**3GPP TSG-RAN WG3 Meeting #116 Electronic R3-223387**

**Online Meeting, 9th – 19th May, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.473** | **CR** | **0910** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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:*** | Correction for IAB inter-donor DU re-routing and resource multiplexing | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Lenovo | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_IAB\_enh-Core | | | | |  | ***Date:*** | | | 2022-05-19 |
|  |  | | | |  | |  | | |  |
| ***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 can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | 1. The *F1-C Transfer Path NRDC* IE is included in UE CONTEXT MODIFICATION REQUEST message, but the procedure text is missing. 2. The inter-donor-DU re-routing can be switch off by the re-routing disable indicator included in the BAP MAPPING CONFIGURATION message, but the indicator only contains value "true”. Thus, in current specification, it is unclear how can the Network to enable the re-routing if it was disabled by such indication 3. In section 9.3.1.108, the DU\_RX/MT\_RX, DU\_TX/MT\_TX, DU\_TX/MT\_RX and DU\_RX/MT\_TX in Multiplexing Info IE are not extendable in both tabular and ASN.1 part since Rel-16, the new value “supported and FDM required” should not be added directly to these four IEs. 4. The “RB Set List/Item/Index” in *RB Set Configuration* IE should be renamed as “RB **Sets** List/Item/Index”, since each item identifies a group of “**RB Sets**” rather than a single RB Set, and maxnoofRBsetsPerCell means the max number of “RB Sets” in a cell which is 8. 5. The parameters “maxnoofRBsetsPerCell-1” and “maxnoofPhysicalResourceBlocks-1” lack of definitions in tabular. 6. In the semantic description of IAB Conditional RRC Message Delivery Indication IE, the gNB-DU should be restricted to an IAB-DU. 7. The current description of the backhaul link in gNB-DU Status Indication procedure (i.e. “the backhaul link to the child node”) is not clear which link is congested, if the child node is dual connected or has multiple grandchild nodes, because a child node can has backhaul link with two parent nodes, as well as some grandchild nodes. 8. The wordings of “IP address(es)” and “IP address” both appear in the text of IAB TNL Address Exception IE included in IAB TNL ADDRESS REQUEST message, which causes ambiguity. 9. In section 9.2.9.3, the order of TDD and FDD in the CHOICE *IAB-DU Cell Resource Configuration-Mode-Info* in the *Neighbour-Node Cells List Item* IE is not aligh with ASN.1 part. And the “FDD” label is missing in the tabular. Same problem is observed for the *IAB-MT Cell NA Resource Configuration-Mode-Info* in the *Serving Cells List Item* IE. 10. The order of the IEs included in IAB-MT-Cell-NA-Resource-Configuration-FDD-Info IE not align with that in the table of clause 9.2.9.3. 11. The order of the IEs in IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs IE not align with that in the table of 9.2.9.3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. In section 8.3.4.2, add the procedure text for *F1-C Transfer Path NRDC* IE. 2. Add a “false” option of Re-routing Disable Indicator IE included in BAP MAPPING CONFIGURATION message, correct the procedure text and the ASN.1 part accordingly. 3. In section 9.3.1.108, add four new extended IEs to support FDM, and deleted the FDM support in the current multiplexing IEs. 4. In section 9.3.1.230, Change the name of “RB Set List/Item/Index” in *RB Set Configuration* IE to RB Sets List/Item/Index, and change the corresponding ASN.1. 5. In section 9.3.1.107, and section 9.3.1.230, sdd the items of maxnoofRBsetsPerCell-1 and maxnoofPhysicalResourceBlocks-1 in the Range Bound Explanation tables. 6. In section 9.2.2.7, for the the semantic description of IAB Conditional RRC Message Delivery Indication IE, add sentence to indicate that the gNB-DU is an IAB-DU. 7. In section 8.2.7.1, describe the congested backhaul link in gNB-DU Status Indication procedure more accurately. 8. In section 8.10.3.2, use the wording of “IP address(es)” in the procedure text of IAB TNL Address Exception IE included in IAB TNL ADDRESS REQUEST message. 9. In section 9.2.9.3, switch the order of TDD and FDD in the CHOICE *IAB-DU Cell Resource Configuration-Mode-Info* in the *Neighbour-Node Cells List Item* IE, as well as the CHOICE *IAB-MT Cell NA Resource Configuration-Mode-Info* in the *Serving Cells List Item* IE. Add the missing “FDD” label. 10. 8.3.4.2: UE Context modification – Successful operation: Added how to handle conditional RRC message delivery in the case of migration/HO failure or arrival of a second RRC Reconfiguration. 11. Correct the order of the IEs in IAB-MT-Cell-NA-Resource-Configuration-FDD-Info IE in ASN.1 as it is shown in the table of 9.2.9.3. 12. Correct the order of the IEs in IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs IE in ASN.1 as it is shown in the table of 9.2.9.3.   **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 the changes only impact IAB functionality.  This CR has an impact under functional point of view.  The impact can be considered isolated because the change affects only the IAB related procedure.  The changes are backward compatible. | | | | | | | | |
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| ***Consequences if not approved:*** | | The inter-donor re-routing is not able to open again once disabled.  The parameters for resource multiplexing and interference coordination is absent in the ASN.1 part.  The FDM is not able to be supported for IAB-node. | | | | | | | | |
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| ***Clauses affected:*** | | 8.2.7.2, 8.3.4.2, 8.10.1.2, 8.10.3.2, 9.2.2.7, 9.2.9.1, 9.2.9.3, 9.3.1.89, 9.3.1.107, 9.3.1.108, 9.3.1.227, 9.3.1.229, 9.3.1.230, 9.4.4, 9.4.5, 9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

-------------------------------------------Start of changes-------------------------------------------

### 8.2.7 gNB-DU Status Indication

#### 8.2.7.1 General

The purpose of the gNB-DU Status Indication procedure is informing the gNB-CU that the gNB-DU is overloaded so that overload reduction actions can be applied. This procedure is also used to inform the IAB-donor-CU about a downlink congestion at an IAB-DU or an IAB-donor-DU. The procedure uses non-UE associated signalling.

#### 8.2.7.2 Successful Operation



Figure 8.2.7.2-1: gNB-DU Status Indication procedure

If the *gNB-DU* *Overload Information* IE in the GNB-DU STATUS INDICATION message indicates that the gNB-DU is overloaded, the gNB-CU shall apply overload reduction actions until informed, with a new GNB-DU STATUS INDICATION message, that the overload situation has ceased.

The detailed overload reduction policy is up to gNB-CU implementation.

If the gNB-DU is an IAB-DU or an IAB-donor-DU, and if the *IAB Congestion Indication* IE is present in the GNB-DU STATUS INDICATION message and only includes the *Child Node Identifier* IE, the gNB-CU shall, if supported, consider that the backhaul link between the gNB-DU and the node identified by the *Child Node Identifier* IE is congested. If the *IAB Congestion Indication* IE is present in the GNB-DU STATUS INDICATION message and includes both the *Child Node Identifier* IE and the *BH RLC CH ID* IE, the gNB-CU shall, if supported, consider that congestion occurs on the corresponding BH RLC channel(s) over the link towards the node identified by the *Child Node Identifier* IE.

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

-------------------------------------------Next change-------------------------------------------

### 8.3.4 UE Context Modification (gNB-CU initiated)

#### 8.3.4.1 General

The purpose of the UE Context Modification procedure is to modify the established UE Context, e.g., establishing, modifying and releasing radio resources or sidelink resources. This procedure is also used to command the gNB-DU to stop data transmission for the UE for mobility (see TS 38.401 [4]). The procedure uses UE-associated signalling.

#### 8.3.4.2 Successful Operation



Figure 8.3.4.2-1: UE Context Modification procedure. Successful operation

The UE CONTEXT MODIFICATION REQUEST message is initiated by the gNB-CU.

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

If the *Estimated Arrival Probability* IE is contained in the *Conditional Intra-DU Mobility Information* IE included in the UE CONTEXT MODIFICATION REQUEST message, then the gNB-DU may use the information to allocate necessary resources for the UE.

If the *Location Measurement Information* IE is included in the *CU to DU RRC Information* IE in the UE CONTEXT MODIFICATION REQUEST message, the gNB-DU shall, if supported, take it into account when configuring measurement gaps for the UE.

If the *F1-C Transfer Path NRDC* IE is included in UE CONTEXT MODIFICATION REQUEST message, the gNB-DU shall, if supported, take it into account.

If the gNB-DU is an IAB-DU, and if the *IAB Conditional* *RRC Message Delivery Indication* IE is included in the UE CONTEXT MODIFICATION REQUEST message together with the *RRC-Container* IE, and if its value is set to “true”, and if the *RRC-Container* IE is for a child IAB-MT of the gNB-DU, the gNB-DU shall, if supported, withhold the RRC message until the following conditions are met:

If the gNB-DU belongs to a migrating IAB-node, that its co-located IAB-MT has successfully performed the random-access procedure to the target parent node, and that the migrating IAB-node has one or more routing entries for the target path.

That the gNB-DU receives a subsequent UE CONTEXT SETUP MODIFICATION REQUESTwith an *RRC-Container IE* for the same child node.

If the gNB-DU belongs to a descendant node of the migrating IAB-node, that the co-located IAB-MT has received an *RRCReconfiguration* message including the intra-donor migration configurations, e.g., new TNL address(es) and the new default UL BAP routing ID, and that the IAB-node has one or more routing entries for the target path.

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**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

-------------------------------------------Next change-------------------------------------------

8.10 IAB Procedures

8.10.1 BAP Mapping Configuration

8.10.1.1 General

The BAP Mapping Configuration Procedure is initiated by the gNB-CU in order to configure the DL/UL routing information and/or traffic mapping information needed for the gNB-DU. The procedure uses non-UE associated signalling.

NOTE: Implementation shall ensure the avoidance of potential race conditions, i.e. it shall ensure that conflicting traffic mapping configurations are not concurrently performed using the non-UE-associated BAP Mapping Configuration procedure and the UE-associated UE Context Management procedures.

#### 8.10.1.2 Successful Operation



Figure 8.10.1.2-1: BAP Mapping Configuration procedure: Successful Operation

The gNB-CU initiates the procedure by sending BAP MAPPING CONFIGURATION message to the gNB-DU. The gNB-DU replies to the gNB-CU with BAP MAPPING CONFIGURATION ACKNOWLEDGE.

If *BH Routing Information Added List* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, store the BH routing information from this IE and use it for DL/UL traffic forwarding as specified in TS 38.340 [30]. If *BH Routing Information Added List* IE contains information for an existing BAP Routing ID, the gNB-DU shall, if supported, replace the previously stored routing information for this BAP Routing ID with the corresponding information in the *BH Routing Information Added List* IE.

If *BH Routing Information Removed List* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, remove the BH routing information according to such IE.

If the *Traffic Mapping Information* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, process the *Traffic Mapping Information* IE as follows:

- if the *IP to layer2 Traffic Mapping Info* IE is included, the gNB-DU shall store the mapping information contained in the *IP to layer2 Traffic Mapping Info To Add* IE, if present, and remove the previously stored mapping information as indicated by the *IP to layer2 Traffic Mapping Info To Remove* IE, if present. The gNB-DU shall use the mapping information stored for the mapping of IP traffic to layer 2, as specified in TS 38.340 [30].

- if the *BAP layer BH RLC channel Mapping Info* IE is included, the gNB-DU shall store the mapping information contained in the *BAP layer BH RLC channel Mapping Info To Add* IE, if present, and remove the previously stored mapping information as indicated by the *BAP layer BH RLC channel Mapping Info To Remove* IE, if present. The gNB-DU shall use the mapping information stored when forwarding traffic on BAP sublayer, as specified in TS 38.340 [30].

If the *Buffer Size Threshold* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, use it to determine the DL congestion based on the flow control feedback from child IAB-nodes as specified in TS 38.340 [30].

If *BAP Header Rewriting Added List* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, store the BAP header rewriting configuration from this IE, and use it as specified in TS 38.340 [30]. If *BAP Header Rewriting Added List* IE contains information for an existing ingress BAP Routing ID, the gNB-DU shall, if supported, replace the previously stored BAP header rewriting configuration for this ingress BAP Routing ID with the corresponding information in the *BAP Header Rewriting Added List* IE.

If *BAP Header Rewriting Removed List* IE is included in the BAP MAPPING CONFIGURATION message, the gNB-DU shall, if supported, remove the BAP header rewriting configuration according to such IE.

If the *Re-routing Disable Indicator* IE is included in the BAP MAPPING CONFIGURATION message, and if its value is set to “true”, the co-located IAB-MT of the gNB-DU shall, if supported, disable the inter-donor-DU re-routing, as specified in TS 38.340 [30]. If the *Re-routing Disable Indicator* IE is included in the BAP MAPPING CONFIGURATION message, and if its value is set to “false”, the gNB-DU shall, if supported, enable the inter-donor-DU re-routing.

### 8.10.3 IAB TNL Address Allocation

#### 8.10.3.1 General

The purpose of the IAB TNL Address Allocation procedure is to allocate TNL addresses to be used by the IAB-node(s). This procedure uses non-UE associated signalling.

NOTE: This procedure is applicable for IAB-donor-DU, where the term "gNB-DU" applies to IAB-donor-DU, and the term "gNB-CU" applies to IAB-donor-CU.

#### 8.10.3.2 Successful Operation



Figure 8.10.3.2-1: IAB TNL Address Allocation procedure: Successful Operation

The gNB-CU initiates the procedure by sending the IAB TNL ADDRESS REQUEST message to the gNB-DU.

If the IAB TNL ADDRESS REQUEST message contains the *IAB IPv4 Addresses Requested* IE, the gNB-DU shall allocate the individual TNL address(es) accordingly and include these IPv4 address(es) in the IAB TNL ADDRESS RESPONSE message.

If the IAB TNL ADDRESS REQUEST message contains the *IAB IPv6 Request Type* IE, the gNB-DU shall allocate the individual IPv6 address(es) or IPv6 address prefix(es) accordingly and include these IPv6 address(es) or IPv6 address prefix(es) in the IAB TNL ADDRESS RESPONSE message.

If the IAB TNL ADDRESS REQUEST message contains the *IAB TNL Addresses To Remove List* IE, the gNB-DU shall consider that the TNL address(es) and/or TNL address prefix(es) therein are no longer used by the IAB-node(s). In addition, if the IAB TNL ADDRESS REQUEST message only contains the *IAB TNL Addresses to Remove List* IE, the gNB-CU shall ignore the *IAB Allocated TNL Address List* IE in the IAB TNL ADDRESS RESPONSE message.

If the IAB TNL ADDRESS RESPONSE message contains the *IAB TNL Address Usage IE* in the *IAB Allocated TNL Address Item* IE, the gNB-CU shall consider the indicated TNL address usage when allocating a TNL address to an IAB-node. Otherwise, the gNB-CU shall consider that the TNL address can be used for all traffic when allocating the TNL address to an IAB-node.

If the *IAB TNL Address Exception* IE is included in the IAB TNL ADDRESS REQUEST message and the gNB-DU is an IAB-donor-DU, the gNB-DU shall, if supported, consider the IP address(es) therein as exempt from TNL address filtering, and forward the packets with the address(es) indicated by this IE, as specified in TS 38.401 [4].

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#### 9.2.2.7 UE CONTEXT MODIFICATION REQUEST

This message is sent by the gNB-CU to provide UE Context information changes to the gNB-DU.

Direction: gNB-CU → gNB-DU

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | M |  | 9.3.1.5 |  | YES | reject |
| **>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<** | | | | | | |
| SCG Indicator | O |  | ENUMERATED(released,...) | This IE is used at the MN in NR-DC and NE-DC and it indicates the release of an SCG | YES | ignore |
| IAB Conditional RRC Message Delivery Indication | O |  | ENUMERATED (true, …) | Indicates whether the RRC message within should be withheld. This IE is only applicable if the UE is an IAB-MT, and the gNB-DU is an IAB-DU. | YES | reject |
| F1-C Transfer Path NRDC | O |  | 9.3.1.228 | This IE is only applicable if the UE is an IAB-MT. | YES | reject |

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9.2.9 IAB messages

9.2.9.1 BAP MAPPING CONFIGURATION

This message is sent by the gNB-CU to provide the backhaul routing information and/or traffic mapping information to the gNB-DU.

