**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:*** | | The FR2-2 feature is not supported in the split architecture. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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, ...,scs480, 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 |

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| --- | --- |
| 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, …, scs480, 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]. | YES | reject |
| >>>>Root Sequence Index | M |  | INTEGER (0..569) | See Section 6.3.3.1 in TS 38.211 [33]. | YES | 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]. | YES | reject |
| >>>>Root Sequence Index | M |  | INTEGER (0..1169) | See Section 6.3.3.1 in TS 38.211 [33]. | YES | 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.

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| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| 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) |  | YES | reject |
| *>SCS-960* |  |  |  |  | - |  |
| >>SCS-960 | M |  | INTEGER(0..639) |  | YES | reject |
| 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

id-ServingCellMO ProtocolIE-ID ::= 182

id-QoSFlowMappingIndication ProtocolIE-ID ::= 183

id-RRCDeliveryStatusRequest ProtocolIE-ID ::= 184

id-RRCDeliveryStatus ProtocolIE-ID ::= 185

id-BearerTypeChange ProtocolIE-ID ::= 186

id-RLCMode ProtocolIE-ID ::= 187

id-Duplication-Activation ProtocolIE-ID ::= 188

id-Dedicated-SIDelivery-NeededUE-List ProtocolIE-ID ::= 189

id-Dedicated-SIDelivery-NeededUE-Item ProtocolIE-ID ::= 190

id-DRX-LongCycleStartOffset ProtocolIE-ID ::= 191

id-ULPDCPSNLength ProtocolIE-ID ::= 192

id-SelectedBandCombinationIndex ProtocolIE-ID ::= 193

id-SelectedFeatureSetEntryIndex ProtocolIE-ID ::= 194

id-ResourceCoordinationTransferInformation ProtocolIE-ID ::= 195

id-ExtendedServedPLMNs-List ProtocolIE-ID ::= 196

id-ExtendedAvailablePLMN-List ProtocolIE-ID ::= 197

id-Associated-SCell-List ProtocolIE-ID ::= 198

id-latest-RRC-Version-Enhanced ProtocolIE-ID ::= 199

id-Associated-SCell-Item ProtocolIE-ID ::= 200

id-Cell-Direction ProtocolIE-ID ::= 201

id-SRBs-Setup-List ProtocolIE-ID ::= 202

id-SRBs-Setup-Item ProtocolIE-ID ::= 203

id-SRBs-SetupMod-List ProtocolIE-ID ::= 204

id-SRBs-SetupMod-Item ProtocolIE-ID ::= 205

id-SRBs-Modified-List ProtocolIE-ID ::= 206

id-SRBs-Modified-Item ProtocolIE-ID ::= 207

id-Ph-InfoSCG ProtocolIE-ID ::= 208

id-RequestedBandCombinationIndex ProtocolIE-ID ::= 209

id-RequestedFeatureSetEntryIndex ProtocolIE-ID ::= 210

id-RequestedP-MaxFR2 ProtocolIE-ID ::= 211

id-DRX-Config ProtocolIE-ID ::= 212

id-IgnoreResourceCoordinationContainer ProtocolIE-ID ::= 213

id-UEAssistanceInformation ProtocolIE-ID ::= 214

id-NeedforGap ProtocolIE-ID ::= 215

id-PagingOrigin ProtocolIE-ID ::= 216

id-new-gNB-CU-UE-F1AP-ID ProtocolIE-ID ::= 217

id-RedirectedRRCmessage ProtocolIE-ID ::= 218

