**3GPP TSG-RAN WG3 #110-e R3-206961**

**2-12 November 2020 online**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **36.423** | **CR** | **1544** | **rev** |  | **Current version:** | **16.3.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network |  |

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| --- |
|  |
| ***Title:***  | **CR to TS36.423 on the LTE-NR Relative Timing indication** |
|  |  |
| ***Source to WG:*** | **China Telecom, Qualcomm Incorporated, ZTE,CATT** |
| ***Source to TSG:*** | **RAN3** |
|  |  |
| ***Work item code:*** | **TEI16** |  | ***Date:*** | **2020-10-10** |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | **Rel-16** |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | LTE FDD is often deployed in non-synchronized mode (i.e. radio frame boundary of intra-frequency cells is not aligned) to reduce the CRS interference and achieve better system performance, though most of sites in current network are deployed with common synchronisation source (e.g., GPS). NR TDD is deployed in synchronized mode. For any LTE FDD cell, given that the radio frame timing offset between LTE FDD and NR TDD is a random value, we cannot expect OAM based solution could work well, particularly in inter-vendor deployment. Lack of LTE-NR timing information causes mobility and throughput performance issues in EN-DC. |
|  |  |
| ***Summary of change:*** | In EN-DC case, for each NR cell in the *Served NR Cell Information* IE or each E-UTRAN cell in *Served E-UTRA Cell Information* IE, to signal a time offset or common time reference **Impact Analysis:** Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because this is additional information that may be used by receiving node This CR has no impact from functional point of view. The impact can be considered isolated. |
|  |  |
| ***Consequences if not approved:*** | For LTE FDD deployed in non-synchronized mode, Lack of LTE-NR timing information causes mobility and throughput performance issues in EN-DC |
|  |  |
| ***Clauses affected:*** | 9.2.8, 9.2.110, 9.2.xx (new), 9.3.4, 9.3.5, 9.3.7 |
|  |  |
|  | **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:*** |  |

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

### 9.2.8 Served Cell Information

This IE contains cell configuration information of a cell that a neighbour eNB may need for the X2 AP interface.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|  PCI | M |  | INTEGER (0..503, …) | Physical Cell ID | – |  |
| Cell ID | M |  | ECGI9.2.14 |  | – |  |
| TAC | M |  | OCTET STRING(2) | Tracking Area Code | – |  |
| **Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs in SIB1 associated to the E-UTRA Cell Identity in the *Cell ID* IE. | – |  |
| >PLMN Identity | M |  | 9.2.4 |  | – |  |
| CHOICE *EUTRA-Mode-Info* | M |  |  |  | – |  |
| *>FDD* |  |  |  |  |  |  |
| **>>FDD Info** |  | *1* |  |  | – |  |
| >>>UL EARFCN | M |  | EARFCN9.2.26 | Corresponds to NUL in TS 36.104 [16] for E-UTRA operating bands for which it is defined; ignored for E-UTRA operating bands for which NUL is not defined | – |  |
| >>>DL EARFCN | M |  | EARFCN9.2.26 | Corresponds to NDL in TS 36.104 [16] | – |  |
| >>>UL Transmission Bandwidth | M |  | Transmission Bandwidth9.2.27 | Same as DL Transmission Bandwidth in this release; ignored in case UL EARFCN value is ignored | – |  |
| >>>DL Transmission Bandwidth | M |  | Transmission Bandwidth9.2.27 |  | – |  |
| >>>UL EARFCN Extension | O |  | EARFCN Extension9.2.65 | If this IE is present, the value signalled in the *UL EARFCN* IE is ignored. | YES | reject |
| >>>DL EARFCN Extension | O |  | EARFCN Extension9.2.65 | If this IE is present, the value signalled in the *DL EARFCN* IE is ignored. | YES | reject |
| >>>Offset of NB-IoT Channel Number to DL EARFCN | O |  | Offset of NB-IoT Channel Number to EARFCN9.2.94 | Corresponds to MDL in TS 36.104 [16] | YES | reject |
| >>>Offset of NB-IoT Channel Number to UL EARFCN | O |  | Offset of NB-IoT Channel Number to EARFCN9.2.94 | Corresponds to MUL in TS 36.104 [16] | YES | reject |
| >>>NRS-NSSS-PowerOffset | O |  | ENUMERATED (-3, 0, 3, …) | NRS to NSSS power ratio,as defined in TS6.213 [11]. | YES | Ignore |
| >>>NSSS-NumOccasionDifferentPrecoder | O |  | ENUMERATED (2, 4, 8, …) | The number of consecutive NSSS occasions that use different precoders for NSSS transmission, as defined in TS6.213 [11]. | YES | ignore |
| *>TDD* |  |  |  |  | – |  |
| **>>TDD Info** |  | *1* |  |  | – |  |
| >>>EARFCN | M |  | 9.2.26 | Corresponds to NDL/NUL in TS 36.104 [16] | – |  |
| >>>Transmission Bandwidth | M |  | Transmission Bandwidth9.2.27 |  | – |  |
| >>>Subframe Assignment | M |  | ENUMERATED(sa0, sa1, sa2, sa3, sa4, sa5, sa6,…) | Uplink-downlink subframe configuration information defined in TS 36.211 [10].In NB-IOT, sa0 and sa6 are not applicable. | – |  |
| **>>>Special Subframe Info** |  | *1* |  | Special subframe configuration information defined in TS 36.211 [10] | – |  |
| >>>>Special Subframe Patterns | M |  | ENUMERATED(ssp0, ssp1, ssp2, ssp3, ssp4, ssp5, ssp6, ssp7, ssp8, …) |  | – |  |
| >>>>Cyclic Prefix DL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| >>>>Cyclic Prefix UL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| **>>>Additional Special Subframe Info** | O |  |  | Special subframe configuration information defined in TS 36.211 [10]. Only for newly defined configuration of special subframe from Release 11. | YES | ignore |
| >>>>Additional Special Subframe Patterns | M |  | ENUMERATED(ssp0, ssp1, ssp2, ssp3, ssp4, ssp5, ssp6, ssp7, ssp8, ssp9, …) |  | – |  |
| >>>>Cyclic Prefix DL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| >>>>Cyclic Prefix UL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| >>>EARFCN Extension | O |  | 9.2.65 | If this IE is present, the value signalled in the *EARFCN* IE is ignored. | YES | reject |
| **>>>Additional Special Subframe Extension Info** | O |  |  | Special subframe configuration information defined in TS 36.211 [10]. Only for newly defined configuration of special subframe from Release 14. | YES | ignore |
| >>>>Additional Special Subframe Patterns Extension | M |  | ENUMERATED(ssp10, …) |  | – |  |
| >>>>Cyclic Prefix DL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| >>>>Cyclic Prefix UL | M |  | ENUMERATED(Normal, Extended,…) |  | – |  |
| >>>Offset of NB-IoT Channel Number to DL EARFCN | O |  | Offset of NB-IoT Channel Number to EARFCN9.2.94 | Corresponds to MDL in TS 36.104 [16] | YES | reject |
| >>>NB-IoT UL DL Alignment Offset | O |  | NB-IoT UL DL Alignment Offset 9.2.144 | Corresponds to the TDD-UL-DL-AlignmentOffset-NB in TS 36.331 [9]. | YES | reject |
| Number of Antenna Ports | O |  | 9.2.43 |  | YES | ignore |
| PRACH Configuration | O |  | PRACH Configuration9.2.50 |  | YES | ignore |
| **MBSFN Subframe Info** |  | *0..<maxnoofMBSFN>* |  | MBSFN subframe defined in TS 36.331 [9] | GLOBAL | ignore |
| >Radioframe Allocation Period | M |  | ENUMERATED(n1, n2, n4, n8, n16, n32, …) |  | – |  |
| >Radioframe Allocation Offset | M |  | INTEGER (0..7, ...) |  | – |  |
| >Subframe Allocation | M |  | 9.2.51 |  | – |  |
| CSG ID | O |  | 9.2.53 |  | YES | ignore |
| **MBMS Service Area Identity List** |  | *0..<maxnoofMBMSServiceAreaIdentities >* |  | Supported MBMS Service Area Identities in the cell | GLOBAL | ignore |
| >MBMS Service Area Identity |  |  | OCTET STRING(2) | MBMS Service Area Identities as defined in TS 23.003 [29] |  |  |
| MultibandInfoList | O |  | 9.2.60 |  | YES | ignore |
| FreqBandIndicatorPriority | O |  | ENUMERATED (not-broadcasted, broadcasted, ...) | This IE indicates that the eNodeB supports *FreqBandIndicationPriority*, and whether*FreqBandIndicatorPriority* is broadcasted in SIB 1 (see TS 36.331 [9]) | YES | ignore |
| BandwidthReducedSI | O |  | ENUMERATED (scheduled, ...) | This IE indicates that the SystemInformationBlockType1-BR is scheduled in the cell (see TS 36.331 [9]) | YES | ignore |
| Protected E-UTRA Resource Indication | O |  | 9.2.125 | This IE indicates which E-UTRA control/reference signal resources are protected and are not subject to E-UTRA - NR Cell Resource Coordination. | YES | ignore |
| **Broadcast PLMN Identity Info List E-UTRA** |  | *0..<maxnoofBPLMNs>* |  | This IE corresponds to the *cellAccessRelatedInfo* IE in *SIB1* as specified in TS 36.331 [9]. All PLMN Identities and associated information contained in the *cellAccessRelatedInfo* IE are included and provided in the same order as broadcast in SIB1. | YES | ignore |
| **>Broadcast PLMNs** |  | *1..<maxnoof BPLMNs>* |  | Broadcast PLMN IDs in SIB1 associated to the *E-UTRA Cell Identity* IE. | – |  |
| >>PLMN Identity | M |  | 9.2.4 |  | – |  |
| >TAC | M |  | OCTET STRING(2) |  | – |  |
| >E-UTRA Cell Identity | M |  | BIT STRING (28) |  | – |  |
| NPRACH Configuration | O |  | NPRACH Configuration9.2.170 |  | YES | ignore |
| LTE-NR Timing Offset | O |  | 9.2.xx |  | YES | ignore |