Direction: gNB-CU → gNB-DU

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| **BH Routing Information Added List** |  | *0...1* |  |  | YES | ignore |
| **>BH Routing Information Added List Item** |  | *1.. <maxnoofRoutingEntries>* |  |  | EACH | ignore |
| >>BAP Routing ID | M |  | 9.3.1.110 |  | - |  |
| >>Next-Hop BAP Address | M |  | 9.3.1.111 | Indicates the BAP address of the next hop IAB-node or IAB-donor-DU. | - |  |
| >>Non-F1-Terminating Topology Indicator | O |  | ENUMERATED(true, ...) | If present, indicates that the routing entry applies to the non-F1-terminating topology of the boundary IAB-node. | YES | ignore |
| **BH Routing Information Removed List** |  | *0...1* |  |  | YES | ignore |
| **>BH Routing Information Removed List Item** |  | *1.. <maxnoofRoutingEntries>* |  |  | EACH | ignore |
| >>BAP Routing ID | M |  | 9.3.1.110 |  | - |  |
| Traffic Mapping Information | O |  | 9.3.1.95 |  | YES | ignore |
| Buffer Size Threshold | O |  | INTEGER (0..224-1) | The buffer size threshold (in bytes) for DL local rerouting, triggered by hop-by-hop flow control feedback. | YES | ignore |
| **BAP Header Rewriting Added List** |  | *0...1* |  |  | YES | ignore |
| **>BAP Header Rewriting Added List Item** |  | *1.. <maxnoofRoutingEntries>* |  |  | EACH | ignore |
| >>Ingress BAP Routing ID | M |  | 9.3.1.110 |  | - |  |
| >>Egress BAP Routing ID | M |  | 9.3.1.110 |  | - |  |
| >>Non-F1-terminating Topology Indicator | O |  | ENUMERATED (true, …) | If present, indicates that the egress BAP Routing ID in the present BAP header rewriting entry pertains to the non-F1-terminating topology of the boundary IAB-node. | - |  |
| Re-routing Disable Indicator | O |  | ENUMERATED (true, false, …) | If present, indicates that the inter-donor-DU rerouting is disabled. | YES | ignore |
| **BAP Header Rewriting Removed List** |  | *0...1* |  |  | YES | ignore |
| **>BAP Header Rewriting Removed List Item** |  | *1.. <maxnoofRoutingEntries>* |  |  | EACH | ignore |
| >>Ingress BAP Routing ID | M |  | 9.3.1.110 |  |  |  |

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| **Range bound** | **Explanation** |
| maxnoofRoutingEntries | Maximum no. of routing entries, the maximum value is 1024. |

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#### 9.2.9.3 GNB-DU RESOURCE CONFIGURATION

This message is sent by the gNB-CU to provide the resource configuration for an gNB-DU.

Direction: gNB-CU → gNB-DU

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| **Activated Cells to Be Updated List** |  | *0..1* |  | List of activated cells served by the IAB-DU or the IAB-donor-DU whose resource configuration is updated | YES | reject |
| **>Activated Cells To Be Updated List Item** |  | *1 .. <maxnoofServedCellsIAB>* |  |  | EACH | reject |
| >> NR CGI | M |  | 9.3.1.12 |  | - |  |
| >>CHOICE *IAB-DU Cell Resource Configuration-Mode-Info* | M |  |  |  | - |  |
| >>>TDD |  |  |  |  |  |  |
| **>>>>TDD Info** |  | *1* |  |  |  |  |
| >>>>>gNB-DU Cell Resource Configuration-TDD | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains TDD resource configuration of the gNB-DU’s cell. | - |  |
| >>>FDD |  |  |  |  |  |  |
| **>>>>FDD Info** |  | *1* |  |  | - |  |
| >>>>>gNB-DU Cell Resource Configuration-FDD-UL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD UL resource configuration of the gNB-DU’s cell. | - |  |
| >>>>>gNB-DU Cell Resource Configuration-FDD-DL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD DL resource configuration of the gNB-DU’s cell. | - |  |
| **Child-Nodes List** |  | *0..1* |  | List of child IAB-nodes served by the IAB-DU or IAB-donor-DU. | YES | reject |
| **>Child-Nodes List Item** |  | *1 .. <maxnoofChildIABNodes>* |  |  | EACH | reject |
| >>gNB-CU UE F1AP ID | M |  | 9.3.1.4 | Identifier of a descendant node IAB-MT at the IAB-donor-CU. | YES | reject |
| >>gNB-DU UE F1AP ID | M |  | 9.3.1.5 | Identifier of a child-node IAB-MT at an IAB-DU or IAB-donor-DU. | YES | reject |
| **>>Child-Node Cells List** |  | *0..1* |  | List of cells served by the child-node IAB-DU whose resource configuration is updated. | YES | reject |
| **>>>Child-Node Cells List Item** |  | *1 .. <maxnoofServedCellsIAB >* |  |  | EACH | reject |
| >>>>NR CGI | M |  | 9.3.1.12 |  | - |  |
| >>>>CHOICE *IAB-DU Cell Resource Configuration-Mode-Info* | O |  |  |  | - |  |
| >>>>>*TDD* |  |  |  |  | - |  |
| **>>>>>>TDD Info** |  | *1* |  |  | - |  |
| >>>>>>>gNB-DU Cell Resource Configuration-TDD | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains TDD resource configuration of gNB-DU’s cell. | - |  |
| >>>>>>>NR FreqInfo | O |  | NR Frequency Info  9.3.1.17 |  | YES | reject |
| >>>>>>>Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | YES | reject |
| >>>>>>>NR Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *Transmission Bandwidth* IE shall be ignored. | YES | reject |
| >>>>>*FDD* |  |  |  |  | - |  |
| **>>>>>>FDD Info** |  | *1* |  |  | - |  |
| >>>>>>>gNB-DU Cell Resource Configuration-FDD-UL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD UL resource configuration of gNB-DU’s cell. | - |  |
| >>>>>>>gNB-DU Cell Resource Configuration-FDD-DL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD DL resource configuration of gNB-DU’s cell. | - |  |
| >>>>>>>UL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | YES | reject |
| >>>>>>>UL Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | YES | reject |
| >>>>>>>UL NR Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | YES | reject |
| >>>>>>>DL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | YES | reject |
| >>>>>>>DL Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | YES | reject |
| >>>>>>>DL NR Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *DL Transmission Bandwidth* IE shall be ignored. | YES | reject |
| >>>>IAB STC Info | O |  | 9.3.1.109 | STC configuration of child-node IAB-DU’s cell. |  |  |
| >>>>RACH Config Common | O |  | OCTET STRING | Corresponds to the *rach-ConfigCommon* as defined in subclause 6.3.2 of TS 38.331 [8]. |  |  |
| >>>>RACH Config Common IAB | O |  | OCTET STRING | Corresponds to the IAB-specific *rach-ConfigCommonIAB-r16* as defined in subclause 6.3.2 of TS 38.331 [8]. |  |  |
| >>>>CSI-RS Configuration | O |  | OCTET STRING | Corresponds to the *NZP-CSI-RS-Resource* as defined in subclause 6.3.2 of TS 38.331 [8]. |  |  |
| >>>>SR Configuration | O |  | OCTET STRING | Corresponds to the *SchedulingRequestResourceConfig* as defined in subclause 6.3.2 of TS 38.331 [8]. |  |  |
| >>>>PDCCH Configuration SIB1 | O |  | OCTET STRING | Corresponds to the *PDCCH-ConfigSIB1* as defined in subclause 6.3.2 of TS 38.331 [8]. |  |  |
| >>>>SCS Common | O |  | OCTET STRING | Corresponds to the *subCarrierSpacingCommon* as defined in subclause 6.2.2 of TS 38.331 [8]. |  |  |
| >>>>Multiplexing Info | O |  | 9.3.1.108 | Contains information on multiplexing with cells configured for co-located IAB-MT. |  |  |
| **Neighbour-Node Cells List** |  | *0..1* |  | List of neighbor node cells. | YES | reject |
| **>Neighbour-Node Cells List Item** |  | *1 .. <* *maxnoofNeighbourNodeCellsIAB>* |  |  | EACH | reject |
| >>NR CGI | M |  | 9.3.1.12 |  | - |  |
| >>gNB-CU UE F1AP ID | O |  | 9.3.1.4 | Identifier of a child-node IAB-MT at an IAB-donor-CU. | - |  |
| >>gNB-DU UE F1AP ID | O |  | 9.3.1.5 | Identifier of a child-node IAB-MT at an IAB-DU or IAB-donor-DU. | - |  |
| >>Peer Parent-Node Indicator | O |  | ENUMERATED (true, …) | Indicates if the cell belongs to the peer parent IAB-node of the boundary IAB-node. | - |  |
| >>CHOICE *IAB-DU Cell Resource Configuration-Mode-Info* | O |  |  |  | - |  |
| >>>*FDD* |  |  |  |  |  |  |
| **>>>>FDD Info** |  | *1* |  |  | - |  |
| >>>>>gNB-DU Cell Resource Configuration-FDD-UL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD UL resource configuration of neighbor gNB-DU’s cell or peer parent-node’s cell. | - |  |
| >>>>>gNB-DU Cell Resource Configuration-FDD-DL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD DL resource configuration of neighbor gNB-DU’s cell or peer parent-node’s cell. | - |  |
| >>>>>UL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>ULTransmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>UL Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | - |  |
| >>>>>DL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>DL Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>DL Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | - |  |
| >>>*TDD* |  |  |  |  | - |  |
| >>>>**TDD Info** |  | *1* |  |  | - |  |
| >>>>>gNB-DU Cell Resource Configuration-TDD | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains TDD resource configuration of neighbor gNB-DU’s cell or peer parent IAB-node’s cell. | - |  |
| >>>>>NR Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *Transmission Bandwidth* IE shall be ignored. | - |  |
| >>IAB STC Info | O |  | 9.3.1.109 | STC configuration of peer parent-node IAB-DU’s cell. | - |  |
| >>RACH Config Common | O |  | OCTET STRING | Common RACH Configuration of peer parent node IAB-DU’s cell. Corresponds to the *rach-ConfigCommon* as defined in subclause 6.3.2 of TS 38.331 [8]. | - |  |
| >>RACH Config Common IAB | O |  | OCTET STRING | IAB specific common RACH Configuration of peer parent node IAB-DU’s cell. Corresponds to the IAB-specific *rach-ConfigCommonIAB-r16* as defined in subclause 6.3.2 of TS 38.331 [8]. | - |  |
| >>CSI-RS Configuration | O |  | OCTET STRING | CSI-RS configuration of peer parent node IAB-DU’s cell.  Corresponds to the *NZP-CSI-RS-Resource* as defined in subclause 6.3.2 of TS 38.331 [8]. | - |  |
| >>SR Configuration | O |  | OCTET STRING | SR configuration of peer parent node IAB-DU’s cell.  Corresponds to the *SchedulingRequestResourceConfig* as defined in subclause 6.3.2 of TS 38.331 [8]. | - |  |
| >>PDCCH Configuration SIB1 | O |  | OCTET STRING | PDCCH configuration SIB1 of peer parent node IAB-DU’s cell. Corresponds to the *PDCCH-ConfigSIB1* as defined in subclause 6.3.2 of TS 38.331 [8]. | - |  |
| >>SCS Common | O |  | OCTET STRING | SCS Common of peer parent node IAB-DU’s cell. Corresponds to the *subCarrierSpacingCommon* as defined in subclause 6.2.2 of TS 38.331 [8]. | - |  |
| **Serving Cells List** |  | *0..1* |  | List of serving cells of the co-located IAB-MT. | YES | reject |
| **>Serving Cells List Item** |  | 1 .. < maxnoofServingCells > |  |  | EACH | reject |
| >>NR CGI | M |  | 9.3.1.12 |  | - |  |
| >>CHOICE *IAB-MT Cell NA Resource Configuration-Mode-Info* | O |  |  |  | - |  |
| >>>FDD |  |  |  |  |  |  |
| **>>>>FDD Info** |  | *1* |  |  | - |  |
| >>>>>gNB-DU Cell NA Resource Configuration-FDD-UL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD UL NA resource configuration of parent IAB-node’s cell for the co-located IAB-MT. | - |  |
| >>>>>gNB-DU Cell NA Resource Configuration-FDD-DL | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains FDD DL NA resource configuration of parent IAB-node’s cell for the co-located IAB-MT. | - |  |
| >>>>>UL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>ULTransmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>UL Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | - |  |
| >>>>>DL Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>DLTransmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>DL Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | - |  |
| >>>*TDD* |  |  |  |  | - |  |
| >>>>**TDD Info** |  | *1* |  |  | - |  |
| >>>>>gNB-DU Cell NA Resource Configuration-TDD | M |  | gNB-DU Cell Resource Configuration  9.3.1.107 | Contains TDD NA resource configuration of parent IAB-node’s cell for the co-located IAB-MT. | - |  |
| >>>>>NR Frequency Info | O |  | NR Frequency Info  9.3.1.17 |  | - |  |
| >>>>>Transmission Bandwidth | O |  | Transmission Bandwidth  9.3.1.15 |  | - |  |
| >>>>>Carrier List | O |  | NR Carrier List  9.3.1.137 | If included, the *Transmission Bandwidth* IE shall be ignored. | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofChildIABNodes | Maximum number of child nodes served by an IAB-DU or IAB-donor-DU. Value is 1024. |
| maxnoofServedCellsIAB | Maximum number of cells served by an IAB-DU or IAB-donor-DU. Value is 512. |
| maxnoofNeighbourNodeCellsIAB | Maximum no. of neighbour cells. Value is 1024. |

-------------------------------------------Next change-------------------------------------------

9.3.1Radio Network Layer Related IEs

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

#### 9.3.1.89 Intended TDD DL-UL Configuration

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

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

-------------------------------------------Next change-------------------------------------------