id-new-gNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 219

id-NotificationInformation ProtocolIE-ID ::= 220

id-PLMNAssistanceInfoForNetShar ProtocolIE-ID ::= 221

id-UEContextNotRetrievable ProtocolIE-ID ::= 222

id-BPLMN-ID-Info-List ProtocolIE-ID ::= 223

id-SelectedPLMNID ProtocolIE-ID ::= 224

id-UAC-Assistance-Info ProtocolIE-ID ::= 225

id-RANUEID ProtocolIE-ID ::= 226

id-GNB-DU-TNL-Association-To-Remove-Item ProtocolIE-ID ::= 227

id-GNB-DU-TNL-Association-To-Remove-List ProtocolIE-ID ::= 228

id-TNLAssociationTransportLayerAddressgNBDU ProtocolIE-ID ::= 229

id-portNumber ProtocolIE-ID ::= 230

id-AdditionalSIBMessageList ProtocolIE-ID ::= 231

id-Cell-Type ProtocolIE-ID ::= 232

id-IgnorePRACHConfiguration ProtocolIE-ID ::= 233

id-CG-Config ProtocolIE-ID ::= 234

id-PDCCH-BlindDetectionSCG ProtocolIE-ID ::= 235

id-Requested-PDCCH-BlindDetectionSCG ProtocolIE-ID ::= 236

id-Ph-InfoMCG ProtocolIE-ID ::= 237

id-MeasGapSharingConfig ProtocolIE-ID ::= 238

id-systemInformationAreaID ProtocolIE-ID ::= 239

id-areaScope ProtocolIE-ID ::= 240

id-RRCContainer-RRCSetupComplete ProtocolIE-ID ::= 241

id-TraceActivation ProtocolIE-ID ::= 242

id-TraceID ProtocolIE-ID ::= 243

id-Neighbour-Cell-Information-List ProtocolIE-ID ::= 244

id-SymbolAllocInSlot ProtocolIE-ID ::= 246

id-NumDLULSymbols ProtocolIE-ID ::= 247

id-AdditionalRRMPriorityIndex ProtocolIE-ID ::= 248

id-DUCURadioInformationType ProtocolIE-ID ::= 249

id-CUDURadioInformationType ProtocolIE-ID ::= 250

id-AggressorgNBSetID ProtocolIE-ID ::= 251

id-VictimgNBSetID ProtocolIE-ID ::= 252

id-LowerLayerPresenceStatusChange ProtocolIE-ID ::= 253

id-Transport-Layer-Address-Info ProtocolIE-ID ::= 254

id-Neighbour-Cell-Information-Item ProtocolIE-ID ::= 255

id-IntendedTDD-DL-ULConfig ProtocolIE-ID ::= 256

id-QosMonitoringRequest ProtocolIE-ID ::= 257

id-BHChannels-ToBeSetup-List ProtocolIE-ID ::= 258

id-BHChannels-ToBeSetup-Item ProtocolIE-ID ::= 259

id-BHChannels-Setup-List ProtocolIE-ID ::= 260

id-BHChannels-Setup-Item ProtocolIE-ID ::= 261

id-BHChannels-ToBeModified-Item ProtocolIE-ID ::= 262

id-BHChannels-ToBeModified-List ProtocolIE-ID ::= 263

id-BHChannels-ToBeReleased-Item ProtocolIE-ID ::= 264

id-BHChannels-ToBeReleased-List ProtocolIE-ID ::= 265

id-BHChannels-ToBeSetupMod-Item ProtocolIE-ID ::= 266

id-BHChannels-ToBeSetupMod-List ProtocolIE-ID ::= 267

id-BHChannels-FailedToBeModified-Item ProtocolIE-ID ::= 268

id-BHChannels-FailedToBeModified-List ProtocolIE-ID ::= 269

id-BHChannels-FailedToBeSetupMod-Item ProtocolIE-ID ::= 270

id-BHChannels-FailedToBeSetupMod-List ProtocolIE-ID ::= 271

id-BHChannels-Modified-Item ProtocolIE-ID ::= 272

id-BHChannels-Modified-List ProtocolIE-ID ::= 273

id-BHChannels-SetupMod-Item ProtocolIE-ID ::= 274

id-BHChannels-SetupMod-List ProtocolIE-ID ::= 275

id-BHChannels-Required-ToBeReleased-Item ProtocolIE-ID ::= 276

