignored if the *Spatial Relation Information per SRS Resource* IE is present. | - |  |
| >>Pathloss Reference Information | O |  | 9.3.1.201 |  | - |  |
| >>Spatial Relation Information per SRS Resource | O |  | 9.3.1.210 |  | YES | ignore |
| SSB Information | O |  | 9.3.1.202 |  | - |  |
| SRS Frequency | O |  | INTEGER(0..3279165) | NR ARFCN  The carrier frequency of SRS transmission bandwidth. | YES | ignore |

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#### 9.3.1.192 SRS Configuration

This information element contains the SRS configuration configured by the gNB-CU for the UE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| **SRS Carrier List** |  | *1..<maxnoSRS-Carriers>* |  |  |
| >Point A | M |  | INTEGER (0..3279165) | NR ARFCN |
| **>Uplink Channel BW-PerSCS-List** |  | *1..<maxnoSCSs>* |  | SCS-SpecificCarrier TS 38.331 [8] |
| >>Offset To Carrier | M |  | INTEGER(0..2199,…) | First usable RB to Point A in the number of PRBs |
| >>Subcarrier Spacing | M |  | ENUMERATED(kHz15, kHz30, kHz60, kHz120,…, kHz480, kHz960) |  |
| >>Carrier Bandwidth | M |  | INTEGER(1..275,…) |  |
| **>Active UL BWP** | M |  |  | Only the configuration in the active UL BWP is needed. |
| >>Location And Bandwidth | M |  | INTEGER(0..37949,…) | BWP TS 38.331 [8] |
| >>Subcarrier Spacing | M |  | ENUMERATED(kHz15, kHz30, kHz60, kHz120,…, kHz480, kHz960) |  |
| >>Cyclic Prefix | M |  | ENUMERATED(Normal, Extended) |  |
| >>Tx Direct Current Location | M |  | INTEGER(0..3301,…) |  |
| >>Shift7dot5kHz | O |  | ENUMERATED(true,…) |  |
| **>>SRS Config** | M |  |  | *SRS-Config* as defined in TS 38.331 [8] |
| **>>>SRS Resource List** |  | *0..<maxnoSRS-Resources>* |  |  |
| >>>>SRS Resource | M |  | 9.3.1.193 | *SRS-Resource* as defined in TS 38.331 [8] |
| **>>>Positioning SRS Resource List** |  | *0..<maxnoSRS-PosResources>* |  |  |
| >>>>Positioning SRS Resource | M |  | 9.3.1.194 | *SRS-PosResource-r16* as defined in TS 38.331 [8] |
| **>>>SRS Resource Set List** |  | *0..<maxnoSRS-ResourceSets>* |  |  |
| >>>>SRS Resource Set | M |  | 9.3.1.195 | *SRS-ResourceSet* as defined in TS 38.331 [8] |
| **>>>Positioning SRS Resource Set List** |  | *0..<maxnoSRS-PosResourceSets>* |  |  |
| >>>>Positioning SRS Resource Set | M |  | 9.3.1.196 | *SRS-PosResourceSet-r16* as defined in TS 38.331 [8] |
| >PCI | O |  | INTEGER (0..1007) | Physical Cell ID of the cell that contains the SRS carrier |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoSRS-Carriers | Maximum no of carriers for SRS. Value is 32. |
| maxnoSCSs | Maximum no of SCS spacings for a carrier. Value is 5. |
| maxnoSRS-Resources | Maximum no of SRS resources per UL BWP. Value is 64. |
| maxnoSRS-PosResources | Maximum no of positioning SRS resources per UL BWP. Value is 64. |
| maxnoSRS-ResourceSets | Maximum no of SRS resource sets. Value is 16. |
| maxnoSRS-PosResourceSets | Maximum no of positioning SRS resource sets per UL BWP. Value is 16. |

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### 9.4.5 Information Element Definitions

-- ASN1START

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-- Information Element Definitions

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F1AP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-gNB-CUSystemInformation,

