3GPP TSG-RAN WG3 Meeting #129 R3-255797

Bengaluru, India, 25th ~29th Aug, 2025

Title: (TP to TS 38.413 BL CR) Detailed IE encoding and miscellaneous

Agenda Item: 16.2

Source: Huawei,China Telecom, ZTE

Document for: other

1. Introduction

This contribution provides TP to TS 38.413 BL CR on Detailed IE encoding and miscellaneous, based on the progress made during this meeting.

1. TP to TS 38.413 BL CR

***-----------------Start of the First Change-----------------***

### 8.xx.1 Inventory Request

#### 8.xx.1.1 General

The purpose of the Inventory Request procedure is to request the NG-RAN node to perform A-IoT paging over the A-IoT radio. This procedure applies only if the NG-RAN node is a gNB.

#### 8.xx.1.2 Successful Operation



Figure 8.xx.1.2-1: Inventory Request, successful operation.

The A-IoT CN node triggers the procedure by sending an INVENTORY REQUEST message to the NG-RAN node. If the NG-RAN node accepts the request, the NG-RAN node responds with the INVENTORY RESPONSE message.

The NG-RAN node shall, include the same values of the *AIOTF Identifier* IE and *A-IoT Correlation Identifier* IE in the INVENTORY RESPONSE message as received from the INVENTORY REQUEST message.

Upon receiving the *Inventory Assistance Information* IE contained in the *Inventory Request Transfer* IE in the INVENTORY REQUEST message, the NG-RAN node may take the information into account as defined in TS 38.300 [8].

**Interaction with Inventory Report procedure**

When starting the requested inventory, the NG-RAN node shall, include the same values of the *AIOTF Identifier* IE and *A-IoT Correlation Identifier* IE in the INVENTORY REPORT message(s) as received from the INVENTORY REQUEST message

If the *Follow on Command Indication* IE set to "true" is included in the *Inventory Request Transfer* IE in the INVENTORY REQUEST message, the NG-RAN node shall consider that there will be command to be transmitted to the device(s), and shall allocate and include a *RAN A-IoT Device NGAP ID* IE in each *Device Report Item* IE within the *Inventory Report Transfer* IE in the INVENTORY REPORT message(s).

#### 8.xx.1.3 Unsuccessful Operation



Figure 8.xx.1.3-1: Inventory Request, unsuccessful operation.

If the NG-RAN node is not able to perform the inventory operation, it shall send the INVENTORY FAILURE messagewith an appropriate cause value.

#### 8.xx.1.4 Abnormal Conditions

Void.

### 8.xx.2 Inventory Report

#### 8.xx.2.1 General

The purpose of the Inventory Report procedure is to enable the NG-RAN node to provide Inventory Report information to the A-IoT CN node, following a successful Inventory Request procedure. This procedure applies only if the NG-RAN node is a gNB.

#### 8.xx.2.2 Successful Operation



Figure 8.xx.2.2-1: Inventory Report

The NG-RAN node initiates the procedure by sending an INVENTORY REPORT message for the Inventory service.

#### 8.xx.2.3 Abnormal Conditions

Void.

### 8.xx.3 Command Request

#### 8.xx.3.1 General

The purpose of the Command Request procedure is to request the NG-RAN node to transfer the command to the A-IoT device over the A-IoT radio. This procedure applies only if the NG-RAN node is a gNB.

#### 8.xx.3.2 Successful Operation



Figure 8.xx.3.2-1: Command Request, successful operation.

The A-IoT CN node triggers the procedure by sending a COMMAND REQUEST message to the NG-RAN node. In case of successful operation, the NG-RAN node responds with the COMMAND RESPONSE message.

The NG-RAN node shall, include the same values of the *AIOTF Identifier* IE, the *A-IoT Correlation Identifier* IE and the *RAN A-IoT Device NGAP ID* IE in the COMMAND RESPONSE message as received from the COMMAND REQUEST message.

If the *Command Assistance Information* IE is included in the COMMAND REQUEST message, the NG-RAN node, the NG-RAN node may take the information into account as defined in TS 38.300 [8].

#### 8.xx.3.3 Unsuccessful Operation



Figure 8.xx.3.3-1: Command Request, unsuccessful operation.

If the NG-RAN node is not able to transmit the received command, it shall send the COMMAND FAILURE message with an appropriate cause value.

#### 8.xx.3.4 Abnormal Conditions

Void.

***-----------------Start of the Next Change-----------------***

### 9.2.x A-IoT Messages

#### 9.2.x.1 INVENTORY REQUEST

This message is sent by the A-IoT CN node to trigger the NG-RAN node to perform A-IoT paging over the A-IoT radio.

Direction: A-IoT CN node → NG-RAN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | reject |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| Inventory Request Transfer | M |  | OCTET STRING | Containing the *Inventory Request Transfer* IE specified in subclause 9.3.x.1 | YES | reject |

#### 9.2.x.2 INVENTORY RESPONSE

This message is sent by the NG-RAN node to report the successful outcome of the request from the INVENTORY REQUEST message.

Direction: NG-RAN node → A-IoT CN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | reject |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| Inventory Response Transfer | M |  | OCTET STRING | Containing the Inventory *Response Transfer* IE specified in subclause 9.3.x.2 | YES | reject |
| Criticality Diagnostics | O |  | 9.3.1.3 |  | YES | ignore |

#### 9.2.x.3 INVENTORY FAILURE

This message is sent by the NG-RAN node to report the unsuccessful outcome of the request from the INVENTORY REQUEST message.

Direction: NG-RAN node → A-IoT CN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | ignore |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | ignore |
| Inventory Failure Transfer | M |  | OCTET STRING | Containing the *Inventory Failure Transfer* IE specified in subclause 9.3.x.3 | YES | ignore |
| Cause | M |  | 9.3.1.2 |  | YES | ignore |
| Criticality Diagnostics | O |  | 9.3.1.3 |  | YES | ignore |

#### 9.2.x.4 INVENTORY REPORT

This message is sent by the NG-RAN node to provide the inventory report to the A-IoT CN node.

Direction: NG-RAN node → A-IoT CN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | reject |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| Inventory Report Transfer | M |  | OCTET STRING | Containing the *Inventory* *Report Transfer* IE specified in subclause 9.3.x.4 | YES | reject |

#### 9.2.x.5 COMMAND REQUEST

This message is sent by the A-IoT CN node to the gNB to trigger the command transmission over the A-IoT radio.

Direction: A-IoT CN node → NG-RAN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | reject |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  | YES | reject |
| Command Request Transfer | M |  | OCTET STRING | Containing the *Command Request Transfer* IE specified in subclause 9.3.6.5. | YES | reject |

#### 9.2.x.6 COMMAND RESPONSE

This message is sent by the NG-RAN node to provide the command response to the A-IoT CN node.

Direction: NG-RAN node → A-IoT CN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | reject |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  | YES | reject |
| Command Response Transfer | M |  | OCTET STRING | Containing the *Command Response Transfer* IE specified in subclause 9.3.6.5. | YES | reject |
| Criticality Diagnostics | O |  | 9.3.1.3 |  | YES | ignore |

#### 9.2.x.7 COMMAND FAILURE

This message is sent by the NG-RAN node to report the unsuccessful transmission of the command to the A-IoT CN node.

Direction: NG-RAN node → A-IoT CN node

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AIOTF Identifier | M |  | 9.3.3.xx2 |  | YES | ignore |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | ignore |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  | YES | ignore |
| Command Failure Transfer | M |  | OCTET STRING | Containing the *Command Failure Transfer* IE specified in subclause 9.3.6.5. | YES | ignore |
| Cause | M |  | 9.3.1.2 |  | YES | ignore |
| Criticality Diagnostics | O |  | 9.3.1.3 |  | YES | ignore |

***-----------------Start of the Next Change-----------------***

#### 9.3.1.aa1 Reader Index

This IE represents identifier of a Reader within a gNB.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Reader Index | M |  | INTEGER (1..65536, …) |  |

#### 9.3.1.aa2 A-IoT Area ID

This IE is used to uniquely identify an A-IoT Area.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| PLMN Identity | M |  | 9.3.3.5 |  |
| NID | O |  | 9.3.3.42 |  |
| A-IoT Area Code | M |  | OCTET STRING (SIZE(3)) |  |

#### 9.3.1.bb1 A-IoT Support

This IE indicates the support of A-IoT.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Support | M |  | ENUMERATED (A-IoT only, A-IoT and NR Uu, ...) |  |

***-----------------Start of the Next Change-----------------***

#### 9.3.3.xx1 A-IoT Correlation Identifier

This IE uniquely identifies an A-IoT session within an AIOTF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | OCTET STRING |  |

#### 9.3.3.xx2 AIOTF Identifier

This IE uniquely identifies the AIOTF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| AIOTF Identifier | M |  | OCTET STRING | Coded as the *NfInstanceId* IE defined in TS 29.571 [35]. |

#### 9.3.3.xx3 Requested Service Area Information

This IE includes the Requested Service Area Information for the A-IoT inventory.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **Requested Reader List** |  | *0..1* |  |  |
| **>Requested Reader Item** |  | *1..<maxnoofReaders>* |  |  |
| >>Global gNB ID | M |  | 9.3.1.6 |  |
| >>Reader Index | M |  | 9.3.1.aa1 |  |
| **Requested A-IoT Area List** |  | *0..1* |  |  |
| **>Requested A-IoT Area Item** |  | *1..<maxnoofAIoTAreas>* |  |  |
| >>A-IoT Area ID | M |  | 9.3.1.aa2 |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofReaders | Maximum no. of Readers. Value is 65535. |
| maxnoofAIoTAreas | Maximum no. of A-IoT Areas. Value is 256. |

#### 9.3.3.xx4 Inventory Assistance Information

This IE includes the assistance information for the A-IoT Inventory Service.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Expected D2R Message Size | M |  | INTEGER (1..256,…) | Unit: Byte.  This IE indicates the expected size of the A-IoT NAS PDU carried in Inventory Report. |
| Approximate Number of Target A-IoT Devices | O |  | INTEGER (1..65535, …) |  |
| Time Interval | O |  | INTEGER (1..256, ...) | Unit: 0.1 second. |

#### 9.3.3.xx5 A-IoT Device Identification Requested

This IE represents the Requested Identity of the A-IoT device(s).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| CHOICE *Device Identification for Paging* | M |  |  |  |
| *>Single Device* |  |  |  |  |
| >>Single Device Identity | M |  | BIT STRING (SIZE(1..1024, ...)) | Includes the AIoT device Identifier defined in TS 23.369 [z]. |
| *>Group Devices* |  |  |  |  |
| >>Group Device Identity | M |  | BIT STRING (SIZE(1..1024, ...)) | Includes the Filtering Information defined in TS 23.369 [z]. |

#### 9.3.3.yy1 RAN A-IoT Device NGAP ID

This IE uniquely identifies the A-IoT Device over the NG interface within the NG-RAN node within a A-IoT Session, as described in TS 38.401 [2].

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| RAN A-IoT Device NGAP ID | M |  | INTEGER (0..232 -1) |  |

#### 9.3.3.yy3 Command Assistance Information

This IE includes the assistance information for the A-IoT Command Service.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Estimate of Expected D2R Message Size | O |  | INTEGER (1.. 128, ...) | Unit: Byte.  This IE indicates the size of the A-IoT NAS PDU carried in Command Response. |

***-----------------Start of the Next Change-----------------***

### 9.3.x AIOTF Related IEs

#### 9.3.x.1 Inventory Request Transfer

This IE provides the inventory request related information from the AIOTF to the NG-RAN node.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| A-IoT Device Identification Requested | M |  | 9.3.3.xx5 |  | YES | reject |
| Requested Service Area Information | M |  | 9.3.3.xx3 |  | YES | reject |
| Inventory Assistance Information | M |  | 9.3.3.xx4 |  | YES | reject |
| Follow on Command Indication | O |  | ENUMERATED (true, ...) | This IE indicates that there is command(s) to be transmitted. | YES | reject |

#### 9.3.x.2 Inventory Response Transfer

This IE provides the inventory response related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| Criticality Diagnostics | O |  | 9.3.1.3 |  |

#### 9.3.x.3 Inventory Failure Transfer

This IE provides the inventory failure related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| Cause | M |  | 9.3.1.2 |  |
| Criticality Diagnostics | O |  | 9.3.1.3 |  |

#### 9.3.x.4 Inventory Report Transfer

This IE provides the inventory report related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| Global gNB ID | M |  | 9.3.1.6 |  |
| **Reader Report List** |  | *1* |  |  |
| **>Reader Report Item** |  | *1..< maxnoofReaders>* |  |  |
| >>Reader Index | M |  | 9.3.1.aa1 |  |
| **>>Device Report List** |  | *1* |  |  |
| **>>>Device Report Item** |  | *1..<maxnoofDevices>* |  |  |
| >>>>A-IoT NAS PDU | M |  | OCTET STRING |  |
| >>>>RAN A-IoT Device NGAP ID | O |  | 9.3.3.yy1 |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofReaders | Maximum no. of Readers served by a gNB. Value is 65535. |
| maxnoofDevices | Maximum no. of Devices within a reader. Value is 65535. |

#### 9.3.x.5 Command Request Transfer

This IE provides the command request related information from the AIOTF to the NG-RAN node.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  | YES | reject |
| A-IoT NAS PDU | M |  | OCTET STRING |  | YES | reject |
| Command Assistance Information | O |  | 9.3.3.yy3 |  | YES | reject |

#### 9.3.x.6 Command Response Transfer

This IE provides the command response related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  |
| A-IoT NAS PDU | M |  | OCTET STRING |  |
| Criticality Diagnostics | O |  | 9.3.1.3 |  |

#### 9.3.x.7 Command Failure Transfer

This IE provides the command failure related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| RAN A-IoT Device NGAP ID | M |  | 9.3.3.yy1 |  |
| Cause | M |  | 9.3.1.2 |  |
| Criticality Diagnostics | O |  | 9.3.1.3 |  |

#### 9.3.x.8 AIOT Session Release Command Transfer

This IE provides the A-IoT session release command related information from the AIOTF to the NG-RAN node.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  | YES | reject |
| Cause | M |  | 9.3.1.2 |  | YES | ignore |

#### 9.3.x.9 AIOT Session Release Complete Transfer

This IE provides the A-IoT session release complete related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| Criticality Diagnostics | O |  | 9.3.1.3 |  |

#### 9.3.x.10 AIOT Session Release Request Transfer

This IE provides the A-IoT session release request related information from the NG-RAN node to the AIOTF.

In indirect communication, this IE is transparent to the AMF.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| A-IoT Correlation Identifier | M |  | 9.3.3.xx1 |  |
| Cause | M |  | 9.3.1.2 |  |

***-----------------Start of the Next Change-----------------***

### 9.4.3 Elementary Procedure Definitions

-- ASN1START

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

--

-- Elementary Procedure definitions

--

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

NGAP-PDU-Descriptions {

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

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-PDU-Descriptions (0)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