#### 9.3.1.107 gNB-DU Cell Resource Configuration

This IE contains the resource configuration of the cells served by a gNB-DU, i.e. the TDD/FDD resource parameters for each activated cell (TS 38.213 [31], clause 11.1.1).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Subcarrier Spacing | M |  | ENUMERATED (kHz15, kHz30, kHz60, kHz120, kHz240, spare3, spare2, spare1, …) | Subcarrier spacing used as reference for the TDD/FDD slot configuration. | YES | reject |
| DUF Transmission Periodicity | O |  | ENUMERATED (ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms5, ms10, …) |  | YES | reject |
| **DUF Slot Configuration List** |  | *0..1* |  |  |  |  |
| >**DUF Slot Configuration Item** |  | *1*..<*maxnoofDUFSlots*> |  | The *maxNrofSlots* in TS 38.331 [8]. | - |  |
| >>CHOICE *DUF Slot Configuration* | M |  |  |  | - |  |
| >>>Explicit Format |  |  |  |  | - |  |
| >>>>Permutation | M |  | ENUMERATED (DFU, UFD, …) |  | - |  |
| >>>>Number of Downlink Symbols | O |  | INTEGER (0..14) |  | - |  |
| >>>>Number of Uplink Symbols | O |  | INTEGER (0..14) |  | - |  |
| >>>Implicit Format |  |  |  |  |  |  |
| >>>>DUF Slot Format Index | M |  | INTEGER (0..254) | Index into Table 11.1.1-1 and Table 14-2 in TS 38.213 [31], excluding the last row in Table 14-2. | - |  |
| HSNA Transmission Periodicity | M |  | ENUMERATED (ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms5, ms10, ms20, ms40, ms80, ms160, …) |  | YES | reject |
| **HSNA Slot Configuration List** |  | 0..1 |  |  |  |  |
| >**HSNA Slot Configuration Item** |  | 1..<*maxnoofHSNASlots*> |  |  |  |  |
| >>HSNA Downlink | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for downlink symbols in a slot. | - |  |
| >>HSNA Uplink | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for uplink symbols in a slot. | - |  |
| >>HSNA Flexible | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for flexible symbols in a slot. | - |  |
| RB Set Configuration | O |  | 9.3.1.230 |  | YES | reject |
| **Frequency-Domain HSNA Configuration List** |  | 0..1 |  |  | YES | reject |
| **>Frequency-Domain HSNA Configuration Item** |  | 1..<*maxnoofRBsetsPerCell*> |  |  | EACH | reject |
| >>RB set Index | O |  | INTEGER (0.. *maxnoofRBsetsPerCell-1*) | Refers to an RB set defined by RB Set Configuration. | - |  |
| **>>Frequency-Domain HSNA Slot Configuration List** |  | 1 |  |  | - |  |
| **>>>Frequency-Domain HSNA Slot Configuration Item** |  | 1..<*maxnoofHSNASlots*> |  |  | - |  |
| >>>>Slot Index | O |  | INTEGER (0..5119) | Indicates an index to a slot within the HSNA Transmission Periodicity. | - |  |
| >>>>HSNA Downlink | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for downlink symbols in a slot, for an RB set. | - |  |
| >>>>HSNA Uplink | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for uplink symbols in a slot, for an RB set. | - |  |
| >>>>HSNA Flexible | O |  | ENUMERATED (HARD, SOFT, NOTAVAILABLE) | HSNA value for flexible symbols in a slot, for an RB set. | - |  |
| **Child IAB-Nodes NA Resource List** |  | *0..1* |  | List of child IAB-nodes served by the IAB-DU or IAB-donor-DU. | YES | reject |
| **>Child IAB--Nodes NA Resource List Item** |  | *1 .. <maxnoofChildIABNodes>* |  |  | EACH | reject |
| >>gNB-CU UE F1AP ID | M |  | 9.3.1.4 | Identifier of a child-node IAB-MT at the IAB-donor-CU. | - |  |
| >>gNB-DU UE F1AP ID | M |  | 9.3.1.5 | Identifier of a child-node IAB-MT at an IAB-DU or IAB-donor-DU. | - |  |
| **>>NA Resource Configuration List** |  | 0..1 |  | List of not-available resources of this cell for this child IAB-node | - |  |
| **>>>NA Resource Configuration Item** |  | 1..<*maxnoofHSNASlots*> |  |  | - |  |
| >>>>NA Downlink | O |  | ENUMERATED (true, false, …) | Indicates whether downlink symbols, in a slot, are available to serve the child IAB-node. | - |  |
| >>>>NA Uplink | O |  | ENUMERATED (true, false, …) | Indicates whether uplink symbols, in a slot, are available to serve the child IAB-node. | - |  |
| >>>>NA Flexible | O |  | ENUMERATED (true, false, …) | Indicates whether flexible symbols, in a slot, are available to serve the child IAB-node. | - |  |
| **Parent IAB Nodes NA Resource Configuration List** |  | 0..1 |  | List of unavailable resources of this cell for this IAB-node. | YES | reject |
| **>Parent IAB Nodes NA Resource Configuration Item** |  | 1..<*maxnoofHSNASlots*> |  |  | EACH | reject |
| >>NA Downlink | O |  | ENUMERATED (true, false, …) | Indicates whether downlink symbols, in a slot, are unavailable to serve the IAB-node. | - |  |
| >>NA Uplink | O |  | ENUMERATED (true, false, …) | Indicates whether uplink symbols, in a slot, are unavailable to serve the IAB-node. | - |  |
| >>NA Flexible | O |  | ENUMERATED (true, false, …) | Indicates whether flexible symbols, in a slot, are unavailable to serve the IAB-node. | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofDUFSlots | Maximum no. of slots in 10ms. Value is 320. |
| maxnoofSymbols | Maximum no. of symbols in a slot. Value is 14. |
| maxnoofHSNASlots | Maximum no of "Hard", "Soft" or "Not available" slots in 160ms. Value is 5120. |
| maxnoofRBsetsPerCell | Maximum no. of RB sets per IAB-DU cell. Value is 8 |
| maxnoofRBsetsPerCell-1 | Maximum no. of RB sets per IAB-DU cell minus 1. Value is 7 |
| maxnoofChildIABNodes | Maximum number of child nodes served by an IAB-DU or an IAB-donor-DU. Value is 1024. |

-------------------------------------------Next change-------------------------------------------

#### 9.3.1.108 Multiplexing Info

This IE contains information about the multiplexing capabilities between the gNB-DU’s cell and the cells configured on the co-located IAB-MT.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| **IAB-MT Cell List** |  | *1* |  |  |  |  |
| **>IAB-MT Cell Item** |  | *1* .. <*maxnoofServingCells*> |  |  |  |  |
| >>NR Cell Identity | M |  | BIT STRING (SIZE(36)) | Cell identity of a serving cell configured for a co-located IAB-MT. |  |  |
| >>DU\_RX/MT\_RX | M |  | ENUMERATED (supported, not supported) | An indication of whether the IAB-node supports simultaneous reception at its DU and MT side. |  |  |
| >>DU\_TX/MT\_TX | M |  | ENUMERATED (supported, not supported) | An indication of whether the IAB-node supports simultaneous transmission at its DU and MT side. |  |  |
| >>DU\_RX/MT\_TX | M |  | ENUMERATED (supported, not supported) | An indication of whether the IAB-node supports simultaneous reception at its DU and transmission at its MT side. |  |  |
| >>DU\_TX/MT\_RX | M |  | ENUMERATED (supported, not supported) | An indication of whether the IAB-node supports simultaneous transmission at its DU and reception at its MT side. |  |  |
|  |  |  |  |  |  |  |
| >>DU\_RX/MT\_RX\_extend | O |  | ENUMERATED (supported, not supported, supported and FDM required) | An indication of whether the IAB-node supports simultaneous reception at its DU and MT side.  If present, the DU\_RX/MT\_RX IE shall be ignored. | YES | ignore |
| >>DU\_TX/MT\_TX\_extend | O |  | ENUMERATED (supported, not supported, supported and FDM required) | An indication of whether the IAB-node supports simultaneous transmission at its DU and MT side.  If present, the DU\_TX/MT\_TX IE shall be ignored. | YES | ignore |
| >>DU\_RX/MT\_TX\_extend | O |  | ENUMERATED (supported, not supported, supported and FDM required) | An indication of whether the IAB-node supports simultaneous transmission at its DU and reception at its MT side.  If present, the DU\_RX/MT\_TX IE shall be ignored. | YES | ignore |
| >>DU\_TX/MT\_RX\_extend | O |  | ENUMERATED (supported, not supported, supported and FDM required) | An indication of whether the IAB-node supports simultaneous reception at its DU and transmission at its MT side.  If present, the DU\_TX/MT\_RX IE shall be ignored. | YES | ignore |

-------------------------------------------Next change-------------------------------------------

#### 9.3.1.227 IAB Congestion Indication

This IE contains the IAB downlink congestion indication. This IE is only applicable if the gNB-DU is an IAB-DU or IAB-donor-DU.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **IAB Congestion Indication List** |  | *1* |  |  |
| **>IAB Congestion Indication Item** |  | *1..*  *<maxnoofIABCongInd>* |  |  |
| >>Child Node Identifier | M |  | BAP Address 9.3.1.111 | This IE identifies the child node, the link to which is congested. |
| **>>BH RLC CH List** |  | *0..1* |  |  |
| **>>>BH RLC CH Item** |  | *1..*  *<maxnoofBHRLCChannels>* |  |  |
| >>>>BH RLC CH ID | M |  | BH RLC Channel ID 9.3.1.113 | This IE identifies the congested BH RLC channel over the link towards the node identified by the *Child Node Identifier* IE. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofIABCongInd | Maximum no. of congestion indications, the maximum value is 1024. |
| maxnoofBHRLCChannels | Maximum no. of BH RLC channels allowed towards one IAB-node, the maximum value is 65536. |

-------------------------------------------Next change-------------------------------------------

#### 9.3.1.229 IAB TNL Address Exception

This IE indicates the list of TNL addresses, pertaining to the packets to be forwarded via the inter-IAB-donor-DU tunnel by the IAB-donor-DU.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **IAB TNL Address List** |  | *1* |  |  |
| **>IAB IAB TNL Address Item** |  | *1..*  *<maxnoofTLAsIAB>* |  |  |
| >>IAB TNL Address | M |  | 9.3.1.102 |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTLAsIAB | Maximum no. of individual IPv4/IPv6 addresses or IPv6 address prefixes in one procedure execution. The value is 1024. |

-------------------------------------------Next change-------------------------------------------

#### 9.3.1.230 RB Sets Configuration

This IE contains the RB Sets Configuration. The IE is only applicable if the gNB-DU is an IAB-DU or an IAB-donor DU.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Subcarrier Spacing | M |  | ENUMERATED (kHz15, kHz30, kHz60, kHz120, kHz240, spare3, spare2, spare1, …) | Subcarrier spacing used as reference for the RB set configuration. |
| RB Set Size | M |  | ENUMERATED (rb2, rb4, rb8, rb16, rb32, rb64) | Number of PRBs in each RB set. The value is at least the number of PRBs corresponding to the number of configured IAB-MT’s PRBs. |
| **RB Sets List** |  | 0..1 |  |  |
| **>RB Sets Item** |  | 1..<*maxnoofRBsetsPerCell*> |  |  |
| >>RB Sets Index | M |  | INTEGER (0.. *maxnoofRBsetsPerCell-1*) |  |
| >>Initial RB Index | M |  | INTEGER (0.. *maxnoofPhysicalResourceBlocks-*1) |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofRBsetsPerCell | Maximum no. of RB sets per IAB-DU cell. Value is 8. |
| maxnoofRBsetsPerCell-1 | Maximum no. of RB sets per IAB-DU cell minus 1. Value is 7 |
| maxnoofPhysicalResourceBlocks | Maximum no. of Physical Resource Blocks. Value is 275. |
| maxnoofPhysicalResourceBlocks*-*1 | Maximum no. of Physical Resource Blocks minus 1. Value is 274. |

-------------------------------------------Next change-------------------------------------------

### 9.4.4 PDU Definitions

-- ASN1START

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

--

-- PDU definitions for F1AP.

--

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

F1AP-PDU-Contents {

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

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

IAB-TNL-Addresses-Exception,

BAP-Header-Rewriting-Added-List-Item,

Re-routingDisableIndicator,

NonF1terminatingTopologyIndicator,

EgressNonF1terminatingTopologyIndicator,

IngressNonF1terminatingTopologyIndicator,

Neighbour-Node-Cells-List,

Neighbour-Node-Cells-List-Item,

NA-Resource-Configuration-List,

NA-Resource-Configuration-Item,

Serving-Cells-List,

Serving-Cells-List-Item,

RBSetConfiguration,

PDCMeasurementPeriodicity,

PDCMeasurementQuantities,

PDCMeasurementResult,

PDCReportType,

RAN-UE-PDC-MeasID,

SCGActivationRequest,

SCGActivationStatus,

TRP-MeasurementUpdateList,

PRSTRPList,

PRSTransmissionTRPList,

ResponseTime,

UETxTEGAssociation,

TRP-PRS-Info-List,

PRS-Measurement-Info-List,

PRSConfigRequestType,

UE-TEG-Info-Request,

MeasurementCharacteristicsRequestIndicator,

MeasurementTimeOccasion,

UEReportingInformation,

PosConextRevIndication,

NRRedCapUEIndication,

NRPagingeDRXInformation,

NRPagingeDRXInformationforRRCINACTIVE,

QoEInformationList,

CG-SDTQueryIndication,

CG-SDTKeptIndicator,

CG-SDTSessionInfo,

SDTInformation,

FiveG-ProSeAuthorized,

UuRLCChannelToBeSetupList,

UuRLCChannelToBeModifiedList,

UuRLCChannelToBeReleasedList,

UuRLCChannelSetupList,

UuRLCChannelFailedToBeSetupList,

UuRLCChannelModifiedList,

UuRLCChannelFailedToBeModifiedList,

UuRLCChannelRequiredToBeModifiedList,

UuRLCChannelRequiredToBeReleasedList,

PC5RLCChannelToBeSetupList,

PC5RLCChannelToBeModifiedList,

PC5RLCChannelToBeReleasedList,

PC5RLCChannelSetupList,

PC5RLCChannelFailedToBeSetupList,

PC5RLCChannelFailedToBeModifiedList,

PC5RLCChannelRequiredToBeModifiedList,

PC5RLCChannelRequiredToBeReleasedList,

PC5RLCChannelModifiedList,

RemoteUELocalID,

PathSwitchConfiguration,

SidelinkRelayConfiguration,

PagingCause,

PEIPSAssistanceInfo,

UEPagingCapability,

GNBDUUESliceMaximumBitRateList,

MDTPollutedMeasurementIndicator,

BAP-Header-Rewriting-Removed-List-Item

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

FROM F1AP-Containers

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

id-IAB-TNL-Addresses-Exception,

id-BAP-Header-Rewriting-Added-List,

id-BAP-Header-Rewriting-Added-List-Item,

id-Re-routingDisableIndicator,

id-NonF1terminatingTopologyIndicator,

id-EgressNonF1terminatingTopologyIndicator,

id-IngressNonF1terminatingTopologyIndicator,

id-Neighbour-Node-Cells-List,

id-Serving-Cells-List,

id-MDTPollutedMeasurementIndicator,

id-PDCMeasurementPeriodicity,

id-PDCMeasurementQuantities,

id-PDCMeasurementResult,

id-PDCReportType,

id-RAN-UE-PDC-MeasID,

id-SCGActivationRequest,

id-SCGActivationStatus,

id-TRP-MeasurementUpdateList,

id-PRSTRPList,

id-PRSTransmissionTRPList,

id-ResponseTime,

id-UETxTEGAssociation,

id-TRP-PRS-Info-List,

id-PRS-Measurement-Info-List,

id-PRSConfigRequestType,

id-UE-TEG-Info-Request,

id-MeasurementCharacteristicsRequestIndicator,

id-MeasurementTimeOccasion,

id-UEReportingInformation,

id-PosConextRevIndication,

id-NRRedCapUEIndication,

id-RANUEPagingDRX,

id-CNUEPagingDRX,

id-NRPagingeDRXInformation,

id-NRPagingeDRXInformationforRRCINACTIVE,

id-QoEInformationList,

id-CG-SDTQueryIndication,

id-CG-SDTKeptIndicator,

id-CG-SDTSessionInfoOld,

id-SDTInformation,

id-FiveG-ProSeAuthorized,

id-FiveG-ProSePC5LinkAMBR,

id-FiveG-ProSeUEPC5AggregateMaximumBitrate,

id-UuRLCChannelToBeSetupList,

id-UuRLCChannelToBeModifiedList,

id-UuRLCChannelToBeReleasedList,

id-UuRLCChannelSetupList,

id-UuRLCChannelFailedToBeSetupList,

id-UuRLCChannelModifiedList,

id-UuRLCChannelFailedToBeModifiedList,

id-UuRLCChannelRequiredToBeModifiedList,

id-UuRLCChannelRequiredToBeReleasedList,

id-PC5RLCChannelToBeSetupList,

id-PC5RLCChannelToBeModifiedList,

id-PC5RLCChannelToBeReleasedList,

id-PC5RLCChannelSetupList,

id-PC5RLCChannelFailedToBeSetupList,

id-PC5RLCChannelModifiedList,

id-PC5RLCChannelFailedToBeModifiedList,

id-PC5RLCChannelRequiredToBeModifiedList,

id-PC5RLCChannelRequiredToBeReleasedList,

id-SidelinkRelayConfiguration,

id-UpdatedRemoteUELocalID,

id-PathSwitchConfiguration,

id-PagingCause,

id-PEIPSAssistanceInfo,

id-UEPagingCapability,

id-GNBDUUESliceMaximumBitRateList,

maxCellingNBDU,

maxnoofCandidateSpCells,

maxnoofDRBs,

maxnoofErrors,

maxnoofIndividualF1ConnectionsToReset,

maxnoofPotentialSpCells,

maxnoofSCells,

maxnoofSRBs,

maxnoofPagingCells,

maxnoofTNLAssociations,

maxCellineNB,

maxnoofUEIDs,

maxnoofBHRLCChannels,

maxnoofRoutingEntries,

maxnoofChildIABNodes,

maxnoofServedCellsIAB,

maxnoofTLAsIAB,

maxnoofULUPTNLInformationforIAB,

maxnoofUPTNLAddresses,

maxnoofSLDRBs,

maxnoofTRPInfoTypes,

maxnoofTRPs,

maxnoofMRBs,

maxnoofUEIDforPaging,

maxnoofNeighbourNodeCellsIAB,

id-BAP-Header-Rewriting-Removed-List,

id-BAP-Header-Rewriting-Removed-List-Item

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

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

--

-- IAB PROCEDURES

--

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

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

--

-- BAP Mapping Configuration ELEMENTARY PROCEDURE

--

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

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

--

-- BAP MAPPING CONFIGURATION

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

BAPMappingConfiguration ::= SEQUENCE {

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

...

}

BAPMappingConfiguration-IEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-BH-Routing-Information-Added-List CRITICALITY ignore TYPE BH-Routing-Information-Added-List PRESENCE optional}|

{ ID id-BH-Routing-Information-Removed-List CRITICALITY ignore TYPE BH-Routing-Information-Removed-List PRESENCE optional}|

{ ID id-TrafficMappingInformation CRITICALITY ignore TYPE TrafficMappingInfo PRESENCE optional}|

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

{ ID id-BAP-Header-Rewriting-Added-List CRITICALITY ignore TYPE BAP-Header-Rewriting-Added-List PRESENCE optional}|

{ ID id-Re-routingDisableIndicator CRITICALITY ignore TYPE Re-routingDisableIndicator PRESENCE optional}|

{ ID id-BAP-Header-Rewriting-Removed-List CRITICALITY ignore TYPE BAP-Header-Rewriting-Removed-List PRESENCE optional}|,

...