id-HandoverPreparationInformation,

id-TAISliceSupportList,

id-RANAC,

id-BearerTypeChange,

id-Cell-Direction,

id-Cell-Type,

id-CellGroupConfig,

id-AvailablePLMNList,

id-PDUSessionID,

id-ULPDUSessionAggregateMaximumBitRate,

id-DC-Based-Duplication-Configured,

id-DC-Based-Duplication-Activation,

id-Duplication-Activation,

id-DLPDCPSNLength,

id-ULPDCPSNLength,

id-RLC-Status,

id-MeasurementTimingConfiguration,

id-DRB-Information,

id-QoSFlowMappingIndication,

id-ServingCellMO,

id-RLCMode,

id-ExtendedServedPLMNs-List,

id-ExtendedAvailablePLMN-List,

id-DRX-LongCycleStartOffset,

id-SelectedBandCombinationIndex,

id-SelectedFeatureSetEntryIndex,

id-Ph-InfoSCG,

id-latest-RRC-Version-Enhanced,

id-RequestedBandCombinationIndex,

id-RequestedFeatureSetEntryIndex,

id-DRX-Config,

id-UEAssistanceInformation,

id-PDCCH-BlindDetectionSCG,

id-Requested-PDCCH-BlindDetectionSCG,

id-BPLMN-ID-Info-List,

id-NotificationInformation,

id-TNLAssociationTransportLayerAddressgNBDU,

id-portNumber,

id-AdditionalSIBMessageList,

id-IgnorePRACHConfiguration,

id-CG-Config,

id-Ph-InfoMCG,

id-AggressorgNBSetID,

id-VictimgNBSetID,

id-MeasGapSharingConfig,

id-systemInformationAreaID,

id-areaScope,

id-IntendedTDD-DL-ULConfig,

id-QosMonitoringRequest,

id-BHInfo,

id-IAB-Info-IAB-DU,

id-IAB-Info-IAB-donor-CU,

id-IAB-Barred,

id-SIB12-message,

id-SIB13-message,

id-SIB14-message,

id-UEAssistanceInformationEUTRA,

id-SL-PHY-MAC-RLC-Config,

id-SL-ConfigDedicatedEUTRA-Info,

id-AlternativeQoSParaSetList,

id-CurrentQoSParaSetIndex,

id-CarrierList,

id-ULCarrierList,

id-FrequencyShift7p5khz,

id-SSB-PositionsInBurst,

id-NRPRACHConfig,

id-TDD-UL-DLConfigCommonNR,

id-CNPacketDelayBudgetDownlink,

id-CNPacketDelayBudgetUplink,

id-ExtendedPacketDelayBudget,

id-TSCTrafficCharacteristics,

id-AdditionalPDCPDuplicationTNL-List,

id-RLCDuplicationInformation,

id-AdditionalDuplicationIndication,

id-mdtConfiguration,

id-TraceCollectionEntityURI,

id-NID,

id-NPNSupportInfo,

id-NPNBroadcastInformation,

id-AvailableSNPN-ID-List,

id-SIB10-message,

id-RequestedP-MaxFR2,

id-DLCarrierList,

id-ExtendedTAISliceSupportList,

id-E-CID-MeasurementQuantities-Item,

id-ConfiguredTACIndication,

id-NRCGI,

id-SFN-Offset,

id-TransmissionStopIndicator,

id-SrsFrequency,

id-EstimatedArrivalProbability,

id-Supported-MBS-FSA-ID-List,

id-TRPType,

id-SRSSpatialRelationPerSRSResource,

id-MBS-Broadcast-NeighbourCellList,

id-PDCPTerminatingNodeDLTNLAddrInfo,

id-ENBDLTNLAddress,

id-PRS-Resource-ID,

id-LocationMeasurementInformation,

id-SliceRadioResourceStatus,

id-CompositeAvailableCapacity-SUL,

id-NR-U,

id-NR-U-Channel-List,

id-MIMOPRBusageInformation,

id-IngressNonF1terminatingTopologyIndicator,

id-NonF1terminatingTopologyIndicator,

id-EgressNonF1terminatingTopologyIndicator,

id-rBSetConfiguration,

id-frequency-Domain-HSNA-Configuration-List,

id-child-IAB-Nodes-NA-Resource-List,

id-Parent-IAB-Nodes-NA-Resource-Configuration-List,

id-uL-FreqInfo,

id-uL-Transmission-Bandwidth,

id-dL-FreqInfo,

id-dL-Transmission-Bandwidth,

id-uL-NR-Carrier-List,

id-dL-NR-Carrier-List,

id-nRFreqInfo,

id-transmission-Bandwidth,

id-nR-Carrier-List,

id-permutation,

id-M5ReportAmount,

id-M6ReportAmount,

id-M7ReportAmount,

id-SurvivalTime,

id-PDCMeasurementQuantities-Item,

id-OnDemandPRS,

id-AoA-SearchWindow,

id-ZoAInformation,

id-ARPLocationInfo,

id-ARP-ID,

id-MultipleULAoA,

id-UL-SRS-RSRPP,

id-SRSResourcetype,

id-ExtendedAdditionalPathList,

id-LoS-NLoSInformation,

id-NumberOfTRPRxTEG,

id-NumberOfTRPRxTxTEG,

