**3GPP TSG-RAN WG3 Meeting #107bis-eR3-20xxxx**

**Online, April 20th – 30th 2020**

Agenda Item: 13.2.1.3

Source: Ericsson

Title: (TP for NR-IAB BL CR for TS 38.473): IP Address Allocation for IAB-nodes

Document for: Agreement

# Annex: TP for NR\_IAB BL CR to TS 38.473

-------------------------------------------Change 1-------------------------------------------

# 8 F1AP procedures

## 8.1 List of F1AP Elementary procedures

In the following tables, all EPs are divided into Class 1 and Class 2 EPs (see subclause 3.1 for explanation of the different classes):

Table 1: Class 1 procedures

|  |  |  |  |
| --- | --- | --- | --- |
| Elementary Procedure | Initiating Message | Successful Outcome | Unsuccessful Outcome |
| Response message | Response message |
| Reset | RESET | RESET ACKNOWLEDGE |  |
| F1 Setup | F1 SETUP REQUEST | F1 SETUP RESPONSE | F1 SETUP FAILURE |
| gNB-DU Configuration Update | GNB-DU CONFIGURATION UPDATE | GNB-DU CONFIGURATION UPDATE ACKNOWLEDGE | GNB-DU CONFIGURATION UPDATE FAILURE |
| gNB-CU Configuration Update | GNB-CU CONFIGURATION UPDATE | GNB-CU CONFIGURATION UPDATE ACKNOWLEDGE | GNB-CU CONFIGURATION UPDATE FAILURE |
| UE Context Setup | UE CONTEXT SETUP REQUEST | UE CONTEXT SETUP RESPONSE | UE CONTEXT SETUP FAILURE |
| UE Context Release (gNB-CU initiated) | UE CONTEXT RELEASE COMMAND | UE CONTEXT RELEASE COMPLETE |  |
| UE Context Modification (gNB-CU initiated) | UE CONTEXT MODIFICATION REQUEST | UE CONTEXT MODIFICATION RESPONSE | UE CONTEXT MODIFICATION FAILURE |
| UE Context Modification Required (gNB-DU initiated) | UE CONTEXT MODIFICATION REQUIRED | UE CONTEXT MODIFICATION CONFIRM | UE CONTEXT MODIFICATION REFUSE |
| Write-Replace Warning  | WRITE-REPLACE WARNING REQUEST | WRITE-REPLACE WARNING RESPONSE |  |
| PWS Cancel | PWS CANCEL REQUEST | PWS CANCEL RESPONSE |  |
| gNB-DU Resource Coordination | GNB-DU RESOURCE COORDINATION REQUEST | GNB-DU RESOURCE COORDINATION RESPONSE |  |
| F1 Removal | F1 REMOVAL REQUEST | F1 REMOVAL RESPONSE | F1 REMOVAL FAILURE |
| BH Routing Configuration | BH ROUTING CONFIGURATION  | BH ROUTING CONFIGURATION ACKNOWLEDGE |  |
| GNB-DU Resource Configuration | GNB-DU RESOURCE CONFIGURATION | GNB-DU RESOURCE CONFIGURATION ACKNOWLEDGE |  |
| IAB TNL Address Allocation | IAB TNL ADDRESS REQUEST | IAB TNL ADDRESS RESPONSE |  |

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

-------------------------------------------Change 2-------------------------------------------

## 8.x IAB procedures

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

### 8.x.3 IAB TNL Address Allocation

#### 8.x.3.1 General

The purpose of the IAB TNL Address Allocation procedure is to allocate TNL addresses to be used by the IAB-node.

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

#### 8.x.3.2 Successful Operation

 IAB TNL ADDRESS REQUEST

IAB TNL ADDRESS RESPONSE

GNB-CU

GNB-DU

Figure 8.x.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 gNB-DU succeeds to fulfil the request, it replies to the gNB-CU with an IAB TNL ADDRESS RESPONSE.

If the IAB TNL ADDRESS REQUEST contains the *IAB Number of IPv4 Addresses Requested* IE and the *IAB IPv4 Addresses Requested* IE, the gNB-DU shall allocate the TNL addresses accordingly and include these addresses in the IAB TNL ADDRESS RESPONSE message.

If the IAB TNL ADDRESS REQUEST contains *the IAB IPv6 Address Prefixes Requested* IE, the gNB-DU shall allocate the individual TNL address prefixes accordingly and include these prefixes in the IAB TNL ADDRESS RESPONSE message.

If the IAB TNL ADDRESS REQUEST 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 an IAB-node.

If the IAB TNL ADDRESS RESPONSE contains the *IAB Allocated TNL Address List* IE, the gNB-CU shall consider that the IP addresses therein are allocated to an IAB-node.

If the IAB TNL ADDRESS RESPONSE contains the *IPv6 Prefix* IE, the gNB-CU shall consider that the prefix is allocated to an IAB-node.

#### 8.x.3.3 Abnormal Conditions

Not applicable.

-------------------------------------------Change 3-------------------------------------------

# 9 Elements for F1AP Communication

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

### 9.2.x IAB messages

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

#### 9.2.x.1 IAB TNL ADDRESS REQUEST

This message is sent by the gNB-CU to request the allocation of IP addresses for an IAB-node.

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 |
| IAB Number of IPv4Addresses Requested | O |  | INTEGER (1..16) |  | - |  |
| IAB IPv4 Address Requested | O |  | IAB TNL Addresses Requested9.3.1.m | Present if the *IAB Number of IPv4 Addresses Requested* IE is present. | - |  |
| IAB IPv6 Address Prefixes Requested | O |  | IAB TNL Addresses Requested9.3.1.m |  | - |  |
|  |  |  |  |  |  |  |
| **IAB TNL Addresses To Remove List** |  | 0..1 |  |  | YES | reject |
| **>IAB TNL Addresses To Remove Item** |  | 1..<*maxnoofIndividualTLAsIAB*> |  |  | EACH | reject |
|  |  |  |  |  |  |  |
| >>IPv4 Address or IPv6 Address Prefix | O |  | BIT STRING (SIZE(64)) |  | - | For IPv4, the trailing 32 bits are set to zero.  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofiIndividualTLAsIAB | Maximum no. of individual TNL addresses that can be allocated in one procedure. The value is 64. |

#### 9.2.x.2 IAB TNL ADDRESS RESPONSE

This message is sent by the gNB-DU to indicate the TNL addresses allocated to an IAB-node.