}

BH-Routing-Information-Added-List ::= SEQUENCE (SIZE(1.. maxnoofRoutingEntries)) OF ProtocolIE-SingleContainer { { BH-Routing-Information-Added-List-ItemIEs } }

BH-Routing-Information-Removed-List ::= SEQUENCE (SIZE(1.. maxnoofRoutingEntries)) OF ProtocolIE-SingleContainer { { BH-Routing-Information-Removed-List-ItemIEs } }

BH-Routing-Information-Added-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BH-Routing-Information-Added-List-Item CRITICALITY ignore TYPE BH-Routing-Information-Added-List-Item PRESENCE optional},

...

}

BH-Routing-Information-Removed-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BH-Routing-Information-Removed-List-Item CRITICALITY ignore TYPE BH-Routing-Information-Removed-List-Item PRESENCE optional},

...

}

BAP-Header-Rewriting-Added-List ::= SEQUENCE (SIZE(1.. maxnoofRoutingEntries)) OF ProtocolIE-SingleContainer { { BAP-Header-Rewriting-Added-List-ItemIEs } }

BAP-Header-Rewriting-Added-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BAP-Header-Rewriting-Added-List-Item CRITICALITY ignore TYPE BAP-Header-Rewriting-Added-List-Item PRESENCE optional},

...

}

BAP-Header-Rewriting-Removed-List ::= SEQUENCE (SIZE(1.. maxnoofRoutingEntries)) OF ProtocolIE-SingleContainer { { BAP-Header-Rewriting-Removed-List-ItemIEs } }

BAP-Header-Rewriting-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BAP-Header-Rewriting-Removed-List-Item CRITICALITY ignore TYPE BAP-Header-Rewriting-Removed-List-Item PRESENCE optional},

...

}

-------------------------------------------Next change-------------------------------------------

### 9.4.5 Information Element Definitions

-- ASN1START

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

--

-- Information Element Definitions

--

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

F1AP-IEs {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-gNB-CUSystemInformation,

id-HandoverPreparationInformation,

id-TAISliceSupportList,

id-RANAC,

id-BearerTypeChange,

id-Cell-Direction,

id-Cell-Type,

id-CellGroupConfig,

id-AvailablePLMNList,

id-PDUSessionID,

id-ULPDUSessionAggregateMaximumBitRate,

id-DC-Based-Duplication-Configured,

id-DC-Based-Duplication-Activation,

id-Duplication-Activation,

id-DLPDCPSNLength,

id-ULPDCPSNLength,

id-RLC-Status,

id-MeasurementTimingConfiguration,

id-DRB-Information,

id-QoSFlowMappingIndication,

id-ServingCellMO,

id-RLCMode,

id-ExtendedServedPLMNs-List,

id-ExtendedAvailablePLMN-List,

id-DRX-LongCycleStartOffset,

id-SelectedBandCombinationIndex,

id-SelectedFeatureSetEntryIndex,

id-Ph-InfoSCG,

id-latest-RRC-Version-Enhanced,

id-RequestedBandCombinationIndex,

id-RequestedFeatureSetEntryIndex,

id-DRX-Config,

id-UEAssistanceInformation,

id-PDCCH-BlindDetectionSCG,

id-Requested-PDCCH-BlindDetectionSCG,

id-BPLMN-ID-Info-List,

id-NotificationInformation,

id-TNLAssociationTransportLayerAddressgNBDU,

id-portNumber,

id-AdditionalSIBMessageList,

id-IgnorePRACHConfiguration,

id-CG-Config,

id-Ph-InfoMCG,

id-AggressorgNBSetID,

id-VictimgNBSetID,

id-MeasGapSharingConfig,

id-systemInformationAreaID,

id-areaScope,

id-IntendedTDD-DL-ULConfig,

id-QosMonitoringRequest,

id-BHInfo,

id-IAB-Info-IAB-DU,

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

id-IAB-Barred,

id-SIB12-message,

id-SIB13-message,

id-SIB14-message,

id-UEAssistanceInformationEUTRA,

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

id-SL-ConfigDedicatedEUTRA-Info,

id-AlternativeQoSParaSetList,

id-CurrentQoSParaSetIndex,

id-CarrierList,

id-ULCarrierList,

id-FrequencyShift7p5khz,

id-SSB-PositionsInBurst,

id-NRPRACHConfig,

id-TDD-UL-DLConfigCommonNR,

id-CNPacketDelayBudgetDownlink,

id-CNPacketDelayBudgetUplink,

id-ExtendedPacketDelayBudget,

id-TSCTrafficCharacteristics,

id-AdditionalPDCPDuplicationTNL-List,

id-RLCDuplicationInformation,

id-AdditionalDuplicationIndication,

id-mdtConfiguration,

id-TraceCollectionEntityURI,

id-NID,

id-NPNSupportInfo,

id-NPNBroadcastInformation,

id-AvailableSNPN-ID-List,

id-SIB10-message,

id-RequestedP-MaxFR2,

id-DLCarrierList,

id-ExtendedTAISliceSupportList,

id-E-CID-MeasurementQuantities-Item,

id-ConfiguredTACIndication,

id-NRCGI,

id-SFN-Offset,

id-TransmissionStopIndicator,

id-SrsFrequency,

id-EstimatedArrivalProbability,

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

id-TRPType,

id-SRSSpatialRelationPerSRSResource,

id-MBS-Broadcast-NeighbourCellList,

id-PDCPTerminatingNodeDLTNLAddrInfo,

id-ENBDLTNLAddress,

id-PRS-Resource-ID,

id-LocationMeasurementInformation,

id-SliceRadioResourceStatus,

id-CompositeAvailableCapacity-SUL,

id-NR-U,

id-NR-U-Channel-List,

id-MIMOPRBusageInformation,

id-IngressNonF1terminatingTopologyIndicator,

id-NonF1terminatingTopologyIndicator,

id-EgressNonF1terminatingTopologyIndicator,

id-rBSetConfiguration,

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

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

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

id-uL-FreqInfo,

id-uL-Transmission-Bandwidth,

id-dL-FreqInfo,

id-dL-Transmission-Bandwidth,

id-uL-NR-Carrier-List,

id-dL-NR-Carrier-List,

id-nRFreqInfo,

id-transmission-Bandwidth,

id-nR-Carrier-List,

id-permutation,

id-M5ReportAmount,

id-M6ReportAmount,

id-M7ReportAmount,

id-SurvivalTime,

id-PDCMeasurementQuantities-Item,

id-OnDemandTRPPRS,

id-AoA-SearchWindow,

id-ZoAInformation,

id-ARPLocationInfo,

id-ARP-ID,

id-MultipleULAoA,

id-UL-SRS-RSRPP,

id-SRSResourcetype,

id-ExtendedAdditionalPathList,

id-LoS-NLoSInformation,

id-NumberOfTRPRxTEG,

id-NumberOfTRPRxTxTEG,

id-TRPTxTEGAssociation,

id-TRPTEGIDInformation,

id-TRPRXTEGID,

id-TRPBeamAntennaInformation,

id-Redcap-Bcast-Information,

id-NR-TADV,

id-QoEInformationList,

id-SDT-MACPHY-Config,

id-CG-SDTindicatorSetup,

id-CG-SDTindicatorMod,

id-SDTRLCBearerConfiguration,

id-SRBMappingInfo,

id-DRBMappingInfo,

id-LastUsedCellIndication,

id-SIB17-message,

id-MUSIM-GapConfig,

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

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

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

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

maxNRARFCN,

maxnoofErrors,

maxnoofBPLMNs,

maxnoofBPLMNsNR,

maxnoofDLUPTNLInformation,

maxnoofNrCellBands,

maxnoofULUPTNLInformation,

maxnoofQoSFlows,

maxnoofSliceItems,

maxnoofSIBTypes,

maxnoofSITypes,

maxCellineNB,

maxnoofExtendedBPLMNs,

maxnoofAdditionalSIBs,

maxnoofUACPLMNs,

maxnoofUACperPLMN,

maxCellingNBDU,

maxnoofTLAs,

maxnoofGTPTLAs,

maxnoofslots,

maxnoofNonUPTrafficMappings,

maxnoofServingCells,

maxnoofServedCellsIAB,

maxnoofChildIABNodes,

maxnoofIABSTCInfo,

maxnoofSymbols,

maxnoofDUFSlots,

maxnoofHSNASlots,

maxnoofEgressLinks,

maxnoofMappingEntries,

maxnoofDSInfo,

maxnoofQoSParaSets,

maxnoofPC5QoSFlows,

maxnoofSSBAreas,

maxnoofNRSCSs,

maxnoofPhysicalResourceBlocks,

maxnoofPhysicalResourceBlocks-1,

maxnoofPRACHconfigs,

maxnoofRACHReports,

maxnoofRLFReports,

maxnoofAdditionalPDCPDuplicationTNL,

maxnoofRLCDuplicationState,

maxnoofCHOcells,

maxnoofMDTPLMNs,

maxnoofCAGsupported,

maxnoofNIDsupported,

maxnoofExtSliceItems,

maxnoofPosMeas,

maxnoofTRPInfoTypes,

maxnoofSRSTriggerStates,

maxnoofSpatialRelations,

maxnoBcastCell,

maxnoofTRPs,

maxnoofAngleInfo,

maxnooflcs-gcs-translation,

maxnoofPath,

maxnoofMeasE-CID,

maxnoofSSBs,

maxnoSRS-ResourceSets,

maxnoSRS-ResourcePerSet,

maxnoSRS-Carriers,

maxnoSCSs,

maxnoSRS-Resources,

maxnoSRS-PosResources,

maxnoSRS-PosResourceSets,

maxnoSRS-PosResourcePerSet,

maxnoofPRS-ResourceSets,

maxnoofPRS-ResourcesPerSet,

maxNoOfMeasTRPs,

maxnoofPRSresourceSets,

maxnoofPRSresources,

maxnoofSuccessfulHOReports,

maxnoofNR-UChannelIDs,

maxServedCellforSON,

maxNeighbourCellforSON,

maxAffectedCells,

maxnoofMBSQoSFlows,

maxnoofMBSFSAs,

maxnoofMBSAreaSessionIDs,

maxnoofMBSServiceAreaInformation,

maxnoofTAIforMBS,

maxnoofCellsforMBS,

maxnoofIABCongInd,

maxnoofBHRLCChannels,

maxnoofTLAsIAB,

maxnoofRBsetsPerCell,

maxnoofRBsetsPerCell-1,

maxnoofNeighbourNodeCellsIAB,

maxnoofMeasPDC,

maxnoARPs,

maxnoofULAoAs,

maxNoPathExtended,

maxnoUETEGs,

maxnoTRPTEGs,

maxFreqLayers,

maxNumResourcesPerAngle,

maxnoAzimuthAngles,

maxnoElevationAngles,

maxnoofPRSTRPs,

maxnoofQoEInformation,

maxnoofUuRLCChannels,

maxnoofPC5RLCChannels,

maxnoofSMBRValues

FROM F1AP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

FROM F1AP-CommonDataTypes

ProtocolExtensionContainer{},

F1AP-PROTOCOL-EXTENSION,

ProtocolIE-SingleContainer{},

F1AP-PROTOCOL-IES

FROM F1AP-Containers;

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

-- B

BAP-Header-Rewriting-Added-List-Item::= SEQUENCE {

ingressBAPRoutingID BAPRoutingID,

egressBAPRoutingID BAPRoutingID,

nonF1terminatingTopologyIndicator NonF1terminatingTopologyIndicator OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BAP-Header-Rewriting-Added-List-Item-ExtIEs} } OPTIONAL

}

BAP-Header-Rewriting-Added-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

BAP-Header-Rewriting-Removed-List-Item::= SEQUENCE {

ingressBAPRoutingID BAPRoutingID,

iE-Extensions ProtocolExtensionContainer { { BAP-Header-Rewriting-Removed-List-Item-ExtIEs} } OPTIONAL

}

BAP-Header-Rewriting-Removed-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

BandwidthSRS ::= CHOICE {

fR1 FR1-Bandwidth,

fR2 FR2-Bandwidth,

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

}

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

-- C

CAGID ::= BIT STRING (SIZE(32))

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

Child-IAB-Nodes-NA-Resource-List ::= SEQUENCE (SIZE(1..maxnoofChildIABNodes)) OF Child-IAB-Nodes-NA-Resource-List-Item

Child-IAB-Nodes-NA-Resource-List-Item::= SEQUENCE {

gNB-CU-UE-F1AP-ID GNB-CU-UE-F1AP-ID,

gNB-DU-UE-F1AP-ID GNB-DU-UE-F1AP-ID,

nA-Resource-Configuration-List NA-Resource-Configuration-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Child-IAB-Nodes-NA-Resource-List-Item-ExtIEs} } OPTIONAL

}

Child-IAB-Nodes-NA-Resource-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

**>>>>>>>>>>>>>>> Unchanged parts are skipped<<<<<<<<<<<<<<<<**

-- D

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

Dedicated-SIDelivery-NeededUE-Item ::= SEQUENCE {

gNB-CU-UE-F1AP-ID GNB-CU-UE-F1AP-ID,

nRCGI NRCGI,

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

...

}

DedicatedSIDeliveryNeededUE-Item-ExtIEs F1AP-PROTOCOL-EXTENSION::={

...

}

DL-PRS ::= SEQUENCE {

prsid INTEGER (0..255),

dl-PRSResourceSetID PRS-Resource-Set-ID,

dl-PRSResourceID PRS-Resource-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DL-PRS-ExtIEs} } OPTIONAL

}

DL-PRS-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DL-PRSMutingPattern ::= CHOICE {

two BIT STRING (SIZE(2)),

four BIT STRING (SIZE(4)),

six BIT STRING (SIZE(6)),

eight BIT STRING (SIZE(8)),

sixteen BIT STRING (SIZE(16)),

thirty-two BIT STRING (SIZE(32)),

choice-extension ProtocolIE-SingleContainer { { DL-PRSMutingPattern-ExtIEs } }

}

DL-PRSMutingPattern-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

DLPRSResourceCoordinates ::= SEQUENCE {

listofDL-PRSResourceSetARP SEQUENCE (SIZE(1.. maxnoofPRS-ResourceSets)) OF DLPRSResourceSetARP,

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

}

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

...

}

DLPRSResourceSetARP ::= SEQUENCE {

dl-PRSResourceSetID PRS-Resource-Set-ID,

dL-PRSResourceSetARPLocation DL-PRSResourceSetARPLocation,

listofDL-PRSResourceARP SEQUENCE (SIZE(1.. maxnoofPRS-ResourcesPerSet)) OF DLPRSResourceARP,

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

}

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

...

}

DL-PRSResourceSetARPLocation ::= CHOICE {

relativeGeodeticLocation RelativeGeodeticLocation,

relativeCartesianLocation RelativeCartesianLocation,

choice-Extension ProtocolIE-SingleContainer { { DL-PRSResourceSetARPLocation-ExtIEs } }

}

DL-PRSResourceSetARPLocation-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

DLPRSResourceARP ::= SEQUENCE {

dl-PRSResourceID PRS-Resource-ID,

dL-PRSResourceARPLocation DL-PRSResourceARPLocation,

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

}

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

...

}

DL-PRSResourceARPLocation ::= CHOICE {

relativeGeodeticLocation RelativeGeodeticLocation,

relativeCartesianLocation RelativeCartesianLocation,

choice-Extension ProtocolIE-SingleContainer { { DL-PRSResourceARPLocation-ExtIEs } }

}

DL-PRSResourceARPLocation-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

DL-UP-TNL-Address-to-Update-List-Item ::= SEQUENCE {

oldIPAdress TransportLayerAddress,

newIPAdress TransportLayerAddress,

iE-Extensions ProtocolExtensionContainer { { DL-UP-TNL-Address-to-Update-List-ItemExtIEs } } OPTIONAL,

...

}

DL-UP-TNL-Address-to-Update-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DLUPTNLInformation-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofDLUPTNLInformation)) OF DLUPTNLInformation-ToBeSetup-Item

DLUPTNLInformation-ToBeSetup-Item ::= SEQUENCE {

dLUPTNLInformation UPTransportLayerInformation ,

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

...

}

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

...

}

DRB-Activity-Item ::= SEQUENCE {

dRBID DRBID,

dRB-Activity DRB-Activity OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DRB-Activity-ItemExtIEs } } OPTIONAL,

...