Criticality,

ProcedureCode

FROM NGAP-CommonDataTypes

AMFConfigurationUpdate,

AMFConfigurationUpdateAcknowledge,

AMFConfigurationUpdateFailure,

AMFCPRelocationIndication,

AMFStatusIndication,

BroadcastSessionModificationFailure,

BroadcastSessionModificationRequest,

BroadcastSessionModificationResponse,

BroadcastSessionReleaseRequest,

BroadcastSessionReleaseRequired,

BroadcastSessionReleaseResponse,

BroadcastSessionSetupFailure,

BroadcastSessionSetupRequest,

BroadcastSessionSetupResponse,

BroadcastSessionTransportFailure,

BroadcastSessionTransportRequest,

BroadcastSessionTransportResponse,

CellTrafficTrace,

ConnectionEstablishmentIndication,

DeactivateTrace,

DistributionReleaseRequest,

DistributionReleaseResponse,

DistributionSetupFailure,

DistributionSetupRequest,

DistributionSetupResponse,

DownlinkNASTransport,

DownlinkNonUEAssociatedNRPPaTransport,

DownlinkRANConfigurationTransfer,

DownlinkRANEarlyStatusTransfer,

DownlinkRANStatusTransfer,

DownlinkUEAssociatedNRPPaTransport,

ErrorIndication,

HandoverCancel,

HandoverCancelAcknowledge,

HandoverCommand,

HandoverFailure,

HandoverNotify,

HandoverPreparationFailure,

HandoverRequest,

HandoverRequestAcknowledge,

HandoverRequired,

HandoverSuccess,

InitialContextSetupFailure,

InitialContextSetupRequest,

InitialContextSetupResponse,

InitialUEMessage,

LocationReport,

LocationReportingControl,

LocationReportingFailureIndication,

MTCommunicationHandlingRequest,

MTCommunicationHandlingResponse,

MTCommunicationHandlingFailure,

MulticastSessionActivationFailure,

MulticastSessionActivationRequest,

MulticastSessionActivationResponse,

MulticastSessionDeactivationRequest,

MulticastSessionDeactivationResponse,

MulticastSessionUpdateFailure,

MulticastSessionUpdateRequest,

MulticastSessionUpdateResponse,

MulticastGroupPaging,

NASNonDeliveryIndication,

NGReset,

NGResetAcknowledge,

NGSetupFailure,

NGSetupRequest,

NGSetupResponse,

OverloadStart,

OverloadStop,

Paging,

PathSwitchRequest,

PathSwitchRequestAcknowledge,

PathSwitchRequestFailure,

PDUSessionResourceModifyConfirm,

PDUSessionResourceModifyIndication,

PDUSessionResourceModifyRequest,

PDUSessionResourceModifyResponse,

PDUSessionResourceNotify,

PDUSessionResourceReleaseCommand,

PDUSessionResourceReleaseResponse,

PDUSessionResourceSetupRequest,

PDUSessionResourceSetupResponse,

PrivateMessage,

PWSCancelRequest,

PWSCancelResponse,

PWSFailureIndication,

PWSRestartIndication,

RANConfigurationUpdate,

RANConfigurationUpdateAcknowledge,

RANConfigurationUpdateFailure,

RANCPRelocationIndication,

RANPagingRequest,

RerouteNASRequest,

RetrieveUEInformation,

RRCInactiveTransitionReport,

SecondaryRATDataUsageReport,

TimingSynchronisationStatusRequest,

TimingSynchronisationStatusResponse,

TimingSynchronisationStatusFailure,

TimingSynchronisationStatusReport,

TraceFailureIndication,

TraceStart,

UEContextModificationFailure,

UEContextModificationRequest,

UEContextModificationResponse,

UEContextReleaseCommand,

UEContextReleaseComplete,

UEContextReleaseRequest,

UEContextResumeRequest,

UEContextResumeResponse,

UEContextResumeFailure,

UEContextSuspendRequest,

UEContextSuspendResponse,

UEContextSuspendFailure,

UEInformationTransfer,

UERadioCapabilityCheckRequest,

UERadioCapabilityCheckResponse,

UERadioCapabilityIDMappingRequest,

UERadioCapabilityIDMappingResponse,

UERadioCapabilityInfoIndication,

UETNLABindingReleaseRequest,

UplinkNASTransport,

UplinkNonUEAssociatedNRPPaTransport,

UplinkRANConfigurationTransfer,

UplinkRANEarlyStatusTransfer,

UplinkRANStatusTransfer,

UplinkUEAssociatedNRPPaTransport,

WriteReplaceWarningRequest,

WriteReplaceWarningResponse,

UplinkRIMInformationTransfer,

DownlinkRIMInformationTransfer,

InventoryRequest,

InventoryResponse,

InventoryFailure,

InventoryReport,

CommandRequest,

CommandResponse,

CommandFailure,

AIOTSessionReleaseCommand,

AIOTSessionReleaseComplete,

AIOTSessionReleaseRequest

FROM NGAP-PDU-Contents

id-AMFConfigurationUpdate,

id-AMFCPRelocationIndication,

id-AMFStatusIndication,

id-BroadcastSessionModification,

id-BroadcastSessionRelease,

id-BroadcastSessionReleaseRequired,

id-BroadcastSessionSetup,

id-BroadcastSessionTransport,

id-CellTrafficTrace,

id-ConnectionEstablishmentIndication,

id-DeactivateTrace,

id-DistributionRelease,

id-DistributionSetup,

id-DownlinkNASTransport,

id-DownlinkNonUEAssociatedNRPPaTransport,

id-DownlinkRANConfigurationTransfer,

id-DownlinkRANEarlyStatusTransfer,

id-DownlinkRANStatusTransfer,

id-DownlinkRIMInformationTransfer,

id-DownlinkUEAssociatedNRPPaTransport,

id-ErrorIndication,

id-HandoverCancel,

id-HandoverNotification,

id-HandoverPreparation,

id-HandoverResourceAllocation,

id-HandoverSuccess,

id-InitialContextSetup,

id-InitialUEMessage,

id-LocationReport,

id-LocationReportingControl,

id-LocationReportingFailureIndication,

id-MTCommunicationHandling,

id-MulticastGroupPaging,

id-MulticastSessionActivation,

id-MulticastSessionDeactivation,

id-MulticastSessionUpdate,

id-NASNonDeliveryIndication,

id-NGReset,

id-NGSetup,

id-OverloadStart,

id-OverloadStop,

id-Paging,

id-PathSwitchRequest,

id-PDUSessionResourceModify,

id-PDUSessionResourceModifyIndication,

id-PDUSessionResourceNotify,

id-PDUSessionResourceRelease,

id-PDUSessionResourceSetup,

id-PrivateMessage,

id-PWSCancel,

id-PWSFailureIndication,

id-PWSRestartIndication,

id-RANConfigurationUpdate,

id-RANCPRelocationIndication,

id-RANPagingRequest,

id-RerouteNASRequest,

id-RetrieveUEInformation,

id-RRCInactiveTransitionReport,

id-SecondaryRATDataUsageReport,

id-TimingSynchronisationStatus,

id-TimingSynchronisationStatusReport,

id-TraceFailureIndication,

id-TraceStart,

id-UEContextModification,

id-UEContextRelease,

id-UEContextReleaseRequest,

id-UEContextResume,

id-UEContextSuspend,

id-UEInformationTransfer,

id-UERadioCapabilityCheck,

id-UERadioCapabilityIDMapping,

id-UERadioCapabilityInfoIndication,

id-UETNLABindingRelease,

id-UplinkNASTransport,

id-UplinkNonUEAssociatedNRPPaTransport,

id-UplinkRANConfigurationTransfer,

id-UplinkRANEarlyStatusTransfer,

id-UplinkRANStatusTransfer,

id-UplinkRIMInformationTransfer,

id-UplinkUEAssociatedNRPPaTransport,

id-WriteReplaceWarning,

id-InventoryRequest,

id-InventoryReport,

id-CommandRequest,

id-AIOTSessionRelease,

id-AIOTSessionReleaseRequest

FROM NGAP-Constants;

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

--

-- Interface Elementary Procedure Class

--

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

NGAP-ELEMENTARY-PROCEDURE ::= CLASS {

&InitiatingMessage ,

&SuccessfulOutcome OPTIONAL,

&UnsuccessfulOutcome OPTIONAL,

&procedureCode ProcedureCode UNIQUE,

&criticality Criticality DEFAULT ignore

}

WITH SYNTAX {

INITIATING MESSAGE &InitiatingMessage

[SUCCESSFUL OUTCOME &SuccessfulOutcome]

[UNSUCCESSFUL OUTCOME &UnsuccessfulOutcome]

PROCEDURE CODE &procedureCode

[CRITICALITY &criticality]

}

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

--

-- Interface PDU Definition

--

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

NGAP-PDU ::= CHOICE {

initiatingMessage InitiatingMessage,

successfulOutcome SuccessfulOutcome,

unsuccessfulOutcome UnsuccessfulOutcome,

...

}

InitiatingMessage ::= SEQUENCE {

procedureCode NGAP-ELEMENTARY-PROCEDURE.&procedureCode ({NGAP-ELEMENTARY-PROCEDURES}),

criticality NGAP-ELEMENTARY-PROCEDURE.&criticality ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value NGAP-ELEMENTARY-PROCEDURE.&InitiatingMessage ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

SuccessfulOutcome ::= SEQUENCE {

procedureCode NGAP-ELEMENTARY-PROCEDURE.&procedureCode ({NGAP-ELEMENTARY-PROCEDURES}),

criticality NGAP-ELEMENTARY-PROCEDURE.&criticality ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value NGAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

UnsuccessfulOutcome ::= SEQUENCE {

procedureCode NGAP-ELEMENTARY-PROCEDURE.&procedureCode ({NGAP-ELEMENTARY-PROCEDURES}),

criticality NGAP-ELEMENTARY-PROCEDURE.&criticality ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value NGAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({NGAP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

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

--

-- Interface Elementary Procedure List

--

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

NGAP-ELEMENTARY-PROCEDURES NGAP-ELEMENTARY-PROCEDURE ::= {

NGAP-ELEMENTARY-PROCEDURES-CLASS-1 |

NGAP-ELEMENTARY-PROCEDURES-CLASS-2,

...

}

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

aMFConfigurationUpdate |

broadcastSessionModification |

broadcastSessionRelease |

broadcastSessionSetup |

broadcastSessionTransport |

distributionSetup |

distributionRelease |

handoverCancel |

handoverPreparation |

handoverResourceAllocation |

initialContextSetup |

mTCommunicationHandling |

multicastSessionActivation |

multicastSessionDeactivation |

multicastSessionUpdate |

nGReset |

nGSetup |

pathSwitchRequest |

pDUSessionResourceModify |

pDUSessionResourceModifyIndication |

pDUSessionResourceRelease |

pDUSessionResourceSetup |

pWSCancel |

rANConfigurationUpdate |

timingSynchronisationStatus |

uEContextModification |

uEContextRelease |

uEContextResume |

uEContextSuspend |

uERadioCapabilityCheck |

uERadioCapabilityIDMapping |

writeReplaceWarning |

inventoryRequest |

commandRequest |

aIOTSessionRelease ,

...

}

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

aMFCPRelocationIndication |

aMFStatusIndication |

broadcastSessionReleaseRequired |

cellTrafficTrace |

connectionEstablishmentIndication |

deactivateTrace |

downlinkNASTransport |

downlinkNonUEAssociatedNRPPaTransport |

downlinkRANConfigurationTransfer |

downlinkRANEarlyStatusTransfer |

downlinkRANStatusTransfer |

downlinkRIMInformationTransfer |

downlinkUEAssociatedNRPPaTransport |

errorIndication |

handoverNotification |

handoverSuccess |

initialUEMessage |

locationReport |

locationReportingControl |

locationReportingFailureIndication |

multicastGroupPaging |

nASNonDeliveryIndication |

overloadStart |

overloadStop |

paging |

pDUSessionResourceNotify |

privateMessage |

pWSFailureIndication |

pWSRestartIndication |

rANCPRelocationIndication |

rANPagingRequest |

rerouteNASRequest |

retrieveUEInformation |

rRCInactiveTransitionReport |

secondaryRATDataUsageReport |

timingSynchronisationStatusReport |

traceFailureIndication |

traceStart |

uEContextReleaseRequest |

uEInformationTransfer |

uERadioCapabilityInfoIndication |

uETNLABindingRelease |

uplinkNASTransport |

uplinkNonUEAssociatedNRPPaTransport |

uplinkRANConfigurationTransfer |

uplinkRANEarlyStatusTransfer |

uplinkRANStatusTransfer |

uplinkRIMInformationTransfer |

uplinkUEAssociatedNRPPaTransport |

inventoryReport |

aIOTSessionReleaseRequest ,

...

}

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

--

-- Interface Elementary Procedures

--

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

aMFConfigurationUpdate NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AMFConfigurationUpdate

SUCCESSFUL OUTCOME AMFConfigurationUpdateAcknowledge

UNSUCCESSFUL OUTCOME AMFConfigurationUpdateFailure

PROCEDURE CODE id-AMFConfigurationUpdate

CRITICALITY reject

}

aMFCPRelocationIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AMFCPRelocationIndication

PROCEDURE CODE id-AMFCPRelocationIndication

CRITICALITY reject

}

aMFStatusIndication NGAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE AMFStatusIndication

PROCEDURE CODE id-AMFStatusIndication

CRITICALITY ignore

}

broadcastSessionModification NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastSessionModificationRequest

SUCCESSFUL OUTCOME BroadcastSessionModificationResponse

UNSUCCESSFUL OUTCOME BroadcastSessionModificationFailure

PROCEDURE CODE id-BroadcastSessionModification

CRITICALITY reject

}

broadcastSessionRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastSessionReleaseRequest

SUCCESSFUL OUTCOME BroadcastSessionReleaseResponse

PROCEDURE CODE id-BroadcastSessionRelease

CRITICALITY reject

}

broadcastSessionReleaseRequired NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastSessionReleaseRequired

PROCEDURE CODE id-BroadcastSessionReleaseRequired

CRITICALITY reject

}

broadcastSessionSetup NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastSessionSetupRequest

SUCCESSFUL OUTCOME BroadcastSessionSetupResponse

UNSUCCESSFUL OUTCOME BroadcastSessionSetupFailure

PROCEDURE CODE id-BroadcastSessionSetup

CRITICALITY reject

}

broadcastSessionTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastSessionTransportRequest

SUCCESSFUL OUTCOME BroadcastSessionTransportResponse

UNSUCCESSFUL OUTCOME BroadcastSessionTransportFailure

PROCEDURE CODE id-BroadcastSessionTransport

CRITICALITY reject

}

cellTrafficTrace NGAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE CellTrafficTrace

PROCEDURE CODE id-CellTrafficTrace

CRITICALITY ignore

}

connectionEstablishmentIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ConnectionEstablishmentIndication

PROCEDURE CODE id-ConnectionEstablishmentIndication

CRITICALITY reject

}

deactivateTrace NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DeactivateTrace

PROCEDURE CODE id-DeactivateTrace

CRITICALITY ignore

}

distributionSetup NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DistributionSetupRequest

SUCCESSFUL OUTCOME DistributionSetupResponse

UNSUCCESSFUL OUTCOME DistributionSetupFailure

PROCEDURE CODE id-DistributionSetup

CRITICALITY reject

}

distributionRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DistributionReleaseRequest

SUCCESSFUL OUTCOME DistributionReleaseResponse

PROCEDURE CODE id-DistributionRelease

CRITICALITY reject

}

downlinkNASTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkNASTransport

PROCEDURE CODE id-DownlinkNASTransport

CRITICALITY ignore

}

downlinkNonUEAssociatedNRPPaTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkNonUEAssociatedNRPPaTransport

PROCEDURE CODE id-DownlinkNonUEAssociatedNRPPaTransport

CRITICALITY ignore

}

downlinkRANConfigurationTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkRANConfigurationTransfer

PROCEDURE CODE id-DownlinkRANConfigurationTransfer

CRITICALITY ignore

}

downlinkRANEarlyStatusTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkRANEarlyStatusTransfer

PROCEDURE CODE id-DownlinkRANEarlyStatusTransfer

CRITICALITY ignore

}

downlinkRANStatusTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkRANStatusTransfer

PROCEDURE CODE id-DownlinkRANStatusTransfer

CRITICALITY ignore

}

downlinkUEAssociatedNRPPaTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkUEAssociatedNRPPaTransport

PROCEDURE CODE id-DownlinkUEAssociatedNRPPaTransport

CRITICALITY ignore

}

errorIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ErrorIndication

PROCEDURE CODE id-ErrorIndication

CRITICALITY ignore

}

handoverCancel NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverCancel

SUCCESSFUL OUTCOME HandoverCancelAcknowledge

PROCEDURE CODE id-HandoverCancel

CRITICALITY reject

}

handoverNotification NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverNotify

PROCEDURE CODE id-HandoverNotification

CRITICALITY ignore

}

handoverPreparation NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverRequired

SUCCESSFUL OUTCOME HandoverCommand

UNSUCCESSFUL OUTCOME HandoverPreparationFailure

PROCEDURE CODE id-HandoverPreparation

CRITICALITY reject

}

handoverResourceAllocation NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverRequest

SUCCESSFUL OUTCOME HandoverRequestAcknowledge

UNSUCCESSFUL OUTCOME HandoverFailure

PROCEDURE CODE id-HandoverResourceAllocation

CRITICALITY reject

}

handoverSuccess NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverSuccess

PROCEDURE CODE id-HandoverSuccess

CRITICALITY ignore

}

initialContextSetup NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE InitialContextSetupRequest

SUCCESSFUL OUTCOME InitialContextSetupResponse

UNSUCCESSFUL OUTCOME InitialContextSetupFailure

PROCEDURE CODE id-InitialContextSetup

CRITICALITY reject

}

initialUEMessage NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE InitialUEMessage

PROCEDURE CODE id-InitialUEMessage

CRITICALITY ignore

}

locationReport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE LocationReport

PROCEDURE CODE id-LocationReport

CRITICALITY ignore

}

locationReportingControl NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE LocationReportingControl

PROCEDURE CODE id-LocationReportingControl

CRITICALITY ignore

}

locationReportingFailureIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE LocationReportingFailureIndication

PROCEDURE CODE id-LocationReportingFailureIndication

CRITICALITY ignore

}

mTCommunicationHandling NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MTCommunicationHandlingRequest

SUCCESSFUL OUTCOME MTCommunicationHandlingResponse

UNSUCCESSFUL OUTCOME MTCommunicationHandlingFailure

PROCEDURE CODE id-MTCommunicationHandling

CRITICALITY reject

}

multicastSessionActivation NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastSessionActivationRequest

SUCCESSFUL OUTCOME MulticastSessionActivationResponse

UNSUCCESSFUL OUTCOME MulticastSessionActivationFailure

PROCEDURE CODE id-MulticastSessionActivation

CRITICALITY reject

}

multicastSessionDeactivation NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastSessionDeactivationRequest

SUCCESSFUL OUTCOME MulticastSessionDeactivationResponse

PROCEDURE CODE id-MulticastSessionDeactivation

CRITICALITY reject

}

multicastSessionUpdate NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastSessionUpdateRequest

SUCCESSFUL OUTCOME MulticastSessionUpdateResponse

UNSUCCESSFUL OUTCOME MulticastSessionUpdateFailure

PROCEDURE CODE id-MulticastSessionUpdate

CRITICALITY reject

}

multicastGroupPaging NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastGroupPaging

PROCEDURE CODE id-MulticastGroupPaging

CRITICALITY ignore

}

nASNonDeliveryIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NASNonDeliveryIndication

PROCEDURE CODE id-NASNonDeliveryIndication

CRITICALITY ignore

}

nGReset NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NGReset

SUCCESSFUL OUTCOME NGResetAcknowledge

PROCEDURE CODE id-NGReset

CRITICALITY reject

}

nGSetup NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NGSetupRequest

SUCCESSFUL OUTCOME NGSetupResponse

UNSUCCESSFUL OUTCOME NGSetupFailure

PROCEDURE CODE id-NGSetup

CRITICALITY reject

}

overloadStart NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE OverloadStart

PROCEDURE CODE id-OverloadStart

CRITICALITY ignore

}

overloadStop NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE OverloadStop

PROCEDURE CODE id-OverloadStop

CRITICALITY reject

}

paging NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE Paging

PROCEDURE CODE id-Paging

CRITICALITY ignore

}

pathSwitchRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PathSwitchRequest

SUCCESSFUL OUTCOME PathSwitchRequestAcknowledge

UNSUCCESSFUL OUTCOME PathSwitchRequestFailure

PROCEDURE CODE id-PathSwitchRequest

CRITICALITY reject

}

pDUSessionResourceModify NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDUSessionResourceModifyRequest

SUCCESSFUL OUTCOME PDUSessionResourceModifyResponse

PROCEDURE CODE id-PDUSessionResourceModify

CRITICALITY reject

}

pDUSessionResourceModifyIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDUSessionResourceModifyIndication

SUCCESSFUL OUTCOME PDUSessionResourceModifyConfirm

PROCEDURE CODE id-PDUSessionResourceModifyIndication

CRITICALITY reject

}

pDUSessionResourceNotify NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDUSessionResourceNotify

PROCEDURE CODE id-PDUSessionResourceNotify

CRITICALITY ignore

}

pDUSessionResourceRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDUSessionResourceReleaseCommand

SUCCESSFUL OUTCOME PDUSessionResourceReleaseResponse

PROCEDURE CODE id-PDUSessionResourceRelease

CRITICALITY reject

}

pDUSessionResourceSetup NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDUSessionResourceSetupRequest

SUCCESSFUL OUTCOME PDUSessionResourceSetupResponse

PROCEDURE CODE id-PDUSessionResourceSetup

CRITICALITY reject

}

privateMessage NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PrivateMessage

PROCEDURE CODE id-PrivateMessage

CRITICALITY ignore

}

pWSCancel NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSCancelRequest

SUCCESSFUL OUTCOME PWSCancelResponse

PROCEDURE CODE id-PWSCancel

CRITICALITY reject

}

pWSFailureIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSFailureIndication

PROCEDURE CODE id-PWSFailureIndication

CRITICALITY ignore

}

pWSRestartIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSRestartIndication

PROCEDURE CODE id-PWSRestartIndication

CRITICALITY ignore

}

rANConfigurationUpdate NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RANConfigurationUpdate

SUCCESSFUL OUTCOME RANConfigurationUpdateAcknowledge

UNSUCCESSFUL OUTCOME RANConfigurationUpdateFailure

PROCEDURE CODE id-RANConfigurationUpdate

CRITICALITY reject

}

rANCPRelocationIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RANCPRelocationIndication

PROCEDURE CODE id-RANCPRelocationIndication

CRITICALITY reject

}

rANPagingRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RANPagingRequest

PROCEDURE CODE id-RANPagingRequest

CRITICALITY ignore

}

rerouteNASRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RerouteNASRequest

PROCEDURE CODE id-RerouteNASRequest

CRITICALITY reject

}

retrieveUEInformation NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RetrieveUEInformation

PROCEDURE CODE id-RetrieveUEInformation

CRITICALITY reject

}

rRCInactiveTransitionReport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RRCInactiveTransitionReport

PROCEDURE CODE id-RRCInactiveTransitionReport

CRITICALITY ignore

}

secondaryRATDataUsageReport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SecondaryRATDataUsageReport

PROCEDURE CODE id-SecondaryRATDataUsageReport

CRITICALITY ignore

}

timingSynchronisationStatus NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TimingSynchronisationStatusRequest

SUCCESSFUL OUTCOME TimingSynchronisationStatusResponse

UNSUCCESSFUL OUTCOME TimingSynchronisationStatusFailure

PROCEDURE CODE id-TimingSynchronisationStatus

CRITICALITY reject

}

timingSynchronisationStatusReport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TimingSynchronisationStatusReport

PROCEDURE CODE id-TimingSynchronisationStatusReport

CRITICALITY ignore

}

traceFailureIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TraceFailureIndication

PROCEDURE CODE id-TraceFailureIndication

CRITICALITY ignore

}

traceStart NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TraceStart

PROCEDURE CODE id-TraceStart

CRITICALITY ignore

}

uEContextModification NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextModificationRequest

SUCCESSFUL OUTCOME UEContextModificationResponse

UNSUCCESSFUL OUTCOME UEContextModificationFailure

PROCEDURE CODE id-UEContextModification

CRITICALITY reject

}

uEContextRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextReleaseCommand

SUCCESSFUL OUTCOME UEContextReleaseComplete

PROCEDURE CODE id-UEContextRelease

CRITICALITY reject

}

uEContextReleaseRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextReleaseRequest

PROCEDURE CODE id-UEContextReleaseRequest

CRITICALITY ignore

}

uEContextResume NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextResumeRequest

SUCCESSFUL OUTCOME UEContextResumeResponse

UNSUCCESSFUL OUTCOME UEContextResumeFailure

PROCEDURE CODE id-UEContextResume

CRITICALITY reject

}

uEContextSuspend NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextSuspendRequest

SUCCESSFUL OUTCOME UEContextSuspendResponse

UNSUCCESSFUL OUTCOME UEContextSuspendFailure

PROCEDURE CODE id-UEContextSuspend

CRITICALITY reject

}

uEInformationTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEInformationTransfer

PROCEDURE CODE id-UEInformationTransfer

CRITICALITY reject

}

uERadioCapabilityCheck NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UERadioCapabilityCheckRequest

SUCCESSFUL OUTCOME UERadioCapabilityCheckResponse

PROCEDURE CODE id-UERadioCapabilityCheck

CRITICALITY reject

}

uERadioCapabilityIDMapping NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UERadioCapabilityIDMappingRequest

SUCCESSFUL OUTCOME UERadioCapabilityIDMappingResponse

PROCEDURE CODE id-UERadioCapabilityIDMapping

CRITICALITY reject

}

uERadioCapabilityInfoIndication NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UERadioCapabilityInfoIndication

PROCEDURE CODE id-UERadioCapabilityInfoIndication

CRITICALITY ignore

}

uETNLABindingRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UETNLABindingReleaseRequest

PROCEDURE CODE id-UETNLABindingRelease

CRITICALITY ignore

}

uplinkNASTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkNASTransport

PROCEDURE CODE id-UplinkNASTransport

CRITICALITY ignore

}

uplinkNonUEAssociatedNRPPaTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkNonUEAssociatedNRPPaTransport

PROCEDURE CODE id-UplinkNonUEAssociatedNRPPaTransport

CRITICALITY ignore

}

uplinkRANConfigurationTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkRANConfigurationTransfer

PROCEDURE CODE id-UplinkRANConfigurationTransfer

CRITICALITY ignore

}

uplinkRANEarlyStatusTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkRANEarlyStatusTransfer

PROCEDURE CODE id-UplinkRANEarlyStatusTransfer

CRITICALITY reject

}

uplinkRANStatusTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkRANStatusTransfer

PROCEDURE CODE id-UplinkRANStatusTransfer

CRITICALITY ignore

}

uplinkUEAssociatedNRPPaTransport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkUEAssociatedNRPPaTransport

PROCEDURE CODE id-UplinkUEAssociatedNRPPaTransport

CRITICALITY ignore

}

writeReplaceWarning NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE WriteReplaceWarningRequest

SUCCESSFUL OUTCOME WriteReplaceWarningResponse

PROCEDURE CODE id-WriteReplaceWarning

CRITICALITY reject

}

uplinkRIMInformationTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UplinkRIMInformationTransfer

PROCEDURE CODE id-UplinkRIMInformationTransfer

CRITICALITY ignore

}

downlinkRIMInformationTransfer NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DownlinkRIMInformationTransfer

PROCEDURE CODE id-DownlinkRIMInformationTransfer

CRITICALITY ignore

}

inventoryRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE InventoryRequest

SUCCESSFUL OUTCOME InventoryResponse

UNSUCCESSFUL OUTCOME InventoryFailure

PROCEDURE CODE id-InventoryRequest

CRITICALITY reject

}

inventoryReport NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE InventoryReport

PROCEDURE CODE id-InventoryReport

CRITICALITY reject

}

commandRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CommandRequest

SUCCESSFUL OUTCOME CommandResponse

UNSUCCESSFUL OUTCOME CommandFailure

PROCEDURE CODE id-CommandRequest

CRITICALITY reject

}

aIOTSessionRelease NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AIOTSessionReleaseCommand

SUCCESSFUL OUTCOME AIOTSessionReleaseComplete

PROCEDURE CODE id-AIOTSessionRelease

CRITICALITY reject

}

aIOTSessionReleaseRequest NGAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AIOTSessionReleaseRequest

PROCEDURE CODE id-AIOTSessionReleaseRequest

CRITICALITY reject

}

END

-- ASN1STOP

### 9.4.4 PDU Definitions

-- ASN1START

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

--

-- PDU definitions for NGAP.