id-BHChannels-Required-ToBeReleased-List ProtocolIE-ID ::= 277

id-BHChannels-FailedToBeSetup-Item ProtocolIE-ID ::= 278

id-BHChannels-FailedToBeSetup-List ProtocolIE-ID ::= 279

id-BHInfo ProtocolIE-ID ::= 280

id-BAPAddress ProtocolIE-ID ::= 281

id-ConfiguredBAPAddress ProtocolIE-ID ::= 282

id-BH-Routing-Information-Added-List ProtocolIE-ID ::= 283

id-BH-Routing-Information-Added-List-Item ProtocolIE-ID ::= 284

id-BH-Routing-Information-Removed-List ProtocolIE-ID ::= 285

id-BH-Routing-Information-Removed-List-Item ProtocolIE-ID ::= 286

id-UL-BH-Non-UP-Traffic-Mapping ProtocolIE-ID ::= 287

id-Activated-Cells-to-be-Updated-List ProtocolIE-ID ::= 288

id-Child-Nodes-List ProtocolIE-ID ::= 289

id-IAB-Info-IAB-DU ProtocolIE-ID ::= 290

id-IAB-Info-IAB-donor-CU ProtocolIE-ID ::= 291

id-IAB-TNL-Addresses-To-Remove-List ProtocolIE-ID ::= 292

id-IAB-TNL-Addresses-To-Remove-Item ProtocolIE-ID ::= 293

id-IAB-Allocated-TNL-Address-List ProtocolIE-ID ::= 294

id-IAB-Allocated-TNL-Address-Item ProtocolIE-ID ::= 295

id-IABIPv6RequestType ProtocolIE-ID ::= 296

id-IABv4AddressesRequested ProtocolIE-ID ::= 297

id-IAB-Barred ProtocolIE-ID ::= 298

id-TrafficMappingInformation ProtocolIE-ID ::= 299

id-UL-UP-TNL-Information-to-Update-List ProtocolIE-ID ::= 300

id-UL-UP-TNL-Information-to-Update-List-Item ProtocolIE-ID ::= 301

id-UL-UP-TNL-Address-to-Update-List ProtocolIE-ID ::= 302

id-UL-UP-TNL-Address-to-Update-List-Item ProtocolIE-ID ::= 303

id-DL-UP-TNL-Address-to-Update-List ProtocolIE-ID ::= 304

id-DL-UP-TNL-Address-to-Update-List-Item ProtocolIE-ID ::= 305

id-NRV2XServicesAuthorized ProtocolIE-ID ::= 306

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 307

id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 308

id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 309

id-SIB12-message ProtocolIE-ID ::= 310

id-SIB13-message ProtocolIE-ID ::= 311

id-SIB14-message ProtocolIE-ID ::= 312

id-SLDRBs-FailedToBeModified-Item ProtocolIE-ID ::= 313

id-SLDRBs-FailedToBeModified-List ProtocolIE-ID ::= 314

id-SLDRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 315

id-SLDRBs-FailedToBeSetup-List ProtocolIE-ID ::= 316

id-SLDRBs-Modified-Item ProtocolIE-ID ::= 317

id-SLDRBs-Modified-List ProtocolIE-ID ::= 318

id-SLDRBs-Required-ToBeModified-Item ProtocolIE-ID ::= 319

id-SLDRBs-Required-ToBeModified-List ProtocolIE-ID ::= 320

id-SLDRBs-Required-ToBeReleased-Item ProtocolIE-ID ::= 321

id-SLDRBs-Required-ToBeReleased-List ProtocolIE-ID ::= 322

id-SLDRBs-Setup-Item ProtocolIE-ID ::= 323

id-SLDRBs-Setup-List ProtocolIE-ID ::= 324

id-SLDRBs-ToBeModified-Item ProtocolIE-ID ::= 325

id-SLDRBs-ToBeModified-List ProtocolIE-ID ::= 326

id-SLDRBs-ToBeReleased-Item ProtocolIE-ID ::= 327

id-SLDRBs-ToBeReleased-List ProtocolIE-ID ::= 328

id-SLDRBs-ToBeSetup-Item ProtocolIE-ID ::= 329

id-SLDRBs-ToBeSetup-List ProtocolIE-ID ::= 330

id-SLDRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 331