id-TRPTxTEGAssociation,

id-TRPTEGIDInformation,

id-TRPRXTEGID,

id-TRPBeamAntennaInformation,

id-Redcap-Bcast-Information,

id-NR-TADV,

id-SDT-MACPHY-Config,

id-CG-SDTindicatorSetup,

id-CG-SDTindicatorMod,

id-SDTRLCBearerConfiguration,

id-SRBMappingInfo,

id-DRBMappingInfo,

id-LastUsedCellIndication,

id-SIB17-message,

id-MUSIM-GapConfig,

id-SIB20-message,

id-pathPower,

id-DU-RX-MT-RX-Extend,

id-DU-TX-MT-TX-Extend,

id-DU-RX-MT-TX-Extend,

id-DU-TX-MT-RX-Extend,

id-TAINSAGSupportList,

id-SL-RLC-ChannelToAddModList,

id-SIB15-message,

id-L571Info,

id-L1151Info,

id-SCS-480,

id-SCS-960,

maxNRARFCN,

maxnoofErrors,

maxnoofBPLMNs,

maxnoofBPLMNsNR,

maxnoofDLUPTNLInformation,

maxnoofNrCellBands,

maxnoofULUPTNLInformation,

maxnoofQoSFlows,

maxnoofSliceItems,

maxnoofSIBTypes,

maxnoofSITypes,

maxCellineNB,

maxnoofExtendedBPLMNs,

maxnoofAdditionalSIBs,

maxnoofUACPLMNs,

maxnoofUACperPLMN,

maxCellingNBDU,

maxnoofTLAs,

maxnoofGTPTLAs,

maxnoofslots,

maxnoofNonUPTrafficMappings,

maxnoofServingCells,

maxnoofServedCellsIAB,

maxnoofChildIABNodes,

maxnoofIABSTCInfo,

maxnoofSymbols,

maxnoofDUFSlots,

maxnoofHSNASlots,

maxnoofEgressLinks,

maxnoofMappingEntries,

maxnoofDSInfo,

maxnoofQoSParaSets,

maxnoofPC5QoSFlows,

maxnoofSSBAreas,

maxnoofNRSCSs,

maxnoofPhysicalResourceBlocks,

maxnoofPhysicalResourceBlocks-1,

maxnoofPRACHconfigs,

maxnoofRACHReports,

maxnoofRLFReports,

maxnoofAdditionalPDCPDuplicationTNL,

maxnoofRLCDuplicationState,

maxnoofCHOcells,

maxnoofMDTPLMNs,

maxnoofCAGsupported,

maxnoofNIDsupported,

maxnoofExtSliceItems,

maxnoofPosMeas,

maxnoofTRPInfoTypes,

maxnoofSRSTriggerStates,

maxnoofSpatialRelations,

maxnoBcastCell,

maxnoofTRPs,

maxnoofAngleInfo,

maxnooflcs-gcs-translation,

maxnoofPath,

maxnoofMeasE-CID,

maxnoofSSBs,

maxnoSRS-ResourceSets,

maxnoSRS-ResourcePerSet,

maxnoSRS-Carriers,

maxnoSCSs,

maxnoSRS-Resources,

maxnoSRS-PosResources,

maxnoSRS-PosResourceSets,

maxnoSRS-PosResourcePerSet,

maxnoofPRS-ResourceSets,

maxnoofPRS-ResourcesPerSet,

maxNoOfMeasTRPs,

maxnoofPRSresourceSets,

maxnoofPRSresources,

maxnoofSuccessfulHOReports,

maxnoofNR-UChannelIDs,

maxServedCellforSON,

maxNeighbourCellforSON,

maxAffectedCells,

maxnoofMBSQoSFlows,

maxnoofMBSFSAs,

maxnoofMBSAreaSessionIDs,

maxnoofMBSServiceAreaInformation,

maxnoofTAIforMBS,

maxnoofCellsforMBS,

maxnoofIABCongInd,

maxnoofBHRLCChannels,

maxnoofTLAsIAB,

maxnoofRBsetsPerCell,

maxnoofRBsetsPerCell-1,

maxnoofNeighbourNodeCellsIAB,

maxnoofMeasPDC,

maxnoARPs,

maxnoofULAoAs,

maxNoPathExtended,

maxnoTRPTEGs,

maxFreqLayers,

maxNumResourcesPerAngle,

maxnoAzimuthAngles,

maxnoElevationAngles,

maxnoofPRSTRPs,

maxnoofQoEInformation,

maxnoofUuRLCChannels,

maxnoofPC5RLCChannels,

maxnoofSMBRValues,

maxnoofMBSSessionsofUE,

maxnoofSLdestinations,

maxnoofNSAGs

FROM F1AP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

FROM F1AP-CommonDataTypes

ProtocolExtensionContainer{},

F1AP-PROTOCOL-EXTENSION,

ProtocolIE-SingleContainer{},

F1AP-PROTOCOL-IES

FROM F1AP-Containers;

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- F

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

FR1-Bandwidth ::= ENUMERATED {bw5, bw10, bw20, bw40, bw50, bw80, bw100, ...}

FR2-Bandwidth ::= ENUMERATED {bw50, bw100, bw200, bw400, ... , bw800, bw1600, bw2000}

FreqBandNrItem ::= SEQUENCE {

freqBandIndicatorNr INTEGER (1..1024,...),

supportedSULBandList SEQUENCE (SIZE(0..maxnoofNrCellBands)) OF SupportedSULFreqBandItem,

iE-Extensions ProtocolExtensionContainer { {FreqBandNrItem-ExtIEs} } OPTIONAL,

...