--

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

NGAP-PDU-Contents {

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

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

A2X-PC5-QoS-Parameters,

AerialUEsubscriptionInformation,

AIoT-CorrelationIdentifier,

AIOTFIdentifier,

AIOTSessionReleaseCommandTransfer,

AIOTSessionReleaseCompleteTransfer,

AIOTSessionReleaseRequestTransfer,

AIoT-Support,

AllowedNSSAI,

AMFName,

AMFSetID,

AMF-TNLAssociationSetupList,

AMF-TNLAssociationToAddList,

AMF-TNLAssociationToRemoveList,

AMF-TNLAssociationToUpdateList,

AMF-UE-NGAP-ID,

AssistanceDataForPaging,

AssociatedSessionID,

AUN3DeviceAccessInfo,

AuthenticatedIndication,

BroadcastCancelledAreaList,

BroadcastCompletedAreaList,

BroadcastTransportFailureTransfer,

BroadcastTransportRequestTransfer,

BroadcastTransportResponseTransfer,

CancelAllWarningMessages,

Cause,

CellIDListForRestart,

CEmodeBrestricted,

CEmodeBSupport-Indicator,

CNAssistedRANTuning,

CommandRequestTransfer,

CommandResponseTransfer,

CommandFailureTransfer, ConcurrentWarningMessageInd,

CoreNetworkAssistanceInformationForInactive,

CPTransportLayerInformation,

CriticalityDiagnostics,

DataCodingScheme,

DirectForwardingPathAvailability,

DL-CP-SecurityInformation,

DL-Signalling,

EarlyStatusTransfer-TransparentContainer,

EDT-Session,

EmergencyAreaIDListForRestart,

EmergencyFallbackIndicator,

EN-DCSONConfigurationTransfer,

EndIndication,

Enhanced-CoverageRestriction,

ERedCapIndication,

EUTRA-CGI,

EUTRA-PagingeDRXInformation,

Extended-AMFName,

Extended-ConnectedTime,

Extended-RANNodeName,

FiveGCAction,

FiveG-ProSeAuthorized,

FiveG-ProSePC5QoSParameters,

FiveG-S-TMSI,

GlobalRANNodeID,

GUAMI,

HandoverFlag,

HandoverType,

IAB-Authorized,

IABNodeIndication,

IAB-Supported,

IMSVoiceSupportIndicator,

IndexToRFSP,

InfoOnRecommendedCellsAndRANNodesForPaging,

IntersystemSONConfigurationTransfer,

InventoryRequestTransfer,

InventoryResponseTransfer,

InventoryFailureTransfer,

InventoryReportTransfer,

LAI,

LocationReportingRequestType,

LTE-A2X-ServicesAuthorized,

LTEM-Indication,

LTEUESidelinkAggregateMaximumBitrate,

LTEV2XServicesAuthorized,

MaskedIMEISV,

MBS-AreaSessionID,

MBS-DistributionReleaseRequestTransfer,

MBS-DistributionSetupRequestTransfer,

MBS-DistributionSetupResponseTransfer,

MBS-DistributionSetupUnsuccessfulTransfer,

MBS-ServiceArea,

MBS-SessionID,

MBSSessionReleaseResponseTransfer,

MBSSessionSetupOrModFailureTransfer,

MBSSessionSetupOrModRequestTransfer,

MBSSessionSetupOrModResponseTransfer,

MDTPLMNList,

MDTPLMNModificationList,

MessageIdentifier,

MobileIAB-Authorized,

MobileIABNodeIndication,

MobileIAB-Supported,

MobilityRestrictionList,

MulticastGroupPagingAreaList,

MulticastSessionActivationRequestTransfer,

MulticastSessionDeactivationRequestTransfer,

MulticastSessionUpdateRequestTransfer,

NAS-PDU,

NASSecurityParametersFromNGRAN,

NB-IoT-DefaultPagingDRX,

NB-IoT-PagingDRX,

NB-IoT-Paging-eDRXInfo,

NB-IoT-UEPriority,

NetworkControlledRepeaterAuthorized,

NewSecurityContextInd,

NGRAN-CGI,

NGRAN-TNLAssociationToRemoveList,

NGRANTraceID,

NID,

NoPDUSessionIndication,

NotifySourceNGRANNode,

NPN-AccessInformation,

NR-A2X-ServicesAuthorized,

NR-CGI,

NR-PagingeDRXInformation,

NRPPa-PDU,

NRUESidelinkAggregateMaximumBitrate,

NRV2XServicesAuthorized,

NumberOfBroadcastsRequested,

OverloadResponse,

OverloadStartNSSAIList,

PagingAssisDataforCEcapabUE,

PagingCause,

PagingDRX,

PagingOrigin,

PagingPolicyDifferentiation,

PagingPriority,

Partially-Allowed-NSSAI,

PC5QoSParameters,

PDUSessionAggregateMaximumBitRate,

PDUSessionListMTCommHReq,

PDUSessionResourceAdmittedList,

PDUSessionResourceFailedToModifyListModCfm,

PDUSessionResourceFailedToModifyListModRes,

PDUSessionResourceFailedToResumeListRESReq,

PDUSessionResourceFailedToResumeListRESRes,

PDUSessionResourceFailedToSetupListCxtFail,

PDUSessionResourceFailedToSetupListCxtRes,

PDUSessionResourceFailedToSetupListHOAck,

PDUSessionResourceFailedToSetupListPSReq,

PDUSessionResourceFailedToSetupListSURes,

PDUSessionResourceHandoverList,

PDUSessionResourceListCxtRelCpl,

PDUSessionResourceListCxtRelReq,

PDUSessionResourceListHORqd,

PDUSessionResourceModifyListModCfm,

PDUSessionResourceModifyListModInd,

PDUSessionResourceModifyListModReq,

PDUSessionResourceModifyListModRes,

PDUSessionResourceNotifyList,

PDUSessionResourceReleasedListNot,

PDUSessionResourceReleasedListPSAck,

PDUSessionResourceReleasedListPSFail,

PDUSessionResourceReleasedListRelRes,

PDUSessionResourceResumeListRESReq,

PDUSessionResourceResumeListRESRes,

PDUSessionResourceSecondaryRATUsageList,

PDUSessionResourceSetupListCxtReq,

PDUSessionResourceSetupListCxtRes,

PDUSessionResourceSetupListHOReq,

PDUSessionResourceSetupListSUReq,

PDUSessionResourceSetupListSURes,

PDUSessionResourceSuspendListSUSReq,

PDUSessionResourceSwitchedList,

PDUSessionResourceToBeSwitchedDLList,

PDUSessionResourceToReleaseListHOCmd,

PDUSessionResourceToReleaseListRelCmd,

PEIPSassistanceInformation,

PLMNIdentity,

PLMNSupportList,

PrivacyIndicator,

PWSFailedCellIDList,

QMCConfigInfo,

QMCDeactivation,

RAN-AIOT-Device-NGAP-ID,

RANNodeName,

RANPagingPriority,

RANStatusTransfer-TransparentContainer,

RANTimingSynchronisationStatusInfo,

RAN-TSSRequestType,

RAN-TSSScope,

RAN-UE-NGAP-ID,

RedCapIndication,

RedirectionVoiceFallback,

RelativeAMFCapacity,

RepetitionPeriod,

ResetType,

RGLevelWirelineAccessCharacteristics,

RIMInformationTransfer,

RoutingID,

RRCEstablishmentCause,

RRCInactiveTransitionReportRequest,

RRCState,

SecurityContext,

SecurityKey,

SerialNumber,

ServedGUAMIList,

SliceSupportList,

SLPositioningRangingServiceInfo,

S-NSSAI,

SONConfigurationTransfer,

SourceToTarget-AMFInformationReroute,

SourceToTarget-TransparentContainer,

SRVCCOperationPossible,

SupportedTAList,

Suspend-Request-Indication,

Suspend-Response-Indication,

TAI,

TAIListForPaging,

TAIListForRestart,

TargetID,

TargetNSSAIInformation,

TargettoSource-Failure-TransparentContainer,

TargetToSource-TransparentContainer,

TimeSyncAssistanceInfo,

TimeToWait,

TNLAssociationList,

TraceActivation,

TrafficLoadReductionIndication,

TransportLayerAddress,

UEAggregateMaximumBitRate,

UE-associatedLogicalNG-connectionList,

UECapabilityInfoRequest,

UEContextRequest,

UE-DifferentiationInfo,

UE-NGAP-IDs,

UEPagingIdentity,

UEPresenceInAreaOfInterestList,

UERadioCapability,

UERadioCapabilityForPaging,

UERadioCapabilityID,

UERetentionInformation,

UESecurityCapabilities,

UESliceMaximumBitRateList,

UE-UP-CIoT-Support,

UL-CP-SecurityInformation,

UnavailableGUAMIList,

URI-address,

UserLocationInformation,

WarningAreaCoordinates,

WarningAreaList,

WarningMessageContents,

WarningSecurityInfo,

WarningType,

WUS-Assistance-Information,

XrDeviceWith2Rx

FROM NGAP-IEs

PrivateIE-Container{},

ProtocolExtensionContainer{},

ProtocolIE-Container{},

ProtocolIE-ContainerList{},

ProtocolIE-ContainerPair{},

ProtocolIE-SingleContainer{},

NGAP-PRIVATE-IES,

NGAP-PROTOCOL-EXTENSION,

NGAP-PROTOCOL-IES,

NGAP-PROTOCOL-IES-PAIR

FROM NGAP-Containers

id-A2X-PC5-QoS-Parameters,

id-AerialUEsubscriptionInformation,

id-AIoT-CorrelationIdentifier,

id-AIOTFIdentifier,

id-AIOTSessionReleaseCommandTransfer,

id-AIOTSessionReleaseCompleteTransfer,

id-AIOTSessionReleaseRequestTransfer,

id-AIoT-Support,

id-AllowedNSSAI,

id-AMFName,

id-AMFOverloadResponse,

id-AMFSetID,

id-AMF-TNLAssociationFailedToSetupList,

id-AMF-TNLAssociationSetupList,

id-AMF-TNLAssociationToAddList,

id-AMF-TNLAssociationToRemoveList,

id-AMF-TNLAssociationToUpdateList,

id-AMFTrafficLoadReductionIndication,

id-AMF-UE-NGAP-ID,

id-AssistanceDataForPaging,

id-AssociatedSessionID,

id-AUN3DeviceAccessInfo,

id-AuthenticatedIndication,

id-BroadcastCancelledAreaList,

id-BroadcastCompletedAreaList,

id-BroadcastTransportFailureTransfer,

id-BroadcastTransportRequestTransfer,

id-BroadcastTransportResponseTransfer,

id-CancelAllWarningMessages,

id-Cause,

id-CellIDListForRestart,

id-CEmodeBrestricted,

id-CEmodeBSupport-Indicator,

id-CNAssistedRANTuning,

id-CommandRequestTransfer,

id-CommandResponseTransfer,

id-CommandFailureTransfer,

id-ConcurrentWarningMessageInd,

id-CoreNetworkAssistanceInformationForInactive,

id-CriticalityDiagnostics,

id-DataCodingScheme,

id-DefaultPagingDRX,

id-DirectForwardingPathAvailability,

id-DL-CP-SecurityInformation,

id-DL-Signalling,

id-EarlyStatusTransfer-TransparentContainer,

id-EDT-Session,

id-EmergencyAreaIDListForRestart,

id-EmergencyFallbackIndicator,

id-ENDC-SONConfigurationTransferDL,

id-ENDC-SONConfigurationTransferUL,

id-EndIndication,

id-Enhanced-CoverageRestriction,

id-ERedCapIndication,

id-EUTRA-CGI,

id-EUTRA-PagingeDRXInformation,

id-Extended-AMFName,

id-Extended-ConnectedTime,

id-Extended-RANNodeName,

id-FiveGCAction,

id-FiveG-ProSeAuthorized,

id-FiveG-ProSePC5QoSParameters,

id-FiveG-ProSeUEPC5AggregateMaximumBitRate,

id-FiveG-S-TMSI,

id-GlobalRANNodeID,

id-GUAMI,

id-HandoverFlag,

id-HandoverType,

id-IAB-Authorized,

id-IABNodeIndication,

id-IAB-Supported,

id-IMSVoiceSupportIndicator,

id-IndexToRFSP,

id-InfoOnRecommendedCellsAndRANNodesForPaging,

id-IntersystemSONConfigurationTransferDL,

id-IntersystemSONConfigurationTransferUL,

id-InventoryRequestTransfer,

id-InventoryResponseTransfer,

id-InventoryFailureTransfer,

id-InventoryReportTransfer,

id-LocationReportingRequestType,

id-LTE-A2X-ServicesAuthorized,

id-LTE-A2X-UE-PC5-AggregateMaximumBitRate,

id-LTEM-Indication,

id-LTEUESidelinkAggregateMaximumBitrate,

id-LTEV2XServicesAuthorized,

id-ManagementBasedMDTPLMNList,

id-ManagementBasedMDTPLMNModificationList,

id-MaskedIMEISV,

id-MBS-AreaSessionID,

id-MBS-DistributionReleaseRequestTransfer,

id-MBS-DistributionSetupRequestTransfer,

id-MBS-DistributionSetupResponseTransfer,

id-MBS-DistributionSetupUnsuccessfulTransfer,

id-MBS-ServiceArea,

id-MBS-SessionID,

id-MBSSessionModificationFailureTransfer,

id-MBSSessionModificationRequestTransfer,

id-MBSSessionModificationResponseTransfer,

id-MBSSessionReleaseResponseTransfer,

id-MBSSessionSetupFailureTransfer,

id-MBSSessionSetupRequestTransfer,

id-MBSSessionSetupResponseTransfer,

id-MessageIdentifier,

id-MobileIAB-Authorized,

id-MobileIABNodeIndication,

id-MobileIAB-Supported,

id-MobilityRestrictionList,

id-MulticastGroupPagingAreaList,

id-MulticastSessionActivationRequestTransfer,

id-MulticastSessionDeactivationRequestTransfer,

id-MulticastSessionUpdateRequestTransfer,

id-NASC,

id-NAS-PDU,

id-NASSecurityParametersFromNGRAN,

id-NB-IoT-DefaultPagingDRX,

id-NB-IoT-PagingDRX,

id-NB-IoT-Paging-eDRXInfo,

id-NB-IoT-UEPriority,

id-NetworkControlledRepeaterAuthorized,

id-NewAMF-UE-NGAP-ID,

id-NewGUAMI,

id-NewSecurityContextInd,

id-NGAP-Message,

id-NGRAN-CGI,

id-NGRAN-TNLAssociationToRemoveList,

id-NGRANTraceID,

id-NoPDUSessionIndication,

id-NotifySourceNGRANNode,

id-NPN-AccessInformation,

id-NR-A2X-ServicesAuthorized,

id-NR-A2X-UE-PC5-AggregateMaximumBitRate,

id-NR-PagingeDRXInformation,

id-NRPPa-PDU,

id-NRUESidelinkAggregateMaximumBitrate,

id-NRV2XServicesAuthorized,

id-NumberOfBroadcastsRequested,

id-OldAMF,

id-OverloadStartNSSAIList,

id-PagingAssisDataforCEcapabUE,

id-PagingCause,

id-PagingDRX,

id-PagingOrigin,

id-PagingPolicyDifferentiation,

id-PagingPriority,

id-Partially-Allowed-NSSAI,

id-PC5QoSParameters,

id-PDUSessionListMTCommHReq,

id-PDUSessionResourceAdmittedList,

id-PDUSessionResourceFailedToModifyListModCfm,

id-PDUSessionResourceFailedToModifyListModRes,

id-PDUSessionResourceFailedToResumeListRESReq,

id-PDUSessionResourceFailedToResumeListRESRes,

id-PDUSessionResourceFailedToSetupListCxtFail,

id-PDUSessionResourceFailedToSetupListCxtRes,

id-PDUSessionResourceFailedToSetupListHOAck,

id-PDUSessionResourceFailedToSetupListPSReq,

id-PDUSessionResourceFailedToSetupListSURes,

id-PDUSessionResourceHandoverList,

id-PDUSessionResourceListCxtRelCpl,

id-PDUSessionResourceListCxtRelReq,

id-PDUSessionResourceListHORqd,

id-PDUSessionResourceModifyListModCfm,

id-PDUSessionResourceModifyListModInd,

id-PDUSessionResourceModifyListModReq,

id-PDUSessionResourceModifyListModRes,

id-PDUSessionResourceNotifyList,

id-PDUSessionResourceReleasedListNot,

id-PDUSessionResourceReleasedListPSAck,

id-PDUSessionResourceReleasedListPSFail,

id-PDUSessionResourceReleasedListRelRes,

id-PDUSessionResourceResumeListRESReq,

id-PDUSessionResourceResumeListRESRes,

id-PDUSessionResourceSecondaryRATUsageList,

id-PDUSessionResourceSetupListCxtReq,

id-PDUSessionResourceSetupListCxtRes,

id-PDUSessionResourceSetupListHOReq,

id-PDUSessionResourceSetupListSUReq,

id-PDUSessionResourceSetupListSURes,

id-PDUSessionResourceSuspendListSUSReq,

id-PDUSessionResourceSwitchedList,

id-PDUSessionResourceToBeSwitchedDLList,

id-PDUSessionResourceToReleaseListHOCmd,

id-PDUSessionResourceToReleaseListRelCmd,

id-PEIPSassistanceInformation,

id-PLMNSupportList,

id-PrivacyIndicator,

id-PWSFailedCellIDList,

id-QMCConfigInfo,

id-QMCDeactivation,

id-RAN-AIOT-Device-NGAP-ID,

id-RANNodeName,

id-RANPagingPriority,

id-RANStatusTransfer-TransparentContainer,

id-RANTimingSynchronisationStatusInfo,

id-RAN-TSSRequestType,

id-RAN-TSSScope,

id-RAN-UE-NGAP-ID,

id-RedCapIndication,

id-RedirectionVoiceFallback,

id-RelativeAMFCapacity,

id-RepetitionPeriod,

id-ResetType,

id-RGLevelWirelineAccessCharacteristics,

id-RIMInformationTransfer,

id-RoutingID,

id-RRCEstablishmentCause,

id-RRCInactiveTransitionReportRequest,

id-RRC-Resume-Cause,

id-RRCState,

id-SecurityContext,

id-SecurityKey,

id-SelectedNID,

id-SelectedPLMNIdentity,

id-SerialNumber,

id-ServedGUAMIList,

id-SliceSupportList,

id-S-NSSAI,

id-SONConfigurationTransferDL,

id-SONConfigurationTransferUL,

id-SourceAMF-UE-NGAP-ID,

id-SourceToTarget-AMFInformationReroute,

id-SourceToTarget-TransparentContainer,

id-SRVCCOperationPossible,

id-SupportedTAList,

id-Suspend-Request-Indication,

id-Suspend-Response-Indication,

id-TAI,

id-TAIListForPaging,

id-TAIListForRestart,

id-TargetID,

id-TargetNSSAIInformation,

id-TargettoSource-Failure-TransparentContainer,

id-TargetToSource-TransparentContainer,

id-TimeSyncAssistanceInfo,

id-TimeToWait,

id-TNGFIdentityInformation,

id-TraceActivation,

id-TraceCollectionEntityIPAddress,

id-TraceCollectionEntityURI,

id-TWIFIdentityInformation,

id-UEAggregateMaximumBitRate,

id-UE-associatedLogicalNG-connectionList,

id-UECapabilityInfoRequest,

id-UEContextRequest,

id-UE-DifferentiationInfo,

id-UE-NGAP-IDs,

id-UEPagingIdentity,

id-UEPresenceInAreaOfInterestList,

id-UERadioCapability,

id-UERadioCapability-EUTRA-Format,

id-UERadioCapabilityForPaging,

id-UERadioCapabilityID,

id-UERetentionInformation,

id-UESecurityCapabilities,

id-UESliceMaximumBitRateList,

id-UE-UP-CIoT-Support,

id-UL-CP-SecurityInformation,

id-UnavailableGUAMIList,

id-UserLocationInformation,

id-W-AGFIdentityInformation,

id-WarningAreaCoordinates,

id-WarningAreaList,

id-WarningMessageContents,

id-WarningSecurityInfo,

id-WarningType,

id-WUS-Assistance-Information,

id-XrDeviceWith2Rx,

id-SLPositioningRangingServiceInfo,

id-ExtendedOldAMF

FROM NGAP-Constants;

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

--

-- PDU SESSION MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- PDU Session Resource Setup Elementary Procedure

--

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

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

--

-- PDU SESSION RESOURCE SETUP REQUEST

--

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

PDUSessionResourceSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceSetupRequestIEs} },

...

}

PDUSessionResourceSetupRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-NAS-PDU CRITICALITY reject TYPE NAS-PDU PRESENCE optional }|

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

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

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

...

}

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

--

-- PDU SESSION RESOURCE SETUP RESPONSE

--

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

PDUSessionResourceSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceSetupResponseIEs} },

...

}

PDUSessionResourceSetupResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

...

}

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

--

-- PDU Session Resource Release Elementary Procedure

--

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

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

--

-- PDU SESSION RESOURCE RELEASE COMMAND

--

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

PDUSessionResourceReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceReleaseCommandIEs} },

...

}

PDUSessionResourceReleaseCommandIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-NAS-PDU CRITICALITY ignore TYPE NAS-PDU PRESENCE optional }|

{ ID id-PDUSessionResourceToReleaseListRelCmd CRITICALITY reject TYPE PDUSessionResourceToReleaseListRelCmd PRESENCE mandatory },

...

}

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

--

-- PDU SESSION RESOURCE RELEASE RESPONSE

--

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

PDUSessionResourceReleaseResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceReleaseResponseIEs} },

...

}

PDUSessionResourceReleaseResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- PDU Session Resource Modify Elementary Procedure

--

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

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

--

-- PDU SESSION RESOURCE MODIFY REQUEST

--

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

PDUSessionResourceModifyRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceModifyRequestIEs} },

...

}

PDUSessionResourceModifyRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-PDUSessionResourceModifyListModReq CRITICALITY reject TYPE PDUSessionResourceModifyListModReq PRESENCE mandatory },

...

}

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

--

-- PDU SESSION RESOURCE MODIFY RESPONSE

--

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

PDUSessionResourceModifyResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceModifyResponseIEs} },

...

}

PDUSessionResourceModifyResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

...

}

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

--

-- PDU Session Resource Notify Elementary Procedure

--

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

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

--

-- PDU SESSION RESOURCE NOTIFY

--

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

PDUSessionResourceNotify ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceNotifyIEs} },

...

}

PDUSessionResourceNotifyIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- PDU Session Resource Modify Indication Elementary Procedure

--

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

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

--

-- PDU SESSION RESOURCE MODIFY INDICATION

--

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

PDUSessionResourceModifyIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceModifyIndicationIEs} },

...

}

PDUSessionResourceModifyIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- PDU SESSION RESOURCE MODIFY CONFIRM

--

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

PDUSessionResourceModifyConfirm ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceModifyConfirmIEs} },

...

}

PDUSessionResourceModifyConfirmIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- UE CONTEXT MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- Initial Context Setup Elementary Procedure

--

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

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

--

-- INITIAL CONTEXT SETUP REQUEST

--

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

InitialContextSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InitialContextSetupRequestIEs} },

...