}

DRB-Activity-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRB-Activity ::= ENUMERATED {active, not-active}

DRBID ::= INTEGER (1..32, ...)

DRBs-FailedToBeModified-Item ::= SEQUENCE {

dRBID DRBID ,

cause Cause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DRBs-FailedToBeModified-ItemExtIEs } } OPTIONAL,

...

}

DRBs-FailedToBeModified-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRBs-FailedToBeSetup-Item ::= SEQUENCE {

dRBID DRBID,

cause Cause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DRBs-FailedToBeSetup-ItemExtIEs } } OPTIONAL,

...

}

DRBs-FailedToBeSetup-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRBs-FailedToBeSetupMod-Item ::= SEQUENCE {

dRBID DRBID ,

cause Cause OPTIONAL ,

iE-Extensions ProtocolExtensionContainer { { DRBs-FailedToBeSetupMod-ItemExtIEs } } OPTIONAL,

...

}

DRBs-FailedToBeSetupMod-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRB-Information ::= SEQUENCE {

dRB-QoS QoSFlowLevelQoSParameters,

sNSSAI SNSSAI,

notificationControl NotificationControl OPTIONAL,

flows-Mapped-To-DRB-List Flows-Mapped-To-DRB-List,

iE-Extensions ProtocolExtensionContainer { { DRB-Information-ItemExtIEs } } OPTIONAL

}

DRB-Information-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRBs-Modified-Item ::= SEQUENCE {

dRBID DRBID,

lCID LCID OPTIONAL,

dLUPTNLInformation-ToBeSetup-List DLUPTNLInformation-ToBeSetup-List,

iE-Extensions ProtocolExtensionContainer { { DRBs-Modified-ItemExtIEs } } OPTIONAL,

...

}

DRBs-Modified-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-RLC-Status CRITICALITY ignore EXTENSION RLC-Status PRESENCE optional }|

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetIndex PRESENCE optional },

...

}

DRBs-ModifiedConf-Item ::= SEQUENCE {

dRBID DRBID,

uLUPTNLInformation-ToBeSetup-List ULUPTNLInformation-ToBeSetup-List ,

iE-Extensions ProtocolExtensionContainer { { DRBs-ModifiedConf-ItemExtIEs } } OPTIONAL,

...

}

DRBs-ModifiedConf-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional },

...

}

DRB-Notify-Item ::= SEQUENCE {

dRBID DRBID,

notification-Cause Notification-Cause,

iE-Extensions ProtocolExtensionContainer { { DRB-Notify-ItemExtIEs } } OPTIONAL,

...

}

DRB-Notify-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetNotifyIndex PRESENCE optional },

...

}

DRBs-Required-ToBeModified-Item ::= SEQUENCE {

dRBID DRBID,

dLUPTNLInformation-ToBeSetup-List DLUPTNLInformation-ToBeSetup-List ,

iE-Extensions ProtocolExtensionContainer { { DRBs-Required-ToBeModified-ItemExtIEs } } OPTIONAL,

...

}

DRBs-Required-ToBeModified-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-RLC-Status CRITICALITY ignore EXTENSION RLC-Status PRESENCE optional }|

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional },

...

}

DRBs-Required-ToBeReleased-Item ::= SEQUENCE {

dRBID DRBID,

iE-Extensions ProtocolExtensionContainer { { DRBs-Required-ToBeReleased-ItemExtIEs } } OPTIONAL,

...

}

DRBs-Required-ToBeReleased-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRBs-Setup-Item ::= SEQUENCE {

dRBID DRBID,

lCID LCID OPTIONAL,

dLUPTNLInformation-ToBeSetup-List DLUPTNLInformation-ToBeSetup-List ,

iE-Extensions ProtocolExtensionContainer { { DRBs-Setup-ItemExtIEs } } OPTIONAL,

...

}

DRBs-Setup-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetIndex PRESENCE optional },

...

}

DRBs-SetupMod-Item ::= SEQUENCE {

dRBID DRBID,

lCID LCID OPTIONAL,

dLUPTNLInformation-ToBeSetup-List DLUPTNLInformation-ToBeSetup-List ,

iE-Extensions ProtocolExtensionContainer { { DRBs-SetupMod-ItemExtIEs } } OPTIONAL,

...

}

DRBs-SetupMod-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetIndex PRESENCE optional },

...

}

DRBs-ToBeModified-Item ::= SEQUENCE {

dRBID DRBID,

qoSInformation QoSInformation OPTIONAL,

uLUPTNLInformation-ToBeSetup-List ULUPTNLInformation-ToBeSetup-List ,

uLConfiguration ULConfiguration OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DRBs-ToBeModified-ItemExtIEs } } OPTIONAL,

...

}

DRBs-ToBeModified-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-DLPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE optional }|

{ ID id-ULPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE optional }|

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

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

{ ID id-Duplication-Activation CRITICALITY reject EXTENSION DuplicationActivation PRESENCE optional }|

{ ID id-DC-Based-Duplication-Configured CRITICALITY reject EXTENSION DCBasedDuplicationConfigured PRESENCE optional }|

{ ID id-DC-Based-Duplication-Activation CRITICALITY reject EXTENSION DuplicationActivation PRESENCE optional }|

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

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

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

{ ID id-CG-SDTindicatorMod CRITICALITY reject EXTENSION CG-SDTindicatorMod PRESENCE optional },

...

}

DRBs-ToBeReleased-Item ::= SEQUENCE {

dRBID DRBID,

iE-Extensions ProtocolExtensionContainer { { DRBs-ToBeReleased-ItemExtIEs } } OPTIONAL,

...

}

DRBs-ToBeReleased-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

DRBs-ToBeSetup-Item ::= SEQUENCE {

dRBID DRBID,

qoSInformation QoSInformation,

uLUPTNLInformation-ToBeSetup-List ULUPTNLInformation-ToBeSetup-List ,

rLCMode RLCMode,

uLConfiguration ULConfiguration OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

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

...

}

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

{ ID id-DC-Based-Duplication-Configured CRITICALITY reject EXTENSION DCBasedDuplicationConfigured PRESENCE optional }|

{ ID id-DC-Based-Duplication-Activation CRITICALITY reject EXTENSION DuplicationActivation PRESENCE optional }|

{ ID id-DLPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE mandatory }|

{ ID id-ULPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE optional }|

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

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

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

...

}

DRBs-ToBeSetupMod-Item ::= SEQUENCE {

dRBID DRBID,

qoSInformation QoSInformation,

uLUPTNLInformation-ToBeSetup-List ULUPTNLInformation-ToBeSetup-List,

rLCMode RLCMode,

uLConfiguration ULConfiguration OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

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

...

}

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

{ ID id-DC-Based-Duplication-Configured CRITICALITY reject EXTENSION DCBasedDuplicationConfigured PRESENCE optional }|

{ ID id-DC-Based-Duplication-Activation CRITICALITY reject EXTENSION DuplicationActivation PRESENCE optional }|

{ ID id-DLPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE optional }|

{ ID id-ULPDCPSNLength CRITICALITY ignore EXTENSION PDCPSNLength PRESENCE optional }|

{ ID id-AdditionalPDCPDuplicationTNL-List CRITICALITY ignore EXTENSION AdditionalPDCPDuplicationTNL-List PRESENCE optional }|

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

{ ID id-CG-SDTindicatorSetup CRITICALITY reject EXTENSION CG-SDTindicatorSetup PRESENCE optional },

...

}

DRXCycle ::= SEQUENCE {

longDRXCycleLength LongDRXCycleLength,

shortDRXCycleLength ShortDRXCycleLength OPTIONAL,

shortDRXCycleTimer ShortDRXCycleTimer OPTIONAL,

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

...

}

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

...

}

DRX-Config ::= OCTET STRING

DRXConfigurationIndicator ::= ENUMERATED{ release, ...}

DRX-LongCycleStartOffset ::= INTEGER (0..10239)

DSInformationList ::= SEQUENCE (SIZE(0..maxnoofDSInfo)) OF DSCP

DSCP ::= BIT STRING (SIZE (6))

DUtoCURRCContainer ::= OCTET STRING

DUCURadioInformationType ::= CHOICE {

rIM DUCURIMInformation,

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

}

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

...

}

DUCURIMInformation ::= SEQUENCE {

victimgNBSetID GNBSetID,

rIMRSDetectionStatus RIMRSDetectionStatus,

aggressorCellList AggressorCellList,

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

}

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

...

}

DUF-Slot-Config-Item ::= CHOICE {

explicitFormat ExplicitFormat,

implicitFormat ImplicitFormat,

choice-extension ProtocolIE-SingleContainer { { DUF-Slot-Config-Item-ExtIEs} }

}

DUF-Slot-Config-Item-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

DUF-Slot-Config-List ::= SEQUENCE (SIZE(1..maxnoofDUFSlots)) OF DUF-Slot-Config-Item

DUFSlotformatIndex ::= INTEGER(0..254)

DUFTransmissionPeriodicity ::= ENUMERATED { ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms5, ms10, ...}

DU-RX-MT-RX ::= ENUMERATED {supported, not-supported }

DU-TX-MT-TX ::= ENUMERATED {supported, not-supported }

DU-RX-MT-TX ::= ENUMERATED {supported, not-supported }

DU-TX-MT-RX ::= ENUMERATED {supported, not-supported }

DU-RX-MT-RX-Extend ::= ENUMERATED {supported, not-supported, supported-and-FDM-required, ...}

DU-TX-MT-TX-Extend ::= ENUMERATED {supported, not-supported, supported-and-FDM-required, ...}

DU-RX-MT-TX-Extend ::= ENUMERATED {supported, not-supported, supported-and-FDM-required, ...}

DU-TX-MT-RX-Extend ::= ENUMERATED {supported, not-supported, supported-and-FDM-required, ...}

DUtoCURRCInformation ::= SEQUENCE {

cellGroupConfig CellGroupConfig,

measGapConfig MeasGapConfig OPTIONAL,

requestedP-MaxFR1 OCTET STRING OPTIONAL,

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

...

}

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

{ ID id-DRX-LongCycleStartOffset CRITICALITY ignore EXTENSION DRX-LongCycleStartOffset PRESENCE optional }|

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

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

{ ID id-Ph-InfoSCG CRITICALITY ignore EXTENSION Ph-InfoSCG PRESENCE optional }|

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

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

{ ID id-DRX-Config CRITICALITY ignore EXTENSION DRX-Config PRESENCE optional }|

{ ID id-PDCCH-BlindDetectionSCG CRITICALITY ignore EXTENSION PDCCH-BlindDetectionSCG PRESENCE optional }|

{ ID id-Requested-PDCCH-BlindDetectionSCG CRITICALITY ignore EXTENSION Requested-PDCCH-BlindDetectionSCG PRESENCE optional }|

{ ID id-Ph-InfoMCG CRITICALITY ignore EXTENSION Ph-InfoMCG PRESENCE optional }|

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

{ ID id-SL-PHY-MAC-RLC-Config CRITICALITY ignore EXTENSION SL-PHY-MAC-RLC-Config PRESENCE optional }|

{ ID id-SL-ConfigDedicatedEUTRA-Info CRITICALITY ignore EXTENSION SL-ConfigDedicatedEUTRA-Info PRESENCE optional }|

{ ID id-RequestedP-MaxFR2 CRITICALITY ignore EXTENSION RequestedP-MaxFR2 PRESENCE optional }|

{ ID id-SDT-MACPHY-Config CRITICALITY ignore EXTENSION SDT-MACPHY-Config PRESENCE optional }|

{ ID id-MUSIM-GapConfig CRITICALITY ignore EXTENSION MUSIM-GapConfig PRESENCE optional },

...

}

DuplicationActivation ::= ENUMERATED{active,inactive,... }

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

DuplicationState ::= ENUMERATED {

active,

inactive,

...

}

Dynamic5QIDescriptor ::= SEQUENCE {

qoSPriorityLevel INTEGER (1..127),

packetDelayBudget PacketDelayBudget,

packetErrorRate PacketErrorRate,

fiveQI INTEGER (0..255, ...) OPTIONAL,

delayCritical ENUMERATED {delay-critical, non-delay-critical} OPTIONAL,

-- C-ifGBRflow: This IE shall be present if the GBR QoS Flow Information IE is present in the QoS Flow Level QoS Parameters IE.

averagingWindow AveragingWindow OPTIONAL,

-- C-ifGBRflow: This IE shall be present if the GBR QoS Flow Information IE is present in the QoS Flow Level QoS Parameters IE.

maxDataBurstVolume MaxDataBurstVolume OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Dynamic5QIDescriptor-ExtIEs } } OPTIONAL

}

Dynamic5QIDescriptor-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

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

{ ID id-CNPacketDelayBudgetDownlink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-CNPacketDelayBudgetUplink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional },

...

}

DynamicPQIDescriptor ::= SEQUENCE {

resourceType ENUMERATED {gbr, non-gbr, delay-critical-grb, ...} OPTIONAL,

qoSPriorityLevel INTEGER (1..8, ...),

packetDelayBudget PacketDelayBudget,

packetErrorRate PacketErrorRate,

averagingWindow AveragingWindow OPTIONAL,

-- C-ifGBRflow: This IE shall be present if the GBR QoS Flow Information IE is present in the QoS Flow Level QoS Parameters IE.

maxDataBurstVolume MaxDataBurstVolume OPTIONAL,

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

}

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

...

}

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

-- I

IAB-Barred ::= ENUMERATED {barred, not-barred, ...}

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

IABCongestionIndication ::= SEQUENCE {

iAB-Congestion-Indication-List IAB-Congestion-Indication-List,

iE-Extensions ProtocolExtensionContainer { { IAB-Congestion-Indication-List-ExtIEs } } OPTIONAL

}

IAB-Congestion-Indication-List-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-Congestion-Indication-List ::= SEQUENCE (SIZE(1..maxnoofIABCongInd)) OF IAB-Congestion-Indication-Item

IAB-Congestion-Indication-Item ::= SEQUENCE {

childNodeIdentifier BAPAddress,

bHRLCCHList BHRLCCHList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IAB-Congestion-Indication-ItemExtIEs } } OPTIONAL

}

IAB-Congestion-Indication-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-Info-IAB-donor-CU ::= SEQUENCE{

iAB-STC-Info IAB-STC-Info OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IAB-Info-IAB-donor-CU-ExtIEs } } OPTIONAL

}

IAB-Info-IAB-donor-CU-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-Info-IAB-DU ::= SEQUENCE{

multiplexingInfo MultiplexingInfo OPTIONAL,

iAB-STC-Info IAB-STC-Info OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IAB-Info-IAB-DU-ExtIEs } } OPTIONAL

}

IAB-Info-IAB-DU-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-MT-Cell-List ::= SEQUENCE (SIZE(1..maxnoofServingCells)) OF IAB-MT-Cell-List-Item

IAB-MT-Cell-List-Item ::= SEQUENCE {

nRCellIdentity NRCellIdentity,

dU-RX-MT-RX DU-RX-MT-RX,

dU-TX-MT-TX DU-TX-MT-TX,

dU-RX-MT-TX DU-RX-MT-TX,

dU-TX-MT-RX DU-TX-MT-RX,

iE-Extensions ProtocolExtensionContainer { { IAB-MT-Cell-List-Item-ExtIEs } } OPTIONAL

}

IAB-MT-Cell-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-DU-RX-MT-RX-Extend CRITICALITY ignore TYPE DU-RX-MT-RX-Extend PRESENCE optional }|

{ ID id-DU-TX-MT-TX-Extend CRITICALITY ignore TYPE DU-TX-MT-TX-Extend PRESENCE optional }|

{ ID id-DU-RX-MT-TX-Extend CRITICALITY ignore TYPE DU-RX-MT-TX-Extend PRESENCE optional }|

{ ID id-DU-TX-MT-RX-Extend CRITICALITY ignore TYPE DU-TX-MT-RX-Extend PRESENCE optional },

...