}

FreqBandNrItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

FreqDomainLength ::= CHOICE {

l839 L839Info,

l139 L139Info,

choice-extension ProtocolIE-SingleContainer { {FreqDomainLength-ExtIEs} }

}

FreqDomainLength-ExtIEs F1AP-PROTOCOL-IES ::= {

{ ID id-L571Info CRITICALITY reject TYPE L571Info PRESENCE mandatory}|

{ ID id-L1151Info CRITICALITY reject TYPE L1151Info PRESENCE mandatory},

...

}

FreqInfoRel16 ::= SEQUENCE {

nRARFCN INTEGER (0..maxNRARFCN) OPTIONAL,

frequencyShift7p5khz FrequencyShift7p5khz OPTIONAL,

carrierList NRCarrierList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { FreqInfoRel16-ExtIEs} } OPTIONAL,

...

}

FreqInfoRel16-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

FrequencyShift7p5khz ::= ENUMERATED {false, true, ...}

Frequency-Domain-HSNA-Configuration-List ::= SEQUENCE (SIZE(1..maxnoofRBsetsPerCell)) OF Frequency-Domain-HSNA-Configuration-Item

Frequency-Domain-HSNA-Configuration-Item::= SEQUENCE {

rBSetIndex INTEGER (0..maxnoofRBsetsPerCell-1, ...),

frequency-Domain-HSNA-Slot-Configuration-List Frequency-Domain-HSNA-Slot-Configuration-List,

iE-Extensions ProtocolExtensionContainer { { Frequency-Domain-HSNA-Configuration-Item-ExtIEs} } OPTIONAL

}

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- I

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IntendedTDD-DL-ULConfig ::= SEQUENCE {

nRSCS ENUMERATED { scs15, scs30, scs60, scs120,..., scs480, scs960},

nRCP ENUMERATED { normal, extended,...},

nRDLULTxPeriodicity ENUMERATED { ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms3, ms4, ms5, ms10, ms20, ms40, ms60, ms80, ms100, ms120, ms140, ms160, ...},

slot-Configuration-List Slot-Configuration-List,

iE-Extensions ProtocolExtensionContainer { {IntendedTDD-DL-ULConfig-ExtIEs} } OPTIONAL

}

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- L

L139Info ::= SEQUENCE {

prachSCS ENUMERATED {scs15, scs30, scs60, scs120, ..., scs480, scs960},

rootSequenceIndex INTEGER (0..137) OPTIONAL,

iE-Extension ProtocolExtensionContainer { {L139Info-ExtIEs} } OPTIONAL,

...

}

L139Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

L839Info ::= SEQUENCE {

rootSequenceIndex INTEGER (0..837),

restrictedSetConfig ENUMERATED {unrestrictedSet, restrictedSetTypeA,

restrictedSetTypeB, ...},

iE-Extension ProtocolExtensionContainer { {L839Info-ExtIEs} } OPTIONAL,

...

}

L839Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

L571Info ::= SEQUENCE {

prachSCSForL571 ENUMERATED { scs30, scs120, ...},

rootSequenceIndex INTEGER (0..569),

iE-Extension ProtocolExtensionContainer { {L571Info-ExtIEs} } OPTIONAL,

...

}

L571Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

L1151Info ::= SEQUENCE {

prachSCSForL1151 ENUMERATED { scs15, scs120, scs480, ...},

rootSequenceIndex INTEGER (0..1169),

iE-Extension ProtocolExtensionContainer { {L1151Info-ExtIEs} } OPTIONAL,

...

}

L1151Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- N

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

NRNRB ::= ENUMERATED { nrb11, nrb18, nrb24, nrb25, nrb31, nrb32, nrb38, nrb51, nrb52, nrb65, nrb66, nrb78, nrb79, nrb93, nrb106, nrb107, nrb121, nrb132, nrb133, nrb135, nrb160, nrb162, nrb189, nrb216, nrb217, nrb245, nrb264, nrb270, nrb273, ..., nrb33, nrb62, nrb124, nrb148, nrb248}

NRPCI ::= INTEGER(0..1007)

NRPRACHConfigList ::= SEQUENCE (SIZE(0..maxnoofPRACHconfigs)) OF NRPRACHConfigItem

NRPRACHConfigItem ::= SEQUENCE {

nRSCS NRSCS,

prachFreqStartfromCarrier INTEGER (0..maxnoofPhysicalResourceBlocks-1, ...),

prachFDM ENUMERATED {one, two, four, eight, ...},

prachConfigIndex INTEGER (0..255, ..., 256..262),

ssb-perRACH-Occasion ENUMERATED {oneEighth, oneFourth, oneHalf, one,

two, four, eight, sixteen, ...},

freqDomainLength FreqDomainLength,

zeroCorrelZoneConfig INTEGER (0..15),

iE-Extension ProtocolExtensionContainer { { NRPRACHConfigItem-ExtIEs} } OPTIONAL,

...