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### 9.2.110 Served NR Cell Information

This IE contains cell configuration information of an NR cell that a neighbour eNB may need for the X2 AP interface.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| NR-PCI | M |  | INTEGER (0..1007) | NR Physical Cell ID | – |  |
| Cell ID | M |  | NR CGI 9.2.111 |  | – |  |
| 5GS-TAC | O |  | OCTET STRING (3) | Broadcast 5GS Tracking Area Code | – |  |
| Configured TAC | O |  | OCTET STRING (2) | This is the TAC configured in the en-gNB, different from the 5GS TAC broadcast in the NR cell and enables application of Roaming and Access Restrictions for EN-DC as specified in TS 37.340 [32]. | – |  |
| **Served PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs in SIB1 associated to the NR Cell Identity in the *Cell ID* IE. If more than maxnoofBPLMNs are needed for NR, they are provided by the *Additional PLMNs* IE. | – |  |
| >PLMN Identity | M |  | 9.2.4 |  | – |  |
| CHOICE *NR-Mode-Info* | M |  |  |  | – |  |
| *>FDD* |  |  |  |  |  |  |
| **>>FDD Info** |  | *1* |  |  | – |  |
| >>>UL FreqInfo | M |  | NR Frequency Info9.2.106 |  | – |  |
| >>>DL FreqInfo | M |  | NR Frequency Info9.2.106 |  | – |  |
| >>>UL Transmission Bandwidth | M |  | NR Transmission Bandwidth9.2.114 |  | – |  |
| >>>DL Transmission Bandwidth | M |  | NR Transmission Bandwidth9.2.114 |  | – |  |
| >>>UL Carrier List | O |  | NR Carrier List9.2.168 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| >>>DL Carrier List | O |  | NR Carrier List9.2.168 | If included, the *DL Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| *>TDD* |  |  |  |  |  |  |
| **>>TDD Info** |  | *1* |  |  | – |  |
| >>>NRFreqInfo | M |  | NR Frequency Info9.2.106 |  | – |  |
| >>>Transmission Bandwidth | M |  | NR Transmission Bandwidth9.2.114 |  | – |  |
| >>>TDD UL-DL Configuration Common NR | O |  | OCTET STRING | The *tdd-UL-DL-ConfigurationCommon* IE in TS 38.331 [31] | YES | ignore |
| >>>Carrier List | O |  | NR Carrier List9.2.168 | If included, the *Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| Measurement Timing Configuration | M |  | OCTET STRING | Contains the *MeasurementTimingConfiguration* inter-node message for the served cell, as defined in TS 38.331 [31]. | – |  |
| **Additional PLMNs** |  | *0..<maxnoofAdditionalPLMNs>* |  | Additional PLMNs in addition to the Served PLMNs | YES | reject |
| >PLMN Identity | M |  | 9.2.4 |  | – |  |
| **Broadcast PLMN Identity Info List NR** |  | *0..<maxnoofextBPLMNs>* |  | This IE corresponds to the *PLMN-IdentityInfoList* IE in *SIB1* as specified in TS 38.331 [31]. All PLMN Identities and associated information contained in the *PLMN-IdentityInfoList* IE are included and provided in the same order as broadcast in SIB1. | YES | ignore |
| **>Broadcast PLMNs** |  | *1..<maxnoofextBPLMNs>* |  | Broadcast PLMN IDs in SIB1 associated to the *NR Cell Identity* IE | – |  |
| >>PLMN Identity | M |  | 9.2.4 |  | – |  |
| >5GS-TAC | O |  | OCTET STRING (3) |  | – |  |
| >NR Cell Identity | M |  | BIT STRING (SIZE(36)) |  | – |  |
| SSB Positions In Burst | O |  | 9.2.169 |  | YES | ignore |
| NR Cell PRACH Configuration | O |  | OCTET STRING | Containing 9.3.1.139 NR Cell PRACH Configuration as of TS 38.473 [44]. | YES | ignore |
| CSI-RS Transmission Indication | O |  | ENUMERATED {activated, deactivated, ...} | This IE indicates the CSI-RS transmission status of the given cell. | YES | ignore |
| LTE-NR Timing Offset | O |  | 9.2.xx |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofBPLMNs | Maximum no. of broadcast PLMN Ids. Value is 6. |
| maxnoofAdditionalPLMNs | Maximum no. additional PLMN Ids. Value is 6. |
| maxnoofextBPLMNs | Maximum no. of extended broadcast PLMN Ids. Value is 12. |
|  |  |

