**3GPP TSG-RAN WG3 Meeting #117-e *R3-22oooo***

**E-meeting, 15 – 24 August 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.423** | **CR** | **0854** | **rev** | **1** | **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:***  | Coordination of CHO and intra-SN CPC |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, ZTE, Huawei, Ericsson, Intel Corporation, CATT |
| ***Source to TSG:*** | R3 |
|  |  |
| ***Work item code:*** | LTE\_NR\_DC\_enh2-Core |  | ***Date:*** | 2022-08-31 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | At RAN2 #119e, it was agreed that the UE releases all conditional reconfigurations upon reconfiguration with sync of the SCG if CPC/CPA is configured. Since Rel-16, it is possible that both, the MN and the SN initiate conditional reconfiguration (e.g. CHO from the MN or intra-SN CPC from the SN). When the CHO is executed, the SN is informed via signalling from the source MN (SN Release). However, when the intra-SN CPC or reconfiguration with sync of the SCG using SRB3 (when CPAC was configured) is executed, and any possible CHO is released, the MN currently is not informed. |
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| ***Summary of change:*** | In order to let the MN know about execution of an intra-SN CPC or reconfiguration with sync of the SCG using SRB3, and resulting release of possible CHO in the UE, a flag is added in the SN-initiated modification procedure. Also, it is clarified that the SCG configuration, if included in the modification, refers to the new SCG configuration already applied in the UE (it is not necessary for the MN to forward the SCG configuration to the UE).Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change only extends usage of one procedure. |
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| ***Consequences if not approved:*** | If the MN is not aware of the release of CHO, the CHO will be kept prepared in the target node(s) thus wasting resources there. Also, since the MN is not aware that the CHO is not active, it will not prepare a new one and thus UE’s mobility may result in an RLF. |
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| ***Clauses affected:*** | 8.3.4.2, 9.1.2.8, ASN.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 36.423 CR1710 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev1: Updated during the post-RAN3#117-e email discussion |

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| **First change, ommited text not changed** |

#### 8.3.4.2 Successful Operation



Figure 8.3.4.2-1: S-NG-RAN node initiated S-NG-RAN node Modification, successful operation.

The S-NG-RAN node initiates the procedure by sending the S-NODE MODIFICATION REQUIRED message to the M-NG-RAN node.

When the S-NG-RAN node sends the S-NODE MODIFICATION REQUIRED message, it shall start the timer TXnDCoverall.

The S-NODE MODIFICATION REQUIRED message may contain

- the *S-NG-RAN node to M-NG-RAN node Container* IE.

- PDU session resources to be modified within the *PDU Session Resources To Be Modified Item* IE;

- PDU session resources to be released within the *PDU Session Resources To Be Released Item* IE;

- the *PDCP Change Indication* IE;

- the Spare DRB IDs IE;

- the *Required Number of DRB IDs* IE;

- the *QoS Flow Mapping Indication* IE;

- the *MR-DC Resource Coordination Information* IE.

If the M-NG-RAN node receives a S-NODE MODIFICATION REQUIRED message containing the *PDCP Change Indication* IE, the M-NG-RAN node shall act as specified in TS 37.340 [8].

If the S-NODE MODIFICATION REQUIRED message contains the *MR-DC Resource Coordination Information* IE, the M-NG-RAN node may use it for the purpose of resource coordination with the S-NG-RAN node. The M-NG-RAN node shall consider the value of the received *UL Coordination Information* IE valid until reception of a new update of the IE for the same UE. The M-NG-RAN node shall consider the value of the received *DL Coordination Information* IE valid until reception of a new update of the IE for the same UE. If the *E-UTRA Coordination Assistance Information* IE or the *NR Coordination Assistance Information* IE is contained in the *MR-DC Resource Coordination Information* IE, the M-NG-RAN node shall, if supported, use the information to determine further coordination of resource utilisation between the M-NG-RAN node and the S-NG-RAN node.

If the M-NG-RAN node receives an S-NODE MODIFICATION REQUIRED message containing the *Spare DRB IDs* IE, the M-NG-RAN node may take those into consideration to be used for MN-terminated bearers.

If the M-NG-RAN node receives an S-NODE MODIFICATION REQUIRED message containing the *Required Number of DRB IDs* IE, the M-NG-RAN node shall provide new DRB IDs to be used by the S-NG-RAN node for SN-terminated bearers , if such DRB IDs are available, in the *Additional DRB IDs* IE included in the S-NODE MODIFICATION CONFIRM message.

If the M-NG-RAN node is able to perform the modifications requested by the S-NG-RAN node, the M-NG-RAN node shall send the S-NODE MODIFICATION CONFIRM message to the S-NG-RAN node. The S-NODE MODIFICATION CONFIRM message may contain the *M-NG-RAN node to S-NG-RAN node Container* IE.

If the *PDCP Duplication Configuration* IE in the *PDU Session Resource Modification Required Info – SN terminated* IE is contained in the S-NODE MODIFICATION REQUIRED message and set to "configured", the M-NG-RAN node shall, if supported, add the RLC entity of secondary path and the RLC entity of all additional path(s) for the indicated DRB. And if the S-NODE MODIFICATION REQUIRED message contains the *Duplication Activation* IE, the M-NG-RAN node shall, if supported, store this information and use it for the purpose of PDCP duplication.

If the S-NODE MODIFICATION REQUIRED message contains the *RLC Duplication Information* IE, the S-NG-RAN node shall, if supported, store this information and use it for the purpose of PDCP duplication for the indicated DRB with more than two RLC entities.

If the *PDCP Duplication Configuration* IE in the *PDU Session Resource Modification Required Info – SN terminated* IE is contained in the S-NODE MODIFICATION REQUIRED message and set to "de-configured", the M-NG-RAN node shall, if supported, delete the RLC entity of secondary path and the RLC entity of all additional path(s) for the indicated DRB.

The S-NG-RAN node may include for each DRB in the *DRBs To Be Modified List* IE in the S-NODE MODIFICATION REQUIRED message the *RLC Status* IE to indicate that RLC has been reestablished at the S-NG-RAN node and the M-NG-RAN node may trigger PDCP data recovery.

If the S-NODE MODIFICATION REQUIRED message contains the *QoS flows To Be Released List* within the *PDU Session Resource Modification Info – SN terminated* IE, the S-NG-RAN node may also propose to apply forwarding of UL data for which in-order delivery is requested by including the *UL Forwarding* *Proposal* IE in the *Data Forwarding and Offloading Info from source NG-RAN node* IE within the *PDU Session Resource Modification Required Info – SN terminated* IE of the S-NODE MODIFICATION REQUIRED message. The M-NG-RAN node may include the *PDU Session Level UL Data Forwarding UP TNL Information* IE in the *Data Forwarding Info from target NG-RAN node* IE within the *PDU Session Resource Modification Confirm Info – SN terminated* IE of the S-NODE MODIFICATION CONFIRM message to indicate that it accepts the proposed forwarding.

Upon reception of the S-NODE MODIFICATION CONFIRM message the S-NG-RAN node shall stop the timer TXnDCoverall.