Direction: gNB-DU → gNB-CU.

| **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 |
| **IAB Allocated TNL Address List** |  | *0..1* |  |  | YES | reject |
| **>IAB Allocated TNL Address Item** |  | 1..<*maxnoofIndividualTLAsIAB*> |  |  | EACH | reject |
| >>IAB TNL Address  | M |  | 9.3.2.3 | An IPv4 or IPv6 address prefix allocated to an IAB-node. | - |  |
| >>IAB TNL Address Usage | O |  | ENUMERATED (F1-C, F1-U, Non-F1, …) | The usage of the allocated IPv4 or IPv6 address. | - |  |
|  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofiIndividualTLAsIAB | Maximum no. of individual TNL addresses that can be allocatedin one procedure. The value is 64. |

-------------------------------------------Change 4-------------------------------------------

### 9.3.1Radio Network Layer Related IEs

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

#### 9.3.1.m IAB TNL Addresses Requested

The *IAB TNL Addresses Requested* IE indicates the number of IPv4 and/or IPv6 addresses requested for the indicated usage.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE Type and Reference** | **Semantics Description** |
| Number of IPv-4 Addresses or IPv6 Address Prefixes requested for all Traffic  | O |  | INTEGER(1..8) | The number of requested TNL addresses for all traffic. |
| Number of IPv4 Addresses or IPv6 Address Prefixes requested for F1-C Traffic | O |  | INTEGER (1..8) | The number of requested TNL addresses/prefixes for F1-C traffic. |
| Number of IPv4 Addresses or IPv6 Address Prefixes requested for F1-U Traffic | O |  | INTEGER (1..8) | The number of requested TNL addresses/prefixes for F1-U traffic. |
| Number of IPv4 Addresses or IPv6 Address Prefixes requested for non-F1 Traffic | O |  | INTEGER (1..8) | The number of requested TNL addresses/prefixes for non-F1 traffic. |

-------------------------------------------Change 5-------------------------------------------

### 9.4.3 Elementary Procedure Definitions

-- ASN1START

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

--

-- Elementary Procedure definitions

--

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

F1AP-PDU-Descriptions {

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

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-PDU-Descriptions (0)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

 Criticality,

 ProcedureCode

FROM F1AP-CommonDataTypes

 Reset,

 ResetAcknowledge,

 F1SetupRequest,

 F1SetupResponse,

 F1SetupFailure,

 GNBDUConfigurationUpdate,

 GNBDUConfigurationUpdateAcknowledge,

 GNBDUConfigurationUpdateFailure,

 GNBCUConfigurationUpdate,

 GNBCUConfigurationUpdateAcknowledge,

 GNBCUConfigurationUpdateFailure,

 UEContextSetupRequest,

 UEContextSetupResponse,

 UEContextSetupFailure,

 UEContextReleaseCommand,

 UEContextReleaseComplete,

 UEContextModificationRequest,

 UEContextModificationResponse,

 UEContextModificationFailure,

 UEContextModificationRequired,

 UEContextModificationConfirm,

 ErrorIndication,

 UEContextReleaseRequest,

 DLRRCMessageTransfer,

 ULRRCMessageTransfer,

 GNBDUResourceCoordinationRequest,

 GNBDUResourceCoordinationResponse,

 PrivateMessage,

 UEInactivityNotification,

 InitialULRRCMessageTransfer,

 SystemInformationDeliveryCommand,

 Paging,

 Notify,

 WriteReplaceWarningRequest,

 WriteReplaceWarningResponse,

 PWSCancelRequest,

 PWSCancelResponse,

 PWSRestartIndication,

 PWSFailureIndication,

 GNBDUStatusIndication,

 RRCDeliveryReport,

 UEContextModificationRefuse,

 F1RemovalRequest,

 F1RemovalResponse,

 F1RemovalFailure,

 NetworkAccessRateReduction,

 TraceStart,

 DeactivateTrace,

 DUCURadioInformationTransfer,

 CUDURadioInformationTransfer,

 BHRoutingConfiguration,

 BHRoutingConfigurationAcknowledge,

 GNBDUResourceConfiguration,

 GNBDUResourceConfigurationAcknowledge,

 IABTNLAddressRequest,

 IABTNLAddressResponse

FROM F1AP-PDU-Contents

 id-Reset,

 id-F1Setup,

 id-gNBDUConfigurationUpdate,

 id-gNBCUConfigurationUpdate,

 id-UEContextSetup,

 id-UEContextRelease,

 id-UEContextModification,

 id-UEContextModificationRequired,

 id-ErrorIndication,

 id-UEContextReleaseRequest,

 id-DLRRCMessageTransfer,

 id-ULRRCMessageTransfer,

 id-GNBDUResourceCoordination,

 id-privateMessage,

 id-UEInactivityNotification,

 id-InitialULRRCMessageTransfer,

 id-SystemInformationDeliveryCommand,

 id-Paging,

 id-Notify,

 id-WriteReplaceWarning,

 id-PWSCancel,

 id-PWSRestartIndication,

 id-PWSFailureIndication,

 id-GNBDUStatusIndication,

 id-RRCDeliveryReport,

 id-F1Removal,

 id-NetworkAccessRateReduction,

 id-TraceStart,

 id-DeactivateTrace,

 id-DUCURadioInformationTransfer,

 id-CUDURadioInformationTransfer,

 id-BHRoutingConfiguration,

 id-GNBDUResourceConfiguration,

 id-IABTNLAddressAllocation

FROM F1AP-Constants

 ProtocolIE-SingleContainer{},

 F1AP-PROTOCOL-IES

FROM F1AP-Containers;

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

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

--

-- Interface Elementary Procedure List

--

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

F1AP-ELEMENTARY-PROCEDURES F1AP-ELEMENTARY-PROCEDURE ::= {

 F1AP-ELEMENTARY-PROCEDURES-CLASS-1 |

 F1AP-ELEMENTARY-PROCEDURES-CLASS-2,

 ...