}

NRPRACHConfigItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

NRSCS ::= ENUMERATED { scs15, scs30, scs60, scs120, ..., scs480, scs960}

NRUERLFReportContainer ::= OCTET STRING

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- S

SCell-FailedtoSetup-Item ::= SEQUENCE {

sCell-ID NRCGI ,

cause Cause OPTIONAL ,

iE-Extensions ProtocolExtensionContainer { { SCell-FailedtoSetup-ItemExtIEs } } OPTIONAL,

...

}

SCell-FailedtoSetup-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SCell-FailedtoSetupMod-Item ::= SEQUENCE {

sCell-ID NRCGI ,

cause Cause OPTIONAL ,

iE-Extensions ProtocolExtensionContainer { { SCell-FailedtoSetupMod-ItemExtIEs } } OPTIONAL,

...

}

SCell-FailedtoSetupMod-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SCell-ToBeRemoved-Item ::= SEQUENCE {

sCell-ID NRCGI ,

iE-Extensions ProtocolExtensionContainer { { SCell-ToBeRemoved-ItemExtIEs } } OPTIONAL,

...

}

SCell-ToBeRemoved-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SCell-ToBeSetup-Item ::= SEQUENCE {

sCell-ID NRCGI ,

sCellIndex SCellIndex,

sCellULConfigured CellULConfigured OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SCell-ToBeSetup-ItemExtIEs } } OPTIONAL,

...

}

SCell-ToBeSetup-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-ServingCellMO CRITICALITY ignore EXTENSION ServingCellMO PRESENCE optional },

...

}

SCell-ToBeSetupMod-Item ::= SEQUENCE {

sCell-ID NRCGI ,

sCellIndex SCellIndex,

sCellULConfigured CellULConfigured OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SCell-ToBeSetupMod-ItemExtIEs } } OPTIONAL,

...

}

SCell-ToBeSetupMod-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-ServingCellMO CRITICALITY ignore EXTENSION ServingCellMO PRESENCE optional },

...

}

SCellIndex ::=INTEGER (1..31, ...)

SCGActivationRequest ::= ENUMERATED {activate-scg, deactivate-scg, ...}

SCGActivationStatus ::= ENUMERATED {scg-activated, scg-deactivated, ...}

SCGIndicator ::= ENUMERATED{released, ...}

SCS-480 ::= INTEGER(0..319)

SCS-960 ::= INTEGER(0..639)

SCS-SpecificCarrier ::= SEQUENCE {

offsetToCarrier INTEGER (0..2199,...),

subcarrierSpacing ENUMERATED {kHz15, kHz30, kHz60, kHz120,..., kHz480, kHz960},

carrierBandwidth INTEGER (1..275,...),

iE-Extensions ProtocolExtensionContainer { { SCS-SpecificCarrier-ExtIEs } } OPTIONAL

}

SCS-SpecificCarrier-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SDT-MACPHY-Config ::= OCTET STRING

SDTInformation ::= SEQUENCE {

sdtIndicator ENUMERATED {true,...},

sdtAssistantInformation ENUMERATED {singlepacket, multiplepackets,...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SDTInformation-ExtIEs } } OPTIONAL

}

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- T

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

TimeStampSlotIndex ::= CHOICE {

sCS-15 INTEGER(0..9),

sCS-30 INTEGER(0..19),

sCS-60 INTEGER(0..39),

sCS-120 INTEGER(0..79),

choice-extension ProtocolIE-SingleContainer { { TimeStampSlotIndex-ExtIEs} }

}

TimeStampSlotIndex-ExtIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCS-480 CRITICALITY reject TYPE SCS-480 PRESENCE mandatory}|

{ ID id-SCS-960 CRITICALITY reject TYPE SCS-960 PRESENCE mandatory},

...

}

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

### 9.4.7 Constant Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Constant definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

////////////////////////////////////////////////////////////////////////skip unchanged////////////////////////////////////////////////////////////////////////