If the S-NODE MODIFICATION CONFIRM message contains the *MR-DC Resource Coordination Information* IE, the S-NG-RAN node should forward it to lower layers and it may use it for the purpose of resource coordination with the M-NG-RAN node, or to coordinate with sidelink resources used in the M-NG-RAN node. The S-NG-RAN node shall consider the value of the received *UL Coordination Information* IE valid until reception of a new update of the IE for the same UE. The S-NG-RAN node shall consider the value of the received *DL Coordination Information* IE valid until reception of a new update of the IE for the same UE. If the *E-UTRA Coordination Assistance Information* IE or the *NR Coordination Assistance Information* IE is contained in the *MR-DC Resource Coordination Information* IE, the S-NG-RAN node shall, if supported, use the information to determine further coordination of resource utilisation between the S-NG-RAN node and the M-NG-RAN node.

If the S-NODE MODIFICATION REQUIRED message contains a PDU session resource to be released which is configured with the SCG bearer option within the *PDU sessions to be released List – SN terminated* IE, the S-NG-RAN node shall include the *RLC Mode* IE within the *DRBs To Be Released List* IE in the *PDU Session to be released List – SN terminated* IE in the S-NODE MODIFICATION REQUIRED message. The *RLC Mode* IE indicates the RLC mode used in the S-NG-RAN node for the DRB.

If the *Location Information at S-NODE* IE is included in the S-NODE MODIFICATION REQUIRED, the M-NG-RAN node shall store the included information so that it may be transferred towards the AMF.

If the *QoS Flows Mapped To DRB List* IE is included in the S-NODE MODIFICATION REQUIRED message for a DRB to be modified, the M-NG-RAN node shall replace any existing QoS flow mapping for that DRB with the one received.

If the S-NG-RAN node applied a full configuration or delta configuration, e.g., as part of mobility procedure involving a change of DU, the S-NG-RAN node shall inform the M-NG-RAN node by including the *RRC config indication* IE in the S-NODE MODIFICATION REQUIRED message.

If the S-NODE MODIFICATION CONFIRM message includes the *DRB IDs taken into use* IE, the S-NG-RAN node shall, if applicable, act as specified in TS 37.340 [8]

If the *SCG Indicator* IE is contained in the S-NODE MODIFICATION REQUIRED message and it is set to "released", the M-NG-RAN node shall, if supported, deduce that the SCG is removed.

For each DRB configured as MN-terminated split bearer/SCG bearer, if the *QoS Mapping Information* IE is included in the *DRBs To Be Modified List* IE in the *PDU Session Resource Modification Required Info – MN terminated* IE of the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall, if supported, use it to set DSCP and/or IPv6 flow label fields for the downlink IP packets which are transmitted from M-NG-RAN node to S-NG-RAN node through the GTP tunnels indicated by the *UP Transport Layer Information* IE.

For each DRB configured as SN-terminated split bearer/MCG bearer, if the *QoS Mapping Information* IE is included in the *DRBs Admitted to be Setup or Modified List* IE in the *PDU Session Resource Modification Confirm Info – SN terminated* IE of the S-NODE MODIFICATION CONFIRM message, the S-NG-RAN node shall, if supported, use it to set DSCP and/or IPv6 flow label fields for the downlink IP packets which are transmitted from S-NG-RAN node to M-NG-RAN node through the GTP tunnels indicated by the *UP Transport Layer Information* IE.

If the S-NG-RAN node receives in the S-NODE MODIFICATION CONFIRM message within the *PDU Session Resource Modification Confirm Info – SN terminated* IE a *DRBs Admitted to be Setup or Modified Item* IE with DRB ID(s) that it has not requested to be setup or modified, the S-NG-RAN node shall ignore the contained information.

If the *SCG UE History Information* IE is included in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall, if supported, use this information as specified in TS 37.340 [8]

If the *SCG Activation Request* IE is included in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall consider that the S-NG-RAN node is about to reconfigure the SCG resources as specified in TS 37.340 [8].

If the *Management Based MDT PLMN Modification List* IE is contained in the S-NODE MODIFICATION REQUEST message, the S-NG-RAN node shall, if supported, overwrite any previously stored Management Based MDT PLMN List information in the UE context and use the received information to determine subsequent selection of the UE for management based MDT defined in TS 32.422 [23].

If the *CPAC Information Required* IE is included in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall, if supported, consider that the request provides the configuration update for the list of PSCells prepared at the target SN, as described in TS 37.340 [8].

If the *CG-CandidateList* is included in the *S-NG-RAN node to M-NG-RAN node Container* IE in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall, if supported, use it for the purpose of CPAC.

If the *SCG Reconfiguration Notification* IE is included in the S-NODE MODIFICATION REQUIRED message and set to "executed", the M-NG-RAN node shall, if supported, consider that a prepared SN-initiated intra-SN CPC procedure or a reconfiguration with sync of the SCG using SRB3 has been executed, as specified in TS 37.340 [8]. If the *S-NG-RAN node to M-NG-RAN node Container* IE is also included in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node shall, if supported, consider that the received SCG configuration has already been applied in the UE and should not be forwarded to the UE.

**Interaction with the M-NG-RAN node initiated S-NG-RAN node Modification Preparation procedure:**

If applicable, as specified in TS 37.340 [8], the S-NG-RAN node may receive, after having initiated the S-NG-RAN node initiated S-NG-RAN node Modification procedure, the S-NODE MODIFICATION REQUEST message including the *measGapConfig* IE as defined in TS 38.331 [10] within the *M-NG-RAN node to S-NG-RAN node Container* IE.

If applicable, the S-NG-RAN node may receive, after having initiated the S-NG-RAN node initiated S-NG-RAN node Modification procedure, the S-NODE MODIFICATION REQUEST message including the *SN triggered* IE.

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| **Next change, ommited text not changed** |

#### 9.1.2.8 S-NODE MODIFICATION REQUIRED

This message is sent by the S-NG-RAN node to the M-NG-RAN node to request the modification of S-NG-RAN node resources for a specific UE.

Direction: S-NG-RAN node → M-NG-RAN node.