}

F1AP-ELEMENTARY-PROCEDURES-CLASS-1 F1AP-ELEMENTARY-PROCEDURE ::= {

 reset |

 f1Setup |

 gNBDUConfigurationUpdate |

 gNBCUConfigurationUpdate |

 uEContextSetup |

 uEContextRelease |

 uEContextModification |

 uEContextModificationRequired |

 writeReplaceWarning |

 pWSCancel |

 gNBDUResourceCoordination |

 f1Removal |

 bHRoutingConfiguration |

 gNBDUResourceConfiguration |

 IABTNLAddressAllocation ,

 ...

}

F1AP-ELEMENTARY-PROCEDURES-CLASS-2 F1AP-ELEMENTARY-PROCEDURE ::= {

 errorIndication |

 uEContextReleaseRequest |

 dLRRCMessageTransfer |

 uLRRCMessageTransfer |

 uEInactivityNotification |

 privateMessage |

 initialULRRCMessageTransfer |

 systemInformationDelivery |

 paging |

 notify |

 pWSRestartIndication |

 pWSFailureIndication |

 gNBDUStatusIndication |

 rRCDeliveryReport |

 networkAccessRateReduction |

 traceStart |

 deactivateTrace |

 dUCURadioInformationTransfer |

 cUDURadioInformationTransfer ,

 ...

}

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

--

-- Interface Elementary Procedures

--

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

reset F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE Reset

 SUCCESSFUL OUTCOME ResetAcknowledge

 PROCEDURE CODE id-Reset

 CRITICALITY reject

}

f1Setup F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE F1SetupRequest

 SUCCESSFUL OUTCOME F1SetupResponse

 UNSUCCESSFUL OUTCOME F1SetupFailure

 PROCEDURE CODE id-F1Setup

 CRITICALITY reject

}

gNBDUConfigurationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE GNBDUConfigurationUpdate

 SUCCESSFUL OUTCOME GNBDUConfigurationUpdateAcknowledge

 UNSUCCESSFUL OUTCOME GNBDUConfigurationUpdateFailure

 PROCEDURE CODE id-gNBDUConfigurationUpdate

 CRITICALITY reject

}

gNBCUConfigurationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE GNBCUConfigurationUpdate

 SUCCESSFUL OUTCOME GNBCUConfigurationUpdateAcknowledge

 UNSUCCESSFUL OUTCOME GNBCUConfigurationUpdateFailure

 PROCEDURE CODE id-gNBCUConfigurationUpdate

 CRITICALITY reject

}

uEContextSetup F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEContextSetupRequest

 SUCCESSFUL OUTCOME UEContextSetupResponse

 UNSUCCESSFUL OUTCOME UEContextSetupFailure

 PROCEDURE CODE id-UEContextSetup

 CRITICALITY reject

}

uEContextRelease F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEContextReleaseCommand

 SUCCESSFUL OUTCOME UEContextReleaseComplete

 PROCEDURE CODE id-UEContextRelease

 CRITICALITY reject

}

uEContextModification F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEContextModificationRequest

 SUCCESSFUL OUTCOME UEContextModificationResponse

 UNSUCCESSFUL OUTCOME UEContextModificationFailure

 PROCEDURE CODE id-UEContextModification

 CRITICALITY reject

}

uEContextModificationRequired F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEContextModificationRequired

 SUCCESSFUL OUTCOME UEContextModificationConfirm

 UNSUCCESSFUL OUTCOME UEContextModificationRefuse

 PROCEDURE CODE id-UEContextModificationRequired

 CRITICALITY reject

}

writeReplaceWarning F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE WriteReplaceWarningRequest

 SUCCESSFUL OUTCOME WriteReplaceWarningResponse

 PROCEDURE CODE id-WriteReplaceWarning

 CRITICALITY reject

}

pWSCancel F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE PWSCancelRequest

 SUCCESSFUL OUTCOME PWSCancelResponse

 PROCEDURE CODE id-PWSCancel

 CRITICALITY reject

}

errorIndication F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE ErrorIndication

 PROCEDURE CODE id-ErrorIndication

 CRITICALITY ignore

}

uEContextReleaseRequest F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEContextReleaseRequest

 PROCEDURE CODE id-UEContextReleaseRequest

 CRITICALITY ignore

}

initialULRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE InitialULRRCMessageTransfer

 PROCEDURE CODE id-InitialULRRCMessageTransfer

 CRITICALITY ignore

}

dLRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE DLRRCMessageTransfer

 PROCEDURE CODE id-DLRRCMessageTransfer

 CRITICALITY ignore

}

uLRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE ULRRCMessageTransfer

 PROCEDURE CODE id-ULRRCMessageTransfer

 CRITICALITY ignore

}

uEInactivityNotification F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE UEInactivityNotification

 PROCEDURE CODE id-UEInactivityNotification

 CRITICALITY ignore

}

gNBDUResourceCoordination F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE GNBDUResourceCoordinationRequest

 SUCCESSFUL OUTCOME GNBDUResourceCoordinationResponse

 PROCEDURE CODE id-GNBDUResourceCoordination

 CRITICALITY reject

}

privateMessage F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE PrivateMessage

 PROCEDURE CODE id-privateMessage

 CRITICALITY ignore

}

systemInformationDelivery F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE SystemInformationDeliveryCommand

 PROCEDURE CODE id-SystemInformationDeliveryCommand

 CRITICALITY ignore

}

paging F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE Paging

 PROCEDURE CODE id-Paging

 CRITICALITY ignore

}

notify F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE Notify

 PROCEDURE CODE id-Notify

 CRITICALITY ignore

}

networkAccessRateReduction F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE NetworkAccessRateReduction