}

InitialContextSetupRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-OldAMF CRITICALITY reject TYPE AMFName PRESENCE optional }|

{ ID id-UEAggregateMaximumBitRate CRITICALITY reject TYPE UEAggregateMaximumBitRate PRESENCE conditional }|

-- The above IE shall be present if the PDU Session Resource Setup List IE is present

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

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

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

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

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

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

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

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

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

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

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

{ ID id-NAS-PDU CRITICALITY ignore TYPE NAS-PDU PRESENCE optional }|

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

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

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

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

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

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

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

{ ID id-IAB-Authorized CRITICALITY ignore TYPE IAB-Authorized PRESENCE optional }|

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

{ ID id-Extended-ConnectedTime CRITICALITY ignore TYPE Extended-ConnectedTime PRESENCE optional }|

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

{ ID id-NRV2XServicesAuthorized CRITICALITY ignore TYPE NRV2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEV2XServicesAuthorized CRITICALITY ignore TYPE LTEV2XServicesAuthorized PRESENCE optional }|

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

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

{ ID id-PC5QoSParameters CRITICALITY ignore TYPE PC5QoSParameters PRESENCE optional }|

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

{ ID id-UE-UP-CIoT-Support CRITICALITY ignore TYPE UE-UP-CIoT-Support PRESENCE optional }|

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

{ ID id-ManagementBasedMDTPLMNList CRITICALITY ignore TYPE MDTPLMNList PRESENCE optional }|

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

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

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

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

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

{ ID id-FiveG-ProSeAuthorized CRITICALITY ignore TYPE FiveG-ProSeAuthorized PRESENCE optional }|

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5QoSParameters CRITICALITY ignore TYPE FiveG-ProSePC5QoSParameters PRESENCE optional }|

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

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

{ ID id-NR-A2X-ServicesAuthorized CRITICALITY ignore TYPE NR-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-LTE-A2X-ServicesAuthorized CRITICALITY ignore TYPE LTE-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-NR-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-LTE-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-A2X-PC5-QoS-Parameters CRITICALITY ignore TYPE A2X-PC5-QoS-Parameters PRESENCE optional }|

{ ID id-MobileIAB-Authorized CRITICALITY ignore TYPE MobileIAB-Authorized PRESENCE optional }|

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

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

{ ID id-ExtendedOldAMF CRITICALITY ignore TYPE Extended-AMFName PRESENCE optional },

...

}

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

--

-- INITIAL CONTEXT SETUP RESPONSE

--

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

InitialContextSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InitialContextSetupResponseIEs} },

...

}

InitialContextSetupResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- INITIAL CONTEXT SETUP FAILURE

--

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

InitialContextSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InitialContextSetupFailureIEs} },

...

}

InitialContextSetupFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- UE Context Release Request Elementary Procedure

--

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

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

--

-- UE CONTEXT RELEASE REQUEST

--

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

UEContextReleaseRequest ::= SEQUENCE {

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

...

}

UEContextReleaseRequest-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- UE Context Release Elementary Procedure

--

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

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

--

-- UE CONTEXT RELEASE COMMAND

--

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

UEContextReleaseCommand ::= SEQUENCE {

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

...

}

UEContextReleaseCommand-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-UE-NGAP-IDs CRITICALITY reject TYPE UE-NGAP-IDs PRESENCE mandatory }|

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

...

}

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

--

-- UE CONTEXT RELEASE COMPLETE

--

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

UEContextReleaseComplete ::= SEQUENCE {

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

...

}

UEContextReleaseComplete-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

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

...

}

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

--

-- UE Context Resume Elementary Procedure

--

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

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

--

-- UE CONTEXT RESUME REQUEST

--

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

UEContextResumeRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextResumeRequestIEs} },

...

}

UEContextResumeRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

{ ID id-Suspend-Request-Indication CRITICALITY ignore TYPE Suspend-Request-Indication PRESENCE optional }|

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

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

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

...

}

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

--

-- UE CONTEXT RESUME RESPONSE

--

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

UEContextResumeResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextResumeResponseIEs} },

...

}

UEContextResumeResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

{ ID id-Suspend-Response-Indication CRITICALITY ignore TYPE Suspend-Response-Indication PRESENCE optional }|

{ ID id-Extended-ConnectedTime CRITICALITY ignore TYPE Extended-ConnectedTime PRESENCE optional }|

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

...

}

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

--

-- UE CONTEXT RESUME FAILURE

--

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

UEContextResumeFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextResumeFailureIEs} },

...

}

UEContextResumeFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- UE Context Suspend Elementary Procedure

--

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

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

--

-- UE CONTEXT SUSPEND REQUEST

--

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

UEContextSuspendRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextSuspendRequestIEs} },

...

}

UEContextSuspendRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

...

}

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

--

-- UE CONTEXT SUSPEND RESPONSE

--

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

UEContextSuspendResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextSuspendResponseIEs} },

...

}

UEContextSuspendResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- UE CONTEXT SUSPEND FAILURE

--

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

UEContextSuspendFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextSuspendFailureIEs} },

...

}

UEContextSuspendFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- UE Context Modification Elementary Procedure

--

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

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

--

-- UE CONTEXT MODIFICATION REQUEST

--

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

UEContextModificationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextModificationRequestIEs} },

...

}

UEContextModificationRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

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

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

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

{ ID id-NewAMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE optional }|

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

{ ID id-NewGUAMI CRITICALITY reject TYPE GUAMI PRESENCE optional }|

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

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

{ ID id-IAB-Authorized CRITICALITY ignore TYPE IAB-Authorized PRESENCE optional }|

{ ID id-NRV2XServicesAuthorized CRITICALITY ignore TYPE NRV2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEV2XServicesAuthorized CRITICALITY ignore TYPE LTEV2XServicesAuthorized PRESENCE optional }|

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

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

{ ID id-PC5QoSParameters CRITICALITY ignore TYPE PC5QoSParameters PRESENCE optional }|

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

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

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

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

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

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

{ ID id-ManagementBasedMDTPLMNModificationList CRITICALITY ignore TYPE MDTPLMNModificationList PRESENCE optional }|

{ ID id-FiveG-ProSeAuthorized CRITICALITY ignore TYPE FiveG-ProSeAuthorized PRESENCE optional }|

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5QoSParameters CRITICALITY ignore TYPE FiveG-ProSePC5QoSParameters PRESENCE optional }|

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

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

{ ID id-NR-A2X-ServicesAuthorized CRITICALITY ignore TYPE NR-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-LTE-A2X-ServicesAuthorized CRITICALITY ignore TYPE LTE-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-NR-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-LTE-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-A2X-PC5-QoS-Parameters CRITICALITY ignore TYPE A2X-PC5-QoS-Parameters PRESENCE optional }|

{ ID id-MobileIAB-Authorized CRITICALITY ignore TYPE MobileIAB-Authorized PRESENCE optional }|

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

...

}

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

--

-- UE CONTEXT MODIFICATION RESPONSE

--

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

UEContextModificationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextModificationResponseIEs} },

...

}

UEContextModificationResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- UE CONTEXT MODIFICATION FAILURE

--

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

UEContextModificationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UEContextModificationFailureIEs} },

...

}

UEContextModificationFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- RRC INACTIVE TRANSITION REPORT

--

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

RRCInactiveTransitionReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {RRCInactiveTransitionReportIEs} },

...

}

RRCInactiveTransitionReportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-UserLocationInformation CRITICALITY ignore TYPE UserLocationInformation PRESENCE mandatory },

...

}

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

--

-- Retrieve UE Information

--

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

RetrieveUEInformation ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { RetrieveUEInformationIEs} },

...

}

RetrieveUEInformationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-FiveG-S-TMSI CRITICALITY reject TYPE FiveG-S-TMSI PRESENCE mandatory },

...

}

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

-- UE Information Transfer

--

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

UEInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEInformationTransferIEs} },

...

}

UEInformationTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-FiveG-S-TMSI CRITICALITY reject TYPE FiveG-S-TMSI PRESENCE mandatory }|

{ ID id-NB-IoT-UEPriority CRITICALITY ignore TYPE NB-IoT-UEPriority PRESENCE optional }|

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

{ ID id-S-NSSAI CRITICALITY ignore TYPE S-NSSAI PRESENCE optional }|

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

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

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

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional },

...

}

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

--

-- RAN CP Relocation Indication

--

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

RANCPRelocationIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { RANCPRelocationIndicationIEs} },

...

}

RANCPRelocationIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-FiveG-S-TMSI CRITICALITY reject TYPE FiveG-S-TMSI PRESENCE mandatory }|

{ ID id-EUTRA-CGI CRITICALITY ignore TYPE EUTRA-CGI PRESENCE mandatory }|

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

{ ID id-UL-CP-SecurityInformation CRITICALITY reject TYPE UL-CP-SecurityInformation PRESENCE mandatory },

...

}

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

--

-- UE MOBILITY MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- Handover Preparation Elementary Procedure

--

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

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

--

-- HANDOVER REQUIRED

--

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

HandoverRequired ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {HandoverRequiredIEs} },

...

}

HandoverRequiredIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

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

{ ID id-SourceToTarget-TransparentContainer CRITICALITY reject TYPE SourceToTarget-TransparentContainer PRESENCE mandatory },

...

}

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

--

-- HANDOVER COMMAND

--

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

HandoverCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {HandoverCommandIEs} },

...

}

HandoverCommandIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-NASSecurityParametersFromNGRAN CRITICALITY reject TYPE NASSecurityParametersFromNGRAN PRESENCE conditional }|

-- The above IE shall be present if the HandoverType IE is set to the value “5GStoEPPS” or “5GStoUTRAN”

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

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

{ ID id-TargetToSource-TransparentContainer CRITICALITY reject TYPE TargetToSource-TransparentContainer PRESENCE mandatory }|

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

...

}

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

--

-- HANDOVER PREPARATION FAILURE

--

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

HandoverPreparationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {HandoverPreparationFailureIEs} },

...

}

HandoverPreparationFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-TargettoSource-Failure-TransparentContainer CRITICALITY ignore TYPE TargettoSource-Failure-TransparentContainer PRESENCE optional },

...

}

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

--

-- Handover Resource Allocation Elementary Procedure

--

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

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

--

-- HANDOVER REQUEST

--

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

HandoverRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {HandoverRequestIEs} },

...

}

HandoverRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

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

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

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

{ ID id-NASC CRITICALITY reject TYPE NAS-PDU PRESENCE optional }|

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

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

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

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

{ ID id-SourceToTarget-TransparentContainer CRITICALITY reject TYPE SourceToTarget-TransparentContainer PRESENCE mandatory }|

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

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

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

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

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

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

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

{ ID id-IAB-Authorized CRITICALITY reject TYPE IAB-Authorized PRESENCE optional }|

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

{ ID id-NRV2XServicesAuthorized CRITICALITY ignore TYPE NRV2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEV2XServicesAuthorized CRITICALITY ignore TYPE LTEV2XServicesAuthorized PRESENCE optional }|

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

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

{ ID id-PC5QoSParameters CRITICALITY ignore TYPE PC5QoSParameters PRESENCE optional }|

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

{ ID id-UE-UP-CIoT-Support CRITICALITY ignore TYPE UE-UP-CIoT-Support PRESENCE optional }|

{ ID id-ManagementBasedMDTPLMNList CRITICALITY ignore TYPE MDTPLMNList PRESENCE optional }|

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

{ ID id-Extended-ConnectedTime CRITICALITY ignore TYPE Extended-ConnectedTime PRESENCE optional }|

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

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

{ ID id-FiveG-ProSeAuthorized CRITICALITY ignore TYPE FiveG-ProSeAuthorized PRESENCE optional }|

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5QoSParameters CRITICALITY ignore TYPE FiveG-ProSePC5QoSParameters PRESENCE optional }|

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

{ ID id-NR-A2X-ServicesAuthorized CRITICALITY ignore TYPE NR-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-LTE-A2X-ServicesAuthorized CRITICALITY ignore TYPE LTE-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-NR-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-LTE-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-A2X-PC5-QoS-Parameters CRITICALITY ignore TYPE A2X-PC5-QoS-Parameters PRESENCE optional }|

{ ID id-MobileIAB-Authorized CRITICALITY ignore TYPE MobileIAB-Authorized PRESENCE optional }|

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

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

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

...

}

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

--

-- HANDOVER REQUEST ACKNOWLEDGE

--

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

HandoverRequestAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {HandoverRequestAcknowledgeIEs} },

...

}

HandoverRequestAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-TargetToSource-TransparentContainer CRITICALITY reject TYPE TargetToSource-TransparentContainer PRESENCE mandatory }|

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

{ ID id-NPN-AccessInformation CRITICALITY reject TYPE NPN-AccessInformation PRESENCE optional }|

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

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

...

}

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

--

-- HANDOVER FAILURE

--

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

HandoverFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { HandoverFailureIEs} },

...

}

HandoverFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-TargettoSource-Failure-TransparentContainer CRITICALITY ignore TYPE TargettoSource-Failure-TransparentContainer PRESENCE optional },

...

}

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

--

-- Handover Notification Elementary Procedure

--

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

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

--

-- HANDOVER NOTIFY

--

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

HandoverNotify ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { HandoverNotifyIEs} },

...

}

HandoverNotifyIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- Path Switch Request Elementary Procedure

--

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

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

--

-- PATH SWITCH REQUEST

--

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

PathSwitchRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PathSwitchRequestIEs} },

...

}

PathSwitchRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-SourceAMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

{ ID id-RRC-Resume-Cause CRITICALITY ignore TYPE RRCEstablishmentCause PRESENCE optional }|

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

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

...

}

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

--

-- PATH SWITCH REQUEST ACKNOWLEDGE

--

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

PathSwitchRequestAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PathSwitchRequestAcknowledgeIEs} },

...

}

PathSwitchRequestAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

{ ID id-Extended-ConnectedTime CRITICALITY ignore TYPE Extended-ConnectedTime PRESENCE optional }|

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

{ ID id-NRV2XServicesAuthorized CRITICALITY ignore TYPE NRV2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEV2XServicesAuthorized CRITICALITY ignore TYPE LTEV2XServicesAuthorized PRESENCE optional }|

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

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

{ ID id-PC5QoSParameters CRITICALITY ignore TYPE PC5QoSParameters PRESENCE optional }|

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

{ ID id-UE-UP-CIoT-Support CRITICALITY ignore TYPE UE-UP-CIoT-Support PRESENCE optional }|

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

{ ID id-ManagementBasedMDTPLMNList CRITICALITY ignore TYPE MDTPLMNList PRESENCE optional }|

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

{ ID id-FiveG-ProSeAuthorized CRITICALITY ignore TYPE FiveG-ProSeAuthorized PRESENCE optional }|

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5QoSParameters CRITICALITY ignore TYPE FiveG-ProSePC5QoSParameters PRESENCE optional }|

{ ID id-ManagementBasedMDTPLMNModificationList CRITICALITY ignore TYPE MDTPLMNModificationList PRESENCE optional }|

{ ID id-IAB-Authorized CRITICALITY ignore TYPE IAB-Authorized PRESENCE optional }|

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

{ ID id-NR-A2X-ServicesAuthorized CRITICALITY ignore TYPE NR-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-LTE-A2X-ServicesAuthorized CRITICALITY ignore TYPE LTE-A2X-ServicesAuthorized PRESENCE optional }|

{ ID id-NR-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate  PRESENCE optional }|

{ ID id-LTE-A2X-UE-PC5-AggregateMaximumBitRate CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-A2X-PC5-QoS-Parameters CRITICALITY ignore TYPE A2X-PC5-QoS-Parameters PRESENCE optional }|

{ ID id-MobileIAB-Authorized CRITICALITY ignore TYPE MobileIAB-Authorized PRESENCE optional }|

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

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

...

}

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

--

-- PATH SWITCH REQUEST FAILURE

--

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

PathSwitchRequestFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PathSwitchRequestFailureIEs} },

...

}

PathSwitchRequestFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- Handover Cancellation Elementary Procedure

--

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

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

--

-- HANDOVER CANCEL

--

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

HandoverCancel ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { HandoverCancelIEs} },

...

}

HandoverCancelIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

...

}

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

--

-- HANDOVER CANCEL ACKNOWLEDGE

--

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

HandoverCancelAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { HandoverCancelAcknowledgeIEs} },

...

}

HandoverCancelAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

...

}

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

--

-- HANDOVER SUCCESS ELEMENTARY PROCEDURE

--

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

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

--

-- HANDOVER SUCCESS

--

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

HandoverSuccess ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { HandoverSuccessIEs} },

...

}

HandoverSuccessIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory },

...

}

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

--

-- UPLINK RAN EARLY STATUS TRANSFER ELEMENTARY PROCEDURE

--

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

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

--

-- Uplink RAN Early Status Transfer

--

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

UplinkRANEarlyStatusTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkRANEarlyStatusTransferIEs} },

...

}

UplinkRANEarlyStatusTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-EarlyStatusTransfer-TransparentContainer CRITICALITY reject TYPE EarlyStatusTransfer-TransparentContainer PRESENCE mandatory },

...

}

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

--

-- DOWNLINK RAN EARLY STATUS TRANSFER ELEMENTARY PROCEDURE

--

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

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

--

-- Downlink RAN Early Status Transfer

--

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

DownlinkRANEarlyStatusTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkRANEarlyStatusTransferIEs} },

...

}

DownlinkRANEarlyStatusTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-EarlyStatusTransfer-TransparentContainer CRITICALITY reject TYPE EarlyStatusTransfer-TransparentContainer PRESENCE mandatory },

...

}

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

--

-- Uplink RAN Status Transfer Elementary Procedure

--

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

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

--

-- UPLINK RAN STATUS TRANSFER

--

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

UplinkRANStatusTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkRANStatusTransferIEs} },

...

}

UplinkRANStatusTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RANStatusTransfer-TransparentContainer CRITICALITY reject TYPE RANStatusTransfer-TransparentContainer PRESENCE mandatory },

...

}

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

--

-- Downlink RAN Status Transfer Elementary Procedure

--

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

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

--

-- DOWNLINK RAN STATUS TRANSFER

--

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

DownlinkRANStatusTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkRANStatusTransferIEs} },

...