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| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.3.1 |  | YES | reject |
| M-NG-RAN node UE XnAP ID | M |  | NG-RAN node UE XnAP ID9.2.3.16 | Allocated at the M-NG-RAN node | YES | reject |
| S-NG-RAN node UE XnAP ID | M |  | NG-RAN node UE XnAP ID9.2.3.16 | Allocated at the S-NG-RAN node | YES | reject |
| Cause | M |  | 9.2.3.2 |  | YES | ignore |
| PDCP Change Indication | O |  | 9.2.3.74 |  | YES | ignore |
| **PDU Session Resources To Be Modified List** |  | *0..1* |  |  | YES | ignore |
| **>PDU Session Resources To Be Modified Item** |  | *1 .. <maxnoofPDUSessions>* |  | NOTE: If neither the *PDU Session Resource Modification Required Info – SN terminated* IE nor the*PDU Session Resource Modification Required Info – MN terminated* IEis present in a *PDU Session Resources To Be Modified Item* IE, abnormal conditions as specified in clause 8.3.4.4 apply. | – |  |
| >>PDU Session ID | M |  | 9.2.3.18 |  | – |  |
| >>PDU Session Resource Modification Required Info – SN terminated | O |  | 9.2.1.20 |  | – |  |
| >>PDU Session Resource Modification Required Info – MN terminated | O |  | 9.2.1.22 |  | – |  |
| **PDU Session Resources To Be Released List** |  | *0..1* |  |  | YES | ignore |
| **>PDU Session Resources To Be Released Item** |  | *1 .. <maxnoofPDUSessions>* |  |  | – |  |
| >PDU sessions to be released List – SN terminated | O |  | PDU session List with data forwarding request info9.2.1.24 |  | – |  |
| >PDU sessions to be released List – MN terminated | O |  | PDU session List with Cause9.2.1.26 |  | – |  |
| S-NG-RAN node to M-NG-RAN node Container | O |  | OCTET STRING | Includes the *CG-Config* message or the *CG-CandidateList* message as defined in subclause 11.2.2 of TS 38.331 [10]. | YES | ignore |
| Spare DRB IDs | O |  | DRB List9.2.1.29 | Indicates the list of unnecessary DRB IDs that had been used by the S-NG-RAN node. | YES | ignore |
| Required Number of DRB IDs | O |  | Number of DRBs9.2.3.78 | Indicates the number of DRB IDs that the S-NG-RAN node requests more. | YES | ignore |
| Location Information at S-NODE | O |  | Target Cell Global ID9.2.3.25 | Contains information to support localisation of the UE | YES | ignore |
| MR-DC Resource Coordination Information | O |  | 9.2.2.33 | Information used to coordinate resource utilisation between M-NG-RAN node and S-NG-RAN node.  | YES | ignore |
| RRC Config Indication | O |  | 9.2.3.72 |  | YES | reject |
| SCG Indicator | O |  | ENUMERATED(released,...) |  | YES | ignore |
| SCG UE History Information | O |  | 9.2.3.151 |  | Yes | ignore |
| SCG Activation Request | O |  | 9.2.3.154 |  | YES | ignore |
| **CPAC Information Required** | O |  |  | This IE may be sent from the target SN. | YES | ignore |
| **>Candidate PSCell List** |  | *1* |  | Indicates the full list of candidate PSCells prepared at the target S-NG-RAN node. | – |  |
| **>>Candidate PSCell Item** |  | *1 .. <maxnoofPSCellCandidate>* |  |  | – |  |
| >>>PSCell ID | M |  | NR CGI 9.2.2.7 |  | – |  |
| SCG Reconfiguration Notification | O |  | ENUMERATED (executed, ...) |  | YES | ignore |

|  |  |
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| Range bound | Explanation |
| maxnoofPDUSessions | Maximum no. of PDU sessions. Value is 256 |
| maxnoofPSCellCandidate | Maximum no, of PSCell candidate. Value is 8 |

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| **Next change, ommited text not changed** |

### 9.3.4 PDU Definitions

-- ASN1START

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-- PDU definitions for XnAP.

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

XnAP-PDU-Contents {

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

ngran-access (22) modules (3) xnap (2) version1 (1) xnap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

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-- IE parameter types from other modules.