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-Cause ProtocolIE-ID ::= 0

id-Cells-Failed-to-be-Activated-List ProtocolIE-ID ::= 1

id-Cells-Failed-to-be-Activated-List-Item ProtocolIE-ID ::= 2

id-Cells-to-be-Activated-List ProtocolIE-ID ::= 3

id-Cells-to-be-Activated-List-Item ProtocolIE-ID ::= 4

id-Cells-to-be-Deactivated-List ProtocolIE-ID ::= 5

id-Cells-to-be-Deactivated-List-Item ProtocolIE-ID ::= 6

id-CriticalityDiagnostics ProtocolIE-ID ::= 7

id-CUtoDURRCInformation ProtocolIE-ID ::= 9

id-DRBs-FailedToBeModified-Item ProtocolIE-ID ::= 12

id-DRBs-FailedToBeModified-List ProtocolIE-ID ::= 13

id-DRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 14

id-DRBs-FailedToBeSetup-List ProtocolIE-ID ::= 15

id-DRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 16

id-DRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 17

id-DRBs-ModifiedConf-Item ProtocolIE-ID ::= 18

id-DRBs-ModifiedConf-List ProtocolIE-ID ::= 19

id-DRBs-Modified-Item ProtocolIE-ID ::= 20

id-DRBs-Modified-List ProtocolIE-ID ::= 21

id-DRBs-Required-ToBeModified-Item ProtocolIE-ID ::= 22

id-DRBs-Required-ToBeModified-List ProtocolIE-ID ::= 23

id-DRBs-Required-ToBeReleased-Item ProtocolIE-ID ::= 24

id-DRBs-Required-ToBeReleased-List ProtocolIE-ID ::= 25

id-DRBs-Setup-Item ProtocolIE-ID ::= 26

id-DRBs-Setup-List ProtocolIE-ID ::= 27

id-DRBs-SetupMod-Item ProtocolIE-ID ::= 28

id-DRBs-SetupMod-List ProtocolIE-ID ::= 29

id-DRBs-ToBeModified-Item ProtocolIE-ID ::= 30

id-DRBs-ToBeModified-List ProtocolIE-ID ::= 31

id-DRBs-ToBeReleased-Item ProtocolIE-ID ::= 32

id-DRBs-ToBeReleased-List ProtocolIE-ID ::= 33

id-DRBs-ToBeSetup-Item ProtocolIE-ID ::= 34

id-DRBs-ToBeSetup-List ProtocolIE-ID ::= 35

id-DRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 36

id-DRBs-ToBeSetupMod-List ProtocolIE-ID ::= 37

id-DRXCycle ProtocolIE-ID ::= 38

id-DUtoCURRCInformation ProtocolIE-ID ::= 39

id-gNB-CU-UE-F1AP-ID ProtocolIE-ID ::= 40

id-gNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 41

id-gNB-DU-ID ProtocolIE-ID ::= 42

id-GNB-DU-Served-Cells-Item ProtocolIE-ID ::= 43

id-gNB-DU-Served-Cells-List ProtocolIE-ID ::= 44

id-gNB-DU-Name ProtocolIE-ID ::= 45

id-NRCellID ProtocolIE-ID ::= 46

id-oldgNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 47

id-ResetType ProtocolIE-ID ::= 48

id-ResourceCoordinationTransferContainer ProtocolIE-ID ::= 49

id-RRCContainer ProtocolIE-ID ::= 50

id-SCell-ToBeRemoved-Item ProtocolIE-ID ::= 51

id-SCell-ToBeRemoved-List ProtocolIE-ID ::= 52

id-SCell-ToBeSetup-Item ProtocolIE-ID ::= 53

id-SCell-ToBeSetup-List ProtocolIE-ID ::= 54

id-SCell-ToBeSetupMod-Item ProtocolIE-ID ::= 55

id-SCell-ToBeSetupMod-List ProtocolIE-ID ::= 56

id-Served-Cells-To-Add-Item ProtocolIE-ID ::= 57

id-Served-Cells-To-Add-List ProtocolIE-ID ::= 58

id-Served-Cells-To-Delete-Item ProtocolIE-ID ::= 59

id-Served-Cells-To-Delete-List ProtocolIE-ID ::= 60

id-Served-Cells-To-Modify-Item ProtocolIE-ID ::= 61

id-Served-Cells-To-Modify-List ProtocolIE-ID ::= 62

id-SpCell-ID ProtocolIE-ID ::= 63

id-SRBID ProtocolIE-ID ::= 64

id-SRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 65

id-SRBs-FailedToBeSetup-List ProtocolIE-ID ::= 66

id-SRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 67

id-SRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 68

id-SRBs-Required-ToBeReleased-Item ProtocolIE-ID ::= 69

id-SRBs-Required-ToBeReleased-List ProtocolIE-ID ::= 70

id-SRBs-ToBeReleased-Item ProtocolIE-ID ::= 71