}

DownlinkRANStatusTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RANStatusTransfer-TransparentContainer CRITICALITY reject TYPE RANStatusTransfer-TransparentContainer PRESENCE mandatory },

...

}

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

--

-- PAGING ELEMENTARY PROCEDURE

--

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

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

--

-- PAGING

--

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

Paging ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PagingIEs} },

...

}

PagingIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

{ ID id-NB-IoT-Paging-eDRXInfo CRITICALITY ignore TYPE NB-IoT-Paging-eDRXInfo PRESENCE optional }|

{ ID id-NB-IoT-PagingDRX CRITICALITY ignore TYPE NB-IoT-PagingDRX PRESENCE optional }|

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

{ ID id-WUS-Assistance-Information CRITICALITY ignore TYPE WUS-Assistance-Information PRESENCE optional }|

{ ID id-EUTRA-PagingeDRXInformation CRITICALITY ignore TYPE EUTRA-PagingeDRXInformation PRESENCE optional }|

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

{ ID id-NR-PagingeDRXInformation CRITICALITY ignore TYPE NR-PagingeDRXInformation PRESENCE optional }|

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

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

...

}

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

--

-- NAS TRANSPORT ELEMENTARY PROCEDURES

--

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

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

--

-- INITIAL UE MESSAGE

--

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

InitialUEMessage ::= SEQUENCE {

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

...

}

InitialUEMessage-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-NAS-PDU CRITICALITY reject TYPE NAS-PDU PRESENCE mandatory }|

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

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

{ ID id-FiveG-S-TMSI CRITICALITY reject TYPE FiveG-S-TMSI PRESENCE optional }|

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

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

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

{ ID id-SourceToTarget-AMFInformationReroute CRITICALITY ignore TYPE SourceToTarget-AMFInformationReroute PRESENCE optional }|

{ ID id-SelectedPLMNIdentity CRITICALITY ignore TYPE PLMNIdentity PRESENCE optional }|

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

{ ID id-CEmodeBSupport-Indicator CRITICALITY reject TYPE CEmodeBSupport-Indicator PRESENCE optional }|

{ ID id-LTEM-Indication CRITICALITY ignore TYPE LTEM-Indication PRESENCE optional }|

{ ID id-EDT-Session CRITICALITY ignore TYPE EDT-Session PRESENCE optional }|

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

{ ID id-NPN-AccessInformation CRITICALITY reject TYPE NPN-AccessInformation PRESENCE optional }|

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

{ ID id-SelectedNID CRITICALITY ignore TYPE NID PRESENCE optional }|

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

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

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

{ ID id-AUN3DeviceAccessInfo CRITICALITY ignore TYPE AUN3DeviceAccessInfo PRESENCE optional },

...

}

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

--

-- DOWNLINK NAS TRANSPORT

--

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

DownlinkNASTransport ::= SEQUENCE {

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

...

}

DownlinkNASTransport-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-OldAMF CRITICALITY reject TYPE AMFName PRESENCE optional }|

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

{ ID id-NAS-PDU CRITICALITY reject TYPE NAS-PDU PRESENCE mandatory }|

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

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

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

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

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

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

{ ID id-Extended-ConnectedTime CRITICALITY ignore TYPE Extended-ConnectedTime PRESENCE optional }|

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

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

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

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

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

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

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

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

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

{ ID id-MobileIAB-Authorized CRITICALITY ignore TYPE MobileIAB-Authorized PRESENCE optional }|

{ ID id-ExtendedOldAMF CRITICALITY ignore TYPE Extended-AMFName PRESENCE optional },

...

}

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

--

-- UPLINK NAS TRANSPORT

--

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

UplinkNASTransport ::= SEQUENCE {

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

...

}

UplinkNASTransport-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-NAS-PDU CRITICALITY reject TYPE NAS-PDU PRESENCE mandatory }|

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

{ ID id-W-AGFIdentityInformation CRITICALITY reject TYPE OCTET STRING PRESENCE optional }|

{ ID id-TNGFIdentityInformation CRITICALITY reject TYPE OCTET STRING PRESENCE optional }|

{ ID id-TWIFIdentityInformation CRITICALITY reject TYPE OCTET STRING PRESENCE optional },

...

}

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

--

-- NAS NON DELIVERY INDICATION

--

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

NASNonDeliveryIndication ::= SEQUENCE {

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

...

}

NASNonDeliveryIndication-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-NAS-PDU CRITICALITY ignore TYPE NAS-PDU PRESENCE mandatory }|

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

...

}

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

--

-- REROUTE NAS REQUEST

--

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

RerouteNASRequest ::= SEQUENCE {

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

...

}

RerouteNASRequest-IEs NGAP-PROTOCOL-IES ::= {

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE optional }|

{ ID id-NGAP-Message CRITICALITY reject TYPE OCTET STRING PRESENCE mandatory }|

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

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

{ ID id-SourceToTarget-AMFInformationReroute CRITICALITY ignore TYPE SourceToTarget-AMFInformationReroute PRESENCE optional }|

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional },

...

}

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

--

-- INTERFACE MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- NG Setup Elementary Procedure

--

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

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

--

-- NG SETUP REQUEST

--

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

NGSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {NGSetupRequestIEs} },

...

}

NGSetupRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

{ ID id-DefaultPagingDRX CRITICALITY ignore TYPE PagingDRX PRESENCE mandatory }|

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

{ ID id-NB-IoT-DefaultPagingDRX CRITICALITY ignore TYPE NB-IoT-DefaultPagingDRX PRESENCE optional }|

{ ID id-Extended-RANNodeName CRITICALITY ignore TYPE Extended-RANNodeName PRESENCE optional }|

{ ID id-AIoT-Support CRITICALITY reject TYPE AIoT-Support PRESENCE optional },

...

}

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

--

-- NG SETUP RESPONSE

--

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

NGSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {NGSetupResponseIEs} },

...

}

NGSetupResponseIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

{ ID id-IAB-Supported CRITICALITY ignore TYPE IAB-Supported PRESENCE optional }|

{ ID id-Extended-AMFName CRITICALITY ignore TYPE Extended-AMFName PRESENCE optional }|

{ ID id-MobileIAB-Supported CRITICALITY ignore TYPE MobileIAB-Supported PRESENCE optional },

...

}

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

--

-- NG SETUP FAILURE

--

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

NGSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {NGSetupFailureIEs} },

...

}

NGSetupFailureIEs NGAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- RAN Configuration Update Elementary Procedure

--

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

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

--

-- RAN CONFIGURATION UPDATE

--

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

RANConfigurationUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {RANConfigurationUpdateIEs} },

...

}

RANConfigurationUpdateIEs NGAP-PROTOCOL-IES ::= {

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

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

{ ID id-DefaultPagingDRX CRITICALITY ignore TYPE PagingDRX PRESENCE optional }|

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

{ ID id-NGRAN-TNLAssociationToRemoveList CRITICALITY reject TYPE NGRAN-TNLAssociationToRemoveList PRESENCE optional }|

{ ID id-NB-IoT-DefaultPagingDRX CRITICALITY ignore TYPE NB-IoT-DefaultPagingDRX PRESENCE optional }|

{ ID id-Extended-RANNodeName CRITICALITY ignore TYPE Extended-RANNodeName PRESENCE optional },

...

}

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

--

-- RAN CONFIGURATION UPDATE ACKNOWLEDGE

--

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

RANConfigurationUpdateAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {RANConfigurationUpdateAcknowledgeIEs} },

...

}

RANConfigurationUpdateAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

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

...

}

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

--

-- RAN CONFIGURATION UPDATE FAILURE

--

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

RANConfigurationUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {RANConfigurationUpdateFailureIEs} },

...

}

RANConfigurationUpdateFailureIEs NGAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- AMF Configuration Update Elementary Procedure

--

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

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

--

-- AMF CONFIGURATION UPDATE

--

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

AMFConfigurationUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AMFConfigurationUpdateIEs} },

...

}

AMFConfigurationUpdateIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

{ ID id-AMF-TNLAssociationToAddList CRITICALITY ignore TYPE AMF-TNLAssociationToAddList PRESENCE optional }|

{ ID id-AMF-TNLAssociationToRemoveList CRITICALITY ignore TYPE AMF-TNLAssociationToRemoveList PRESENCE optional }|

{ ID id-AMF-TNLAssociationToUpdateList CRITICALITY ignore TYPE AMF-TNLAssociationToUpdateList PRESENCE optional }|

{ ID id-Extended-AMFName CRITICALITY ignore TYPE Extended-AMFName PRESENCE optional },

...

}

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

--

-- AMF CONFIGURATION UPDATE ACKNOWLEDGE

--

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

AMFConfigurationUpdateAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AMFConfigurationUpdateAcknowledgeIEs} },

...

}

AMFConfigurationUpdateAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-TNLAssociationSetupList CRITICALITY ignore TYPE AMF-TNLAssociationSetupList PRESENCE optional }|

{ ID id-AMF-TNLAssociationFailedToSetupList CRITICALITY ignore TYPE TNLAssociationList PRESENCE optional }|

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

...

}

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

--

-- AMF CONFIGURATION UPDATE FAILURE

--

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

AMFConfigurationUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AMFConfigurationUpdateFailureIEs} },

...

}

AMFConfigurationUpdateFailureIEs NGAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- AMF Status Indication Elementary Procedure

--

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

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

--

-- AMF STATUS INDICATION

--

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

AMFStatusIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AMFStatusIndicationIEs} },

...

}

AMFStatusIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-UnavailableGUAMIList CRITICALITY reject TYPE UnavailableGUAMIList PRESENCE mandatory },

...

}

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

--

-- NG Reset Elementary Procedure

--

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

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

--

-- NG RESET

--

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

NGReset ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {NGResetIEs} },

...

}

NGResetIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-ResetType CRITICALITY reject TYPE ResetType PRESENCE mandatory },

...

}

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

--

-- NG RESET ACKNOWLEDGE

--

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

NGResetAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {NGResetAcknowledgeIEs} },

...

}

NGResetAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

{ ID id-UE-associatedLogicalNG-connectionList CRITICALITY ignore TYPE UE-associatedLogicalNG-connectionList PRESENCE optional }|

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

...

}

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

--

-- Error Indication Elementary Procedure

--

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

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

--

-- ERROR INDICATION

--

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

ErrorIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {ErrorIndicationIEs} },

...

}

ErrorIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE optional }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE optional }|

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

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

{ ID id-FiveG-S-TMSI CRITICALITY ignore TYPE FiveG-S-TMSI PRESENCE optional },

...

}

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

--

-- OVERLOAD START

--

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

OverloadStart ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {OverloadStartIEs} },

...

}

OverloadStartIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMFOverloadResponse CRITICALITY reject TYPE OverloadResponse PRESENCE optional }|

{ ID id-AMFTrafficLoadReductionIndication CRITICALITY ignore TYPE TrafficLoadReductionIndication PRESENCE optional }|

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

...

}

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

--

-- OVERLOAD STOP

--

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

OverloadStop ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {OverloadStopIEs} },

...

}

OverloadStopIEs NGAP-PROTOCOL-IES ::= {

...

}

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

--

-- CONFIGURATION TRANSFER ELEMENTARY PROCEDURES

--

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

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

--

-- UPLINK RAN CONFIGURATION TRANSFER

--

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

UplinkRANConfigurationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkRANConfigurationTransferIEs} },

...

}

UplinkRANConfigurationTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-SONConfigurationTransferUL CRITICALITY ignore TYPE SONConfigurationTransfer PRESENCE optional }|

{ ID id-ENDC-SONConfigurationTransferUL CRITICALITY ignore TYPE EN-DCSONConfigurationTransfer PRESENCE optional }|

{ ID id-IntersystemSONConfigurationTransferUL CRITICALITY ignore TYPE IntersystemSONConfigurationTransfer PRESENCE optional },

...

}

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

--

-- DOWNLINK RAN CONFIGURATION TRANSFER

--

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

DownlinkRANConfigurationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkRANConfigurationTransferIEs} },

...

}

DownlinkRANConfigurationTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-SONConfigurationTransferDL CRITICALITY ignore TYPE SONConfigurationTransfer PRESENCE optional }|

{ ID id-ENDC-SONConfigurationTransferDL CRITICALITY ignore TYPE EN-DCSONConfigurationTransfer PRESENCE optional }|

{ ID id-IntersystemSONConfigurationTransferDL CRITICALITY ignore TYPE IntersystemSONConfigurationTransfer PRESENCE optional },

...

}

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

--

-- WARNING MESSAGE TRANSMISSION ELEMENTARY PROCEDURES

--

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

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

--

-- Write-Replace Warning Elementary Procedure

--

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

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

--

-- WRITE-REPLACE WARNING REQUEST

--

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

WriteReplaceWarningRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {WriteReplaceWarningRequestIEs} },

...

}

WriteReplaceWarningRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

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

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

...

}

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

--

-- WRITE-REPLACE WARNING RESPONSE

--

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

WriteReplaceWarningResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {WriteReplaceWarningResponseIEs} },

...

}

WriteReplaceWarningResponseIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

...

}

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

--

-- PWS Cancel Elementary Procedure

--

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

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

--

-- PWS CANCEL REQUEST

--

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

PWSCancelRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSCancelRequestIEs} },

...

}

PWSCancelRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

{ ID id-CancelAllWarningMessages CRITICALITY reject TYPE CancelAllWarningMessages PRESENCE optional },

...

}

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

--

-- PWS CANCEL RESPONSE

--

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

PWSCancelResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSCancelResponseIEs} },

...

}

PWSCancelResponseIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

...

}

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

--

-- PWS Restart Indication Elementary Procedure

--

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

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

--

-- PWS RESTART INDICATION

--

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

PWSRestartIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSRestartIndicationIEs} },

...

}

PWSRestartIndicationIEs NGAP-PROTOCOL-IES ::= {

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

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

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

{ ID id-EmergencyAreaIDListForRestart CRITICALITY reject TYPE EmergencyAreaIDListForRestart PRESENCE optional },

...

}

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

--

-- PWS Failure Indication Elementary Procedure

--

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

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

--

-- PWS FAILURE INDICATION

--

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

PWSFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSFailureIndicationIEs} },

...

}

PWSFailureIndicationIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-GlobalRANNodeID CRITICALITY reject TYPE GlobalRANNodeID PRESENCE mandatory },

...

}

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

--

-- NRPPA TRANSPORT ELEMENTARY PROCEDURES

--

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

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

--

-- DOWNLINK UE ASSOCIATED NRPPA TRANSPORT

--

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

DownlinkUEAssociatedNRPPaTransport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkUEAssociatedNRPPaTransportIEs} },

...

}

DownlinkUEAssociatedNRPPaTransportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-NRPPa-PDU CRITICALITY reject TYPE NRPPa-PDU PRESENCE mandatory },

...

}

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

--

-- UPLINK UE ASSOCIATED NRPPA TRANSPORT

--

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

UplinkUEAssociatedNRPPaTransport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkUEAssociatedNRPPaTransportIEs} },

...

}

UplinkUEAssociatedNRPPaTransportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-NRPPa-PDU CRITICALITY reject TYPE NRPPa-PDU PRESENCE mandatory },

...

}

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

--

-- DOWNLINK NON UE ASSOCIATED NRPPA TRANSPORT

--

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

DownlinkNonUEAssociatedNRPPaTransport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkNonUEAssociatedNRPPaTransportIEs} },

...

}

DownlinkNonUEAssociatedNRPPaTransportIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-NRPPa-PDU CRITICALITY reject TYPE NRPPa-PDU PRESENCE mandatory },

...

}

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

--

-- UPLINK NON UE ASSOCIATED NRPPA TRANSPORT

--

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

UplinkNonUEAssociatedNRPPaTransport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkNonUEAssociatedNRPPaTransportIEs} },

...

}

UplinkNonUEAssociatedNRPPaTransportIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-NRPPa-PDU CRITICALITY reject TYPE NRPPa-PDU PRESENCE mandatory },

...

}

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

--

-- TRACE ELEMENTARY PROCEDURES

--

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

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

--

-- TRACE START

--

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

TraceStart ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TraceStartIEs} },

...

}

TraceStartIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-TraceActivation CRITICALITY ignore TYPE TraceActivation PRESENCE mandatory },

...

}

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

--

-- TRACE FAILURE INDICATION

--

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

TraceFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TraceFailureIndicationIEs} },

...

}

TraceFailureIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- DEACTIVATE TRACE

--

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

DeactivateTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DeactivateTraceIEs} },

...

}

DeactivateTraceIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-NGRANTraceID CRITICALITY ignore TYPE NGRANTraceID PRESENCE mandatory },

...

}

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

--

-- CELL TRAFFIC TRACE

--

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

CellTrafficTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CellTrafficTraceIEs} },

...

}

CellTrafficTraceIEs NGAP-PROTOCOL-IES ::= {

{ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ID id-NGRAN-CGI CRITICALITY ignore TYPE NGRAN-CGI PRESENCE mandatory }|

{ID id-TraceCollectionEntityIPAddress CRITICALITY ignore TYPE TransportLayerAddress PRESENCE mandatory }|

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

{ID id-TraceCollectionEntityURI CRITICALITY ignore TYPE URI-address PRESENCE optional },

...