}

IAB-MT-Cell-NA-Resource-Configuration-Mode-Info ::= CHOICE {

fDD IAB-MT-Cell-NA-Resource-Configuration-FDD-Info,

tDD IAB-MT-Cell-NA-Resource-Configuration-TDD-Info,

choice-extension ProtocolIE-SingleContainer { { IAB-MT-Cell-NA-Resource-Configuration-Mode-Info-ExtIEs} }

}

IAB-MT-Cell-NA-Resource-Configuration-Mode-Info-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

IAB-MT-Cell-NA-Resource-Configuration-FDD-Info ::= SEQUENCE {

gNB-DU-Cell-NA-Resource-Configuration-FDD-UL GNB-DU-Cell-Resource-Configuration,

gNB-DU-Cell-NA-Resource-Configuration-FDD-DL GNB-DU-Cell-Resource-Configuration,

uL-FreqInfo NRFreqInfo OPTIONAL,

uL-Transmission-Bandwidth Transmission-Bandwidth OPTIONAL,

dL-FreqInfo NRFreqInfo OPTIONAL,

dL-Transmission-Bandwidth Transmission-Bandwidth OPTIONAL,

dL-NR-Carrier-List NRCarrierList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IAB-MT-Cell-NA-Resource-Configuration-FDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-MT-Cell-NA-Resource-Configuration-FDD-Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-MT-Cell-NA-Resource-Configuration-TDD-Info ::= SEQUENCE {

gNB-DU-Cell-NA-Resourc-Configuration-TDD GNB-DU-Cell-Resource-Configuration,

nRFreqInfo NRFreqInfo OPTIONAL,

transmission-Bandwidth Transmission-Bandwidth OPTIONAL,

nR-Carrier-List NRCarrierList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IAB-MT-Cell-NA-Resource-Configuration-TDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-MT-Cell-NA-Resource-Configuration-TDD-Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-STC-Info ::= SEQUENCE{

iAB-STC-Info-List IAB-STC-Info-List,

iE-Extensions ProtocolExtensionContainer { { IAB-STC-Info-ExtIEs } } OPTIONAL

}

IAB-STC-Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-STC-Info-List ::= SEQUENCE (SIZE(1..maxnoofIABSTCInfo)) OF IAB-STC-Info-Item

IAB-STC-Info-Item::= SEQUENCE {

sSB-freqInfo SSB-freqInfo,

sSB-subcarrierSpacing SSB-subcarrierSpacing,

sSB-transmissionPeriodicity SSB-transmissionPeriodicity,

sSB-transmissionTimingOffset SSB-transmissionTimingOffset,

sSB-transmissionBitmap SSB-transmissionBitmap,

iE-Extensions ProtocolExtensionContainer { { IAB-STC-Info-Item-ExtIEs } } OPTIONAL

}

IAB-STC-Info-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-Allocated-TNL-Address-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress,

iABTNLAddressUsage IABTNLAddressUsage OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IAB-Allocated-TNL-Address-Item-ExtIEs } } OPTIONAL

}

IAB-Allocated-TNL-Address-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-DU-Cell-Resource-Configuration-Mode-Info ::= CHOICE {

fDD IAB-DU-Cell-Resource-Configuration-FDD-Info,

tDD IAB-DU-Cell-Resource-Configuration-TDD-Info,

choice-extension ProtocolIE-SingleContainer { { IAB-DU-Cell-Resource-Configuration-Mode-Info-ExtIEs} }

}

IAB-DU-Cell-Resource-Configuration-Mode-Info-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

IAB-DU-Cell-Resource-Configuration-FDD-Info ::= SEQUENCE {

gNB-DU-Cell-Resource-Configuration-FDD-UL GNB-DU-Cell-Resource-Configuration,

gNB-DU-Cell-Resource-Configuration-FDD-DL GNB-DU-Cell-Resource-Configuration,

iE-Extensions ProtocolExtensionContainer { {IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-uL-FreqInfo CRITICALITY reject EXTENSION NRFreqInfo PRESENCE optional}|

{ID id-uL-Transmission-Bandwidth CRITICALITY reject EXTENSION Transmission-Bandwidth PRESENCE optional}|

{ID id-dL-FreqInfo CRITICALITY reject EXTENSION NRFreqInfo PRESENCE optional}|

{ID id-dL-Transmission-Bandwidth CRITICALITY reject EXTENSION Transmission-Bandwidth PRESENCE optional}|

{ID id-dL-NR-Carrier-List CRITICALITY reject EXTENSION NRCarrierList PRESENCE optional},

...

}

IAB-DU-Cell-Resource-Configuration-TDD-Info ::= SEQUENCE {

gNB-DU-Cell-Resourc-Configuration-TDD GNB-DU-Cell-Resource-Configuration,

iE-Extensions ProtocolExtensionContainer { {IAB-DU-Cell-Resource-Configuration-TDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-DU-Cell-Resource-Configuration-TDD-Info-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-nRFreqInfo CRITICALITY reject EXTENSION NRFreqInfo PRESENCE optional}|

{ID id-transmission-Bandwidth CRITICALITY reject EXTENSION Transmission-Bandwidth PRESENCE optional}|

{ID id-nR-Carrier-List CRITICALITY reject EXTENSION NRCarrierList PRESENCE optional},

...

}

IABIPv6RequestType ::= CHOICE {

iPv6Address IABTNLAddressesRequested,

iPv6Prefix IABTNLAddressesRequested,

choice-extension ProtocolIE-SingleContainer { { IABIPv6RequestType-ExtIEs} }

}

IABIPv6RequestType-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

IABTNLAddress ::= CHOICE {

iPv4Address BIT STRING (SIZE(32)),

iPv6Address BIT STRING (SIZE(128)),

iPv6Prefix BIT STRING (SIZE(64)),

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

}

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

...

}

IABTNLAddressesRequested ::= SEQUENCE {

tNLAddressesOrPrefixesRequestedAllTraffic INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedF1-C INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedF1-U INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedNoNF1 INTEGER (1..256) OPTIONAL,

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

}

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

...

}

IAB-TNL-Addresses-To-Remove-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress,

iE-Extensions ProtocolExtensionContainer { { IAB-TNL-Addresses-To-Remove-Item-ExtIEs} } OPTIONAL

}

IAB-TNL-Addresses-To-Remove-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IAB-TNL-Addresses-Exception ::= SEQUENCE {

iABTNLAddressList IABTNLAddressList,

iE-Extensions ProtocolExtensionContainer { { IAB-TNL-Addresses-Exception-ExtIEs} } OPTIONAL

}

IAB-TNL-Addresses-Exception-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IABTNLAddressList ::= SEQUENCE (SIZE(1.. maxnoofTLAsIAB)) OF IABTNLAddress-Item

IABTNLAddress-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress ,

iE-Extensions ProtocolExtensionContainer { { IABTNLAddress-ItemExtIEs } } OPTIONAL

}

IABTNLAddress-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IABTNLAddressUsage ::= ENUMERATED {

f1-c,

f1-u,

non-f1,

...

}

IABv4AddressesRequested ::= SEQUENCE {

iABv4AddressesRequested IABTNLAddressesRequested,

iE-Extensions ProtocolExtensionContainer { { IABv4AddressesRequested-ExtIEs} } OPTIONAL

}

IABv4AddressesRequested-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ImplicitFormat ::= SEQUENCE {

dUFSlotformatIndex DUFSlotformatIndex,

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

}

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

...

}

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

IgnoreResourceCoordinationContainer ::= ENUMERATED { yes,...}

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

InactivityMonitoringResponse ::= ENUMERATED { not-supported,...}

InterfacesToTrace ::= BIT STRING (SIZE(8))

IntendedTDD-DL-ULConfig ::= SEQUENCE {

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

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

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

slot-Configuration-List Slot-Configuration-List,

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

}

IngressNonF1terminatingTopologyIndicator ::= ENUMERATED {true, ...}

IntendedTDD-DL-ULConfig-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IPHeaderInformation ::= SEQUENCE {

destinationIABTNLAddress IABTNLAddress,

dsInformationList DSInformationList OPTIONAL,

iPv6FlowLabel BIT STRING (SIZE (20)) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IPHeaderInformation-ItemExtIEs} } OPTIONAL,

...

}

IPHeaderInformation-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

IPtolayer2TrafficMappingInfo ::= SEQUENCE {

iPtolayer2TrafficMappingInfoToAdd IPtolayer2TrafficMappingInfoList OPTIONAL,

iPtolayer2TrafficMappingInfoToRemove MappingInformationtoRemove OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IPtolayer2TrafficMappingInfo-ItemExtIEs} } OPTIONAL,

...

}

IPtolayer2TrafficMappingInfoList ::= SEQUENCE (SIZE(1..maxnoofMappingEntries)) OF IPtolayer2TrafficMappingInfo-Item

IPtolayer2TrafficMappingInfo-Item ::= SEQUENCE {

mappingInformationIndex MappingInformationIndex,

iPHeaderInformation IPHeaderInformation,

bHInfo BHInfo, iE-Extensions ProtocolExtensionContainer { { IPtolayer2TrafficMappingInfo-ItemExtIEs} } OPTIONAL,

...

}

IPtolayer2TrafficMappingInfo-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

-- R

RACH-Config-Common ::= OCTET STRING

RACH-Config-Common-IAB ::= OCTET STRING

RACHReportContainer::= OCTET STRING

RACHReportInformationList ::= SEQUENCE (SIZE(1.. maxnoofRACHReports)) OF RACHReportInformationItem

RACHReportInformationItem ::= SEQUENCE {

rACHReportContainer RACHReportContainer,

uEAssitantIdentifier GNB-DU-UE-F1AP-ID OPTIONAL,

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

...

}

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

...

}

RadioResourceStatus ::= SEQUENCE {

sSBAreaRadioResourceStatusList SSBAreaRadioResourceStatusList,

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

}

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

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

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

...

}

MIMOPRBusageInformation ::= SEQUENCE {

dl-GBR-PRB-usage-for-MIMO INTEGER (0..100),

ul-GBR-PRB-usage-for-MIMO INTEGER (0..100),

dl-non-GBR-PRB-usage-for-MIMO INTEGER (0..100),

ul-non-GBR-PRB-usage-for-MIMO INTEGER (0..100),

dl-Total-PRB-usage-for-MIMO INTEGER (0..100),

ul-Total-PRB-usage-for-MIMO INTEGER (0..100),

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

...

}

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

...

}

RANAC ::= INTEGER (0..255)

RAN-MeasurementID ::= INTEGER (1.. 65536, ...)

RAN-UE-MeasurementID ::= INTEGER (1.. 256, ...)

RAN-UE-PDC-MeasID ::= INTEGER (1..16, ...)

RANUEID ::= OCTET STRING (SIZE (8))

RANUEPagingIdentity ::= SEQUENCE {

iRNTI BIT STRING (SIZE(40)),

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

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

...

}

RAT-FrequencyPriorityInformation::= CHOICE {

eNDC SubscriberProfileIDforRFP,

nGRAN RAT-FrequencySelectionPriority,

choice-extension ProtocolIE-SingleContainer { { RAT-FrequencyPriorityInformation-ExtIEs} }

}

RAT-FrequencyPriorityInformation-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

RAT-FrequencySelectionPriority::= INTEGER (1.. 256, ...)

RBSetConfiguration ::= SEQUENCE {

subcarrierSpacing SubcarrierSpacing,

rBSetSize RBSetSize,

rBSetsList RBSetsList OPTIONAL,

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

}

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

...

}

RBSetSize ::= ENUMERATED { rb2, rb4, rb8, rb16, rb32, rb64}

RBSetsList ::= SEQUENCE (SIZE(1..maxnoofRBsetsPerCell)) OF RBSetsItem

RBSetsItem ::= SEQUENCE {

rBSetsIndex INTEGER (0.. maxnoofRBsetsPerCell-1) OPTIONAL,

initialRBIndex INTEGER (0.. maxnoofPhysicalResourceBlocks-1),

iE-Extensions ProtocolExtensionContainer {{RBSetsItemExtIEs }} OPTIONAL

}

RBSetsItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Re-routingDisableIndicator ::= ENUMERATED {

true,

false,

...

}

Redcap-Bcast-Information ::= BIT STRING(SIZE(8))

Reestablishment-Indication ::= ENUMERATED {

reestablished,

...

}

ReferencePoint ::= CHOICE {

coordinateID CoordinateID,

referencePointCoordinate AccessPointPosition,

referencePointCoordinateHA NGRANHighAccuracyAccessPointPosition,

choice-Extension ProtocolIE-SingleContainer { { ReferencePoint-ExtIEs} }

}

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

...

}

ReferenceSFN ::= INTEGER (0..1023)

ReferenceSignal ::= CHOICE {

nZP-CSI-RS NZP-CSI-RS-ResourceID,

sSB SSB,

sRS SRSResourceID,

positioningSRS SRSPosResourceID,

dL-PRS DL-PRS,

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

}

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

...

}

RelativeCartesianLocation ::= SEQUENCE {

xYZunit ENUMERATED {mm, cm, dm, ...},

xvalue INTEGER (-65536..65535),

yvalue INTEGER (-65536..65535),

zvalue INTEGER (-32768..32767),

locationUncertainty LocationUncertainty,

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

}

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

...

}

RelativeGeodeticLocation ::= SEQUENCE {

milli-Arc-SecondUnits ENUMERATED {zerodot03, zerodot3, three, ...},

heightUnits ENUMERATED {mm, cm, m, ...},

deltaLatitude INTEGER (-1024.. 1023),

deltaLongitude INTEGER (-1024.. 1023),

deltaHeight INTEGER (-1024.. 1023),

locationUncertainty LocationUncertainty,

iE-extensions ProtocolExtensionContainer {{RelativeGeodeticLocation-ExtIEs }} OPTIONAL

}

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

...

}

RemoteUELocalID ::= INTEGER (1.. 256, ...)

ReferenceTime ::= OCTET STRING

RegistrationRequest ::= ENUMERATED{start, stop, add, ...}

ReportCharacteristics ::= BIT STRING (SIZE(32))

ReportingPeriodicity ::= ENUMERATED{ms500, ms1000, ms2000, ms5000, ms10000, ...}

RequestedBandCombinationIndex ::= OCTET STRING

RequestedFeatureSetEntryIndex ::= OCTET STRING

RequestedP-MaxFR2 ::= OCTET STRING

Requested-PDCCH-BlindDetectionSCG ::= OCTET STRING

RequestedSRSTransmissionCharacteristics ::= SEQUENCE {

numberOfTransmissions INTEGER (0..500, ...) OPTIONAL,

-- The IE shall be present if the Resource Type IE is set to “periodic” --

resourceType ENUMERATED {periodic, semi-persistent, aperiodic,...},

bandwidthSRS BandwidthSRS,

sRSResourceSetList SRSResourceSetList OPTIONAL,

sSBInformation SSBInformation OPTIONAL,

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

}

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

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

...

}

RequestType ::= ENUMERATED {offer, execution, ...}

ResourceCoordinationEUTRACellInfo ::= SEQUENCE {

eUTRA-Mode-Info EUTRA-Coex-Mode-Info,

eUTRA-PRACH-Configuration EUTRA-PRACH-Configuration,

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

...

}

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

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

...

}

ResourceCoordinationTransferInformation ::= SEQUENCE {

meNB-Cell-ID EUTRA-Cell-ID,

resourceCoordinationEUTRACellInfo ResourceCoordinationEUTRACellInfo OPTIONAL,

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

...

}

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

...

}

ResourceCoordinationTransferContainer ::= OCTET STRING

ResourceSetType ::= CHOICE {

periodic ResourceSetTypePeriodic,

semi-persistent ResourceSetTypeSemi-persistent,

aperiodic ResourceSetTypeAperiodic,

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

}

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

...

}

ResourceSetTypePeriodic ::= SEQUENCE {

periodicSet ENUMERATED{true, ...},

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

}

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

...

}

ResourceSetTypeSemi-persistent ::= SEQUENCE {

semi-persistentSet ENUMERATED{true, ...},

iE-Extensions ProtocolExtensionContainer { { ResourceSetTypeSemi-persistent-ExtIEs} } OPTIONAL

}

ResourceSetTypeSemi-persistent-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ResourceSetTypeAperiodic ::= SEQUENCE {

sRSResourceTrigger-List INTEGER(1..3),

slotoffset INTEGER(0..32),

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

}

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

...

}

RepetitionPeriod ::= INTEGER (0..131071, ...)

ReportingRequestType ::= SEQUENCE {

eventType EventType,

reportingPeriodicityValue ReportingPeriodicityValue OPTIONAL,

-- C-ifEventTypeisPeriodic: This IE shall be present if the Event Type IE is set to "periodic" in the Event Type IE.

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

}

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

...

}

ResourceType ::= CHOICE {

periodic ResourceTypePeriodic,

semi-persistent ResourceTypeSemi-persistent,

aperiodic ResourceTypeAperiodic,

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

}

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

...

}

ResourceTypePeriodic ::= SEQUENCE {

periodicity ENUMERATED{slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, ...},

offset INTEGER(0..2559, ...),

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

}

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

...

}

ResourceTypeSemi-persistent ::= SEQUENCE {

periodicity ENUMERATED{slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, ...},

offset INTEGER(0..2559, ...),

iE-Extensions ProtocolExtensionContainer { { ResourceTypeSemi-persistent-ExtIEs} } OPTIONAL

}

ResourceTypeSemi-persistent-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ResourceTypeAperiodic ::= SEQUENCE {

aperiodicResourceType ENUMERATED{true, ...},

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

}

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

...