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

IMPORTS

 ActivationIDforCellActivation,

 AMF-Region-Information,

 AMF-UE-NGAP-ID,

 AS-SecurityInformation,

 AssistanceDataForRANPaging,

 BitRate,

 Cause,

 CellAndCapacityAssistanceInfo-EUTRA,

 CellAndCapacityAssistanceInfo-NR,

 CellAssistanceInfo-EUTRA,

 CellAssistanceInfo-NR,

 CHOinformation-Req,

 CHOinformation-Ack,

 CHOinformation-AddReq,

 CHOinformation-ModReq,

 CHO-MRDC-EarlyDataForwarding,

 CHO-MRDC-Indicator,

 CPTransportLayerInformation,

 TNLA-To-Add-List,

 TNLA-To-Update-List,

 TNLA-To-Remove-List,

 TNLA-Setup-List,

 TNLA-Failed-To-Setup-List,

 CriticalityDiagnostics,

 XnUAddressInfoperPDUSession-List,

 DAPSResponseInfo-List,

 DataTrafficResourceIndication,

 DeliveryStatus,

 DesiredActNotificationLevel,

 DRB-ID,

 DRB-List,

 DRB-Number,

 DRBsSubjectToDLDiscarding-List,

 DRBsSubjectToEarlyStatusTransfer-List,

 DRBsSubjectToStatusTransfer-List,

 DRBToQoSFlowMapping-List,

 E-UTRA-CGI,

 ExpectedUEActivityBehaviour,

 ExpectedUEBehaviour,

 ExtendedUEIdentityIndexValue,

 FiveGCMobilityRestrictionListContainer,

 GlobalCell-ID,

 GlobalNG-RANNode-ID,

 GlobalNG-RANCell-ID,

 GUAMI,

 InterfaceInstanceIndication,

 I-RNTI,

 Local-NG-RAN-Node-Identifier,

 LocationInformationSNReporting,

 LocationReportingInformation,

 LowerLayerPresenceStatusChange,

 LTEUESidelinkAggregateMaximumBitRate,

 LTEV2XServicesAuthorized,

 MR-DC-ResourceCoordinationInfo,

 ServedCells-E-UTRA,

 ServedCells-NR,

 ServedCellsToUpdate-E-UTRA,

 ServedCellsToUpdate-NR,

 MAC-I,

 MaskedIMEISV,

 MDT-Configuration,

 MDTPLMNList,

 MobilityRestrictionList,

 Neighbour-NG-RAN-Node-List,

 NG-RAN-Cell-Identity,

 NG-RANnodeUEXnAPID,

 NR-CGI,

 NE-DC-TDM-Pattern,

 NRUESidelinkAggregateMaximumBitRate,

 NRV2XServicesAuthorized,

 PagingDRX,

 EUTRAPagingeDRXInformation,

 PagingPriority,

 PartialListIndicator,

 PLMN-Identity,

 PDCPChangeIndication,

 PDUSessionAggregateMaximumBitRate,

 PDUSession-ID,

 PDUSession-List,

 PDUSession-List-withCause,

 PDUSession-List-withDataForwardingFromTarget,

 PDUSession-List-withDataForwardingRequest,

 PDUSessionResourcesAdmitted-List,

 PDUSessionResourcesNotAdmitted-List,

 PDUSessionResourcesToBeSetup-List,

 PDUSessionResourceChangeRequiredInfo-SNterminated,

 PDUSessionResourceChangeRequiredInfo-MNterminated,

 PDUSessionResourceChangeConfirmInfo-SNterminated,

 PDUSessionResourceChangeConfirmInfo-MNterminated,

 PDUSessionResourceSecondaryRATUsageList,

 PDUSessionResourceSetupInfo-SNterminated,

 PDUSessionResourceSetupInfo-MNterminated,

 PDUSessionResourceSetupResponseInfo-SNterminated,

 PDUSessionResourceSetupResponseInfo-MNterminated,

 PDUSessionResourceModificationInfo-SNterminated,

 PDUSessionResourceModificationInfo-MNterminated,

 PDUSessionResourceModificationResponseInfo-SNterminated,

 PDUSessionResourceModificationResponseInfo-MNterminated,

 PDUSessionResourceModConfirmInfo-SNterminated,

 PDUSessionResourceModConfirmInfo-MNterminated,

 PDUSessionResourceModRqdInfo-SNterminated,

 PDUSessionResourceModRqdInfo-MNterminated,

 PDUSessionType,

 PC5QoSParameters,

 QoSFlowIdentifier,

 QoSFlowNotificationControlIndicationInfo,

 QoSFlows-List,

 RANPagingArea,

 ResetRequestTypeInfo,

 ResetResponseTypeInfo,

 RFSP-Index,

 RRCConfigIndication,

 RRCResumeCause,

 SCGConfigurationQuery,

 SCGreconfigNotification,

 SecurityIndication,

 S-NG-RANnode-SecurityKey,

 SpectrumSharingGroupID,

 SplitSRBsTypes,

 S-NG-RANnode-Addition-Trigger-Ind,

 S-NSSAI,

 TargetCellList,

 TAISupport-List,

 Target-CGI,

 TimeToWait,

 TraceActivation,

 UEAggregateMaximumBitRate,

 UEContextID,

 UEContextInfoRetrUECtxtResp,

 UEContextKeptIndicator,

 UEHistoryInformation,

 UEIdentityIndexValue,

 UERadioCapabilityForPaging,

 UERadioCapabilityID,

 UERANPagingIdentity,

 UESecurityCapabilities,

 UPTransportLayerInformation,

 UserPlaneTrafficActivityReport,

 XnBenefitValue,

 RANPagingFailure,

 TNLConfigurationInfo,

 MaximumCellListSize,

 MessageOversizeNotification,

 NG-RANTraceID,

 MobilityInformation,

 InitiatingCondition-FailureIndication,

 HandoverReportType,

 TargetCellinEUTRAN,

 C-RNTI,

 UERLFReportContainer,

 Measurement-ID,

 RegistrationRequest,

 ReportCharacteristics,

 CellToReport,

 ReportingPeriodicity,

 CellMeasurementResult,

 UEHistoryInformationFromTheUE,

 MobilityParametersInformation,

 MobilityParametersModificationRange,

 RACHReportInformation,

 IABNodeIndication,

 SNTriggered,

 SCGIndicator,

 UESpecificDRX,

 DirectForwardingPathAvailability,

 TransportLayerAddress,

 PrivacyIndicator,

 URIaddress,

 MBS-Session-ID,

 UEIdentityIndexList-MBSGroupPaging,

 MBS-SessionInformation-List,

 MBS-SessionInformationResponse-List,

 SuccessfulHOReportInformation,

 PSCellHistoryInformationRetrieve,

 SSBOffsets-List,

 NG-RANnode2SSBOffsetsModificationRange,

 Coverage-Modification-List,

 SCGFailureReportContainer,

 SNMobilityInformation,

 PSCellChangeHistory,

 CHOConfiguration,

 SCGUEHistoryInformation,

 F1CTrafficContainer,

 NoPDUSessionIndication,

 IAB-TNL-Address-Request,

 IAB-TNL-Address-Response,

 TrafficIndex,

 TrafficProfile,

 TrafficToBeReleaseInformation,

 F1-TerminatingTopologyBHInformation,

 Non-F1-TerminatingTopologyBHInformation,

 BHInfoList,

 IABTNLAddress,

 IABCellInformation,

 IABTNLAddressException,

 TimeSynchronizationAssistanceInformation,

 SCGActivationRequest,

 SCGActivationStatus,

 CPAInformationRequest,

 CPAInformationAck,

 CPCInformationRequired,

 CPCInformationConfirm,

 CPAInformationModReq,

 CPAInformationModReqAck,

 CPC-DataForwarding-Indicator,

 CPCInformationUpdate,

 CPACInformationModRequired,

 QMCConfigInfo,

 FiveGProSeAuthorized,

 FiveGProSePC5QoSParameters,

 ServedCellSpecificInfoReq-NR,

 NRPagingeDRXInformation,

 NRPagingeDRXInformationforRRCINACTIVE,

 SDTSupportRequest,

 SDT-Termination-Request,

 SDTPartialUEContextInfo,

 SDTDataForwardingDRBList,

 PEIPSassistanceInformation,

 UESliceMaximumBitRateList,

 PagingCause,

 MDTPLMNModificationList,

 F1-terminatingIAB-donorIndicator,

 SRB-ID

FROM XnAP-IEs

 PrivateIE-Container{},

 ProtocolExtensionContainer{},