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### 9.2.xx LTE-NR Timing Offset

This IE contains the time offset between LTE and NR or Time in seconds relative to the GPS EPOCH 1980-01-06 T00:00:19 International Atomic Time (TAI). (calculated as continuous time without leap seconds and traceable to a common time reference).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| CHOICE *LTE-NR Timing Offset* |  |  |  |  |  |  |
| *>SFTD* | M |  |  |  | YES | reject |
| **>>SFN Offset** | M |  | INTEGER(0..1023) | SFN offset = (SFNPCell - SFNTRGCell) mod 1024, where SFNPCell is the SFN of a PCell radio frame and SFNTRGCell is the SFN of the target cell radio frame of which the UE receives the start closest in time to the time when it receives the start of the PCell radio frame(see clasue 5.1.14 in TS38.215) | YES | reject |
| **>> Frame boundary offset** | M |  | INTEGER(0..4) | Frame boundary offset = , where TFrameBoundaryPCell is the time when the UE receives the start of a radio frame from the PCell, TFrameBoundaryTRGCell is the time when the UE receives the start of the radio frame, from the target cell, that is closest in time to the radio frame received from the PCell. The unit of (TFrameBoundaryPCell - TFrameBoundaryTRGCell) is Ts. (see clasue 5.1.14 in TS38.215) | YES | reject |
| *>SFN Time Offset* | M |  | BIT STRING (SIZE(40)) | Time offset in ns between the GPS EPOCH absolute time reference and the SFN0 start. The absolute time reference chosen is the GPS EPOCH 1980-01-06 T00:00:19 International Atomic Time (TAI). The maximum usable value is (1024\*10^7-1). Values higher than the maximum are discarded. | YES | reject |

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### 9.3.4 PDU Definitions

-- ASN1START

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

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-- PDU definitions for X2AP.

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

X2AP-PDU-Contents {

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

eps-Access (21) modules (3) x2ap (2) version1 (1) x2ap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