}

ResourceTypePos ::= CHOICE {

periodic ResourceTypePeriodicPos,

semi-persistent ResourceTypeSemi-persistentPos,

aperiodic ResourceTypeAperiodicPos,

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

}

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

...

}

ResourceTypePeriodicPos ::= SEQUENCE {

periodicity ENUMERATED{slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, slot5120, slot10240, slot40960, slot81920, ...},

offset INTEGER(0..81919, ...),

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

}

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

...

}

ResourceTypeSemi-persistentPos ::= SEQUENCE {

periodicity ENUMERATED{slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, slot5120, slot10240, slot40960, slot81920, ...},

offset INTEGER(0..81919, ...),

iE-Extensions ProtocolExtensionContainer { { ResourceTypeSemi-persistentPos-ExtIEs} } OPTIONAL

}

ResourceTypeSemi-persistentPos-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ResourceTypeAperiodicPos ::= SEQUENCE {

slotOffset INTEGER (0..32),

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

}

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

...

}

RLCDuplicationInformation ::= SEQUENCE {

rLCDuplicationStateList RLCDuplicationStateList,

primaryPathIndication PrimaryPathIndication OPTIONAL,

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

}

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

...

}

RLCDuplicationStateList ::= SEQUENCE (SIZE(1..maxnoofRLCDuplicationState)) OF RLCDuplicationState-Item

RLCDuplicationState-Item ::=SEQUENCE {

duplicationState DuplicationState,

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

...

}

RLCDuplicationState-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

RLCFailureIndication ::= SEQUENCE {

assocatedLCID LCID,

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

}

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

...

}

RLCMode ::= ENUMERATED {

rlc-am,

rlc-um-bidirectional,

rlc-um-unidirectional-ul,

rlc-um-unidirectional-dl,

...

}

RLC-Status ::= SEQUENCE {

reestablishment-Indication Reestablishment-Indication,

iE-Extensions ProtocolExtensionContainer { { RLC-Status-ExtIEs } } OPTIONAL,

...

}

RLC-Status-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

RLFReportInformationList ::= SEQUENCE (SIZE(1.. maxnoofRLFReports)) OF RLFReportInformationItem

RLFReportInformationItem ::= SEQUENCE {

nRUERLFReportContainer NRUERLFReportContainer,

uEAssitantIdentifier GNB-DU-UE-F1AP-ID OPTIONAL,

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

...

}

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

...

}

RIMRSDetectionStatus ::= ENUMERATED {rs-detected, rs-disappeared, ...}

RRCContainer ::= OCTET STRING

RRCContainer-RRCSetupComplete ::= OCTET STRING

RRCDeliveryStatus ::= SEQUENCE {

delivery-status PDCP-SN,

triggering-message PDCP-SN,

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

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

...

}

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

RRCReconfigurationCompleteIndicator ::= ENUMERATED {

true,

...,

failure

}

RRC-Version ::= SEQUENCE {

latest-RRC-Version BIT STRING (SIZE(3)),

iE-Extensions ProtocolExtensionContainer { { RRC-Version-ExtIEs } } OPTIONAL}

RRC-Version-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-latest-RRC-Version-Enhanced CRITICALITY ignore EXTENSION OCTET STRING (SIZE(3)) PRESENCE optional },

...

}

RoutingID ::= OCTET STRING

ResponseTime ::= SEQUENCE {

time INTEGER (1..128,...),

timeUnit ENUMERATED {second, ten-seconds, ten-milliseconds,...},

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

...

}

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

...

}

**>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<**

### 9.4.7 Constant Definitions

-- ASN1START

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

--

-- Constant definitions

--

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

F1AP-Constants {

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

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM F1AP-CommonDataTypes;

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

--

-- Elementary Procedures

--

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

id-Reset ProcedureCode ::= 0

id-F1Setup ProcedureCode ::= 1

id-ErrorIndication ProcedureCode ::= 2

id-gNBDUConfigurationUpdate ProcedureCode ::= 3

id-gNBCUConfigurationUpdate ProcedureCode ::= 4

id-UEContextSetup ProcedureCode ::= 5

id-UEContextRelease ProcedureCode ::= 6

id-UEContextModification ProcedureCode ::= 7

id-UEContextModificationRequired ProcedureCode ::= 8

id-UEMobilityCommand ProcedureCode ::= 9

id-UEContextReleaseRequest ProcedureCode ::= 10

id-InitialULRRCMessageTransfer ProcedureCode ::= 11

id-DLRRCMessageTransfer ProcedureCode ::= 12

id-ULRRCMessageTransfer ProcedureCode ::= 13

id-privateMessage ProcedureCode ::= 14

id-UEInactivityNotification ProcedureCode ::= 15

id-GNBDUResourceCoordination ProcedureCode ::= 16

id-SystemInformationDeliveryCommand ProcedureCode ::= 17

id-Paging ProcedureCode ::= 18

id-Notify ProcedureCode ::= 19

id-WriteReplaceWarning ProcedureCode ::= 20

id-PWSCancel ProcedureCode ::= 21

id-PWSRestartIndication ProcedureCode ::= 22

id-PWSFailureIndication ProcedureCode ::= 23

id-GNBDUStatusIndication ProcedureCode ::= 24

id-RRCDeliveryReport ProcedureCode ::= 25

id-F1Removal ProcedureCode ::= 26

id-NetworkAccessRateReduction ProcedureCode ::= 27

id-TraceStart ProcedureCode ::= 28

id-DeactivateTrace ProcedureCode ::= 29

id-DUCURadioInformationTransfer ProcedureCode ::= 30

id-CUDURadioInformationTransfer ProcedureCode ::= 31

id-BAPMappingConfiguration ProcedureCode ::= 32

id-GNBDUResourceConfiguration ProcedureCode ::= 33

id-IABTNLAddressAllocation ProcedureCode ::= 34

id-IABUPConfigurationUpdate ProcedureCode ::= 35

id-resourceStatusReportingInitiation ProcedureCode ::= 36

id-resourceStatusReporting ProcedureCode ::= 37

id-accessAndMobilityIndication ProcedureCode ::= 38

id-accessSuccess ProcedureCode ::= 39

id-cellTrafficTrace ProcedureCode ::= 40

id-PositioningMeasurementExchange ProcedureCode ::= 41

id-PositioningAssistanceInformationControl ProcedureCode ::= 42

id-PositioningAssistanceInformationFeedback ProcedureCode ::= 43

id-PositioningMeasurementReport ProcedureCode ::= 44

id-PositioningMeasurementAbort ProcedureCode ::= 45

id-PositioningMeasurementFailureIndication ProcedureCode ::= 46

id-PositioningMeasurementUpdate ProcedureCode ::= 47

id-TRPInformationExchange ProcedureCode ::= 48

id-PositioningInformationExchange ProcedureCode ::= 49

id-PositioningActivation ProcedureCode ::= 50

id-PositioningDeactivation ProcedureCode ::= 51

id-E-CIDMeasurementInitiation ProcedureCode ::= 52

id-E-CIDMeasurementFailureIndication ProcedureCode ::= 53

id-E-CIDMeasurementReport ProcedureCode ::= 54

id-E-CIDMeasurementTermination ProcedureCode ::= 55

id-PositioningInformationUpdate ProcedureCode ::= 56

id-ReferenceTimeInformationReport ProcedureCode ::= 57

id-ReferenceTimeInformationReportingControl ProcedureCode ::= 58

id-BroadcastContextSetup ProcedureCode ::= 59

id-BroadcastContextRelease ProcedureCode ::= 60

id-BroadcastContextReleaseRequest ProcedureCode ::= 61

id-BroadcastContextModification ProcedureCode ::= 62

id-MulticastGroupPaging ProcedureCode ::= 63

id-MulticastContextSetup ProcedureCode ::= 64

id-MulticastContextRelease ProcedureCode ::= 65

id-MulticastContextReleaseRequest ProcedureCode ::= 66

id-MulticastContextModification ProcedureCode ::= 67

id-MulticastDistributionSetup ProcedureCode ::= 68

id-MulticastDistributionRelease ProcedureCode ::= 69

id-PDCMeasurementInitiation ProcedureCode ::= 70

id-PDCMeasurementReport ProcedureCode ::= 71

id-PDCMeasurementInitiationRequest ProcedureCode ::= 72

id-PDCMeasurementInitiationResponse ProcedureCode ::= 73

id-PDCMeasurementInitiationFailure ProcedureCode ::= 74

id-pRSConfigurationExchange ProcedureCode ::= 75

id-measurementPreconfiguration ProcedureCode ::= 76

id-measurementActivation ProcedureCode ::= 77

id-QoEInformationTransfer ProcedureCode ::= 78

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

--

-- Extension constants

--

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

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

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

--

-- Lists

--

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

maxNRARFCN INTEGER ::= 3279165

maxnoofErrors INTEGER ::= 256

maxnoofIndividualF1ConnectionsToReset INTEGER ::= 65536

maxCellingNBDU INTEGER ::= 512

maxnoofSCells INTEGER ::= 32

maxnoofSRBs INTEGER ::= 8

maxnoofDRBs INTEGER ::= 64

maxnoofULUPTNLInformation INTEGER ::= 2

maxnoofDLUPTNLInformation INTEGER ::= 2

maxnoofBPLMNs INTEGER ::= 6

maxnoofCandidateSpCells INTEGER ::= 64

maxnoofPotentialSpCells INTEGER ::= 64

maxnoofNrCellBands INTEGER ::= 32

maxnoofSIBTypes INTEGER ::= 32

maxnoofSITypes INTEGER ::= 32

maxnoofPagingCells INTEGER ::= 512

maxnoofTNLAssociations INTEGER ::= 32

maxnoofQoSFlows INTEGER ::= 64

maxnoofSliceItems INTEGER ::= 1024

maxCellineNB INTEGER ::= 256

maxnoofExtendedBPLMNs INTEGER ::= 6

maxnoofUEIDs INTEGER ::= 65536

maxnoofBPLMNsNR INTEGER ::= 12

maxnoofUACPLMNs INTEGER ::= 12

maxnoofUACperPLMN INTEGER ::= 64

maxnoofAdditionalSIBs INTEGER ::= 63

maxnoofslots INTEGER ::= 5120

maxnoofTLAs INTEGER ::= 16

maxnoofGTPTLAs INTEGER ::= 16

maxnoofBHRLCChannels INTEGER ::= 65536

maxnoofRoutingEntries INTEGER ::= 1024

maxnoofIABSTCInfo INTEGER ::= 45

maxnoofSymbols INTEGER ::= 14

maxnoofServingCells INTEGER ::= 32

maxnoofDUFSlots INTEGER ::= 320

maxnoofHSNASlots INTEGER ::= 5120

maxnoofServedCellsIAB INTEGER ::= 512

maxnoofChildIABNodes INTEGER ::= 1024

maxnoofNonUPTrafficMappings INTEGER ::= 32

maxnoofTLAsIAB INTEGER ::= 1024

maxnoofMappingEntries INTEGER ::= 67108864

maxnoofDSInfo INTEGER ::= 64

maxnoofEgressLinks INTEGER ::= 2

maxnoofULUPTNLInformationforIAB INTEGER ::= 32678

maxnoofUPTNLAddresses INTEGER ::= 8

maxnoofSLDRBs INTEGER ::= 512

maxnoofQoSParaSets INTEGER ::= 8

maxnoofPC5QoSFlows INTEGER ::= 2048

maxnoofSSBAreas INTEGER ::= 64

maxnoofPhysicalResourceBlocks INTEGER ::= 275

maxnoofPhysicalResourceBlocks-1 INTEGER ::= 274

maxnoofPRACHconfigs INTEGER ::= 16

maxnoofRACHReports INTEGER ::= 64

maxnoofRLFReports INTEGER ::= 64

maxnoofAdditionalPDCPDuplicationTNL INTEGER ::= 2

maxnoofRLCDuplicationState INTEGER ::= 3

maxnoofCHOcells INTEGER ::= 8

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofCAGsupported INTEGER ::= 12