 ProtocolIE-Container{},

 ProtocolIE-ContainerList{},

 ProtocolIE-ContainerPair{},

 ProtocolIE-ContainerPairList{},

 ProtocolIE-Single-Container{},

 XNAP-PRIVATE-IES,

 XNAP-PROTOCOL-EXTENSION,

 XNAP-PROTOCOL-IES,

 XNAP-PROTOCOL-IES-PAIR

FROM XnAP-Containers

 id-ActivatedServedCells,

 id-ActivationIDforCellActivation,

 id-AdditionalDRBIDs,

 id-AMF-Region-Information,

 id-AMF-Region-Information-To-Add,

 id-AMF-Region-Information-To-Delete,

 id-AssistanceDataForRANPaging,

 id-AvailableDRBIDs,

 id-Cause,

 id-cellAssistanceInfo-EUTRA,

 id-cellAssistanceInfo-NR,

 id-CellAndCapacityAssistanceInfo-EUTRA,

 id-CellAndCapacityAssistanceInfo-NR,

 id-ConfigurationUpdateInitiatingNodeChoice,

 id-UEContextID,

 id-CriticalityDiagnostics,

 id-XnUAddressInfoperPDUSession-List,

 id-DesiredActNotificationLevel,

 id-DRBsSubjectToStatusTransfer-List,

 id-ExpectedUEBehaviour,

 id-ExtendedUEIdentityIndexValue,

 id-FiveGCMobilityRestrictionListContainer,

 id-GlobalNG-RAN-node-ID,

 id-GUAMI,

 id-indexToRatFrequSelectionPriority,

 id-List-of-served-cells-E-UTRA,

 id-List-of-served-cells-NR,

 id-LocationInformationSN,

 id-LocationInformationSNReporting,

 id-LocationReportingInformation,

 id-LTEUESidelinkAggregateMaximumBitRate,

 id-LTEV2XServicesAuthorized,

 id-MAC-I,

 id-MaskedIMEISV,

 id-MDT-Configuration,

 id-MDTPLMNList,

 id-MN-to-SN-Container,

 id-MobilityRestrictionList,

 id-M-NG-RANnodeUEXnAPID,

 id-new-NG-RAN-Cell-Identity,

 id-newNG-RANnodeUEXnAPID,

 id-NRUESidelinkAggregateMaximumBitRate,

 id-NRV2XServicesAuthorized,

 id-oldNG-RANnodeUEXnAPID,

 id-OldtoNewNG-RANnodeResumeContainer,

 id-PagingCause,

 id-PagingDRX,

 id-EUTRAPagingeDRXInformation,

 id-PagingPriority,

 id-PartialListIndicator-EUTRA,

 id-PartialListIndicator-NR,

 id-PCellID,

 id-PDUSessionResourceSecondaryRATUsageList,

 id-PDUSessionResourcesActivityNotifyList,

 id-PDUSessionResourcesAdmitted-List,

 id-PDUSessionResourcesNotAdmitted-List,

 id-PDUSessionResourcesNotifyList,

 id-PDUSessionToBeAddedAddReq,

 id-PDUSessionToBeReleased-RelReqAck,

 id-procedureStage,

 id-RANPagingArea,

 id-requestedSplitSRB,

 id-RequiredNumberOfDRBIDs,

 id-ResetRequestTypeInfo,

 id-ResetResponseTypeInfo,

 id-RespondingNodeTypeConfigUpdateAck,

 id-RRCResumeCause,

 id-SCGreconfigNotification,

 id-selectedPLMN,

 id-ServedCellsToActivate,

 id-servedCellsToUpdate-E-UTRA,

 id-ServedCellsToUpdateInitiatingNodeChoice,

 id-servedCellsToUpdate-NR,

 id-sourceNG-RANnodeUEXnAPID,

 id-SpareDRBIDs,

 id-S-NG-RANnodeMaxIPDataRate-UL,

 id-S-NG-RANnodeMaxIPDataRate-DL,

 id-S-NG-RANnodeUEXnAPID,

 id-TAISupport-list,

 id-Target2SourceNG-RANnodeTranspContainer,

 id-targetCellGlobalID,

 id-targetNG-RANnodeUEXnAPID,

 id-TimeToWait,

 id-TNLA-To-Add-List,

 id-TNLA-To-Update-List,

 id-TNLA-To-Remove-List,

 id-TNLA-Setup-List,

 id-TNLA-Failed-To-Setup-List,

 id-TraceActivation,

 id-UEContextInfoHORequest,

 id-UEContextInfoRetrUECtxtResp,

 id-UEContextKeptIndicator,

 id-UEContextRefAtSN-HORequest,

 id-UEHistoryInformation,

 id-UEIdentityIndexValue,

 id-UERANPagingIdentity,

 id-UESecurityCapabilities,

 id-UserPlaneTrafficActivityReport,

 id-XnRemovalThreshold,

 id-PDUSessionAdmittedAddedAddReqAck,

 id-PDUSessionNotAdmittedAddReqAck,

 id-SN-to-MN-Container,

 id-RRCConfigIndication,

 id-SplitSRB-RRCTransfer,

 id-UEReportRRCTransfer,

 id-PDUSessionReleasedList-RelConf,

 id-BearersSubjectToCounterCheck,

 id-PDUSessionToBeReleasedList-RelRqd,

 id-ResponseInfo-ReconfCompl,

 id-initiatingNodeType-ResourceCoordRequest,

 id-respondingNodeType-ResourceCoordResponse,

 id-PDUSessionToBeReleased-RelReq,

 id-PDUSession-SNChangeRequired-List,

 id-PDUSession-SNChangeConfirm-List,

 id-PDCPChangeIndication,

 id-PC5QoSParameters,

 id-SCGConfigurationQuery,

 id-UEContextInfo-SNModRequest,

 id-requestedSplitSRBrelease,

 id-PDUSessionAdmitted-SNModResponse,

 id-PDUSessionNotAdmitted-SNModResponse,

 id-admittedSplitSRB,

 id-admittedSplitSRBrelease,

 id-PDUSessionAdmittedModSNModConfirm,

 id-PDUSessionReleasedSNModConfirm,

 id-s-ng-RANnode-SecurityKey,

 id-PDUSessionToBeModifiedSNModRequired,

 id-S-NG-RANnodeUE-AMBR,

 id-PDUSessionToBeReleasedSNModRequired,

 id-target-S-NG-RANnodeID,

 id-S-NSSAI,

 id-MR-DC-ResourceCoordinationInfo,

 id-RANPagingFailure,

 id-UERadioCapabilityForPaging,

 id-PDUSessionDataForwarding-SNModResponse,

 id-Secondary-MN-Xn-U-TNLInfoatM,

 id-NE-DC-TDM-Pattern,

 id-InterfaceInstanceIndication,

 id-S-NG-RANnode-Addition-Trigger-Ind,

 id-SNTriggered,

 id-DRBs-transferred-to-MN,

 id-TNLConfigurationInfo,

 id-MessageOversizeNotification,

 id-NG-RANTraceID,

 id-FastMCGRecoveryRRCTransfer-SN-to-MN,

 id-FastMCGRecoveryRRCTransfer-MN-to-SN,

 id-RequestedFastMCGRecoveryViaSRB3,

 id-AvailableFastMCGRecoveryViaSRB3,

 id-RequestedFastMCGRecoveryViaSRB3Release,

 id-ReleaseFastMCGRecoveryViaSRB3,

 id-CHOinformation-Req,

 id-CHOinformation-Ack,

 id-targetCellsToCancel,

 id-requestedTargetCellGlobalID,

 id-DAPSResponseInfo-List,

 id-CHO-MRDC-EarlyDataForwarding,

 id-CHO-MRDC-Indicator,

 id-MobilityInformation,

 id-InitiatingCondition-FailureIndication,

 id-UEHistoryInformationFromTheUE,

 id-HandoverReportType,

 id-HandoverCause,

 id-SourceCellCGI,

 id-TargetCellCGI,

 id-ReEstablishmentCellCGI,

 id-TargetCellinEUTRAN,

 id-SourceCellCRNTI,

 id-UERLFReportContainer,

 id-NGRAN-Node1-Measurement-ID,

 id-NGRAN-Node2-Measurement-ID,

 id-RegistrationRequest,

 id-ReportCharacteristics,

 id-CellToReport,

 id-ReportingPeriodicity,

 id-CellMeasurementResult,

 id-NG-RANnode1CellID,

 id-NG-RANnode2CellID,

 id-NG-RANnode1MobilityParameters,

 id-NG-RANnode2ProposedMobilityParameters,

 id-MobilityParametersModificationRange,

 id-RACHReportInformation,

 id-IABNodeIndication,

 id-UERadioCapabilityID,

 id-SCGIndicator,

 id-UESpecificDRX,

 id-PDUSessionExpectedUEActivityBehaviour,

 id-DirectForwardingPathAvailability,

 id-SourceNG-RAN-node-ID,

 id-TargetNodeID,

 id-ManagementBasedMDTPLMNList,

 id-PrivacyIndicator,

 id-TraceCollectionEntityIPAddress,

 id-TraceCollectionEntityURI,

 id-MBS-Session-ID,

 id-UEIdentityIndexList-MBSGroupPaging,