id-SRBs-ToBeReleased-List ProtocolIE-ID ::= 72

id-SRBs-ToBeSetup-Item ProtocolIE-ID ::= 73

id-SRBs-ToBeSetup-List ProtocolIE-ID ::= 74

id-SRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 75

id-SRBs-ToBeSetupMod-List ProtocolIE-ID ::= 76

id-TimeToWait ProtocolIE-ID ::= 77

id-TransactionID ProtocolIE-ID ::= 78

id-TransmissionActionIndicator ProtocolIE-ID ::= 79

id-UE-associatedLogicalF1-ConnectionItem ProtocolIE-ID ::= 80

id-UE-associatedLogicalF1-ConnectionListResAck ProtocolIE-ID ::= 81

id-gNB-CU-Name ProtocolIE-ID ::= 82

id-SCell-FailedtoSetup-List ProtocolIE-ID ::= 83

id-SCell-FailedtoSetup-Item ProtocolIE-ID ::= 84

id-SCell-FailedtoSetupMod-List ProtocolIE-ID ::= 85

id-SCell-FailedtoSetupMod-Item ProtocolIE-ID ::= 86

id-RRCReconfigurationCompleteIndicator ProtocolIE-ID ::= 87

id-Cells-Status-Item ProtocolIE-ID ::= 88

id-Cells-Status-List ProtocolIE-ID ::= 89

id-Candidate-SpCell-List ProtocolIE-ID ::= 90

id-Candidate-SpCell-Item ProtocolIE-ID ::= 91

id-Potential-SpCell-List ProtocolIE-ID ::= 92

id-Potential-SpCell-Item ProtocolIE-ID ::= 93

id-FullConfiguration ProtocolIE-ID ::= 94

id-C-RNTI ProtocolIE-ID ::= 95

id-SpCellULConfigured ProtocolIE-ID ::= 96

id-InactivityMonitoringRequest ProtocolIE-ID ::= 97

id-InactivityMonitoringResponse ProtocolIE-ID ::= 98

id-DRB-Activity-Item ProtocolIE-ID ::= 99

id-DRB-Activity-List ProtocolIE-ID ::= 100

id-EUTRA-NR-CellResourceCoordinationReq-Container ProtocolIE-ID ::= 101

id-EUTRA-NR-CellResourceCoordinationReqAck-Container ProtocolIE-ID ::= 102

id-Protected-EUTRA-Resources-List ProtocolIE-ID ::= 105

id-RequestType ProtocolIE-ID ::= 106

id-ServCellIndex ProtocolIE-ID ::= 107

id-RAT-FrequencyPriorityInformation ProtocolIE-ID ::= 108

id-ExecuteDuplication ProtocolIE-ID ::= 109

id-NRCGI ProtocolIE-ID ::= 111

id-PagingCell-Item ProtocolIE-ID ::= 112

id-PagingCell-List ProtocolIE-ID ::= 113

id-PagingDRX ProtocolIE-ID ::= 114

id-PagingPriority ProtocolIE-ID ::= 115

id-SItype-List ProtocolIE-ID ::= 116

id-UEIdentityIndexValue ProtocolIE-ID ::= 117

id-gNB-CUSystemInformation ProtocolIE-ID ::= 118

id-HandoverPreparationInformation ProtocolIE-ID ::= 119

id-GNB-CU-TNL-Association-To-Add-Item ProtocolIE-ID ::= 120

id-GNB-CU-TNL-Association-To-Add-List ProtocolIE-ID ::= 121

id-GNB-CU-TNL-Association-To-Remove-Item ProtocolIE-ID ::= 122

id-GNB-CU-TNL-Association-To-Remove-List ProtocolIE-ID ::= 123

id-GNB-CU-TNL-Association-To-Update-Item ProtocolIE-ID ::= 124

id-GNB-CU-TNL-Association-To-Update-List ProtocolIE-ID ::= 125

id-MaskedIMEISV ProtocolIE-ID ::= 126

id-PagingIdentity ProtocolIE-ID ::= 127

id-DUtoCURRCContainer ProtocolIE-ID ::= 128

id-Cells-to-be-Barred-List ProtocolIE-ID ::= 129

id-Cells-to-be-Barred-Item ProtocolIE-ID ::= 130

id-TAISliceSupportList ProtocolIE-ID ::= 131

id-GNB-CU-TNL-Association-Setup-List ProtocolIE-ID ::= 132

id-GNB-CU-TNL-Association-Setup-Item ProtocolIE-ID ::= 133

id-GNB-CU-TNL-Association-Failed-To-Setup-List ProtocolIE-ID ::= 134

id-GNB-CU-TNL-Association-Failed-To-Setup-Item ProtocolIE-ID ::= 135

id-DRB-Notify-Item ProtocolIE-ID ::= 136

id-DRB-Notify-List ProtocolIE-ID ::= 137

id-NotficationControl ProtocolIE-ID ::= 138

id-RANAC ProtocolIE-ID ::= 139

id-PWSSystemInformation ProtocolIE-ID ::= 140

id-RepetitionPeriod ProtocolIE-ID ::= 141

id-NumberofBroadcastRequest ProtocolIE-ID ::= 142

id-Cells-To-Be-Broadcast-List ProtocolIE-ID ::= 144