id-SLDRBs-ToBeSetupMod-List ProtocolIE-ID ::= 332

id-SLDRBs-SetupMod-List ProtocolIE-ID ::= 333

id-SLDRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 334

id-SLDRBs-SetupMod-Item ProtocolIE-ID ::= 335

id-SLDRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 336

id-SLDRBs-ModifiedConf-List ProtocolIE-ID ::= 337

id-SLDRBs-ModifiedConf-Item ProtocolIE-ID ::= 338

id-UEAssistanceInformationEUTRA ProtocolIE-ID ::= 339

id-PC5LinkAMBR ProtocolIE-ID ::= 340

id-SL-PHY-MAC-RLC-Config ProtocolIE-ID ::= 341

id-SL-ConfigDedicatedEUTRA-Info ProtocolIE-ID ::= 342

id-AlternativeQoSParaSetList ProtocolIE-ID ::= 343

id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 344

id-gNBCUMeasurementID ProtocolIE-ID ::= 345

id-gNBDUMeasurementID ProtocolIE-ID ::= 346

id-RegistrationRequest ProtocolIE-ID ::= 347

id-ReportCharacteristics ProtocolIE-ID ::= 348

id-CellToReportList ProtocolIE-ID ::= 349

id-CellMeasurementResultList ProtocolIE-ID ::= 350

id-HardwareLoadIndicator ProtocolIE-ID ::= 351

id-ReportingPeriodicity ProtocolIE-ID ::= 352

id-TNLCapacityIndicator ProtocolIE-ID ::= 353

id-CarrierList ProtocolIE-ID ::= 354

id-ULCarrierList ProtocolIE-ID ::= 355

id-FrequencyShift7p5khz ProtocolIE-ID ::= 356

id-SSB-PositionsInBurst ProtocolIE-ID ::= 357

id-NRPRACHConfig ProtocolIE-ID ::= 358

id-RACHReportInformationList ProtocolIE-ID ::= 359

id-RLFReportInformationList ProtocolIE-ID ::= 360

id-TDD-UL-DLConfigCommonNR ProtocolIE-ID ::= 361

id-CNPacketDelayBudgetDownlink ProtocolIE-ID ::= 362

id-ExtendedPacketDelayBudget ProtocolIE-ID ::= 363

id-TSCTrafficCharacteristics ProtocolIE-ID ::= 364

id-ReportingRequestType ProtocolIE-ID ::= 365

id-TimeReferenceInformation ProtocolIE-ID ::= 366

id-CNPacketDelayBudgetUplink ProtocolIE-ID ::= 369

id-AdditionalPDCPDuplicationTNL-List ProtocolIE-ID ::= 370

id-RLCDuplicationInformation ProtocolIE-ID ::= 371

id-AdditionalDuplicationIndication ProtocolIE-ID ::= 372

id-ConditionalInterDUMobilityInformation ProtocolIE-ID ::= 373

id-ConditionalIntraDUMobilityInformation ProtocolIE-ID ::= 374

id-targetCellsToCancel ProtocolIE-ID ::= 375

id-requestedTargetCellGlobalID ProtocolIE-ID ::= 376

id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 377

id-TraceCollectionEntityIPAddress ProtocolIE-ID ::= 378

id-PrivacyIndicator ProtocolIE-ID ::= 379

id-TraceCollectionEntityURI ProtocolIE-ID ::= 380

id-mdtConfiguration ProtocolIE-ID ::= 381

id-ServingNID ProtocolIE-ID ::= 382

id-NPNBroadcastInformation ProtocolIE-ID ::= 383

id-NPNSupportInfo ProtocolIE-ID ::= 384

id-NID ProtocolIE-ID ::= 385

id-AvailableSNPN-ID-List ProtocolIE-ID ::= 386

id-SIB10-message ProtocolIE-ID ::= 387

id-DLCarrierList ProtocolIE-ID ::= 389

id-ExtendedTAISliceSupportList ProtocolIE-ID ::= 390

id-RequestedSRSTransmissionCharacteristics ProtocolIE-ID ::= 391

id-PosAssistance-Information ProtocolIE-ID ::= 392

id-PosBroadcast ProtocolIE-ID ::= 393