 id-MulticastRANPagingArea,

 id-MBS-SessionInformation-List,

 id-MBS-SessionInformationResponse-List,

 id-SuccessfulHOReportInformation,

 id-PSCellHistoryInformationRetrieve,

 id-SSBOffsets-List,

 id-NG-RANnode2SSBOffsetsModificationRange,

 id-Coverage-Modification-List,

 id-SourcePSCellCGI,

 id-FailedPSCellCGI,

 id-SCGFailureReportContainer,

 id-SNMobilityInformation,

 id-SourcePSCellID,

 id-SuitablePSCellCGI,

 id-PSCellChangeHistory,

 id-CHOConfiguration,

 id-SCGUEHistoryInformation,

 id-F1CTrafficContainer,

 id-NoPDUSessionIndication,

 id-F1-Terminating-IAB-DonorUEXnAPID,

 id-nonF1-Terminating-IAB-DonorUEXnAPID,

 id-IAB-TNL-Address-Request,

 id-IAB-TNL-Address-Response,

 id-TrafficToBeAddedList,

 id-TrafficToBeModifiedList,

 id-TrafficToBeReleaseInformation,

 id-TrafficAddedList,

 id-TrafficModifiedList,

 id-TrafficNotAddedList,

 id-TrafficNotModifiedList,

 id-TrafficRequiredToBeModifiedList,

 id-TrafficRequiredModifiedList,

 id-TrafficReleasedList,

 id-IABTNLAddressToBeAdded,

 id-IABTNLAddressToBeReleasedList,

 id-BoundaryNodeCellsList,

 id-ParentNodeCellsList,

 id-IABTNLAddressException,

 id-CHOinformation-AddReq,

 id-CHOinformation-ModReq,

 id-TimeSynchronizationAssistanceInformation,

 id-SCGActivationRequest,

 id-SCGActivationStatus,

 id-CPAInformationRequest,

 id-CPAInformationAck,

 id-CPCInformationRequired,

 id-CPCInformationConfirm,

 id-CPAInformationModReq,

 id-CPAInformationModReqAck,

 id-CPC-DataForwarding-Indicator,

 id-CPCInformationUpdate,

 id-CPACInformationModRequired,

 id-QMCConfigInfo,

 id-Local-NG-RAN-Node-Identifier,

 id-Neighbour-NG-RAN-Node-List,

 id-Local-NG-RAN-Node-Identifier-Removal,

 id-FiveGProSeAuthorized,

 id-FiveGProSePC5QoSParameters,

 id-FiveGProSeUEPC5AggregateMaximumBitRate,

 id-ServedCellSpecificInfoReq-NR,

 id-NRPagingeDRXInformation,

 id-NRPagingeDRXInformationforRRCINACTIVE,

 id-SDTSupportRequest,

 id-SDT-SRB-between-NewNode-OldNode,

 id-SDT-Termination-Request,

 id-SDTPartialUEContextInfo,

 id-SDTDataForwardingDRBList,

 id-PEIPSassistanceInformation,

 id-UESliceMaximumBitRateList,

 id-S-NG-RANnodeUE-Slice-MBR,

 id-ManagementBasedMDTPLMNModificationList,

 id-F1-terminatingIAB-donorIndicator,

 maxnoofCellsinNG-RANnode,

 maxnoofDRBs,

 maxnoofPDUSessions,

 maxnoofQoSFlows,

 maxnoofServedCellsIAB,

 maxnoofTrafficIndexEntries,

 maxnoofTLAsIAB,

 maxnoofBAPControlPDURLCCHs,

 maxnoofServingCells

FROM XnAP-Constants;

|  |
| --- |
| **Next change, ommited text not changed** |

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

--

-- S-NODE MODIFICATION REQUIRED

--

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

SNodeModificationRequired ::= SEQUENCE {

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

 ...

}

SNodeModificationRequired-IEs XNAP-PROTOCOL-IES ::= {

 { ID id-M-NG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

 { ID id-S-NG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

 { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory}|

 { ID id-PDCPChangeIndication CRITICALITY ignore TYPE PDCPChangeIndication PRESENCE optional }|

 { ID id-PDUSessionToBeModifiedSNModRequired CRITICALITY ignore TYPE PDUSessionToBeModifiedSNModRequired PRESENCE optional }|

 { ID id-PDUSessionToBeReleasedSNModRequired CRITICALITY ignore TYPE PDUSessionToBeReleasedSNModRequired PRESENCE optional }|

 { ID id-SN-to-MN-Container CRITICALITY ignore TYPE OCTET STRING PRESENCE optional }|

 { ID id-SpareDRBIDs CRITICALITY ignore TYPE DRB-List PRESENCE optional }|

 { ID id-RequiredNumberOfDRBIDs CRITICALITY ignore TYPE DRB-Number PRESENCE optional }|

 { ID id-LocationInformationSN CRITICALITY ignore TYPE Target-CGI PRESENCE optional }|

 { ID id-MR-DC-ResourceCoordinationInfo CRITICALITY ignore TYPE MR-DC-ResourceCoordinationInfo PRESENCE optional }|

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

 { ID id-AvailableFastMCGRecoveryViaSRB3 CRITICALITY ignore TYPE AvailableFastMCGRecoveryViaSRB3 PRESENCE optional }|

 { ID id-ReleaseFastMCGRecoveryViaSRB3 CRITICALITY ignore TYPE ReleaseFastMCGRecoveryViaSRB3 PRESENCE optional }|

 { ID id-SCGIndicator CRITICALITY ignore TYPE SCGIndicator PRESENCE optional }|

 { ID id-SCGUEHistoryInformation CRITICALITY ignore TYPE SCGUEHistoryInformation PRESENCE optional }|

 { ID id-SCGActivationRequest CRITICALITY ignore TYPE SCGActivationRequest PRESENCE optional }|

 { ID id-CPACInformationModRequired CRITICALITY ignore TYPE CPACInformationModRequired PRESENCE optional }|

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

 ...

}

PDUSessionToBeModifiedSNModRequired::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF PDUSessionToBeModifiedSNModRequired-Item

PDUSessionToBeModifiedSNModRequired-Item ::= SEQUENCE {

 pduSessionId PDUSession-ID,

 sn-terminated PDUSessionResourceModRqdInfo-SNterminated OPTIONAL,

 mn-terminated PDUSessionResourceModRqdInfo-MNterminated OPTIONAL,

-- NOTE: If neither the *PDU Session Resource Modification Required Info – SN terminated* IE

-- nor the *PDU Session Resource Modification Required Info – MN terminated* IE is present,

-- abnormal conditions as specified in clause 8.3.4.4 apply.

 iE-Extension ProtocolExtensionContainer { {PDUSessionToBeModifiedSNModRequired-Item-ExtIEs} } OPTIONAL,

 ...

}

PDUSessionToBeModifiedSNModRequired-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

 ...

}

PDUSessionToBeReleasedSNModRequired ::= SEQUENCE {

 sn-terminated PDUSession-List-withDataForwardingRequest OPTIONAL,

 mn-terminated PDUSession-List-withCause OPTIONAL,

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

 ...

}

PDUSessionToBeReleasedSNModRequired-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

 ...

}

|  |
| --- |
| **Next change, ommited text not changed** |

CompositeAvailableCapacity ::= SEQUENCE {

 cellCapacityClassValue CellCapacityClassValue OPTIONAL,

 capacityValueInfo CapacityValueInfo, -- this IE represents the IE "CapacityValue" in 9.2.2.a, it’s used to distinguish the "CapacityValue" in 9.2.2.c

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

 ...

}

CompositeAvailableCapacity-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

 ...