 ABSInformation,

 ABS-Status,

 AS-SecurityInformation,

 BearerType,

 Cause,

 CompositeAvailableCapacityGroup,

 Correlation-ID,

 COUNTvalue,

 CellReportingIndicator,

 AerialUEsubscriptionInformation,

 CriticalityDiagnostics,

 CRNTI,

 CSGMembershipStatus,

 CSG-Id,

 DeactivationIndication,

 DL-Forwarding,

 DynamicDLTransmissionInformation,

 E-RABsSubjectToDLDiscarding-List,

 E-RABsSubjectToEarlyStatusTransfer-List,

 ECGI,

 E-RAB-ID,

 E-RAB-Level-QoS-Parameters,

 E-RAB-List,

 EUTRANTraceID,

 GlobalENB-ID,

 GTPtunnelEndpoint,

 GUGroupIDList,

 GUMMEI,

 HandoverReportType,

 HandoverRestrictionList,

 Masked-IMEISV,

 InvokeIndication,

 LocationReportingInformation,

 LowerLayerPresenceStatusChange,

 MDT-Configuration,

 ManagementBasedMDTallowed,

 MDTPLMNList,

 Neighbour-Information,

 PCI,

 PDCP-SN,

 PLMN-Identity,

 ReceiveStatusofULPDCPSDUs,

 Registration-Request,

 RelativeNarrowbandTxPower,

 RadioResourceStatus,

 RLC-Status,

 RRCConnReestabIndicator,

 RRCConnSetupIndicator,

 UE-RLF-Report-Container,

 UEAppLayerMeasConfig,

 RRC-Context,

 ServedCell-Information,

 ServedCells,

 ShortMAC-I,

 SRVCCOperationPossible,

 SubscriberProfileIDforRFP,

 TargetCellInUTRAN,

 TargeteNBtoSource-eNBTransparentContainer,

 TimeToWait,

 TraceActivation,

 TraceDepth,

 TransportLayerAddress,

 UEAggregateMaximumBitRate,

 UE-HistoryInformation,

 UE-HistoryInformationFromTheUE,

 UE-S1AP-ID,

 UESecurityCapabilities,

 UEsToBeResetList,

 UE-X2AP-ID,

 UL-HighInterferenceIndicationInfo,

 UL-InterferenceOverloadIndication,

 HWLoadIndicator,

 S1TNLLoadIndicator,

 Measurement-ID,

 ReportCharacteristics,

 MobilityParametersInformation,

 MobilityParametersModificationRange,

 ReceiveStatusOfULPDCPSDUsExtended,

 COUNTValueExtended,

 SubframeAssignment,

 ExtendedULInterferenceOverloadInfo,

 ExpectedUEBehaviour,

 SeNBSecurityKey,

 MeNBtoSeNBContainer,

 SeNBtoMeNBContainer,

 SCGChangeIndication,

 CoMPInformation,

 ReportingPeriodicityRSRPMR,

 RSRPMRList,

 UE-RLF-Report-Container-for-extended-bands,

 ProSeAuthorized,

 CoverageModificationList,

 ReportingPeriodicityCSIR,

 CSIReportList,

 ReceiveStatusOfULPDCPSDUsPDCP-SNlength18,

 COUNTvaluePDCP-SNlength18,

 LHN-ID,

 UE-ContextKeptIndicator,

 UE-X2AP-ID-Extension,

 SIPTOBearerDeactivationIndication,

 TunnelInformation,

 V2XServicesAuthorized,

 X2BenefitValue,

 ResumeID,

 EUTRANCellIdentifier,

 MakeBeforeBreakIndicator,

 WTID,

 WT-UE-XwAP-ID,

 UESidelinkAggregateMaximumBitRate,

 SgNBSecurityKey,

 MeNBtoSgNBContainer,

 SgNBtoMeNBContainer,

 SplitSRBs,

 RRCContainer,

 SRBType,

 GlobalGNB-ID,

 GNB-ID,

 SCGConfigurationQuery,

 SplitSRB,

 NRUeReport,

 EN-DC-ResourceConfiguration,

 TAC,

 NRFreqInfo,

 NRCGI,

 NRPCI,

 NRUESecurityCapabilities,

 PDCPChangeIndication,

 ULConfiguration,

 SgNB-UE-X2AP-ID,

 SecondaryRATUsageReportList,

 ActivationID,

 MeNBResourceCoordinationInformation,

 SgNBResourceCoordinationInformation,

 NR-TxBW,

 BroadcastPLMNs-Item,

 AdditionalPLMNs-Item,

 RLCMode,

 GBR-QosInformation,

 DRB-ID,

 FiveGS-TAC,

 SULInformation,

 Packet-LossRate,

 ResourceType,

 DataTrafficResourceIndication,

 SpectrumSharingGroupID,

 RRC-Config-Ind,

 SGNB-Addition-Trigger-Ind,

 UserPlaneTrafficActivityReport,

 ERABActivityNotifyItemList,

 PDCPSnLength,

 Subscription-Based-UE-DifferentiationInfo,

 LCID,

 DuplicationActivation,

 GNBOverloadInformation,

 NewDRBIDrequest,

 DesiredActNotificationLevel,

 LocationInformationSgNB,

 LocationInformationSgNBReporting,

 EndcSONConfigurationTransfer,

 NRNeighbour-Information,

 InterfaceInstanceIndication,

 BPLMN-ID-Info-NR,

 SNtriggered,

 EPCHandoverRestrictionListContainer,

 AdditionalRRMPriorityIndex,

 RequestedFastMCGRecoveryViaSRB3,

 AvailableFastMCGRecoveryViaSRB3,

 RequestedFastMCGRecoveryViaSRB3Release,

 ReleaseFastMCGRecoveryViaSRB3,

 FastMCGRecovery,

 PartialListIndicator,

 MaximumCellListSize,

 MessageOversizeNotification,

 TNLConfigurationInfo,

 TNLA-To-Add-List,

 TNLA-To-Update-List,

 TNLA-To-Remove-List,

 TNLA-Setup-List,

 TNLA-Failed-To-Setup-List,

 RAN-UE-NGAP-ID,

 CHOinformation-REQ,

 CHOinformation-ACK,

 DAPSRequestInfo,

 DAPSResponseInfo,

 LowerLayerPresenceStatusChange,

 CandidateCellsToBeCancelledList,

 CHO-DC-Indicator,

 Ethernet-Type,

 NRV2XServicesAuthorized,

 NRUESidelinkAggregateMaximumBitRate,

 PC5QoSParameters,

 TargetCellInNGRAN,

 Measurement-ID-ENDC,

 Registration-Request-ENDC,

 ReportCharacteristics-ENDC,

 NRRadioResourceStatus,

 TNLCapacityIndicator,

 NRCompositeAvailableCapacityGroup,

 SSBIndex,

 TDDULDLConfigurationCommonNR,

 NRCarrierList,

 SSB-PositionsInBurst,

 NRCellPRACHConfig,

 NBIoT-RLF-Report-Container, PrivacyIndicator,

 UERadioCapabilityID,

 CSI-RSTransmissionIndication,

 IABNodeIndication,

 F1CTrafficContainer,

 IABInformation

 LTE-NRTimingOffset,

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

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-- EN-DC X2 SETUP REQUEST

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

ENDCX2SetupRequest ::= SEQUENCE {

 protocolIEs ProtocolIE-Container {{ENDCX2SetupRequest-IEs}},

 ...

}

ENDCX2SetupRequest-IEs X2AP-PROTOCOL-IES ::= {

 { ID id-InitiatingNodeType-EndcX2Setup CRITICALITY reject TYPE InitiatingNodeType-EndcX2Setup PRESENCE mandatory}|

 { ID id-InterfaceInstanceIndication CRITICALITY reject TYPE InterfaceInstanceIndication PRESENCE optional}|

 { ID id-TNLConfigurationInfo CRITICALITY ignore TYPE TNLConfigurationInfo PRESENCE optional},

 ...

}

InitiatingNodeType-EndcX2Setup ::= CHOICE {

 init-eNB ProtocolIE-Container {{ENB-ENDCX2SetupReqIEs}},

 init-en-gNB  ProtocolIE-Container {{En-gNB-ENDCX2SetupReqIEs}},

 ...

}

ENB-ENDCX2SetupReqIEs X2AP-PROTOCOL-IES ::= {

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

 { ID id-ServedEUTRAcellsENDCX2ManagementList CRITICALITY reject TYPE ServedEUTRAcellsENDCX2ManagementList PRESENCE mandatory}|

 { ID id-InterfaceInstanceIndication CRITICALITY reject TYPE InterfaceInstanceIndication PRESENCE optional }|

-- NOTE: In the current version of this specification the *Interface Instance Indication* IE is not included in the *Initiating NodeType* IE --

 { ID id-CellandCapacityAssistInfo CRITICALITY ignore TYPE CellandCapacityAssistInfo PRESENCE optional },

 ...

}

ServedEUTRAcellsENDCX2ManagementList ::= SEQUENCE (SIZE (1.. maxCellineNB)) OF SEQUENCE {

 servedEUTRACellInfo ServedCell-Information,

 nrNeighbourInfo NRNeighbour-Information OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {ServedEUTRAcellsENDCX2Management-ExtIEs} } OPTIONAL,

 ...

}

ServedEUTRAcellsENDCX2Management-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

En-gNB-ENDCX2SetupReqIEs X2AP-PROTOCOL-IES ::= {

 { ID id-Globalen-gNB-ID CRITICALITY reject TYPE GlobalGNB-ID PRESENCE mandatory}|

 { ID id-ServedNRcellsENDCX2ManagementList CRITICALITY reject TYPE ServedNRcellsENDCX2ManagementList PRESENCE mandatory}|

 { ID id-PartialListIndicator CRITICALITY ignore TYPE PartialListIndicator PRESENCE optional },

 ...

}

ServedNRcellsENDCX2ManagementList ::= SEQUENCE (SIZE (1.. maxCellinengNB)) OF SEQUENCE {

 servedNRCellInfo ServedNRCell-Information,

 nRNeighbourInfo NRNeighbour-Information OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {En-gNBServedCells-ExtIEs} } OPTIONAL,

 ...

}

En-gNBServedCells-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

ServedNRCell-Information ::= SEQUENCE {

 nrpCI NRPCI,

 nrCellID NRCGI,

 fiveGS-TAC FiveGS-TAC OPTIONAL,

 configured-TAC TAC OPTIONAL,

 broadcastPLMNs BroadcastPLMNs-Item,

 nrModeInfo CHOICE {

 fdd FDD-InfoServedNRCell-Information,

 tdd TDD-InfoServedNRCell-Information,

 ...