 PROCEDURE CODE id-NetworkAccessRateReduction

 CRITICALITY ignore

}

pWSRestartIndication F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE PWSRestartIndication

 PROCEDURE CODE id-PWSRestartIndication

 CRITICALITY ignore

}

pWSFailureIndication F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE PWSFailureIndication

 PROCEDURE CODE id-PWSFailureIndication

 CRITICALITY ignore

}

gNBDUStatusIndication F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE GNBDUStatusIndication

 PROCEDURE CODE id-GNBDUStatusIndication

 CRITICALITY ignore

}

rRCDeliveryReport F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE RRCDeliveryReport

 PROCEDURE CODE id-RRCDeliveryReport

 CRITICALITY ignore

}

f1Removal F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE F1RemovalRequest

 SUCCESSFUL OUTCOME F1RemovalResponse

 UNSUCCESSFUL OUTCOME F1RemovalFailure

 PROCEDURE CODE id-F1Removal

 CRITICALITY reject

}

traceStart F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE TraceStart

 PROCEDURE CODE id-TraceStart

 CRITICALITY ignore

}

deactivateTrace F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE DeactivateTrace

 PROCEDURE CODE id-DeactivateTrace

 CRITICALITY ignore

}

dUCURadioInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE DUCURadioInformationTransfer

 PROCEDURE CODE id-DUCURadioInformationTransfer

 CRITICALITY ignore

}

cUDURadioInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE CUDURadioInformationTransfer

 PROCEDURE CODE id-CUDURadioInformationTransfer

 CRITICALITY ignore

}

bHRoutingConfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE BHRoutingConfiguration

 SUCCESSFUL OUTCOME BHRoutingConfigurationAcknowledge

 PROCEDURE CODE id-BHRoutingConfiguration

 CRITICALITY reject

}

gNBDUResourceConfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE GNBDUResourceConfiguration

 SUCCESSFUL OUTCOME GNBDUResourceConfigurationAcknowledge

 PROCEDURE CODE id-GNBDUResourceConfiguration

 CRITICALITY reject

}

iABTNLAddressAllocation F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE IABTNLAddressRequest

 SUCCESSFUL OUTCOME IABTNLAddressResponse

 PROCEDURE CODE id-IABTNLAddressAllocation

 CRITICALITY reject

}

END

-- ASN1STOP

-------------------------------------------Change 6-------------------------------------------