id-RoutingID ProtocolIE-ID ::= 394

id-PosAssistanceInformationFailureList ProtocolIE-ID ::= 395

id-PosMeasurementQuantities ProtocolIE-ID ::= 396

id-PosMeasurementResultList ProtocolIE-ID ::= 397

id-TRPInformationTypeListTRPReq ProtocolIE-ID ::= 398

id-TRPInformationTypeItem ProtocolIE-ID ::= 399

id-TRPInformationListTRPResp ProtocolIE-ID ::= 400

id-TRPInformationItem ProtocolIE-ID ::= 401

id-LMF-MeasurementID ProtocolIE-ID ::= 402

id-SRSType ProtocolIE-ID ::= 403

id-ActivationTime ProtocolIE-ID ::= 404

id-AbortTransmission ProtocolIE-ID ::= 405

id-PositioningBroadcastCells ProtocolIE-ID ::= 406

id-SRSConfiguration ProtocolIE-ID ::= 407

id-PosReportCharacteristics ProtocolIE-ID ::= 408

id-PosMeasurementPeriodicity ProtocolIE-ID ::= 409

id-TRPList ProtocolIE-ID ::= 410

id-RAN-MeasurementID ProtocolIE-ID ::= 411

id-LMF-UE-MeasurementID ProtocolIE-ID ::= 412

id-RAN-UE-MeasurementID ProtocolIE-ID ::= 413

id-E-CID-MeasurementQuantities ProtocolIE-ID ::= 414

id-E-CID-MeasurementQuantities-Item ProtocolIE-ID ::= 415

id-E-CID-MeasurementPeriodicity ProtocolIE-ID ::= 416

id-E-CID-MeasurementResult ProtocolIE-ID ::= 417

id-Cell-Portion-ID ProtocolIE-ID ::= 418

id-SFNInitialisationTime ProtocolIE-ID ::= 419

id-SystemFrameNumber ProtocolIE-ID ::= 420

id-SlotNumber ProtocolIE-ID ::= 421

id-TRP-MeasurementRequestList ProtocolIE-ID ::= 422

id-MeasurementBeamInfoRequest ProtocolIE-ID ::= 423

id-E-CID-ReportCharacteristics ProtocolIE-ID ::= 424

id-ConfiguredTACIndication ProtocolIE-ID ::= 425

id-Extended-GNB-CU-Name ProtocolIE-ID ::= 426

id-Extended-GNB-DU-Name ProtocolIE-ID ::= 427

id-F1CTransferPath ProtocolIE-ID ::= 428

id-SFN-Offset ProtocolIE-ID ::= 429

id-TransmissionStopIndicator ProtocolIE-ID ::= 430

id-SrsFrequency ProtocolIE-ID ::= 431

id-SCGIndicator ProtocolIE-ID ::= 432

id-EstimatedArrivalProbability ProtocolIE-ID ::= 433

id-TRPType ProtocolIE-ID ::= 434

id-SRSSpatialRelationPerSRSResource ProtocolIE-ID ::= 435

id-PDCPTerminatingNodeDLTNLAddrInfo ProtocolIE-ID ::= 436

id-ENBDLTNLAddress ProtocolIE-ID ::= 437

id-PosMeasurementPeriodicityExtended ProtocolIE-ID ::= 438

id-PRS-Resource-ID ProtocolIE-ID ::= 439

id-LocationMeasurementInformation ProtocolIE-ID ::= 440

id-SliceRadioResourceStatus ProtocolIE-ID ::= 441

id-CompositeAvailableCapacity-SUL ProtocolIE-ID ::= 442

id-SuccessfulHOReportInformationList ProtocolIE-ID ::= 443

id-NR-U-Channel-List ProtocolIE-ID ::= 444

id-NR-U ProtocolIE-ID ::= 445

id-Coverage-Modification-Notification ProtocolIE-ID ::= 446

id-CCO-Assistance-Information ProtocolIE-ID ::= 447

id-Neighbor-node-CCO-Assistance-Information-List ProtocolIE-ID ::= 448

id-CellsForSON-List ProtocolIE-ID ::= 449

id-MIMOPRBusageInformation ProtocolIE-ID ::= 450

id-gNB-CU-MBS-F1AP-ID ProtocolIE-ID ::= 451

id-gNB-DU-MBS-F1AP-ID ProtocolIE-ID ::= 452

id-MBS-Area-Session-ID ProtocolIE-ID ::= 453

id-MBS-CUtoDURRCInformation ProtocolIE-ID ::= 454