 },

 measurementTimingConfiguration OCTET STRING,

 iE-Extensions ProtocolExtensionContainer { {ServedNRCell-Information-ExtIEs} } OPTIONAL,

 ...

}

ServedNRCell-Information-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 {ID id-additionalPLMNs-Item CRITICALITY ignore EXTENSION AdditionalPLMNs-Item PRESENCE optional}|

 { ID id-BPLMN-ID-Info-NR CRITICALITY ignore EXTENSION BPLMN-ID-Info-NR PRESENCE optional}|

 { ID id-SSB-PositionsInBurst CRITICALITY ignore EXTENSION SSB-PositionsInBurst PRESENCE optional}|

 { ID id-NRCellPRACHConfig CRITICALITY ignore EXTENSION NRCellPRACHConfig PRESENCE optional}|

 { ID id-CSI-RSTransmissionIndication CRITICALITY ignore EXTENSION CSI-RSTransmissionIndication PRESENCE optional},

 { ID id- LTE-NRTimingOffset CRITICALITY ignore EXTENSION LTE-NRTimingOffset PRESENCE optional},

 ...

}

FDD-InfoServedNRCell-Information ::= SEQUENCE {

 ul-NRFreqInfo NRFreqInfo,

 dl-NRFreqInfo NRFreqInfo,

 ul-NR-TxBW NR-TxBW,

 dl-NR-TxBW NR-TxBW,

 iE-Extensions ProtocolExtensionContainer { {FDD-InfoServedNRCell-Information-ExtIEs} } OPTIONAL,

 ...

}

FDD-InfoServedNRCell-Information-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-ULCarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

 { ID id-DLCarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional },

 ...

}

TDD-InfoServedNRCell-Information ::= SEQUENCE {

 nRFreqInfo NRFreqInfo,

 nR-TxBW NR-TxBW,

 iE-Extensions ProtocolExtensionContainer { {TDD-InfoServedNRCell-Information-ExtIEs} } OPTIONAL,

 ...

}

TDD-InfoServedNRCell-Information-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-TDDULDLConfigurationCommonNR CRITICALITY ignore EXTENSION TDDULDLConfigurationCommonNR PRESENCE optional}|

 { ID id-CarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional},

 ...

}

CellandCapacityAssistInfo::= SEQUENCE {

 maximumCellListSize MaximumCellListSize OPTIONAL,

 cellAssistanceInformation CellAssistanceInformation OPTIONAL,

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

 ...

}

CellandCapacityAssistInfo-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

CellAssistanceInformation ::= CHOICE {

 limited-list Limited-list,

 full-list ENUMERATED {allServedNRcells, ...},

 ...

}

Limited-list ::= SEQUENCE (SIZE (1..maxCellinengNB)) OF SEQUENCE {

 nrCellID NRCGI,

 iE-Extensions ProtocolExtensionContainer { {Limited-list-ExtIEs} } OPTIONAL,

 ...

}

Limited-list-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

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

### 9.3.5 Information Element definitions

-- S

S1TNLLoadIndicator ::= SEQUENCE {

 dLS1TNLLoadIndicator LoadIndicator,

 uLS1TNLLoadIndicator LoadIndicator,

 iE-Extensions ProtocolExtensionContainer { {S1TNLLoadIndicator-ExtIEs} } OPTIONAL,

 ...

}

S1TNLLoadIndicator-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SCGChangeIndication ::= ENUMERATED {pDCPCountWrapAround, pSCellChange, other, ...}

SecondaryRATUsageReportList ::= SEQUENCE (SIZE(1..maxnoofBearers)) OF ProtocolIE-Single-Container {{SecondaryRATUsageReport-ItemIEs}}

SecondaryRATUsageReport-ItemIEs X2AP-PROTOCOL-IES ::= {

 { ID id-SecondaryRATUsageReport-Item CRITICALITY reject TYPE SecondaryRATUsageReport-Item PRESENCE mandatory},

 ...

}

SecondaryRATUsageReport-Item ::= SEQUENCE {

 e-RAB-ID E-RAB-ID,

 secondaryRATType ENUMERATED {nr, ..., nR-unlicensed },

 e-RABUsageReportList E-RABUsageReportList,

 iE-Extensions ProtocolExtensionContainer { {SecondaryRATUsageReport-Item-ExtIEs} } OPTIONAL,

...

}

SecondaryRATUsageReport-Item-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SeNBSecurityKey ::= BIT STRING (SIZE(256))

SeNBtoMeNBContainer ::= OCTET STRING

ServedCells ::= SEQUENCE (SIZE (1.. maxCellineNB)) OF SEQUENCE {

 servedCellInfo ServedCell-Information,

 neighbour-Info Neighbour-Information OPTIONAL,

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

 ...

}

ServedCell-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-NRNeighbourInfoToAdd CRITICALITY ignore EXTENSION NRNeighbour-Information PRESENCE optional },

 ...

}

ServedCell-Information ::= SEQUENCE {

 pCI PCI,

 cellId ECGI,

 tAC TAC,

 broadcastPLMNs BroadcastPLMNs-Item,

 eUTRA-Mode-Info EUTRA-Mode-Info,

 iE-Extensions ProtocolExtensionContainer { {ServedCell-Information-ExtIEs} } OPTIONAL,

 ...

}

ServedCell-Information-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-Number-of-Antennaports CRITICALITY ignore EXTENSION Number-of-Antennaports PRESENCE optional}|

 { ID id-PRACH-Configuration CRITICALITY ignore EXTENSION PRACH-Configuration PRESENCE optional}|

 { ID id-MBSFN-Subframe-Info CRITICALITY ignore EXTENSION MBSFN-Subframe-Infolist PRESENCE optional}|

 { ID id-CSG-Id CRITICALITY ignore EXTENSION CSG-Id PRESENCE optional}|

 { ID id-MBMS-Service-Area-List CRITICALITY ignore EXTENSION MBMS-Service-Area-Identity-List PRESENCE optional}|

 { ID id-MultibandInfoList CRITICALITY ignore EXTENSION MultibandInfoList PRESENCE optional}|

 { ID id-FreqBandIndicatorPriority CRITICALITY ignore EXTENSION FreqBandIndicatorPriority PRESENCE optional}|

 { ID id-BandwidthReducedSI CRITICALITY ignore EXTENSION BandwidthReducedSI PRESENCE optional}|

 { ID id-ProtectedEUTRAResourceIndication CRITICALITY ignore EXTENSION ProtectedEUTRAResourceIndication PRESENCE optional}|

 { ID id-BPLMN-ID-Info-EUTRA CRITICALITY ignore EXTENSION BPLMN-ID-Info-EUTRA PRESENCE optional}|

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

 { ID id-LTE-NRTimingOffset CRITICALITY ignore EXTENSION LTE-NRTimingOffset PRESENCE optional},

 ...