### 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

 Candidate-SpCell-Item,

 Cause,

 Cells-Failed-to-be-Activated-List-Item,

 Cells-Status-Item,

 Cells-to-be-Activated-List-Item,

 Cells-to-be-Deactivated-List-Item,

 CellULConfigured,

 CriticalityDiagnostics,

 C-RNTI,

 CUtoDURRCInformation,

 DRB-Activity-Item,

 DRBID,

 DRBs-FailedToBeModified-Item,

 DRBs-FailedToBeSetup-Item,

 DRBs-FailedToBeSetupMod-Item,

 DRB-Notify-Item,

 DRBs-ModifiedConf-Item,

 DRBs-Modified-Item,

 DRBs-Required-ToBeModified-Item,

 DRBs-Required-ToBeReleased-Item,

 DRBs-Setup-Item,

 DRBs-SetupMod-Item,

 DRBs-ToBeModified-Item,

 DRBs-ToBeReleased-Item,

 DRBs-ToBeSetup-Item,

 DRBs-ToBeSetupMod-Item,

 DRXCycle,

 DRXConfigurationIndicator,

 DUtoCURRCInformation,

 EUTRANQoS,

 ExecuteDuplication,

 FullConfiguration,

 GNB-CU-UE-F1AP-ID,

 GNB-DU-UE-F1AP-ID,

 GNB-DU-ID,

 GNB-DU-Served-Cells-Item,

 GNB-DU-System-Information,

 GNB-CU-Name,

 GNB-DU-Name,

 InactivityMonitoringRequest,

 InactivityMonitoringResponse,

 LowerLayerPresenceStatusChange,

 NotificationControl,

 NRCGI,

 NRPCI,

 UEContextNotRetrievable,

 Potential-SpCell-Item,

 RAT-FrequencyPriorityInformation,

 ResourceCoordinationTransferContainer,

 RRCContainer,

 RRCContainer-RRCSetupComplete,

 RRCReconfigurationCompleteIndicator,

 SCellIndex,

 SCell-ToBeRemoved-Item,

 SCell-ToBeSetup-Item,

 SCell-ToBeSetupMod-Item,

 SCell-FailedtoSetup-Item,

 SCell-FailedtoSetupMod-Item,

 ServCellIndex,

 Served-Cell-Information,

 Served-Cells-To-Add-Item,

 Served-Cells-To-Delete-Item,

 Served-Cells-To-Modify-Item,

 ServingCellMO,

 SRBID,

 SRBs-FailedToBeSetup-Item,

 SRBs-FailedToBeSetupMod-Item,

 SRBs-Required-ToBeReleased-Item,

 SRBs-ToBeReleased-Item,

 SRBs-ToBeSetup-Item,

 SRBs-ToBeSetupMod-Item,

 SRBs-Modified-Item,

 SRBs-Setup-Item,

 SRBs-SetupMod-Item,

 TimeToWait,

 TransactionID,

 TransmissionActionIndicator,

 UE-associatedLogicalF1-ConnectionItem,

 DUtoCURRCContainer,

 PagingCell-Item,

 SItype-List,

 UEIdentityIndexValue,

 GNB-CU-TNL-Association-Setup-Item,

 GNB-CU-TNL-Association-Failed-To-Setup-Item,

 GNB-CU-TNL-Association-To-Add-Item,

 GNB-CU-TNL-Association-To-Remove-Item,

 GNB-CU-TNL-Association-To-Update-Item,

 MaskedIMEISV,

 PagingDRX,

 PagingPriority,

 PagingIdentity,

 Cells-to-be-Barred-Item,

 PWSSystemInformation,

 Broadcast-To-Be-Cancelled-Item,

 Cells-Broadcast-Cancelled-Item,

 NR-CGI-List-For-Restart-Item,

 PWS-Failed-NR-CGI-Item,

 RepetitionPeriod,

 NumberofBroadcastRequest,

 Cells-To-Be-Broadcast-Item,

 Cells-Broadcast-Completed-Item,

 Cancel-all-Warning-Messages-Indicator,

 EUTRA-NR-CellResourceCoordinationReq-Container,

 EUTRA-NR-CellResourceCoordinationReqAck-Container,

 RequestType,

 PLMN-Identity,

 RLCFailureIndication,

 UplinkTxDirectCurrentListInformation,

 SULAccessIndication,

 Protected-EUTRA-Resources-Item,

 GNB-DUConfigurationQuery,

 BitRate,

 RRC-Version,

 GNBDUOverloadInformation,

 RRCDeliveryStatusRequest,

 NeedforGap,

 RRCDeliveryStatus,

 ResourceCoordinationTransferInformation,

 Dedicated-SIDelivery-NeededUE-Item,

 Associated-SCell-Item,

 IgnoreResourceCoordinationContainer,

 PagingOrigin,

 UAC-Assistance-Info,

 RANUEID,

 GNB-DU-TNL-Association-To-Remove-Item,

 NotificationInformation,

 TraceActivation,

 TraceID,

 Neighbour-Cell-Information-Item,

 SymbolAllocInSlot,

 NumDLULSymbols,

 AdditionalRRMPriorityIndex,

 DUCURadioInformationType,

 CUDURadioInformationType,

 Transport-Layer-Address-Info,

 BHChannels-ToBeSetup-Item,

 BHChannels-Setup-Item,

 BHChannels-FailedToBeSetup-Item,

 BHChannels-ToBeModified-Item,

 BHChannels-ToBeReleased-Item,

 BHChannels-ToBeSetupMod-Item,

 BHChannels-FailedToBeModified-Item,

 BHChannels-FailedToBeSetupMod-Item,

 BHChannels-Modified-Item,

 BHChannels-SetupMod-Item,

 BHChannels-Required-ToBeReleased-Item,

 BAPAddress,

 BAPPathID,

 BAPRoutingID,

 BH-Routing-Information-Added-List-Item,

 BH-Routing-Information-Removed-List-Item,

 Child-Nodes-List,

 Child-Nodes-List-Item,

 Child-Node-Cells-List,

 Child-Node-Cells-List-Item,

 Activated-Cells-to-be-Updated-List,

 Activated-Cells-to-be-Updated-List-Item,

 UL-BH-Non-UP-Traffic-Mapping,

IABTNLAddressesRequested,

IAB-Allocated-TNL-Address-List,

IAB-Allocated-TNL-Address-Item,

IAB-TNL-Addresses-To-Remove-List,

IAB-TNL-Addresses-To-Remove-Item

FROM F1AP-IEs

 PrivateIE-Container{},

 ProtocolExtensionContainer{},

 ProtocolIE-Container{},

 ProtocolIE-ContainerPair{},

 ProtocolIE-SingleContainer{},

 F1AP-PRIVATE-IES,

 F1AP-PROTOCOL-EXTENSION,

 F1AP-PROTOCOL-IES,

 F1AP-PROTOCOL-IES-PAIR

FROM F1AP-Containers

 id-Candidate-SpCell-Item,

 id-Candidate-SpCell-List,

 id-Cause,

 id-Cancel-all-Warning-Messages-Indicator,

 id-Cells-Failed-to-be-Activated-List,

 id-Cells-Failed-to-be-Activated-List-Item,

 id-Cells-Status-Item,

 id-Cells-Status-List,

 id-Cells-to-be-Activated-List,

 id-Cells-to-be-Activated-List-Item,

 id-Cells-to-be-Deactivated-List,

 id-Cells-to-be-Deactivated-List-Item,

 id-ConfirmedUEID,

 id-CriticalityDiagnostics,

 id-C-RNTI,

 id-CUtoDURRCInformation,

 id-DRB-Activity-Item,

 id-DRB-Activity-List,

 id-DRBs-FailedToBeModified-Item,

 id-DRBs-FailedToBeModified-List,

 id-DRBs-FailedToBeSetup-Item,