}

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

--

-- LOCATION REPORTING ELEMENTARY PROCEDURES

--

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

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

--

-- LOCATION REPORTING CONTROL

--

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

LocationReportingControl ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {LocationReportingControlIEs} },

...

}

LocationReportingControlIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-LocationReportingRequestType CRITICALITY ignore TYPE LocationReportingRequestType PRESENCE mandatory },

...

}

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

--

-- LOCATION REPORTING FAILURE INDICATION

--

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

LocationReportingFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {LocationReportingFailureIndicationIEs} },

...

}

LocationReportingFailureIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

...

}

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

--

-- LOCATION REPORT

--

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

LocationReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {LocationReportIEs} },

...

}

LocationReportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-LocationReportingRequestType CRITICALITY ignore TYPE LocationReportingRequestType PRESENCE mandatory },

...

}

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

--

-- UE TNLA BINDING ELEMENTARY PROCEDURES

--

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

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

--

-- UE TNLA BINDING RELEASE REQUEST

--

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

UETNLABindingReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UETNLABindingReleaseRequestIEs} },

...

}

UETNLABindingReleaseRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory },

...

}

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

--

-- UE RADIO CAPABILITY MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- UE RADIO CAPABILITY INFO INDICATION

--

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

UERadioCapabilityInfoIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UERadioCapabilityInfoIndicationIEs} },

...

}

UERadioCapabilityInfoIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-UERadioCapability-EUTRA-Format CRITICALITY ignore TYPE UERadioCapability PRESENCE optional }|

{ ID id-XrDeviceWith2Rx CRITICALITY ignore TYPE XrDeviceWith2Rx PRESENCE optional },

...

}

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

--

-- UE Radio Capability Check Elementary Procedure

--

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

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

--

-- UE RADIO CAPABILITY CHECK REQUEST

--

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

UERadioCapabilityCheckRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UERadioCapabilityCheckRequestIEs} },

...

}

UERadioCapabilityCheckRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-UERadioCapabilityID CRITICALITY reject TYPE UERadioCapabilityID PRESENCE optional },

...

}

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

--

-- UE RADIO CAPABILITY CHECK RESPONSE

--

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

UERadioCapabilityCheckResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UERadioCapabilityCheckResponseIEs} },

...

}

UERadioCapabilityCheckResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- PRIVATE MESSAGE ELEMENTARY PROCEDURE

--

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

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

--

-- PRIVATE MESSAGE

--

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

PrivateMessage ::= SEQUENCE {

privateIEs PrivateIE-Container { { PrivateMessageIEs } },

...

}

PrivateMessageIEs NGAP-PRIVATE-IES ::= {

...

}

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

--

-- DATA USAGE REPORTING ELEMENTARY PROCEDURES

--

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

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

--

-- SECONDARY RAT DATA USAGE REPORT

--

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

SecondaryRATDataUsageReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {SecondaryRATDataUsageReportIEs} },

...

}

SecondaryRATDataUsageReportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- RIM INFORMATION TRANSFER ELEMENTARY PROCEDURES

--

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

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

--

-- UPLINK RIM INFORMATION TRANSFER

--

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

UplinkRIMInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UplinkRIMInformationTransferIEs} },

...

}

UplinkRIMInformationTransferIEs NGAP-PROTOCOL-IES ::= {

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

...

}

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

--

-- DOWNLINK RIM INFORMATION TRANSFER

--

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

DownlinkRIMInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DownlinkRIMInformationTransferIEs} },

...

}

DownlinkRIMInformationTransferIEs NGAP-PROTOCOL-IES ::= {

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

...

}

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

--

-- Connection Establishment Indication

--

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

ConnectionEstablishmentIndication::= SEQUENCE {

protocolIEs ProtocolIE-Container { {ConnectionEstablishmentIndicationIEs} },

...

}

ConnectionEstablishmentIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

{ ID id-S-NSSAI CRITICALITY ignore TYPE S-NSSAI PRESENCE optional }|

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

{ ID id-UE-DifferentiationInfo CRITICALITY ignore TYPE UE-DifferentiationInfo PRESENCE optional }|

{ ID id-DL-CP-SecurityInformation CRITICALITY ignore TYPE DL-CP-SecurityInformation PRESENCE optional }|

{ ID id-NB-IoT-UEPriority CRITICALITY ignore TYPE NB-IoT-UEPriority PRESENCE optional }|

{ ID id-Enhanced-CoverageRestriction CRITICALITY ignore TYPE Enhanced-CoverageRestriction PRESENCE optional }|

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

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

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

{ ID id-OldAMF CRITICALITY reject TYPE AMFName PRESENCE optional }|

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }|

{ ID id-ExtendedOldAMF CRITICALITY ignore TYPE Extended-AMFName PRESENCE optional },

...

}

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

--

-- UE RADIO CAPABILITY ID MAPPING ELEMENTARY PROCEDURES

--

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

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

--

-- UE RADIO CAPABILITY ID MAPPING REQUEST

--

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

UERadioCapabilityIDMappingRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UERadioCapabilityIDMappingRequestIEs} },

...

}

UERadioCapabilityIDMappingRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-UERadioCapabilityID CRITICALITY reject TYPE UERadioCapabilityID PRESENCE mandatory },

...

}

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

--

-- UE RADIO CAPABILITY ID MAPPING RESPONSE

--

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

UERadioCapabilityIDMappingResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {UERadioCapabilityIDMappingResponseIEs} },

...

}

UERadioCapabilityIDMappingResponseIEs NGAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- AMF CP Relocation Indication

--

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

AMFCPRelocationIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { AMFCPRelocationIndicationIEs} },

...

}

AMFCPRelocationIndicationIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-S-NSSAI CRITICALITY ignore TYPE S-NSSAI PRESENCE optional }| --this IE is not used and ignored

{ ID id-AllowedNSSAI CRITICALITY ignore TYPE AllowedNSSAI PRESENCE optional }| --this IE is not used and ignored

{ ID id-Partially-Allowed-NSSAI CRITICALITY ignore TYPE Partially-Allowed-NSSAI PRESENCE optional }, --this IE is not used and ignored

...

}

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

--

-- MBS SESSION MANAGEMENT ELEMENTARY PROCEDURES

--

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

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

--

-- Broadcast Session Setup Elementary Procedure

--

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

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

--

-- BROADCAST SESSION SETUP REQUEST

--

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

BroadcastSessionSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionSetupRequestIEs} },

...

}

BroadcastSessionSetupRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE mandatory }|

{ ID id-MBSSessionSetupRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModRequestTransfer) PRESENCE mandatory }|

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

...

}

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

--

-- BROADCAST SESSION SETUP RESPONSE

--

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

BroadcastSessionSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionSetupResponseIEs} },

...

}

BroadcastSessionSetupResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBSSessionSetupResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModResponseTransfer) PRESENCE optional }|

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

...

}

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

--

-- BROADCAST SESSION SETUP FAILURE

--

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

BroadcastSessionSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionSetupFailureIEs} },

...

}

BroadcastSessionSetupFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBSSessionSetupFailureTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModFailureTransfer ) PRESENCE optional }|

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

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

...

}

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

--

-- Broadcast Session Modification Elementary Procedure

--

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

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

--

-- BROADCAST SESSION MODIFICATION REQUEST

--

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

BroadcastSessionModificationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionModificationRequestIEs} },

...

}

BroadcastSessionModificationRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MBSSessionModificationRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModRequestTransfer) PRESENCE optional },

...

}

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

--

-- BROADCAST SESSION MODIFICATION RESPONSE

--

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

BroadcastSessionModificationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionModificationResponseIEs} },

...

}

BroadcastSessionModificationResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBSSessionModificationResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModResponseTransfer) PRESENCE optional }|

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

...

}

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

--

-- BROADCAST SESSION MODIFICATION FAILURE

--

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

BroadcastSessionModificationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionModificationFailureIEs} },

...

}

BroadcastSessionModificationFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBSSessionModificationFailureTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING MBSSessionSetupOrModFailureTransfer) PRESENCE optional }|

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

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

...

}

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

--

-- Broadcast Session Release Elementary Procedure

--

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

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

--

-- BROADCAST SESSION RELEASE REQUEST

--

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

BroadcastSessionReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionReleaseRequestIEs} },

...

}

BroadcastSessionReleaseRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

...

}

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

--

-- Broadcast Session Release Required Elementary Procedure

--

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

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

--

-- BROADCAST SESSION RELEASE REQUIRED

--

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

BroadcastSessionReleaseRequired ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionReleaseRequiredIEs} },

...

}

BroadcastSessionReleaseRequiredIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

...

}

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

--

-- BROADCAST SESSION RELEASE RESPONSE

--

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

BroadcastSessionReleaseResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionReleaseResponseIEs} },

...

}

BroadcastSessionReleaseResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBSSessionReleaseResponseTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING MBSSessionReleaseResponseTransfer) PRESENCE optional }|

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

...

}

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

--

-- Broadcast Session Transport Elementary Procedure

--

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

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

--

-- BROADCAST SESSION TRANSPORT REQUEST

--

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

BroadcastSessionTransportRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionTransportRequestIEs} },

...

}

BroadcastSessionTransportRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-BroadcastTransportRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING BroadcastTransportRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- BROADCAST SESSION TRANSPORT RESPONSE

--

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

BroadcastSessionTransportResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionTransportResponseIEs} },

...

}

BroadcastSessionTransportResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-BroadcastTransportResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING BroadcastTransportResponseTransfer) PRESENCE mandatory }|

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

...

}

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

--

-- BROADCAST SESSION TRANSPORT FAILURE

--

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

BroadcastSessionTransportFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {BroadcastSessionTransportFailureIEs} },

...

}

BroadcastSessionTransportFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-BroadcastTransportFailureTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING BroadcastTransportFailureTransfer) PRESENCE mandatory }|

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

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

...

}

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

--

-- Distribution Setup Elementary Procedure

--

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

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

--

-- DISTRIBUTION SETUP REQUEST

--

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

DistributionSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DistributionSetupRequestIEs} },

...

}

DistributionSetupRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

{ ID id-MBS-DistributionSetupRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBS-DistributionSetupRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- DISTRIBUTION SETUP RESPONSE

--

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

DistributionSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DistributionSetupResponseIEs} },

...

}

DistributionSetupResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

{ ID id-MBS-DistributionSetupResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBS-DistributionSetupResponseTransfer) PRESENCE mandatory }|

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

...

}

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

--

-- DISTRIBUTION SETUP FAILURE

--

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

DistributionSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DistributionSetupFailureIEs} },

...

}

DistributionSetupFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

{ ID id-MBS-DistributionSetupUnsuccessfulTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING MBS-DistributionSetupUnsuccessfulTransfer) PRESENCE mandatory }|

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

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

...

}

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

--

-- Distribution Release Elementary Procedure

--

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

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

--

-- DISTRIBUTION RELEASE REQUEST

--

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

DistributionReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DistributionReleaseRequestIEs} },

...

}

DistributionReleaseRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

{ ID id-MBS-DistributionReleaseRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MBS-DistributionReleaseRequestTransfer) PRESENCE mandatory }|

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

...

}

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

--

-- DISTRIBUTION RELEASE RESPONSE

--

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

DistributionReleaseResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DistributionReleaseResponseIEs} },

...

}

DistributionReleaseResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

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

...

}

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

--

-- Multicast Session Activation Elementary Procedure

--

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

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

--

-- MULTICAST SESSION ACTIVATION REQUEST

--

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

MulticastSessionActivationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionActivationRequestIEs} },

...

}

MulticastSessionActivationRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MulticastSessionActivationRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MulticastSessionActivationRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- MULTICAST SESSION ACTIVATION RESPONSE

--

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

MulticastSessionActivationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionActivationResponseIEs} },

...

}

MulticastSessionActivationResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

...

}

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

--

-- MULTICAST SESSION ACTIVATION FAILURE

--

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

MulticastSessionActivationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionActivationFailureIEs} },

...

}

MulticastSessionActivationFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

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

...

}

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

--

-- Multicast Session Deactivation Elementary Procedure

--

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

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

--

-- MULTICAST SESSION DEACTIVATION REQUEST

--

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

MulticastSessionDeactivationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionDeactivationRequestIEs} },

...

}

MulticastSessionDeactivationRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MulticastSessionDeactivationRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MulticastSessionDeactivationRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- MULTICAST SESSION DEACTIVATION RESPONSE

--

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

MulticastSessionDeactivationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionDeactivationResponseIEs} },

...

}

MulticastSessionDeactivationResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

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

...

}

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

--

-- Multicast Session Update Elementary Procedure

--

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

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

--

-- MULTICAST SESSION UPDATE REQUEST

--

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

MulticastSessionUpdateRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionUpdateRequestIEs} },

...

}

MulticastSessionUpdateRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

{ ID id-MulticastSessionUpdateRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING MulticastSessionUpdateRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- MULTICAST SESSION UPDATE RESPONSE

--

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

MulticastSessionUpdateResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionUpdateResponseIEs} },

...

}

MulticastSessionUpdateResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

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

...

}

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

--

-- MULTICAST SESSION UPDATE FAILURE

--

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

MulticastSessionUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionUpdateFailureIEs} },

...

}

MulticastSessionUpdateFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-AreaSessionID CRITICALITY reject TYPE MBS-AreaSessionID PRESENCE optional }|

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

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

...

}

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

--

-- MULTICAST GROUP PAGING ELEMENTARY PROCEDURE

--

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

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

--

-- MULTICAST GROUP PAGING

--

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

MulticastGroupPaging ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastGroupPagingIEs} },

...

}

MulticastGroupPagingIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY ignore TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY ignore TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MulticastGroupPagingAreaList CRITICALITY ignore TYPE MulticastGroupPagingAreaList PRESENCE mandatory },

...

}

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

--

-- TIMING SYNCHRONISATION STATUS REPORTING ELEMENTARY PROCEDURES

--

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

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

--

-- Timing Synchronisation Status Elementary Procedure

--

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

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

--

-- TIMING SYNCHRONISATION STATUS REQUEST

--

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

TimingSynchronisationStatusRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TimingSynchronisationStatusRequestIEs} },

...

}

TimingSynchronisationStatusRequestIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-RAN-TSSRequestType CRITICALITY reject TYPE RAN-TSSRequestType PRESENCE mandatory },

...

}

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

--

-- TIMING SYNCHRONISATION STATUS RESPONSE

--

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

TimingSynchronisationStatusResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TimingSynchronisationStatusResponseIEs} },

...

}

TimingSynchronisationStatusResponseIEs NGAP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- TIMING SYNCHRONISATION STATUS FAILURE

--

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

TimingSynchronisationStatusFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { TimingSynchronisationStatusFailureIEs} },

...

}

TimingSynchronisationStatusFailureIEs NGAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- Timing Synchronisation Status Reporting Elementary Procedure

--

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

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

--

-- TIMING SYNCHRONISATION STATUS REPORT

--

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

TimingSynchronisationStatusReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TimingSynchronisationStatusReportIEs} },

...

}

TimingSynchronisationStatusReportIEs NGAP-PROTOCOL-IES ::= {

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

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

{ ID id-RAN-TSSScope CRITICALITY ignore TYPE RAN-TSSScope PRESENCE mandatory },

...

}

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

--

-- MT Communication Handling Elementary Procedure

--

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

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

--

-- MT COMMUNICATION HANDLING REQUEST

--

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

MTCommunicationHandlingRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { MTCommunicationHandlingRequestIEs} },

...

}

MTCommunicationHandlingRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-PDUSessionListMTCommHReq CRITICALITY reject TYPE PDUSessionListMTCommHReq PRESENCE mandatory },

...

}

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

--

-- MT COMMUNICATION HANDLING RESPONSE

--

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

MTCommunicationHandlingResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MTCommunicationHandlingResponseIEs} },

...

}

MTCommunicationHandlingResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

...

}

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

--

-- MT COMMUNICATION HANDLING FAILURE

--

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

MTCommunicationHandlingFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { MTCommunicationHandlingFailureIEs} },

...

}

MTCommunicationHandlingFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY reject TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY reject TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

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

...

}

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

-- RAN Paging Request procedure

--

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

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

--

-- RAN PAGING REQUEST

--

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

RANPagingRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { RANPagingRequestIEs} },

...

}

RANPagingRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AMF-UE-NGAP-ID CRITICALITY ignore TYPE AMF-UE-NGAP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-NGAP-ID CRITICALITY ignore TYPE RAN-UE-NGAP-ID PRESENCE mandatory }|

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

{ ID id-DL-Signalling CRITICALITY ignore TYPE DL-Signalling PRESENCE optional },

...

}

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

--

-- A-IoT ELEMENTARY PROCEDURES

--

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

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

--

-- Inventory Request Elementary Procedure

--

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

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

--

-- INVENTORY REQUEST

--

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

InventoryRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InventoryRequestIEs} },

...

}

InventoryRequestIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-InventoryRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING InventoryRequestTransfer) PRESENCE mandatory },

...