}

SCGreconfigNotification ::= ENUMERATED {executed, ...}

|  |
| --- |
| **Next change, ommited text not changed** |

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

--

-- IEs

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

id-ActivatedServedCells ProtocolIE-ID ::= 0

id-ActivationIDforCellActivation ProtocolIE-ID ::= 1

id-admittedSplitSRB ProtocolIE-ID ::= 2

id-admittedSplitSRBrelease ProtocolIE-ID ::= 3

id-AMF-Region-Information ProtocolIE-ID ::= 4

id-AssistanceDataForRANPaging ProtocolIE-ID ::= 5

id-BearersSubjectToCounterCheck ProtocolIE-ID ::= 6

id-Cause ProtocolIE-ID ::= 7

id-cellAssistanceInfo-NR ProtocolIE-ID ::= 8

id-ConfigurationUpdateInitiatingNodeChoice ProtocolIE-ID ::= 9

id-CriticalityDiagnostics ProtocolIE-ID ::= 10

id-XnUAddressInfoperPDUSession-List ProtocolIE-ID ::= 11

id-DRBsSubjectToStatusTransfer-List ProtocolIE-ID ::= 12

id-ExpectedUEBehaviour ProtocolIE-ID ::= 13

id-GlobalNG-RAN-node-ID ProtocolIE-ID ::= 14

id-GUAMI ProtocolIE-ID ::= 15

id-indexToRatFrequSelectionPriority ProtocolIE-ID ::= 16

id-initiatingNodeType-ResourceCoordRequest ProtocolIE-ID ::= 17

id-List-of-served-cells-E-UTRA ProtocolIE-ID ::= 18

id-List-of-served-cells-NR ProtocolIE-ID ::= 19

id-LocationReportingInformation ProtocolIE-ID ::= 20

id-MAC-I ProtocolIE-ID ::= 21

id-MaskedIMEISV ProtocolIE-ID ::= 22

id-M-NG-RANnodeUEXnAPID ProtocolIE-ID ::= 23

id-MN-to-SN-Container ProtocolIE-ID ::= 24

id-MobilityRestrictionList ProtocolIE-ID ::= 25

id-new-NG-RAN-Cell-Identity ProtocolIE-ID ::= 26

id-newNG-RANnodeUEXnAPID ProtocolIE-ID ::= 27

id-UEReportRRCTransfer ProtocolIE-ID ::= 28

id-oldNG-RANnodeUEXnAPID ProtocolIE-ID ::= 29

id-OldtoNewNG-RANnodeResumeContainer ProtocolIE-ID ::= 30

id-PagingDRX ProtocolIE-ID ::= 31

id-PCellID ProtocolIE-ID ::= 32

id-PDCPChangeIndication ProtocolIE-ID ::= 33

id-PDUSessionAdmittedAddedAddReqAck ProtocolIE-ID ::= 34

id-PDUSessionAdmittedModSNModConfirm ProtocolIE-ID ::= 35

id-PDUSessionAdmitted-SNModResponse ProtocolIE-ID ::= 36

id-PDUSessionNotAdmittedAddReqAck ProtocolIE-ID ::= 37

id-PDUSessionNotAdmitted-SNModResponse ProtocolIE-ID ::= 38

id-PDUSessionReleasedList-RelConf ProtocolIE-ID ::= 39

id-PDUSessionReleasedSNModConfirm ProtocolIE-ID ::= 40

id-PDUSessionResourcesActivityNotifyList ProtocolIE-ID ::= 41

id-PDUSessionResourcesAdmitted-List ProtocolIE-ID ::= 42

id-PDUSessionResourcesNotAdmitted-List ProtocolIE-ID ::= 43

id-PDUSessionResourcesNotifyList ProtocolIE-ID ::= 44

id-PDUSession-SNChangeConfirm-List ProtocolIE-ID ::= 45

id-PDUSession-SNChangeRequired-List ProtocolIE-ID ::= 46

id-PDUSessionToBeAddedAddReq ProtocolIE-ID ::= 47

id-PDUSessionToBeModifiedSNModRequired ProtocolIE-ID ::= 48

id-PDUSessionToBeReleasedList-RelRqd ProtocolIE-ID ::= 49

id-PDUSessionToBeReleased-RelReq ProtocolIE-ID ::= 50

id-PDUSessionToBeReleasedSNModRequired ProtocolIE-ID ::= 51

id-RANPagingArea ProtocolIE-ID ::= 52

id-PagingPriority ProtocolIE-ID ::= 53

id-requestedSplitSRB ProtocolIE-ID ::= 54

id-requestedSplitSRBrelease ProtocolIE-ID ::= 55

id-ResetRequestTypeInfo ProtocolIE-ID ::= 56

id-ResetResponseTypeInfo ProtocolIE-ID ::= 57

id-RespondingNodeTypeConfigUpdateAck ProtocolIE-ID ::= 58

id-respondingNodeType-ResourceCoordResponse ProtocolIE-ID ::= 59

id-ResponseInfo-ReconfCompl ProtocolIE-ID ::= 60

id-RRCConfigIndication ProtocolIE-ID ::= 61

id-RRCResumeCause ProtocolIE-ID ::= 62

id-SCGConfigurationQuery ProtocolIE-ID ::= 63

id-selectedPLMN ProtocolIE-ID ::= 64

id-ServedCellsToActivate ProtocolIE-ID ::= 65

id-servedCellsToUpdate-E-UTRA ProtocolIE-ID ::= 66

id-ServedCellsToUpdateInitiatingNodeChoice ProtocolIE-ID ::= 67

id-servedCellsToUpdate-NR ProtocolIE-ID ::= 68

id-s-ng-RANnode-SecurityKey ProtocolIE-ID ::= 69

id-S-NG-RANnodeUE-AMBR ProtocolIE-ID ::= 70

id-S-NG-RANnodeUEXnAPID ProtocolIE-ID ::= 71

id-SN-to-MN-Container ProtocolIE-ID ::= 72

id-sourceNG-RANnodeUEXnAPID ProtocolIE-ID ::= 73

id-SplitSRB-RRCTransfer ProtocolIE-ID ::= 74

id-TAISupport-list ProtocolIE-ID ::= 75

id-TimeToWait ProtocolIE-ID ::= 76

id-Target2SourceNG-RANnodeTranspContainer ProtocolIE-ID ::= 77

id-targetCellGlobalID ProtocolIE-ID ::= 78

id-targetNG-RANnodeUEXnAPID ProtocolIE-ID ::= 79

id-target-S-NG-RANnodeID ProtocolIE-ID ::= 80

id-TraceActivation ProtocolIE-ID ::= 81

id-UEContextID ProtocolIE-ID ::= 82

id-UEContextInfoHORequest ProtocolIE-ID ::= 83

id-UEContextInfoRetrUECtxtResp ProtocolIE-ID ::= 84

id-UEContextInfo-SNModRequest ProtocolIE-ID ::= 85

id-UEContextKeptIndicator ProtocolIE-ID ::= 86

id-UEContextRefAtSN-HORequest ProtocolIE-ID ::= 87

id-UEHistoryInformation ProtocolIE-ID ::= 88

id-UEIdentityIndexValue ProtocolIE-ID ::= 89

id-UERANPagingIdentity ProtocolIE-ID ::= 90

id-UESecurityCapabilities ProtocolIE-ID ::= 91