 id-DRBs-FailedToBeSetup-List,

 id-DRBs-FailedToBeSetupMod-Item,

 id-DRBs-FailedToBeSetupMod-List,

 id-DRBs-ModifiedConf-Item,

 id-DRBs-ModifiedConf-List,

 id-DRBs-Modified-Item,

 id-DRBs-Modified-List,

 id-DRB-Notify-Item,

 id-DRB-Notify-List,

 id-DRBs-Required-ToBeModified-Item,

 id-DRBs-Required-ToBeModified-List,

 id-DRBs-Required-ToBeReleased-Item,

 id-DRBs-Required-ToBeReleased-List,

 id-DRBs-Setup-Item,

 id-DRBs-Setup-List,

 id-DRBs-SetupMod-Item,

 id-DRBs-SetupMod-List,

 id-DRBs-ToBeModified-Item,

 id-DRBs-ToBeModified-List,

 id-DRBs-ToBeReleased-Item,

 id-DRBs-ToBeReleased-List,

 id-DRBs-ToBeSetup-Item,

 id-DRBs-ToBeSetup-List,

 id-DRBs-ToBeSetupMod-Item,

 id-DRBs-ToBeSetupMod-List,

 id-DRXCycle,

 id-DUtoCURRCInformation,

 id-ExecuteDuplication,

 id-FullConfiguration,

 id-gNB-CU-UE-F1AP-ID,

 id-gNB-DU-UE-F1AP-ID,

 id-gNB-DU-ID,

 id-GNB-DU-Served-Cells-Item,

 id-gNB-DU-Served-Cells-List,

 id-gNB-CU-Name,

 id-gNB-DU-Name,

 id-InactivityMonitoringRequest,

 id-InactivityMonitoringResponse,

 id-new-gNB-CU-UE-F1AP-ID,

 id-new-gNB-DU-UE-F1AP-ID,

 id-oldgNB-DU-UE-F1AP-ID,

 id-PLMNAssistanceInfoForNetShar,

 id-Potential-SpCell-Item,

 id-Potential-SpCell-List,

 id-RAT-FrequencyPriorityInformation,

 id-RedirectedRRCmessage,

 id-ResetType,

 id-ResourceCoordinationTransferContainer,

 id-RRCContainer,

 id-RRCContainer-RRCSetupComplete,

 id-RRCReconfigurationCompleteIndicator,

 id-SCell-FailedtoSetup-List,

 id-SCell-FailedtoSetup-Item,

 id-SCell-FailedtoSetupMod-List,

 id-SCell-FailedtoSetupMod-Item,

 id-SCell-ToBeRemoved-Item,

 id-SCell-ToBeRemoved-List,

 id-SCell-ToBeSetup-Item,

 id-SCell-ToBeSetup-List,

 id-SCell-ToBeSetupMod-Item,

 id-SCell-ToBeSetupMod-List,

 id-SelectedPLMNID,

 id-Served-Cells-To-Add-Item,

 id-Served-Cells-To-Add-List,

 id-Served-Cells-To-Delete-Item,

 id-Served-Cells-To-Delete-List,

 id-Served-Cells-To-Modify-Item,

 id-Served-Cells-To-Modify-List,

 id-ServCellIndex,

 id-ServingCellMO,

 id-SpCell-ID,

 id-SpCellULConfigured,

 id-SRBID,

 id-SRBs-FailedToBeSetup-Item,

 id-SRBs-FailedToBeSetup-List,

 id-SRBs-FailedToBeSetupMod-Item,

 id-SRBs-FailedToBeSetupMod-List,

 id-SRBs-Required-ToBeReleased-Item,

 id-SRBs-Required-ToBeReleased-List,

 id-SRBs-ToBeReleased-Item,

 id-SRBs-ToBeReleased-List,

 id-SRBs-ToBeSetup-Item,

 id-SRBs-ToBeSetup-List,

 id-SRBs-ToBeSetupMod-Item,

 id-SRBs-ToBeSetupMod-List,

 id-SRBs-Modified-Item,

 id-SRBs-Modified-List,

 id-SRBs-Setup-Item,

 id-SRBs-Setup-List,

 id-SRBs-SetupMod-Item,

 id-SRBs-SetupMod-List,

 id-TimeToWait,

 id-TransactionID,

 id-TransmissionActionIndicator,

 id-UEContextNotRetrievable,

 id-UE-associatedLogicalF1-ConnectionItem,

 id-UE-associatedLogicalF1-ConnectionListResAck,

 id-DUtoCURRCContainer,

 id-NRCGI,

 id-PagingCell-Item,

 id-PagingCell-List,

 id-PagingDRX,

 id-PagingPriority,

 id-SItype-List,

 id-UEIdentityIndexValue,

 id-GNB-CU-TNL-Association-Setup-List,

 id-GNB-CU-TNL-Association-Setup-Item,

 id-GNB-CU-TNL-Association-Failed-To-Setup-List,

 id-GNB-CU-TNL-Association-Failed-To-Setup-Item,

 id-GNB-CU-TNL-Association-To-Add-Item,

 id-GNB-CU-TNL-Association-To-Add-List,

 id-GNB-CU-TNL-Association-To-Remove-Item,

 id-GNB-CU-TNL-Association-To-Remove-List,

 id-GNB-CU-TNL-Association-To-Update-Item,

 id-GNB-CU-TNL-Association-To-Update-List,

 id-MaskedIMEISV,

 id-PagingIdentity,

 id-Cells-to-be-Barred-List,

 id-Cells-to-be-Barred-Item,

 id-PWSSystemInformation,

 id-RepetitionPeriod,

 id-NumberofBroadcastRequest,

 id-Cells-To-Be-Broadcast-List,

 id-Cells-To-Be-Broadcast-Item,

 id-Cells-Broadcast-Completed-List,

 id-Cells-Broadcast-Completed-Item,

 id-Broadcast-To-Be-Cancelled-List,

 id-Broadcast-To-Be-Cancelled-Item,

 id-Cells-Broadcast-Cancelled-List,

 id-Cells-Broadcast-Cancelled-Item,

 id-NR-CGI-List-For-Restart-List,

 id-NR-CGI-List-For-Restart-Item,

 id-PWS-Failed-NR-CGI-List,

 id-PWS-Failed-NR-CGI-Item,

 id-EUTRA-NR-CellResourceCoordinationReq-Container,

 id-EUTRA-NR-CellResourceCoordinationReqAck-Container,

 id-Protected-EUTRA-Resources-List,

 id-RequestType,

 id-ServingPLMN,

 id-DRXConfigurationIndicator,

 id-RLCFailureIndication,

 id-UplinkTxDirectCurrentListInformation,

 id-SULAccessIndication,

 id-Protected-EUTRA-Resources-Item,

 id-GNB-DUConfigurationQuery,

 id-GNB-DU-UE-AMBR-UL,

 id-GNB-CU-RRC-Version,

 id-GNB-DU-RRC-Version,

 id-GNBDUOverloadInformation,

 id-NeedforGap,

 id-RRCDeliveryStatusRequest,

 id-RRCDeliveryStatus,

 id-Dedicated-SIDelivery-NeededUE-List,

 id-Dedicated-SIDelivery-NeededUE-Item,

 id-ResourceCoordinationTransferInformation,

 id-Associated-SCell-List,

 id-Associated-SCell-Item,

 id-IgnoreResourceCoordinationContainer,

 id-UAC-Assistance-Info,

 id-RANUEID,

 id-PagingOrigin,

 id-GNB-DU-TNL-Association-To-Remove-Item,

 id-GNB-DU-TNL-Association-To-Remove-List,

 id-NotificationInformation,

 id-TraceActivation,

 id-TraceID,

 id-Neighbour-Cell-Information-List,

 id-Neighbour-Cell-Information-Item,

 id-SymbolAllocInSlot,

 id-NumDLULSymbols,

 id-AdditionalRRMPriorityIndex,

 id-DUCURadioInformationType,

 id-CUDURadioInformationType,

 id-LowerLayerPresenceStatusChange,

 id-Transport-Layer-Address-Info,

 id-BHChannels-ToBeSetup-List,