}

ServiceType ::= ENUMERATED{

 qMC-for-streaming-service,

 qMC-for-MTSI-service,

 ...

}

SgNBCoordinationAssistanceInformation ::= ENUMERATED{

 coordination-not-required,

 ...

}

SgNBResourceCoordinationInformation ::= SEQUENCE {

 nR-CGI NRCGI,

 uLCoordinationInformation BIT STRING (SIZE(6..4400, ...)),

 dLCoordinationInformation BIT STRING (SIZE(6..4400, ...)) OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {SgNBResourceCoordinationInformationExtIEs} } OPTIONAL,

 ...

}

SgNBResourceCoordinationInformationExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-ECGI CRITICALITY ignore EXTENSION ECGI PRESENCE optional}|

 { ID id-SgNBCoordinationAssistanceInformation CRITICALITY reject EXTENSION SgNBCoordinationAssistanceInformation PRESENCE optional},

 ...

}

SgNB-UE-X2AP-ID ::= INTEGER (0..4294967295)

SIPTOBearerDeactivationIndication ::= ENUMERATED {

 true,

 ...

}

SharedResourceType ::= CHOICE{

 uLOnlySharing ULOnlySharing,

 uLandDLSharing ULandDLSharing,

 ...

}

ShortMAC-I ::= BIT STRING (SIZE(16))

SGNB-Addition-Trigger-Ind ::= ENUMERATED {

 sn-change,

 inter-eNB-HO,

 intra-eNB-HO,

 ...

}

SNtriggered ::=ENUMERATED{

true,

...

}

SourceOfUEActivityBehaviourInformation ::= ENUMERATED {

 subscription-information,

 statistics,

 ...

}

SpecialSubframe-Info ::= SEQUENCE {

 specialSubframePatterns SpecialSubframePatterns,

 cyclicPrefixDL CyclicPrefixDL,

 cyclicPrefixUL CyclicPrefixUL,

 iE-Extensions ProtocolExtensionContainer { {SpecialSubframe-Info-ExtIEs} } OPTIONAL,

 ...

}

SpecialSubframe-Info-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SpecialSubframePatterns ::= ENUMERATED {

 ssp0,

 ssp1,

 ssp2,

 ssp3,

 ssp4,

 ssp5,

 ssp6,

 ssp7,

 ssp8,

 ...

}

SpectrumSharingGroupID ::= INTEGER (1..maxCellineNB)

SubbandCQI ::= SEQUENCE {

 subbandCQICodeword0 SubbandCQICodeword0,

 subbandCQICodeword1 SubbandCQICodeword1 OPTIONAL,

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

 ...

}

Subscription-Based-UE-DifferentiationInfo ::= SEQUENCE {

 periodicCommunicationIndicator ENUMERATED {periodically, ondemand, ...} OPTIONAL,

 periodicTime INTEGER (1..3600, ...) OPTIONAL,

 scheduledCommunicationTime ScheduledCommunicationTime OPTIONAL,

 stationaryIndication ENUMERATED {stationary, mobile, ...} OPTIONAL,

 trafficProfile ENUMERATED {single-packet, dual-packets, multiple-packets, ...} OPTIONAL,

 batteryIndication ENUMERATED {battery-powered, battery-powered-not-rechargeable-or-replaceable, not-battery-powered, ...} OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { { Subscription-Based-UE-DifferentiationInfo-ExtIEs} } OPTIONAL,

 ...

}

Subscription-Based-UE-DifferentiationInfo-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

ScheduledCommunicationTime ::= SEQUENCE {

 dayofWeek BIT STRING (SIZE(7)) OPTIONAL,

 timeofDayStart INTEGER (0..86399, ...) OPTIONAL,

 timeofDayEnd INTEGER (0..86399, ...) OPTIONAL,

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

 ...

}

ScheduledCommunicationTime-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SRVCCOperationPossible ::= ENUMERATED {

 possible,

 ...

}

SSBAreaCapacityValue-List ::= SEQUENCE (SIZE (1.. maxnoofSSBAreas)) OF SSBAreaCapacityValue-Item

SSBAreaCapacityValue-Item ::= SEQUENCE {

 ssbIndex SSBIndex,

 ssbAreaCapacityValue INTEGER (0..100),

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

 ...

}

SSBAreaCapacityValue-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SSBAreaRadioResourceStatus-List ::= SEQUENCE (SIZE (1.. maxnoofSSBAreas)) OF SSBAreaRadioResourceStatus-Item

SSBAreaRadioResourceStatus-Item ::= SEQUENCE {

 ssbIndex SSBIndex,

 ssbAreaDLGBRPRBUsage INTEGER (0..100),

 ssbAreaULGBRPRBUsage INTEGER (0..100),

 ssbAreaDLNonGBRPRBUsage INTEGER (0..100),

 ssbAreaULNonGBRPRBUsage INTEGER (0..100),

 ssbAreaDLTotalPRBUsage INTEGER (0..100),

 ssbAreaULTotalPRBUsage INTEGER (0..100),

 ssbAreaDLSchedulingPDCCHCCEUsage INTEGER (0..100) OPTIONAL,

 ssbAreaULSchedulingPDCCHCCEUsage INTEGER (0..100) OPTIONAL,

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

 ...

}

SSBAreaRadioResourceStatus-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SSBIndex ::= INTEGER (0..63)

SSB-PositionsInBurst ::= CHOICE {

 shortBitmap BIT STRING (SIZE (4)),

 mediumBitmap BIT STRING (SIZE (8)),

 longBitmap BIT STRING (SIZE (64)),

 choice-extension ProtocolIE-Single-Container { {SSB-PositionsInBurst-ExtIEs} }

}

SSB-PositionsInBurst-ExtIEs X2AP-PROTOCOL-IES ::= {

 ...

}

SubbandCQI-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SubbandCQICodeword0 ::= CHOICE {

 four-bitCQI INTEGER (0..15, ...),

 two-bitSubbandDifferentialCQI INTEGER (0..3, ...),

 two-bitDifferentialCQI INTEGER (0..3, ...),

 ...

}

SubbandCQICodeword1 ::= CHOICE {

 four-bitCQI INTEGER (0..15, ...),

 three-bitSpatialDifferentialCQI INTEGER (0..7, ...),

 two-bitSubbandDifferentialCQI INTEGER (0..3, ...),

 two-bitDifferentialCQI INTEGER (0..3, ...),

 ...

}

SubbandCQIList ::= SEQUENCE (SIZE(1.. maxSubband)) OF SubbandCQIItem

SubbandCQIItem ::= SEQUENCE {

 subbandCQI SubbandCQI,

 subbandIndex INTEGER (0..27,...),

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

 ...