id-MBS-Session-ID ProtocolIE-ID ::= 455

id-SNSSAI ProtocolIE-ID ::= 456

id-MBS-Broadcast-NeighbourCellList ProtocolIE-ID ::= 457

id-BroadcastMRBs-FailedToBeModified-List ProtocolIE-ID ::= 458

id-BroadcastMRBs-FailedToBeModified-Item ProtocolIE-ID ::= 459

id-BroadcastMRBs-FailedToBeSetup-List ProtocolIE-ID ::= 460

id-BroadcastMRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 461

id-BroadcastMRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 462

id-BroadcastMRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 463

id-BroadcastMRBs-Modified-List ProtocolIE-ID ::= 464

id-BroadcastMRBs-Modified-Item ProtocolIE-ID ::= 465

id-BroadcastMRBs-Setup-List ProtocolIE-ID ::= 466

id-BroadcastMRBs-Setup-Item ProtocolIE-ID ::= 467

id-BroadcastMRBs-SetupMod-List ProtocolIE-ID ::= 468

id-BroadcastMRBs-SetupMod-Item ProtocolIE-ID ::= 469

id-BroadcastMRBs-ToBeModified-List ProtocolIE-ID ::= 470

id-BroadcastMRBs-ToBeModified-Item ProtocolIE-ID ::= 471

id-BroadcastMRBs-ToBeReleased-List ProtocolIE-ID ::= 472

id-BroadcastMRBs-ToBeReleased-Item ProtocolIE-ID ::= 473

id-BroadcastMRBs-ToBeSetup-List ProtocolIE-ID ::= 474

id-BroadcastMRBs-ToBeSetup-Item ProtocolIE-ID ::= 475

id-BroadcastMRBs-ToBeSetupMod-List ProtocolIE-ID ::= 476

id-BroadcastMRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 477

id-Supported-MBS-FSA-ID-List ProtocolIE-ID ::= 478

id-UEIdentity-List-For-Paging-List ProtocolIE-ID ::= 479

id-UEIdentity-List-For-Paging-Item ProtocolIE-ID ::= 480

id-MBS-ServiceArea ProtocolIE-ID ::= 481

id-MulticastMRBs-FailedToBeModified-List ProtocolIE-ID ::= 482

id-MulticastMRBs-FailedToBeModified-Item ProtocolIE-ID ::= 483

id-MulticastMRBs-FailedToBeSetup-List ProtocolIE-ID ::= 484

id-MulticastMRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 485

id-MulticastMRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 486

id-MulticastMRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 487

id-MulticastMRBs-Modified-List ProtocolIE-ID ::= 488

id-MulticastMRBs-Modified-Item ProtocolIE-ID ::= 489

id-MulticastMRBs-Setup-List ProtocolIE-ID ::= 490

id-MulticastMRBs-Setup-Item ProtocolIE-ID ::= 491

id-MulticastMRBs-SetupMod-List ProtocolIE-ID ::= 492

id-MulticastMRBs-SetupMod-Item ProtocolIE-ID ::= 493

id-MulticastMRBs-ToBeModified-List ProtocolIE-ID ::= 494

id-MulticastMRBs-ToBeModified-Item ProtocolIE-ID ::= 495

id-MulticastMRBs-ToBeReleased-List ProtocolIE-ID ::= 496

id-MulticastMRBs-ToBeReleased-Item ProtocolIE-ID ::= 497

id-MulticastMRBs-ToBeSetup-List ProtocolIE-ID ::= 498

id-MulticastMRBs-ToBeSetup-Item ProtocolIE-ID ::= 499

id-MulticastMRBs-ToBeSetupMod-List ProtocolIE-ID ::= 500

id-MulticastMRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 501

id-MBSMulticastF1UContextDescriptor ProtocolIE-ID ::= 502

id-MulticastF1UContext-ToBeSetup-List ProtocolIE-ID ::= 503

id-MulticastF1UContext-ToBeSetup-Item ProtocolIE-ID ::= 504