 id-BHChannels-ToBeSetup-Item,

 id-BHChannels-Setup-List,

 id-BHChannels-Setup-Item,

 id-BHChannels-ToBeModified-Item,

 id-BHChannels-ToBeModified-List,

 id-BHChannels-ToBeReleased-Item,

 id-BHChannels-ToBeReleased-List,

 id-BHChannels-ToBeSetupMod-Item,

 id-BHChannels-ToBeSetupMod-List,

 id-BHChannels-FailedToBeSetup-Item,

 id-BHChannels-FailedToBeSetup-List,

 id-BHChannels-FailedToBeModified-Item,

 id-BHChannels-FailedToBeModified-List,

 id-BHChannels-FailedToBeSetupMod-Item,

 id-BHChannels-FailedToBeSetupMod-List,

 id-BHChannels-Modified-Item,

 id-BHChannels-Modified-List,

 id-BHChannels-SetupMod-Item,

 id-BHChannels-SetupMod-List,

 id-BHChannels-Required-ToBeReleased-Item,

 id-BHChannels-Required-ToBeReleased-List,

 id-BAPAddress,

 id-ConfiguredBAPAddress,

 id-BAPPathID,

 id-BAPRoutingID,

 id-BH-Routing-Information-Added-List,

 id-BH-Routing-Information-Added-List-Item,

 id-BH-Routing-Information-Removed-List,

 id-BH-Routing-Information-Removed-List-Item,

 id-UL-BH-Non-UP-Traffic-Mapping,

 id-Child-Nodes-List,

 id-Child-Nodes-List-Item,

 id-Activated-Cells-to-be-Updated-List,

 id-Activated-Cells-to-be-Updated-List-Item,

 id-IABNumberv4AddressesRequested,

id-IABTNLAddressesRequested,

id-IAB-Allocated-TNL-Address-List,

id-IAB-Allocated-TNL-Address-Item,

id-IAB-TNL-Addresses-To-Remove-List,

 id-IAB-TNL-Addresses-To-Remove-Item,

 id-IPv6Prefix,

 maxCellingNBDU,

 maxnoofCandidateSpCells,

 maxnoofDRBs,

 maxnoofErrors,

 maxnoofIndividualF1ConnectionsToReset,

 maxnoofPotentialSpCells,

 maxnoofSCells,

 maxnoofSRBs,

 maxnoofPagingCells,

 maxnoofTNLAssociations,

 maxCellineNB,

 maxnoofUEIDs,

 maxnoofslots,

 maxnoofBHRLCChannels,

 maxnoofRoutingEntries,

 maxnoofChildIABNodes,

 maxnoofServedCellsIAB,

 maxnoofIndividualTLAsIAB

FROM F1AP-Constants;

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

--

-- RESET ELEMENTARY PROCEDURE

--

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

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

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

--

-- BH Routing Configuration ELEMENTARY PROCEDURE

--

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

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

--

-- BH ROUTING CONFIGURATION

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

BHRoutingConfiguration ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {BHRoutingConfiguration-IEs} } }

BHRoutingConfiguration-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},

 ...

}

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},

 ...

}

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

--

-- BH ROUTING CONFIGURATION ACKNOWLEDGE

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

BHRoutingConfigurationAcknowledge ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {BHRoutingConfigurationAcknowledge-IEs} } }

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

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

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

 ...

}

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

--

-- GNB-DU Configuration ELEMENTARY PROCEDURE

--

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

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

--

-- GNB-DU RESOURCE CONFIGURATION

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

GNBDUResourceConfiguration ::= SEQUENCE {

 protocolIEs ProtocolIE-Container {{ GNBDUResourceConfigurationIEs}},

 ...

}

GNBDUResourceConfigurationIEs F1AP-PROTOCOL-IES ::= {

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

 { ID id-Activated-Cells-to-be-Updated-List CRITICALITY reject TYPE Activated-Cells-to-be-Updated-List PRESENCE optional}|

 { ID id-Child-Nodes-List CRITICALITY reject TYPE Child-Nodes-List PRESENCE optional},

 ...

}

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

--

-- GNB-DU RESOURCE CONFIGURATION ACKNOWLEDGE

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

GNBDUResourceConfigurationAcknowledge ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { { GNBDUResourceConfigurationAcknowledgeIEs} },

 ...

}

GNBDUResourceConfigurationAcknowledgeIEs F1AP-PROTOCOL-IES ::= {

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

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

 ...

}

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

--

-- IAB TNL Address Alloaction ELEMENTARY PROCEDURE

--

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

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

--

-- IAB TNL Address Request

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

IABTNLAddressRequest ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {IABTNLAddressRequestIEs} },

 ...

}

IABTNLAddressRequestIEs F1AP-PROTOCOL-IES ::= {

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

 { ID id-IABNumberv4AddressesRequested CRITICALITY reject TYPE IABNumberv4AddressesRequested PRESENCE optional }|

 { ID id-IABv4AddressesRequested CRITICALITY reject TYPE IAB-TNL-Addresses-Requested PRESENCE optional }|

 { ID id-IABv6AddressesRequested CRITICALITY reject TYPE IAB-TNL-Addresses-Requested PRESENCE optional }|

 { ID id-IAB-TNL-Address-To-Remove-List CRITICALITY reject TYPE TNL-Address-To-Remove-List

 PRESENCE optional },

 ...