}

SubbandCQIItem-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SubbandSize ::= ENUMERATED {

 size2,

 size3,

 size4,

 size6,

 size8,

 ...

}

SubscriberProfileIDforRFP ::= INTEGER (1..256)

SubframeAllocation ::= CHOICE {

 oneframe Oneframe,

 fourframes Fourframes,

 ...

}

SubframeAssignment ::= ENUMERATED {

 sa0,

 sa1,

 sa2,

 sa3,

 sa4,

 sa5,

 sa6,

 ...

}

SubframeType ::= ENUMERATED{mbsfn,nonmbsfn,...}

SgNBSecurityKey ::= BIT STRING (SIZE(256))

SgNBtoMeNBContainer ::= OCTET STRING

SRBType ::= ENUMERATED {srb1, srb2, ...}

SCGConfigurationQuery ::= ENUMERATED {true,...}

SULInformation ::= SEQUENCE {

 sUL-ARFCN INTEGER (0.. 3279165),

 sUL-TxBW NR-TxBW,

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

 ...

}

SupportedSULFreqBandItem ::= SEQUENCE {

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

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

 ...

}

SupportedSULFreqBandItem-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 ...

}

SULInformation-ExtIEs X2AP-PROTOCOL-EXTENSION ::= {

 { ID id-CarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

 { ID id-FrequencyShift7p5khz CRITICALITY ignore EXTENSION FrequencyShift7p5khz PRESENCE optional },

 ...

}

LTE-NRTimingOffset ::= CHOICE {

 sFTD SFTD,

 SFN-Time-Offset BIT STRING (SIZE(40)),

 ...

}

SFTD ::= SEQUENCE {

 SFN Offset INTEGER (1..1024),

 Frameboundaryoffset INTEGER (1..4),

 ...