id-MulticastF1UContext-Setup-List ProtocolIE-ID ::= 505

id-MulticastF1UContext-Setup-Item ProtocolIE-ID ::= 506

id-MulticastF1UContext-FailedToBeSetup-List ProtocolIE-ID ::= 507

id-MulticastF1UContext-FailedToBeSetup-Item ProtocolIE-ID ::= 508

id-IABCongestionIndication ProtocolIE-ID ::= 509

id-IABConditionalRRCMessageDeliveryIndication ProtocolIE-ID ::= 510

id-F1CTransferPathNRDC ProtocolIE-ID ::= 511

id-BufferSizeThresh ProtocolIE-ID ::= 512

id-IAB-TNL-Addresses-Exception ProtocolIE-ID ::= 513

id-BAP-Header-Rewriting-Added-List ProtocolIE-ID ::= 514

id-BAP-Header-Rewriting-Added-List-Item ProtocolIE-ID ::= 515

id-Re-routingEnableIndicator ProtocolIE-ID ::= 516

id-NonF1terminatingTopologyIndicator ProtocolIE-ID ::= 517

id-EgressNonF1terminatingTopologyIndicator ProtocolIE-ID ::= 518

id-IngressNonF1terminatingTopologyIndicator ProtocolIE-ID ::= 519

id-rBSetConfiguration ProtocolIE-ID ::= 520

id-frequency-Domain-HSNA-Configuration-List ProtocolIE-ID ::= 521

id-child-IAB-Nodes-NA-Resource-List ProtocolIE-ID ::= 522

id-Parent-IAB-Nodes-NA-Resource-Configuration-List ProtocolIE-ID ::= 523

id-uL-FreqInfo ProtocolIE-ID ::= 524

id-uL-Transmission-Bandwidth ProtocolIE-ID ::= 525

id-dL-FreqInfo ProtocolIE-ID ::= 526

id-dL-Transmission-Bandwidth ProtocolIE-ID ::= 527

id-uL-NR-Carrier-List ProtocolIE-ID ::= 528

id-dL-NR-Carrier-List ProtocolIE-ID ::= 529

id-nRFreqInfo ProtocolIE-ID ::= 530

id-transmission-Bandwidth ProtocolIE-ID ::= 531

id-nR-Carrier-List ProtocolIE-ID ::= 532

id-Neighbour-Node-Cells-List ProtocolIE-ID ::= 533

id-Serving-Cells-List ProtocolIE-ID ::= 534

id-permutation ProtocolIE-ID ::= 535

id-MDTPollutedMeasurementIndicator ProtocolIE-ID ::= 536

id-M5ReportAmount ProtocolIE-ID ::= 537

id-M6ReportAmount ProtocolIE-ID ::= 538

id-M7ReportAmount ProtocolIE-ID ::= 539

id-SurvivalTime ProtocolIE-ID ::= 540

id-PDCMeasurementPeriodicity ProtocolIE-ID ::= 541

id-PDCMeasurementQuantities ProtocolIE-ID ::= 542

id-PDCMeasurementQuantities-Item ProtocolIE-ID ::= 543

id-PDCMeasurementResult ProtocolIE-ID ::= 544

id-PDCReportType ProtocolIE-ID ::= 545

id-RAN-UE-PDC-MeasID ProtocolIE-ID ::= 546

id-SCGActivationRequest ProtocolIE-ID ::= 547

id-SCGActivationStatus ProtocolIE-ID ::= 548

id-PRSTRPList ProtocolIE-ID ::= 549

id-PRSTransmissionTRPList ProtocolIE-ID ::= 550

id-OnDemandPRS ProtocolIE-ID ::= 551

id-AoA-SearchWindow ProtocolIE-ID ::= 552

id-TRP-MeasurementUpdateList ProtocolIE-ID ::= 553

id-ZoAInformation ProtocolIE-ID ::= 554

id-ResponseTime ProtocolIE-ID ::= 555

id-ARPLocationInfo ProtocolIE-ID ::= 556

id-ARP-ID ProtocolIE-ID ::= 557

id-MultipleULAoA ProtocolIE-ID ::= 558

id-UL-SRS-RSRPP ProtocolIE-ID ::= 559

id-SRSResourcetype ProtocolIE-ID ::= 560

id-ExtendedAdditionalPathList ProtocolIE-ID ::= 561

id-LoS-NLoSInformation ProtocolIE-ID ::= 562

id-NumberOfTRPRxTEG ProtocolIE-ID ::= 564

id-NumberOfTRPRxTxTEG ProtocolIE-ID ::= 565