}

IAB-TNL-Addresses-To-Remove-List ::= SEQUENCE (SIZE(1..maxnoofIndividualTLAsIAB)) OF ProtocolIE-SingleContainer { { IAB-TNL-Addresses-To-Remove-ItemIEs } }

IAB-TNL-Addresses-To-Remove-ItemIEs F1AP-PROTOCOL-IES::= {

 { ID id-IAB-TNL-Addresses-To-Remove-Item CRITICALITY reject TYPE IAB-TNL-Addresses-To-Remove-Item PRESENCE mandatory},

 ...

}

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

--

-- IAB TNL Address Response

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

IABTNLAddressResponse ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {IABTNLAddressResponseIEs} },

 ...

}

IABTNLAddressResponseIEs F1AP-PROTOCOL-IES ::= {

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

 { ID id-IAB-Allocated-TNL-Address-List CRITICALITY reject TYPE IAB-Allocated-TNL-Address-List PRESENCE optional }|

 { ID id-IPv6Prefix CRITICALITY reject TYPE IPv6Prefix

 PRESENCE optional },

 ...

}

IAB-Allocated-TNL-Address-List ::= SEQUENCE (SIZE(1..maxnoofIndividualTLAsIAB)) OF ProtocolIE-SingleContainer { { IAB-Allocated-TNL-Address-List-ItemIEs } }

IAB-Allocated-TNL-Address-ItemIEs F1AP-PROTOCOL-IES::= {

 { ID id-IAB-Allocated-TNL-Address-Item CRITICALITY reject TYPE IAB-Allocated-TNL-Address-Item PRESENCE mandatory},

 ...

}

-------------------------------------------Change 7-------------------------------------------

### 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-RequestedP-MaxFR2,

 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,

 maxNRARFCN,

 maxnoofErrors,

 maxnoofBPLMNs,

 maxnoofBPLMNsNRminus1,

 maxnoofDLUPTNLInformation,

 maxnoofNrCellBands,

 maxnoofULUPTNLInformation,

 maxnoofQoSFlows,

 maxnoofSliceItems,

 maxnoofSIBTypes,

 maxnoofSITypes,

 maxCellineNB,

 maxnoofExtendedBPLMNs,

 maxnoofAdditionalSIBs,

 maxnoofUACPLMNs,

 maxnoofUACperPLMN

FROM F1AP-Constants

 Criticality,

 ProcedureCode,

 ProtocolIE-ID,

 TriggeringMessage

FROM F1AP-CommonDataTypes

 ProtocolExtensionContainer{},

 F1AP-PROTOCOL-EXTENSION,

 ProtocolIE-SingleContainer{},

 F1AP-PROTOCOL-IES

FROM F1AP-Containers;

-- A

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

-- I

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

 iAB-STC-Info IAB-STC-Info,

 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,

 iAB-STC-Info IAB-STC-Info,

 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 ::= {

 ...

}

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-NRfreqInfo NRFreqInfo,

 sSB-transmissionBandwidth Transmission-Bandwidth,

 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 TransportLayerAddress,

 iABTNLAddressUsage IABTNLAddressUsage OPTIONAL,

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

}

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

 ...

}

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

 IABTNLAddress TransportLayerAddress,

 iPv6Prefix IPv6Prefix OPTIONAL,

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

}

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

 ...

}

IABNumberv4AddressesRequested ::= INTEGER (1..16)

IABTNLAddressUsage ::= ENUMERATED {

 f1c,

 f1u,

 non-f1,

 ...

}

IABTNLAddressesRequested ::= SEQUENCE {

 numF1-C-AddressesRequested INTEGER (1..8) OPTIONAL,

 numF1-U-AddressesRequested INTEGER (1..8) OPTIONAL,

 numNon-F1AddressesRequested INTEGER (1..8) OPTIONAL,

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

}

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

 ...

}

IPv6Prefix ::= BIT STRING (SIZE (64))

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

-------------------------------------------Change 8-------------------------------------------

### 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-BHRoutingConfiguration ProcedureCode ::= xx

id-GNBDUResourceConfiguration ProcedureCode ::= xx

id-IABTNLAddressAllocation ProcedureCode ::= xx

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

--

-- 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

maxnoofBPLMNsNRminus1 INTEGER ::= 11

maxnoofUACPLMNs INTEGER ::= 12

maxnoofUACperPLMN INTEGER ::= 64

maxnoofAdditionalSIBs INTEGER ::= 63

maxnoofslots INTEGER ::= 320

maxnoofTLAs INTEGER ::= 16

maxnoofGTPTLAs INTEGER ::= 16

maxnoofBHRLCChannels INTEGER ::= 16384

maxnoofRoutingEntries INTEGER ::= 1024

maxnoofIABSTCInfo INTEGER ::= 45

maxnoofSymbols INTEGER ::= 14

maxnoofServingCells INTEGER ::= 32

maxnoofDUFSlots INTEGER ::= 320

maxnoofHSNASlots INTEGER ::= 5120

maxnoofServedCellsIAB INTEGER ::= FFS

maxnoofChildIABNodes INTEGER ::= FFS

maxnoofNonUPTrafficMappings INTEGER ::= 5

maxnoofIndividualTLAsIAB INTEGER ::= 40

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

--

-- 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 ::= xxx

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

id-ULBHInfo ProtocolIE-ID ::= xxx

id-BAPAddress ProtocolIE-ID ::= xxx

id-ConfiguredBAPAddress ProtocolIE-ID ::= xxx

id-BAPRoutingID ProtocolIE-ID ::= xxx

id-BAPPathID ProtocolIE-ID ::= xxx

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

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

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

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

id-CPTrafficType ProtocolIE-ID ::= xxx

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

id-NonUPTrafficType ProtocolIE-ID ::= xxx

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

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

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

id-Child-Nodes-List-Item ProtocolIE-ID ::= xxx

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

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

id-IABTNLAddressesRequested ProtocolIE-ID ::= xxx

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

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

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

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

END

-- ASN1STOP

-------------------------------------------End of changes ------------------------------------------