id-UserPlaneTrafficActivityReport ProtocolIE-ID ::= 92

id-XnRemovalThreshold ProtocolIE-ID ::= 93

id-DesiredActNotificationLevel ProtocolIE-ID ::= 94

id-AvailableDRBIDs ProtocolIE-ID ::= 95

id-AdditionalDRBIDs ProtocolIE-ID ::= 96

id-SpareDRBIDs ProtocolIE-ID ::= 97

id-RequiredNumberOfDRBIDs ProtocolIE-ID ::= 98

id-TNLA-To-Add-List ProtocolIE-ID ::= 99

id-TNLA-To-Update-List ProtocolIE-ID ::= 100

id-TNLA-To-Remove-List ProtocolIE-ID ::= 101

id-TNLA-Setup-List ProtocolIE-ID ::= 102

id-TNLA-Failed-To-Setup-List ProtocolIE-ID ::= 103

id-PDUSessionToBeReleased-RelReqAck ProtocolIE-ID ::= 104

id-S-NG-RANnodeMaxIPDataRate-UL ProtocolIE-ID ::= 105

id-PDUSessionResourceSecondaryRATUsageList ProtocolIE-ID ::= 107

id-Additional-UL-NG-U-TNLatUPF-List ProtocolIE-ID ::= 108

id-SecondarydataForwardingInfoFromTarget-List ProtocolIE-ID ::= 109

id-LocationInformationSNReporting ProtocolIE-ID ::= 110

id-LocationInformationSN ProtocolIE-ID ::= 111

id-LastE-UTRANPLMNIdentity ProtocolIE-ID ::= 112

id-S-NG-RANnodeMaxIPDataRate-DL ProtocolIE-ID ::= 113

id-MaxIPrate-DL ProtocolIE-ID ::= 114

id-SecurityResult ProtocolIE-ID ::= 115

id-S-NSSAI ProtocolIE-ID ::= 116

id-MR-DC-ResourceCoordinationInfo ProtocolIE-ID ::= 117

id-AMF-Region-Information-To-Add ProtocolIE-ID ::= 118

id-AMF-Region-Information-To-Delete ProtocolIE-ID ::= 119

id-OldQoSFlowMap-ULendmarkerexpected ProtocolIE-ID ::= 120

id-RANPagingFailure ProtocolIE-ID ::= 121

id-UERadioCapabilityForPaging ProtocolIE-ID ::= 122

id-PDUSessionDataForwarding-SNModResponse ProtocolIE-ID ::= 123

id-DRBsNotAdmittedSetupModifyList ProtocolIE-ID ::= 124

id-Secondary-MN-Xn-U-TNLInfoatM ProtocolIE-ID ::= 125

id-NE-DC-TDM-Pattern ProtocolIE-ID ::= 126

id-PDUSessionCommonNetworkInstance ProtocolIE-ID ::= 127

id-BPLMN-ID-Info-EUTRA ProtocolIE-ID ::= 128

id-BPLMN-ID-Info-NR ProtocolIE-ID ::= 129

id-InterfaceInstanceIndication ProtocolIE-ID ::= 130

id-S-NG-RANnode-Addition-Trigger-Ind ProtocolIE-ID ::= 131

id-DefaultDRB-Allowed ProtocolIE-ID ::= 132

id-DRB-IDs-takenintouse ProtocolIE-ID ::= 133

id-SplitSessionIndicator ProtocolIE-ID ::= 134

id-CNTypeRestrictionsForEquivalent ProtocolIE-ID ::= 135

id-CNTypeRestrictionsForServing ProtocolIE-ID ::= 136

id-DRBs-transferred-to-MN ProtocolIE-ID ::= 137

id-ULForwardingProposal ProtocolIE-ID ::= 138

id-EndpointIPAddressAndPort ProtocolIE-ID ::= 139

id-IntendedTDD-DL-ULConfiguration-NR ProtocolIE-ID ::= 140

id-TNLConfigurationInfo ProtocolIE-ID ::= 141

id-PartialListIndicator-NR ProtocolIE-ID ::= 142

id-MessageOversizeNotification ProtocolIE-ID ::= 143

id-CellAndCapacityAssistanceInfo-NR ProtocolIE-ID ::= 144

id-NG-RANTraceID ProtocolIE-ID ::= 145

id-NonGBRResources-Offered ProtocolIE-ID ::= 146

id-FastMCGRecoveryRRCTransfer-SN-to-MN ProtocolIE-ID ::= 147

id-RequestedFastMCGRecoveryViaSRB3 ProtocolIE-ID ::= 148

id-AvailableFastMCGRecoveryViaSRB3 ProtocolIE-ID ::= 149

id-RequestedFastMCGRecoveryViaSRB3Release ProtocolIE-ID ::= 150

id-ReleaseFastMCGRecoveryViaSRB3 ProtocolIE-ID ::= 151

id-FastMCGRecoveryRRCTransfer-MN-to-SN ProtocolIE-ID ::= 152

id-ExtendedRATRestrictionInformation ProtocolIE-ID ::= 153

id-QoSMonitoringRequest ProtocolIE-ID ::= 154

id-FiveGCMobilityRestrictionListContainer ProtocolIE-ID ::= 155

id-PartialListIndicator-EUTRA ProtocolIE-ID ::= 156

id-CellAndCapacityAssistanceInfo-EUTRA ProtocolIE-ID ::= 157

id-CHOinformation-Req ProtocolIE-ID ::= 158

id-CHOinformation-Ack ProtocolIE-ID ::= 159

id-targetCellsToCancel ProtocolIE-ID ::= 160

id-requestedTargetCellGlobalID ProtocolIE-ID ::= 161

id-procedureStage ProtocolIE-ID ::= 162

id-DAPSRequestInfo ProtocolIE-ID ::= 163

id-DAPSResponseInfo-List ProtocolIE-ID ::= 164

id-CHO-MRDC-Indicator ProtocolIE-ID ::= 165

id-OffsetOfNbiotChannelNumberToDL-EARFCN ProtocolIE-ID ::= 166

id-OffsetOfNbiotChannelNumberToUL-EARFCN ProtocolIE-ID ::= 167

id-NBIoT-UL-DL-AlignmentOffset ProtocolIE-ID ::= 168

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 169

id-NRV2XServicesAuthorized ProtocolIE-ID ::= 170

id-LTEUESidelinkAggregateMaximumBitRate ProtocolIE-ID ::= 171

id-NRUESidelinkAggregateMaximumBitRate ProtocolIE-ID ::= 172

id-PC5QoSParameters ProtocolIE-ID ::= 173

id-AlternativeQoSParaSetList ProtocolIE-ID ::= 174

id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 175

id-MobilityInformation ProtocolIE-ID ::= 176

id-InitiatingCondition-FailureIndication ProtocolIE-ID ::= 177

id-UEHistoryInformationFromTheUE ProtocolIE-ID ::= 178

id-HandoverReportType ProtocolIE-ID ::= 179

id-HandoverCause ProtocolIE-ID ::= 180

id-SourceCellCGI ProtocolIE-ID ::= 181

id-TargetCellCGI ProtocolIE-ID ::= 182

id-ReEstablishmentCellCGI ProtocolIE-ID ::= 183

id-TargetCellinEUTRAN ProtocolIE-ID ::= 184

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| **Remaining text not changed** |