}

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

### 9.3.7 Constant definitions

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

--

-- IEs

--

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

id-E-RABs-Admitted-Item ProtocolIE-ID ::= 0

id-E-RABs-Admitted-List ProtocolIE-ID ::= 1

id-E-RAB-Item ProtocolIE-ID ::= 2

id-E-RABs-NotAdmitted-List ProtocolIE-ID ::= 3

id-E-RABs-ToBeSetup-Item ProtocolIE-ID ::= 4

id-Cause ProtocolIE-ID ::= 5

id-CellInformation ProtocolIE-ID ::= 6

id-CellInformation-Item ProtocolIE-ID ::= 7

id-New-eNB-UE-X2AP-ID ProtocolIE-ID ::= 9

id-Old-eNB-UE-X2AP-ID ProtocolIE-ID ::= 10

id-TargetCell-ID ProtocolIE-ID ::= 11

id-TargeteNBtoSource-eNBTransparentContainer ProtocolIE-ID ::= 12

id-TraceActivation ProtocolIE-ID ::= 13

id-UE-ContextInformation ProtocolIE-ID ::= 14

id-UE-HistoryInformation ProtocolIE-ID ::= 15

id-UE-X2AP-ID ProtocolIE-ID ::= 16

id-CriticalityDiagnostics ProtocolIE-ID ::= 17

id-E-RABs-SubjectToStatusTransfer-List ProtocolIE-ID ::= 18

id-E-RABs-SubjectToStatusTransfer-Item ProtocolIE-ID ::= 19

id-ServedCells ProtocolIE-ID ::= 20

id-GlobalENB-ID ProtocolIE-ID ::= 21

id-TimeToWait ProtocolIE-ID ::= 22

id-GUMMEI-ID ProtocolIE-ID ::= 23

id-GUGroupIDList ProtocolIE-ID ::= 24

id-ServedCellsToAdd ProtocolIE-ID ::= 25

id-ServedCellsToModify ProtocolIE-ID ::= 26

id-ServedCellsToDelete ProtocolIE-ID ::= 27

id-Registration-Request ProtocolIE-ID ::= 28

id-CellToReport ProtocolIE-ID ::= 29

id-ReportingPeriodicity ProtocolIE-ID ::= 30

id-CellToReport-Item ProtocolIE-ID ::= 31

id-CellMeasurementResult ProtocolIE-ID ::= 32

id-CellMeasurementResult-Item ProtocolIE-ID ::= 33

id-GUGroupIDToAddList ProtocolIE-ID ::= 34

id-GUGroupIDToDeleteList ProtocolIE-ID ::= 35

id-SRVCCOperationPossible ProtocolIE-ID ::= 36

id-Measurement-ID ProtocolIE-ID ::= 37

id-ReportCharacteristics ProtocolIE-ID ::= 38

id-ENB1-Measurement-ID ProtocolIE-ID ::= 39

id-ENB2-Measurement-ID ProtocolIE-ID ::= 40

id-Number-of-Antennaports ProtocolIE-ID ::= 41

id-CompositeAvailableCapacityGroup ProtocolIE-ID ::= 42

id-ENB1-Cell-ID ProtocolIE-ID ::= 43

id-ENB2-Cell-ID ProtocolIE-ID ::= 44

id-ENB2-Proposed-Mobility-Parameters ProtocolIE-ID ::= 45

id-ENB1-Mobility-Parameters ProtocolIE-ID ::= 46

id-ENB2-Mobility-Parameters-Modification-Range ProtocolIE-ID ::= 47

id-FailureCellPCI ProtocolIE-ID ::= 48

id-Re-establishmentCellECGI ProtocolIE-ID ::= 49

id-FailureCellCRNTI ProtocolIE-ID ::= 50

id-ShortMAC-I ProtocolIE-ID ::= 51

id-SourceCellECGI ProtocolIE-ID ::= 52

id-FailureCellECGI ProtocolIE-ID ::= 53

id-HandoverReportType ProtocolIE-ID ::= 54

id-PRACH-Configuration ProtocolIE-ID ::= 55

id-MBSFN-Subframe-Info ProtocolIE-ID ::= 56

id-ServedCellsToActivate ProtocolIE-ID ::= 57

id-ActivatedCellList ProtocolIE-ID ::= 58

id-DeactivationIndication ProtocolIE-ID ::= 59

id-UE-RLF-Report-Container ProtocolIE-ID ::= 60

id-ABSInformation ProtocolIE-ID ::= 61

id-InvokeIndication ProtocolIE-ID ::= 62

id-ABS-Status ProtocolIE-ID ::= 63

id-PartialSuccessIndicator ProtocolIE-ID ::= 64

id-MeasurementInitiationResult-List ProtocolIE-ID ::= 65

id-MeasurementInitiationResult-Item ProtocolIE-ID ::= 66

id-MeasurementFailureCause-Item ProtocolIE-ID ::= 67

id-CompleteFailureCauseInformation-List ProtocolIE-ID ::= 68

id-CompleteFailureCauseInformation-Item ProtocolIE-ID ::= 69

id-CSG-Id ProtocolIE-ID ::= 70

id-CSGMembershipStatus ProtocolIE-ID ::= 71

id-MDTConfiguration ProtocolIE-ID ::= 72

id-ManagementBasedMDTallowed ProtocolIE-ID ::= 74

id-RRCConnSetupIndicator ProtocolIE-ID ::= 75

id-NeighbourTAC ProtocolIE-ID ::= 76

id-Time-UE-StayedInCell-EnhancedGranularity ProtocolIE-ID ::= 77

id-RRCConnReestabIndicator ProtocolIE-ID ::= 78

id-MBMS-Service-Area-List ProtocolIE-ID ::= 79

id-HO-cause ProtocolIE-ID ::= 80

id-TargetCellInUTRAN ProtocolIE-ID ::= 81

id-MobilityInformation ProtocolIE-ID ::= 82

id-SourceCellCRNTI ProtocolIE-ID ::= 83

id-MultibandInfoList ProtocolIE-ID ::= 84

id-M3Configuration ProtocolIE-ID ::= 85

id-M4Configuration ProtocolIE-ID ::= 86

id-M5Configuration ProtocolIE-ID ::= 87

id-MDT-Location-Info ProtocolIE-ID ::= 88

id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 89

id-SignallingBasedMDTPLMNList ProtocolIE-ID ::= 90

id-ReceiveStatusOfULPDCPSDUsExtended ProtocolIE-ID ::= 91

id-ULCOUNTValueExtended ProtocolIE-ID ::= 92

id-DLCOUNTValueExtended ProtocolIE-ID ::= 93

id-eARFCNExtension ProtocolIE-ID ::= 94

id-UL-EARFCNExtension ProtocolIE-ID ::= 95

id-DL-EARFCNExtension ProtocolIE-ID ::= 96

id-AdditionalSpecialSubframe-Info ProtocolIE-ID ::= 97

id-Masked-IMEISV ProtocolIE-ID ::= 98

id-IntendedULDLConfiguration ProtocolIE-ID ::= 99

id-ExtendedULInterferenceOverloadInfo ProtocolIE-ID ::= 100

id-RNL-Header ProtocolIE-ID ::= 101

id-x2APMessage ProtocolIE-ID ::= 102

id-ProSeAuthorized ProtocolIE-ID ::= 103

id-ExpectedUEBehaviour ProtocolIE-ID ::= 104

id-UE-HistoryInformationFromTheUE ProtocolIE-ID ::= 105

id-DynamicDLTransmissionInformation ProtocolIE-ID ::= 106

id-UE-RLF-Report-Container-for-extended-bands ProtocolIE-ID ::= 107

id-CoMPInformation ProtocolIE-ID ::= 108

id-ReportingPeriodicityRSRPMR ProtocolIE-ID ::= 109

id-RSRPMRList ProtocolIE-ID ::= 110

id-MeNB-UE-X2AP-ID ProtocolIE-ID ::= 111

id-SeNB-UE-X2AP-ID ProtocolIE-ID ::= 112

id-UE-SecurityCapabilities ProtocolIE-ID ::= 113

id-SeNBSecurityKey ProtocolIE-ID ::= 114

id-SeNBUEAggregateMaximumBitRate ProtocolIE-ID ::= 115

id-ServingPLMN ProtocolIE-ID ::= 116

id-E-RABs-ToBeAdded-List ProtocolIE-ID ::= 117

id-E-RABs-ToBeAdded-Item ProtocolIE-ID ::= 118

id-MeNBtoSeNBContainer ProtocolIE-ID ::= 119

id-E-RABs-Admitted-ToBeAdded-List ProtocolIE-ID ::= 120

id-E-RABs-Admitted-ToBeAdded-Item ProtocolIE-ID ::= 121

id-SeNBtoMeNBContainer ProtocolIE-ID ::= 122

id-ResponseInformationSeNBReconfComp ProtocolIE-ID ::= 123

id-UE-ContextInformationSeNBModReq ProtocolIE-ID ::= 124

id-E-RABs-ToBeAdded-ModReqItem ProtocolIE-ID ::= 125

id-E-RABs-ToBeModified-ModReqItem ProtocolIE-ID ::= 126

id-E-RABs-ToBeReleased-ModReqItem ProtocolIE-ID ::= 127

id-E-RABs-Admitted-ToBeAdded-ModAckList ProtocolIE-ID ::= 128

id-E-RABs-Admitted-ToBeModified-ModAckList ProtocolIE-ID ::= 129

id-E-RABs-Admitted-ToBeReleased-ModAckList ProtocolIE-ID ::= 130

id-E-RABs-Admitted-ToBeAdded-ModAckItem ProtocolIE-ID ::= 131

id-E-RABs-Admitted-ToBeModified-ModAckItem ProtocolIE-ID ::= 132

id-E-RABs-Admitted-ToBeReleased-ModAckItem ProtocolIE-ID ::= 133

id-E-RABs-ToBeReleased-ModReqd ProtocolIE-ID ::= 134

id-E-RABs-ToBeReleased-ModReqdItem ProtocolIE-ID ::= 135

id-SCGChangeIndication ProtocolIE-ID ::= 136

id-E-RABs-ToBeReleased-List-RelReq ProtocolIE-ID ::= 137

id-E-RABs-ToBeReleased-RelReqItem ProtocolIE-ID ::= 138

id-E-RABs-ToBeReleased-List-RelConf ProtocolIE-ID ::= 139

id-E-RABs-ToBeReleased-RelConfItem ProtocolIE-ID ::= 140

id-E-RABs-SubjectToCounterCheck-List ProtocolIE-ID ::= 141

id-E-RABs-SubjectToCounterCheckItem ProtocolIE-ID ::= 142

id-CoverageModificationList ProtocolIE-ID ::= 143

id-ReportingPeriodicityCSIR ProtocolIE-ID ::= 145

id-CSIReportList ProtocolIE-ID ::= 146

id-UEID ProtocolIE-ID ::= 147

id-enhancedRNTP ProtocolIE-ID ::= 148

id-ProSeUEtoNetworkRelaying ProtocolIE-ID ::= 149

id-ReceiveStatusOfULPDCPSDUsPDCP-SNlength18 ProtocolIE-ID ::= 150

id-ULCOUNTValuePDCP-SNlength18 ProtocolIE-ID ::= 151

id-DLCOUNTValuePDCP-SNlength18 ProtocolIE-ID ::= 152

id-UE-ContextReferenceAtSeNB ProtocolIE-ID ::= 153

id-UE-ContextKeptIndicator ProtocolIE-ID ::= 154

id-New-eNB-UE-X2AP-ID-Extension ProtocolIE-ID ::= 155

id-Old-eNB-UE-X2AP-ID-Extension ProtocolIE-ID ::= 156

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END

-- ASN1STOP

////////////////////////////////////////////////////////////////////////changes end///////////////////////////////////////////////////////////////////////////