id-Cells-To-Be-Broadcast-Item ProtocolIE-ID ::= 145

id-Cells-Broadcast-Completed-List ProtocolIE-ID ::= 146

id-Cells-Broadcast-Completed-Item ProtocolIE-ID ::= 147

id-Broadcast-To-Be-Cancelled-List ProtocolIE-ID ::= 148

id-Broadcast-To-Be-Cancelled-Item ProtocolIE-ID ::= 149

id-Cells-Broadcast-Cancelled-List ProtocolIE-ID ::= 150

id-Cells-Broadcast-Cancelled-Item ProtocolIE-ID ::= 151

id-NR-CGI-List-For-Restart-List ProtocolIE-ID ::= 152

id-NR-CGI-List-For-Restart-Item ProtocolIE-ID ::= 153

id-PWS-Failed-NR-CGI-List ProtocolIE-ID ::= 154

id-PWS-Failed-NR-CGI-Item ProtocolIE-ID ::= 155

id-ConfirmedUEID ProtocolIE-ID ::= 156

id-Cancel-all-Warning-Messages-Indicator ProtocolIE-ID ::= 157

id-GNB-DU-UE-AMBR-UL ProtocolIE-ID ::= 158

id-DRXConfigurationIndicator ProtocolIE-ID ::= 159

id-RLC-Status ProtocolIE-ID ::= 160

id-DLPDCPSNLength ProtocolIE-ID ::= 161

id-GNB-DUConfigurationQuery ProtocolIE-ID ::= 162

id-MeasurementTimingConfiguration ProtocolIE-ID ::= 163

id-DRB-Information ProtocolIE-ID ::= 164

id-ServingPLMN ProtocolIE-ID ::= 165

id-Protected-EUTRA-Resources-Item ProtocolIE-ID ::= 168

id-GNB-CU-RRC-Version ProtocolIE-ID ::= 170

id-GNB-DU-RRC-Version ProtocolIE-ID ::= 171

id-GNBDUOverloadInformation ProtocolIE-ID ::= 172

id-CellGroupConfig ProtocolIE-ID ::= 173

id-RLCFailureIndication ProtocolIE-ID ::= 174

id-UplinkTxDirectCurrentListInformation ProtocolIE-ID ::= 175

id-DC-Based-Duplication-Configured ProtocolIE-ID ::= 176

id-DC-Based-Duplication-Activation ProtocolIE-ID ::= 177

id-SULAccessIndication ProtocolIE-ID ::= 178

id-AvailablePLMNList ProtocolIE-ID ::= 179

id-PDUSessionID ProtocolIE-ID ::= 180

id-ULPDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 181

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id-UEPagingCapability ProtocolIE-ID ::= 623

id-LastUsedCellIndication ProtocolIE-ID ::= 624

id-SIB17-message ProtocolIE-ID ::= 625

id-GNBDUUESliceMaximumBitRateList ProtocolIE-ID ::= 626

id-SIB20-message ProtocolIE-ID ::= 627

id-UE-MulticastMRBs-ToBeReleased-List ProtocolIE-ID ::= 628

id-UE-MulticastMRBs-ToBeReleased-Item ProtocolIE-ID ::= 629

id-UE-MulticastMRBs-ToBeSetup-List ProtocolIE-ID ::= 630

id-UE-MulticastMRBs-ToBeSetup-Item ProtocolIE-ID ::= 631

id-MulticastMBSSessionSetupList ProtocolIE-ID ::= 632

id-MulticastMBSSessionRemoveList ProtocolIE-ID ::= 633

id-PosMeasurementAmount ProtocolIE-ID ::= 634

id-SDT-Termination-Request ProtocolIE-ID ::= 635

id-pathPower ProtocolIE-ID ::= 636

id-DU-RX-MT-RX-Extend ProtocolIE-ID ::= 637

id-DU-TX-MT-TX-Extend ProtocolIE-ID ::= 638

id-DU-RX-MT-TX-Extend ProtocolIE-ID ::= 639

id-DU-TX-MT-RX-Extend ProtocolIE-ID ::= 640

id-BAP-Header-Rewriting-Removed-List ProtocolIE-ID ::= 641

id-BAP-Header-Rewriting-Removed-List-Item ProtocolIE-ID ::= 642

id-SLDRXCycleList ProtocolIE-ID ::= 643

id-TAINSAGSupportList ProtocolIE-ID ::= 644

id-SL-RLC-ChannelToAddModList ProtocolIE-ID ::= 645

id-BroadcastAreaScope ProtocolIE-ID ::= 646

id-ManagementBasedMDTPLMNModificationList ProtocolIE-ID ::= 647

id-SIB15-message ProtocolIE-ID ::= 648

id-ActivationRequestType ProtocolIE-ID ::= 649

id-PosMeasGapPreConfigList ProtocolIE-ID ::= 650

id-L571Info ProtocolIE-ID ::= aaa

id-L1151Info ProtocolIE-ID ::= bbb

id-SCS-480 ProtocolIE-ID ::= ccc

id-SCS-960 ProtocolIE-ID ::= ddd

END

-- ASN1STOP

////////////////////////////////////////////////////////////////////////end of change////////////////////////////////////////////////////////////////////////