id-TRPTxTEGAssociation ProtocolIE-ID ::= 566

id-TRPTEGIDInformation ProtocolIE-ID ::= 567

id-TRPRXTEGID ProtocolIE-ID ::= 568

id-TRP-PRS-Info-List ProtocolIE-ID ::= 569

id-PRS-Measurement-Info-List ProtocolIE-ID ::= 570

id-PRSConfigRequestType ProtocolIE-ID ::= 571

id-MeasurementTimeOccasion ProtocolIE-ID ::= 573

id-MeasurementCharacteristicsRequestIndicator ProtocolIE-ID ::= 574

id-UEReportingInformation ProtocolIE-ID ::= 575

id-PosConextRevIndication ProtocolIE-ID ::= 576

id-TRPBeamAntennaInformation ProtocolIE-ID ::= 577

id-NRRedCapUEIndication ProtocolIE-ID ::= 578

id-Redcap-Bcast-Information ProtocolIE-ID ::= 579

id-RANUEPagingDRX ProtocolIE-ID ::= 580

id-CNUEPagingDRX ProtocolIE-ID ::= 581

id-NRPagingeDRXInformation ProtocolIE-ID ::= 582

id-NRPagingeDRXInformationforRRCINACTIVE ProtocolIE-ID ::= 583

id-NR-TADV ProtocolIE-ID ::= 584

id-QoEInformation ProtocolIE-ID ::= 585

id-CG-SDTQueryIndication ProtocolIE-ID ::= 586

id-SDT-MACPHY-Config ProtocolIE-ID ::= 587

id-CG-SDTKeptIndicator ProtocolIE-ID ::= 588

id-CG-SDTindicatorSetup ProtocolIE-ID ::= 589

id-CG-SDTindicatorMod ProtocolIE-ID ::= 590

id-CG-SDTSessionInfoOld ProtocolIE-ID ::= 591

id-SDTInformation ProtocolIE-ID ::= 592

id-SDTRLCBearerConfiguration ProtocolIE-ID ::= 593

id-FiveG-ProSeAuthorized ProtocolIE-ID ::= 594

id-FiveG-ProSeUEPC5AggregateMaximumBitrate ProtocolIE-ID ::= 595

id-FiveG-ProSePC5LinkAMBR ProtocolIE-ID ::= 596

id-SRBMappingInfo ProtocolIE-ID ::= 597

id-DRBMappingInfo ProtocolIE-ID ::= 598

id-UuRLCChannelToBeSetupList ProtocolIE-ID ::= 599

id-UuRLCChannelToBeModifiedList ProtocolIE-ID ::= 600

id-UuRLCChannelToBeReleasedList ProtocolIE-ID ::= 601

id-UuRLCChannelSetupList ProtocolIE-ID ::= 602

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id-UuRLCChannelModifiedList ProtocolIE-ID ::= 604

id-UuRLCChannelFailedToBeModifiedList ProtocolIE-ID ::= 605

id-UuRLCChannelRequiredToBeModifiedList ProtocolIE-ID ::= 606

id-UuRLCChannelRequiredToBeReleasedList ProtocolIE-ID ::= 607

id-PC5RLCChannelToBeSetupList ProtocolIE-ID ::= 608

id-PC5RLCChannelToBeModifiedList ProtocolIE-ID ::= 609

id-PC5RLCChannelToBeReleasedList ProtocolIE-ID ::= 610

id-PC5RLCChannelSetupList ProtocolIE-ID ::= 611

id-PC5RLCChannelFailedToBeSetupList ProtocolIE-ID ::= 612

id-PC5RLCChannelFailedToBeModifiedList ProtocolIE-ID ::= 613

id-PC5RLCChannelRequiredToBeModifiedList ProtocolIE-ID ::= 614

id-PC5RLCChannelRequiredToBeReleasedList ProtocolIE-ID ::= 615

id-PC5RLCChannelModifiedList ProtocolIE-ID ::= 616

id-SidelinkRelayConfiguration ProtocolIE-ID ::= 617

id-UpdatedRemoteUELocalID ProtocolIE-ID ::= 618

id-PathSwitchConfiguration ProtocolIE-ID ::= 619

id-PagingCause ProtocolIE-ID ::= 620

id-MUSIM-GapConfig ProtocolIE-ID ::= 621

id-PEIPSAssistanceInfo ProtocolIE-ID ::= 622

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////////////////////////////////////////////////////////////////////////