maxnoofNIDsupported INTEGER ::= 12

maxnoofNRSCSs INTEGER ::= 5

maxnoofExtSliceItems INTEGER ::= 65535

maxnoofPosMeas INTEGER ::= 16384

maxnoofTRPInfoTypes INTEGER ::= 64

maxnoofTRPs INTEGER ::= 65535

maxnoofSRSTriggerStates INTEGER ::= 3

maxnoofSpatialRelations INTEGER ::= 64

maxnoBcastCell INTEGER ::= 16384

maxnoofAngleInfo INTEGER ::= 65535

maxnooflcs-gcs-translation INTEGER ::= 3

maxnoofPath INTEGER ::= 2

maxnoofMeasE-CID INTEGER ::= 64

maxnoofSSBs INTEGER ::= 255

maxnoSRS-ResourceSets INTEGER ::= 16

maxnoSRS-ResourcePerSet INTEGER ::= 16

maxnoSRS-Carriers INTEGER ::= 32

maxnoSCSs INTEGER ::= 5

maxnoSRS-Resources INTEGER ::= 64

maxnoSRS-PosResources INTEGER ::= 64

maxnoSRS-PosResourceSets INTEGER ::= 16

maxnoSRS-PosResourcePerSet INTEGER ::= 16

maxnoofPRS-ResourceSets INTEGER ::= 2

maxnoofPRS-ResourcesPerSet INTEGER ::= 64

maxNoOfMeasTRPs INTEGER ::= 64

maxnoofPRSresourceSets INTEGER ::= 8

maxnoofPRSresources INTEGER ::= 64

maxnoofSuccessfulHOReports INTEGER ::= 64

maxnoofNR-UChannelIDs INTEGER ::= 4

maxServedCellforSON INTEGER ::= 256

maxNeighbourCellforSON INTEGER ::= 32

maxAffectedCells INTEGER ::= 32

maxnoofMRBs INTEGER ::= 32

maxnoofMBSQoSFlows INTEGER ::= 64

maxnoofMBSFSAs INTEGER ::= 256

maxnoofUEIDforPaging INTEGER ::= 4096

maxnoofCellsforMBS INTEGER ::= 8192

maxnoofTAIforMBS INTEGER ::= 1024

maxnoofMBSAreaSessionIDs INTEGER ::= 256

maxnoofMBSServiceAreaInformation INTEGER ::= 512

maxnoofIABCongInd INTEGER ::= 1024

maxnoofNeighbourNodeCellsIAB INTEGER ::= 1024

maxnoofRBsetsPerCell INTEGER ::= 8

maxnoofRBsetsPerCell-1 INTEGER ::= 7

maxnoofMeasPDC INTEGER ::= 16

maxnoARPs INTEGER ::= 16

maxnoofULAoAs INTEGER ::= 8

maxNoPathExtended INTEGER ::= 8

maxnoUETEGs INTEGER ::= 8

maxnoTRPTEGs INTEGER ::= 8

maxFreqLayers INTEGER ::= 4

maxNumResourcesPerAngle INTEGER ::= 512

maxnoAzimuthAngles INTEGER ::= 3600

maxnoElevationAngles INTEGER ::= 1801

maxnoofPRSTRPs INTEGER ::= 256

maxnoofQoEInformation INTEGER ::= 16

maxnoofUuRLCChannels INTEGER ::= 32

maxnoofPC5RLCChannels INTEGER ::= 64

maxnoofSMBRValues INTEGER ::= 8

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

--

-- IEs

--

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

id-Cause ProtocolIE-ID ::= 0

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

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

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

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

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

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

id-CriticalityDiagnostics ProtocolIE-ID ::= 7

id-CUtoDURRCInformation ProtocolIE-ID ::= 9

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

id-DRXCycle ProtocolIE-ID ::= 38

id-DUtoCURRCInformation ProtocolIE-ID ::= 39

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

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

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

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

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

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

id-NRCellID ProtocolIE-ID ::= 46

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

id-ResetType ProtocolIE-ID ::= 48

id-ResourceCoordinationTransferContainer ProtocolIE-ID ::= 49

id-RRCContainer ProtocolIE-ID ::= 50

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

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

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

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

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

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

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

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

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

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

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

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

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

id-SRBID ProtocolIE-ID ::= 64

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

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

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

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

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

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

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

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

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

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

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

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

id-TimeToWait ProtocolIE-ID ::= 77

id-TransactionID ProtocolIE-ID ::= 78

id-TransmissionActionIndicator ProtocolIE-ID ::= 79

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

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

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

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

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

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

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

id-RRCReconfigurationCompleteIndicator ProtocolIE-ID ::= 87

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

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

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

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

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

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

id-FullConfiguration ProtocolIE-ID ::= 94

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

id-SpCellULConfigured ProtocolIE-ID ::= 96

id-InactivityMonitoringRequest ProtocolIE-ID ::= 97

id-InactivityMonitoringResponse ProtocolIE-ID ::= 98

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

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

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

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

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

id-RequestType ProtocolIE-ID ::= 106

id-ServCellIndex ProtocolIE-ID ::= 107

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

id-ExecuteDuplication ProtocolIE-ID ::= 109

id-NRCGI ProtocolIE-ID ::= 111

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

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

id-PagingDRX ProtocolIE-ID ::= 114

id-PagingPriority ProtocolIE-ID ::= 115

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

id-UEIdentityIndexValue ProtocolIE-ID ::= 117

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

id-HandoverPreparationInformation ProtocolIE-ID ::= 119

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

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

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

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

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

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

id-MaskedIMEISV ProtocolIE-ID ::= 126

id-PagingIdentity ProtocolIE-ID ::= 127

id-DUtoCURRCContainer ProtocolIE-ID ::= 128

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

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

id-TAISliceSupportList ProtocolIE-ID ::= 131

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

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

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

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

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

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

id-NotficationControl ProtocolIE-ID ::= 138

id-RANAC ProtocolIE-ID ::= 139

id-PWSSystemInformation ProtocolIE-ID ::= 140

id-RepetitionPeriod ProtocolIE-ID ::= 141

id-NumberofBroadcastRequest ProtocolIE-ID ::= 142

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

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

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

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

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

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

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

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

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

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

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

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

id-ConfirmedUEID ProtocolIE-ID ::= 156

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

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

id-DRXConfigurationIndicator ProtocolIE-ID ::= 159

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

id-DLPDCPSNLength ProtocolIE-ID ::= 161

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

id-MeasurementTimingConfiguration ProtocolIE-ID ::= 163

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

id-ServingPLMN ProtocolIE-ID ::= 165

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

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

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

id-GNBDUOverloadInformation ProtocolIE-ID ::= 172

id-CellGroupConfig ProtocolIE-ID ::= 173

id-RLCFailureIndication ProtocolIE-ID ::= 174

id-UplinkTxDirectCurrentListInformation ProtocolIE-ID ::= 175

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

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

id-SULAccessIndication ProtocolIE-ID ::= 178

id-AvailablePLMNList ProtocolIE-ID ::= 179

id-PDUSessionID ProtocolIE-ID ::= 180

id-ULPDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 181

id-ServingCellMO ProtocolIE-ID ::= 182

id-QoSFlowMappingIndication ProtocolIE-ID ::= 183

id-RRCDeliveryStatusRequest ProtocolIE-ID ::= 184

id-RRCDeliveryStatus ProtocolIE-ID ::= 185

id-BearerTypeChange ProtocolIE-ID ::= 186

id-RLCMode ProtocolIE-ID ::= 187

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

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

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

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

id-ULPDCPSNLength ProtocolIE-ID ::= 192

id-SelectedBandCombinationIndex ProtocolIE-ID ::= 193

id-SelectedFeatureSetEntryIndex ProtocolIE-ID ::= 194

id-ResourceCoordinationTransferInformation ProtocolIE-ID ::= 195

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

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

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

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

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

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

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

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

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

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

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

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

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

id-RequestedBandCombinationIndex ProtocolIE-ID ::= 209

id-RequestedFeatureSetEntryIndex ProtocolIE-ID ::= 210

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

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

id-IgnoreResourceCoordinationContainer ProtocolIE-ID ::= 213

id-UEAssistanceInformation ProtocolIE-ID ::= 214

id-NeedforGap ProtocolIE-ID ::= 215

id-PagingOrigin ProtocolIE-ID ::= 216

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

id-RedirectedRRCmessage ProtocolIE-ID ::= 218

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

id-NotificationInformation ProtocolIE-ID ::= 220

id-PLMNAssistanceInfoForNetShar ProtocolIE-ID ::= 221

id-UEContextNotRetrievable ProtocolIE-ID ::= 222

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

id-SelectedPLMNID ProtocolIE-ID ::= 224

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

id-RANUEID ProtocolIE-ID ::= 226

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

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

id-TNLAssociationTransportLayerAddressgNBDU ProtocolIE-ID ::= 229

id-portNumber ProtocolIE-ID ::= 230

id-AdditionalSIBMessageList ProtocolIE-ID ::= 231

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

id-IgnorePRACHConfiguration ProtocolIE-ID ::= 233

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

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

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

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

id-MeasGapSharingConfig ProtocolIE-ID ::= 238

id-systemInformationAreaID ProtocolIE-ID ::= 239

id-areaScope ProtocolIE-ID ::= 240

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

id-TraceActivation ProtocolIE-ID ::= 242

id-TraceID ProtocolIE-ID ::= 243

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

id-SymbolAllocInSlot ProtocolIE-ID ::= 246

id-NumDLULSymbols ProtocolIE-ID ::= 247

id-AdditionalRRMPriorityIndex ProtocolIE-ID ::= 248

id-DUCURadioInformationType ProtocolIE-ID ::= 249

id-CUDURadioInformationType ProtocolIE-ID ::= 250

id-AggressorgNBSetID ProtocolIE-ID ::= 251

id-VictimgNBSetID ProtocolIE-ID ::= 252

id-LowerLayerPresenceStatusChange ProtocolIE-ID ::= 253

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

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

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

id-QosMonitoringRequest ProtocolIE-ID ::= 257

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

id-BHInfo ProtocolIE-ID ::= 280

id-BAPAddress ProtocolIE-ID ::= 281

id-ConfiguredBAPAddress ProtocolIE-ID ::= 282

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

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

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

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

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

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

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

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

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

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

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

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

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

id-IABIPv6RequestType ProtocolIE-ID ::= 296

id-IABv4AddressesRequested ProtocolIE-ID ::= 297

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

id-TrafficMappingInformation ProtocolIE-ID ::= 299

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

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

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

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

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

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

id-NRV2XServicesAuthorized ProtocolIE-ID ::= 306

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 307

id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 308

id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 309

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

id-UEAssistanceInformationEUTRA ProtocolIE-ID ::= 339

id-PC5LinkAMBR ProtocolIE-ID ::= 340

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

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

id-AlternativeQoSParaSetList ProtocolIE-ID ::= 343

id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 344

id-gNBCUMeasurementID ProtocolIE-ID ::= 345

id-gNBDUMeasurementID ProtocolIE-ID ::= 346

id-RegistrationRequest ProtocolIE-ID ::= 347

id-ReportCharacteristics ProtocolIE-ID ::= 348

id-CellToReportList ProtocolIE-ID ::= 349

id-CellMeasurementResultList ProtocolIE-ID ::= 350

id-HardwareLoadIndicator ProtocolIE-ID ::= 351

id-ReportingPeriodicity ProtocolIE-ID ::= 352

id-TNLCapacityIndicator ProtocolIE-ID ::= 353

id-CarrierList ProtocolIE-ID ::= 354

id-ULCarrierList ProtocolIE-ID ::= 355

id-FrequencyShift7p5khz ProtocolIE-ID ::= 356

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

id-NRPRACHConfig ProtocolIE-ID ::= 358

id-RACHReportInformationList ProtocolIE-ID ::= 359

id-RLFReportInformationList ProtocolIE-ID ::= 360

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

id-CNPacketDelayBudgetDownlink ProtocolIE-ID ::= 362

id-ExtendedPacketDelayBudget ProtocolIE-ID ::= 363

id-TSCTrafficCharacteristics ProtocolIE-ID ::= 364

id-ReportingRequestType ProtocolIE-ID ::= 365

id-TimeReferenceInformation ProtocolIE-ID ::= 366

id-CNPacketDelayBudgetUplink ProtocolIE-ID ::= 369

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

id-RLCDuplicationInformation ProtocolIE-ID ::= 371

id-AdditionalDuplicationIndication ProtocolIE-ID ::= 372

id-ConditionalInterDUMobilityInformation ProtocolIE-ID ::= 373

id-ConditionalIntraDUMobilityInformation ProtocolIE-ID ::= 374

id-targetCellsToCancel ProtocolIE-ID ::= 375

id-requestedTargetCellGlobalID ProtocolIE-ID ::= 376

id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 377

id-TraceCollectionEntityIPAddress ProtocolIE-ID ::= 378

id-PrivacyIndicator ProtocolIE-ID ::= 379

id-TraceCollectionEntityURI ProtocolIE-ID ::= 380

id-mdtConfiguration ProtocolIE-ID ::= 381

id-ServingNID ProtocolIE-ID ::= 382

id-NPNBroadcastInformation ProtocolIE-ID ::= 383

id-NPNSupportInfo ProtocolIE-ID ::= 384

id-NID ProtocolIE-ID ::= 385

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

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

id-DLCarrierList ProtocolIE-ID ::= 389

id-ExtendedTAISliceSupportList ProtocolIE-ID ::= 390

id-RequestedSRSTransmissionCharacteristics ProtocolIE-ID ::= 391

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

id-PosBroadcast ProtocolIE-ID ::= 393

id-RoutingID ProtocolIE-ID ::= 394

id-PosAssistanceInformationFailureList ProtocolIE-ID ::= 395

id-PosMeasurementQuantities ProtocolIE-ID ::= 396

id-PosMeasurementResultList ProtocolIE-ID ::= 397

id-TRPInformationTypeListTRPReq ProtocolIE-ID ::= 398

id-TRPInformationTypeItem ProtocolIE-ID ::= 399

id-TRPInformationListTRPResp ProtocolIE-ID ::= 400

id-TRPInformationItem ProtocolIE-ID ::= 401

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

id-SRSType ProtocolIE-ID ::= 403

id-ActivationTime ProtocolIE-ID ::= 404

id-AbortTransmission ProtocolIE-ID ::= 405

id-PositioningBroadcastCells ProtocolIE-ID ::= 406

id-SRSConfiguration ProtocolIE-ID ::= 407

id-PosReportCharacteristics ProtocolIE-ID ::= 408

id-PosMeasurementPeriodicity ProtocolIE-ID ::= 409

id-TRPList ProtocolIE-ID ::= 410

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

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

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

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

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

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

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id-SFNInitialisationTime ProtocolIE-ID ::= 419

id-SystemFrameNumber ProtocolIE-ID ::= 420

id-SlotNumber ProtocolIE-ID ::= 421

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

id-MeasurementBeamInfoRequest ProtocolIE-ID ::= 423

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

id-ConfiguredTACIndication ProtocolIE-ID ::= 425

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

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

id-F1CTransferPath ProtocolIE-ID ::= 428

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

id-TransmissionStopIndicator ProtocolIE-ID ::= 430

id-SrsFrequency ProtocolIE-ID ::= 431

id-SCGIndicator ProtocolIE-ID ::= 432

id-EstimatedArrivalProbability ProtocolIE-ID ::= 433

id-TRPType ProtocolIE-ID ::= 434

id-SRSSpatialRelationPerSRSResource ProtocolIE-ID ::= 435

id-PDCPTerminatingNodeDLTNLAddrInfo ProtocolIE-ID ::= 436

id-ENBDLTNLAddress ProtocolIE-ID ::= 437

id-PosMeasurementPeriodicityExtended ProtocolIE-ID ::= 438

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

id-LocationMeasurementInformation ProtocolIE-ID ::= 440

id-SliceRadioResourceStatus ProtocolIE-ID ::= 441

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

id-SuccessfulHOReportInformationList ProtocolIE-ID ::= 443

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

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

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

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

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

id-MIMOPRBusageInformation ProtocolIE-ID ::= 450

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

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

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

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id-SNSSAI ProtocolIE-ID ::= 456

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

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

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

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

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

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

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

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

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

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

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

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

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

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id-IABConditionalRRCMessageDeliveryIndication ProtocolIE-ID ::= 510

id-F1CTransferPathNRDC ProtocolIE-ID ::= 511

id-BufferSizeThresh ProtocolIE-ID ::= 512

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

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

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

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

id-NonF1terminatingTopologyIndicator ProtocolIE-ID ::= 517

id-EgressNonF1terminatingTopologyIndicator ProtocolIE-ID ::= 518

id-IngressNonF1terminatingTopologyIndicator ProtocolIE-ID ::= 519

id-rBSetConfiguration ProtocolIE-ID ::= 520

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

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

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

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

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

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

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

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

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

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

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

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

id-permutation ProtocolIE-ID ::= 535

id-MDTPollutedMeasurementIndicator ProtocolIE-ID ::= 536

id-M5ReportAmount ProtocolIE-ID ::= 537

id-M6ReportAmount ProtocolIE-ID ::= 538

id-M7ReportAmount ProtocolIE-ID ::= 539

id-SurvivalTime ProtocolIE-ID ::= 540

id-PDCMeasurementPeriodicity ProtocolIE-ID ::= 541

id-PDCMeasurementQuantities ProtocolIE-ID ::= 542

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

id-PDCMeasurementResult ProtocolIE-ID ::= 544

id-PDCReportType ProtocolIE-ID ::= 545

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

id-SCGActivationRequest ProtocolIE-ID ::= 547

id-SCGActivationStatus ProtocolIE-ID ::= 548

id-PRSTRPList ProtocolIE-ID ::= 549

id-PRSTransmissionTRPList ProtocolIE-ID ::= 550

id-OnDemandTRPPRS ProtocolIE-ID ::= 551

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

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

id-ZoAInformation ProtocolIE-ID ::= 554

id-ResponseTime ProtocolIE-ID ::= 555

id-ARPLocationInfo ProtocolIE-ID ::= 556

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

id-MultipleULAoA ProtocolIE-ID ::= 558

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

id-SRSResourcetype ProtocolIE-ID ::= 560

id-ExtendedAdditionalPathList ProtocolIE-ID ::= 561

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

id-UETxTEGAssociation ProtocolIE-ID ::= 563

id-NumberOfTRPRxTEG ProtocolIE-ID ::= 564

id-NumberOfTRPRxTxTEG ProtocolIE-ID ::= 565

id-TRPTxTEGAssociation ProtocolIE-ID ::= 566

id-TRPTEGIDInformation ProtocolIE-ID ::= 567

id-TRPRXTEGID ProtocolIE-ID ::= 568

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

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

id-PRSConfigRequestType ProtocolIE-ID ::= 571

id-UE-TEG-Info-Request ProtocolIE-ID ::= 572

id-MeasurementTimeOccasion ProtocolIE-ID ::= 573

id-MeasurementCharacteristicsRequestIndicator ProtocolIE-ID ::= 574

id-UEReportingInformation ProtocolIE-ID ::= 575

id-PosConextRevIndication ProtocolIE-ID ::= 576

id-TRPBeamAntennaInformation ProtocolIE-ID ::= 577

id-NRRedCapUEIndication ProtocolIE-ID ::= 578

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

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id-CNUEPagingDRX ProtocolIE-ID ::= 581

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id-NRPagingeDRXInformationforRRCINACTIVE ProtocolIE-ID ::= 583

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

id-QoEInformationList ProtocolIE-ID ::= 585

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

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

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

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

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

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

id-SDTInformation ProtocolIE-ID ::= 592

id-SDTRLCBearerConfiguration ProtocolIE-ID ::= 593

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

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

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

id-SRBMappingInfo ProtocolIE-ID ::= 597

id-DRBMappingInfo ProtocolIE-ID ::= 598

id-UuRLCChannelToBeSetupList ProtocolIE-ID ::= 599

id-UuRLCChannelToBeModifiedList ProtocolIE-ID ::= 600

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id-UuRLCChannelRequiredToBeReleasedList ProtocolIE-ID ::= 607

id-PC5RLCChannelToBeSetupList ProtocolIE-ID ::= 608

id-PC5RLCChannelToBeModifiedList ProtocolIE-ID ::= 609

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id-PC5RLCChannelSetupList ProtocolIE-ID ::= 611

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id-SidelinkRelayConfiguration ProtocolIE-ID ::= 617

id-UpdatedRemoteUELocalID ProtocolIE-ID ::= 618

id-PathSwitchConfiguration ProtocolIE-ID ::= 619

id-PagingCause ProtocolIE-ID ::= 620

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

id-PEIPSAssistanceInfo ProtocolIE-ID ::= 622

id-UEPagingCapability ProtocolIE-ID ::= 623

id-LastUsedCellIndication ProtocolIE-ID ::= 624

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

id-GNBDUUESliceMaximumBitRateList ProtocolIE-ID ::= 626

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

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

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

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

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

END

-- ASN1STOP

-------------------------------------------End of changes-------------------------------------------