}

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

--

-- INVENTORY RESPONSE

--

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

InventoryResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InventoryResponseIEs} },

...

}

InventoryResponseIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-InventoryResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING InventoryResponseTransfer) PRESENCE mandatory }|

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

...

}

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

--

-- INVENTORY FAILURE

--

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

InventoryFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {InventoryFailureIEs} },

...

}

InventoryFailureIEs NGAP-PROTOCOL-IES ::= {

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

{ ID id-AIoT-CorrelationIdentifier CRITICALITY ignore TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-InventoryFailureTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING InventoryFailureTransfer ) PRESENCE mandatory }|

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

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

...

}

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

-- Inventory Report procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- INVENTORY REPORT

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

InventoryReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { InventoryReportIEs} },

...

}

InventoryReportIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY reject TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-InventoryReportTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING InventoryReportTransfer ) PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Command Request Elementary Procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- COMMAND REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CommandRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CommandRequestIEs} },

...

}

CommandRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY reject TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-RAN-AIOT-Device-NGAP-ID CRITICALITY reject TYPE RAN-AIOT-Device-NGAP-ID PRESENCE mandatory }|

{ ID id-CommandRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING CommandRequestTransfer) PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- COMMAND RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CommandResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CommandResponseIEs} },

...

}

CommandResponseIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY reject TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-RAN-AIOT-Device-NGAP-ID CRITICALITY reject TYPE RAN-AIOT-Device-NGAP-ID PRESENCE mandatory }|

{ ID id-CommandResponseTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING CommandResponseTransfer) PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- COMMAND FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CommandFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CommandFailureIEs} },

...

}

CommandFailureIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY ignore TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY ignore TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-RAN-AIOT-Device-NGAP-ID CRITICALITY ignore TYPE RAN-AIOT-Device-NGAP-ID PRESENCE mandatory }|

{ ID id-CommandFailureTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING CommandFailureTransfer ) PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- A-IoT Session Release Elementary Procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- AIOT SESSION RELEASE COMMAND

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

AIOTSessionReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AIOTSessionReleaseCommandIEs} },

...

}

AIOTSessionReleaseCommandIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY reject TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-AIOTSessionReleaseCommandTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING AIOTSessionReleaseCommandTransfer) PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- AIOT SESSION RELEASE COMPLETE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

AIOTSessionReleaseComplete ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AIOTSessionReleaseCompleteIEs} },

...

}

AIOTSessionReleaseCompleteIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY ignore TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY ignore TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-AIOTSessionReleaseCompleteTransfer CRITICALITY ignore TYPE OCTET STRING (CONTAINING AIOTSessionReleaseCompleteTransfer) PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- A-IoT Session Release Request Elementary Procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- AIOT SESSION RELEASE REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

AIOTSessionReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AIOTSessionReleaseRequestIEs} },

...

}

AIOTSessionReleaseRequestIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIOTFIdentifier CRITICALITY reject TYPE AIOTFIdentifier PRESENCE mandatory }|

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-AIOTSessionReleaseRequestTransfer CRITICALITY reject TYPE OCTET STRING (CONTAINING AIOTSessionReleaseRequestTransfer) PRESENCE mandatory },

...

}

END

-- ASN1STOP

### 9.4.5 Information Element Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Information Element Definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-AdditionalDLForwardingUPTNLInformation,

id-AdditionalULForwardingUPTNLInformation,

id-AdditionalDLQosFlowPerTNLInformation,

id-AdditionalDLUPTNLInformationForHOList,

id-AdditionalNGU-UP-TNLInformation,

id-AdditionalRedundantDL-NGU-UP-TNLInformation,

id-AdditionalRedundantDLQosFlowPerTNLInformation,

id-AdditionalRedundantNGU-UP-TNLInformation,

id-AdditionalRedundantUL-NGU-UP-TNLInformation,

id-AdditionalUL-NGU-UP-TNLInformation,

id-AIOTFIdentifier,

id-AIoT-CorrelationIdentifier,

id-AIoT-DeviceIdentificationRequested,

id-AIoT-RequestedServiceAreaInformation,

id-AIoT-InventoryAssistanceInformation,

id-AIoT-FollowonCommandIndication,

id-RAN-AIOT-Device-NGAP-ID,

id-AIoT-CommandAssistanceInformation,

id-AIoT-NASPDU,

id-AlternativeQoSParaSetList,

id-AssistanceInformationQoE-Meas,

id-AdditionalCancelledlocationReportingReferenceIDList,

id-BurstArrivalTimeDownlink,

id-Cause,

id-CNPacketDelayBudgetDL,

id-CNPacketDelayBudgetUL,

id-CNTypeRestrictionsForEquivalent,

id-CNTypeRestrictionsForServing,

id-CommonNetworkInstance,

id-ConfiguredTACIndication,

id-CN-MT-CommunicationHandling,

id-CurrentQoSParaSetIndex,

id-DAPSRequestInfo,

id-DAPSResponseInfoList,

id-DataForwardingNotPossible,

id-DataForwardingResponseERABList,

id-DirectForwardingPathAvailability,

id-DL-NGU-UP-TNLInformation,

id-DownlinkTLContainer,

id-EndpointIPAddressAndPort,

id-EnergySavingIndication,

id-ExtendedMobilityInformation,

id-ExtendedPacketDelayBudget,

id-ExtendedRATRestrictionInformation,

id-ExtendedReportIntervalMDT,

id-ExtendedSliceSupportList,

id-ExtendedTAISliceSupportList,

id-ExtendedUEIdentityIndexValue,

id-EUTRA-PagingeDRXInformation,

id-EquivalentSNPNsList,

id-GlobalCable-ID,

id-GlobalRANNodeID,

id-GlobalTNGF-ID,

id-GlobalTWIF-ID,

id-GlobalW-AGF-ID,

id-GUAMIType,

id-HashedUEIdentityIndexValue,

id-IncludeBeamMeasurementsIndication,

id-IntersystemSONInformationRequest,

id-IntersystemSONInformationReply,

id-IntersystemResourceStatusUpdate,

id-IntersystemMobilityFailureforVoiceFallback,

id-LastEUTRAN-PLMNIdentity,

id-LastVisitedPSCellList,

id-LocationReportingAdditionalInfo,

id-M4ReportAmount,

id-M5ReportAmount,

id-M6ReportAmount,

id-ExcessPacketDelayThresholdConfiguration,

id-M7ReportAmount,

id-MaximumIntegrityProtectedDataRate-DL,

id-MBS-AreaSessionID,

id-MBS-QoSFlowsToBeSetupList,

id-MBS-QoSFlowsToBeSetupModList,

id-MBS-QoSFlowToReleaseList,

id-MBS-ServiceArea,

id-MBS-SessionFSAIDList,

id-MBS-SessionID,

id-MBS-ActiveSessionInformation-SourcetoTargetList,

id-MBS-ActiveSessionInformation-TargettoSourceList,

id-MBS-AssistanceInformation,

id-MBS-SessionTNLInfo5GC,

id-MBS-SupportIndicator,

id-MBSSessionFailedtoSetupList,

id-MBSSessionFailedtoSetuporModifyList,

id-MBSSessionSetupResponseList,

id-MBSSessionSetuporModifyResponseList,

id-MBSSessionToReleaseList,

id-MBSSessionSetupRequestList,

id-MBSSessionSetuporModifyRequestList,

id-MDTConfiguration,

id-MicoAllPLMN,

id-NetworkInstance,

id-NGAPIESupportInformationRequestList,

id-NGAPIESupportInformationResponseList,

id-NID,

id-NR-CGI,

id-NRNTNTAIInformation,

id-NPN-MobilityInformation,

id-NPN-PagingAssistanceInformation,

id-NPN-Support,

id-NR-PagingeDRXInformation,

id-OldAssociatedQosFlowList-ULendmarkerexpected,

id-OnboardingSupport,

id-PagingAssisDataforCEcapabUE,

id-PagingCauseIndicationForVoiceService,

id-PDUSessionAggregateMaximumBitRate,

id-PduSessionExpectedUEActivityBehaviour,

id-PDUSessionPairID,

id-PDUSessionResourceFailedToSetupListCxtFail,

id-PDUSessionResourceReleaseResponseTransfer,

id-PDUSessionType,

id-PEIPSassistanceInformation,

id-PSCellInformation,

id-PNI-NPNBasedMDT,

id-PNI-NPN-AreaScopeofMDT,

id-QMCConfigInfo,

id-QosFlowAdditionalInfoList,

id-QosFlowAddOrModifyRequestList,

id-QosFlowFailedToSetupList,

id-QosFlowFeedbackList,

id-QosFlowParametersList,

id-QosFlowSetupRequestList,

id-QosFlowToReleaseList,

id-QosMonitoringRequest,

id-QosMonitoringReportingFrequency,

id-SNPN-CellBasedMDT,

id-SNPN-TAIBasedMDT,

id-SNPN-BasedMDT,

id-SuccessfulHandoverReportList,

id-SupportedUETypeList,

id-UEContextReferenceAtSource,

id-RAT-Information,

id-RedundantCommonNetworkInstance,

id-RedundantDL-NGU-TNLInformationReused,

id-RedundantDL-NGU-UP-TNLInformation,

id-RedundantDLQosFlowPerTNLInformation,

id-RedundantPDUSessionInformation,

id-RedundantQosFlowIndicator,

id-RedundantUL-NGU-UP-TNLInformation,

id-SCTP-TLAs,

id-SecondaryRATUsageInformation,

id-SecurityIndication,

id-SecurityResult,

id-SgNB-UE-X2AP-ID,

id-S-NSSAI,

id-SONInformationReport,

id-SourceNodeID,

id-SourceNodeTNLAddrInfo,

id-SourceSN-to-TargetSN-QMCInfo,

id-SourceTNLAddrInfo,

id-SurvivalTime,

id-Selected-Target-SNPN-Identity,

id-TNLAssociationTransportLayerAddressNGRAN,

id-TAIMBSSupportList,

id-TAINSAGSupportList,

id-TargetHomeENB-ID,

id-TargetRNC-ID,

id-TimeBasedHandoverInformation,

id-TraceCollectionEntityURI,

id-TSCTrafficCharacteristics,

id-UEHistoryInformationFromTheUE,

id-UERadioCapabilityForPaging,

id-UERadioCapabilityForPagingOfNB-IoT,

id-UL-NGU-UP-TNLInformation,

id-UL-NGU-UP-TNLModifyList,

id-ULForwarding,

id-ULForwardingUP-TNLInformation,

id-UplinkTLContainer,

id-UsedRSNInformation,

id-UserLocationInformationTNGF,

id-UserLocationInformationTWIF,

id-UserLocationInformationW-AGF,

id-UserPlaneErrorIndicator,

id-EarlyMeasurement,

id-BeamMeasurementsReportConfiguration,

id-DLDiscarding,

id-TAI,

id-HFCNode-ID-new,

id-GlobalCable-ID-new,

id-FiveGProSeLayer2Multipath,

id-CandidateRelayUEInformationList,

id-FiveGProSeLayer2UEtoUERelay,

id-FiveGProSeLayer2UEtoUERemote,

id-SuccessfulPSCellChangeReportList,

id-TargetCellCRNTI,

id-TimeSinceFailure,

id-ClockQualityReportingControlInfo,

id-RANfeedbacktype,

id-QoSFlowTSCList,

id-TSCTrafficCharacteristicsFeedback,

id-ANPacketDelayBudgetUL,

id-MBSCommServiceType,

id-MobileIAB-MTUserLocationInformation,

id-PDUsetQoSParameters,

id-PDUSetbasedHandlingIndicator,

id-N6JitterInformation,

id-ECNMarkingorCongestionInformationReportingRequest,

id-ECNMarkingorCongestionInformationReportingStatus,

id-MN-only-MDT-collection,

id-XrDeviceWith2Rx,

id-MaximumDataBurstVolume,

id-MBS-NGUFailureIndication,

id-UserPlaneFailureIndication,

id-UserPlaneFailureIndicationReport,

id-QoERVQoEReportingPaths,

id-UserLocationInformationN3IWF-without-PortNumber,

maxnoofAIoTAreas,

id-ExtendedBackupAMFName,

maxnoofAllowedAreas,

maxnoofAllowedCAGsperPLMN,

maxnoofAllowedS-NSSAIs,

maxnoofAoIMinusOne,

maxnoofBluetoothName,

maxnoofBPLMNs,

maxnoofCAGforMDT,

maxnoofCAGSperCell,

maxnoofCandidateCells,

maxnoofCellIDforMDT,

maxnoofCellIDforQMC,

maxnoofCellIDforWarning,

maxnoofCellinAoI,

maxnoofCellinEAI,

maxnoofCellsforMBS,

maxnoofCellsingNB,

maxnoofCellsinngeNB,

maxnoofCellsinNGRANNode,

maxnoofCellinTAI,

maxnoofCellsinUEHistoryInfo,

maxnoofCellsUEMovingTrajectory,

maxnoofDevices,

maxnoofDRBs,

maxnoofEmergencyAreaID,

maxnoofEAIforRestart,

maxnoofEPLMNs,

maxnoofEPLMNsPlusOne,

maxnoofE-RABs,

maxnoofErrors,

maxnoofExtSliceItems,

maxnoofESNPNs,

maxnoofForbTACs,

maxnoofFreqforMDT,

maxnoofMBSFSAs,

maxnoofMBSQoSFlows,

maxnoofMBSServiceAreaInformation,

maxnoofMBSAreaSessionIDs,

maxnoofMBSSessions,

maxnoofMBSSessionsofUE,

maxnoofMDTPLMNs,

maxnoofMRBs,

maxnoofMultiConnectivity,

maxnoofMultiConnectivityMinusOne,

maxnoofNeighPCIforMDT,

maxnoofNGAPIESupportInfo,

maxnoofNGConnectionsToReset,

maxNRARFCN,

maxnoofNRCellBands,

maxnoofNSAGs,

maxnoofPagingAreas,

maxnoofPC5QoSFlows,

maxnoofPDUSessions,

maxnoofPLMNs,

maxnoofPLMNforQMC,

maxnoofQosFlows,

maxnoofQosParaSets,

maxnoofRANNodeinAoI,

maxnoofReaders,

maxnoofRecommendedCells,

maxnoofRecommendedRANNodes,

maxnoofAoI,

maxnoofPSCellsPerPrimaryCellinUEHistoryInfo,

maxnoofReportedCells,

maxnoofSensorName,

maxnoofServedGUAMIs,

maxnoofSliceItems,

maxnoofMDTSNPNs,

maxnoofSNSSAIforQMC,

maxnoofSuccessfulHOReports,

maxnoofTACs,

maxnoofTACsinNTN,

maxnoofTAforMDT,

maxnoofTAforQMC,

maxnoofTAIforInactive,

maxnoofSupportedTAIforMBS,

maxnoofTAIforMBS,

maxnoofTAIforPaging,

maxnoofTAIforRestart,

maxnoofTAIforWarning,

maxnoofTAIinAoI,

maxnoofTargetS-NSSAIs,

maxnoofTimePeriods,

maxnoofTNLAssociations,

maxnoofUEAppLayerMeas,

maxnoofUEsforPaging,

maxnoofUETypes,

maxnoofWLANName,

maxnoofXnExtTLAs,

maxnoofXnGTP-TLAs,

maxnoofXnTLAs,

maxnoofThresholdsForExcessPacketDelay,

maxnoofCandidateRelayUEs,

maxnoofSuccessfulPSCellChangeReports,

maxnoofCellsTSS,

maxnoofPeriodicities,

maxnoofPartiallyAllowedS-NSSAIs,

maxnoofRSPPQoSFlows

FROM NGAP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

FROM NGAP-CommonDataTypes

ProtocolExtensionContainer{},

ProtocolIE-Container{},

NGAP-PROTOCOL-EXTENSION,

ProtocolIE-SingleContainer{},

NGAP-PROTOCOL-IES

FROM NGAP-Containers;

-- A

AdditionalDLUPTNLInformationForHOList ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF AdditionalDLUPTNLInformationForHOItem

AdditionalDLUPTNLInformationForHOItem ::= SEQUENCE {

additionalDL-NGU-UP-TNLInformation UPTransportLayerInformation,

additionalQosFlowSetupResponseList QosFlowListWithDataForwarding,

additionalDLForwardingUPTNLInformation UPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AdditionalDLUPTNLInformationForHOItem-ExtIEs} } OPTIONAL,

...

}

AdditionalDLUPTNLInformationForHOItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalRedundantDL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional },

...

}

AdditionalQosFlowInformation ::= ENUMERATED {

more-likely,

...

}

AerialUEsubscriptionInformation ::= ENUMERATED {

allowed,

not-allowed,

...

}

A2X-PC5-FlowBitRates ::= SEQUENCE {

a2X-GuaranteedFlowBitRate BitRate,

a2X-MaximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { {A2X-PC5-FlowBitRates-ExtIEs} } OPTIONAL,

...

}

A2X-PC5-FlowBitRates-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

A2X-PC5-QoS-Flow-List ::= SEQUENCE (SIZE(1..maxnoofPC5QoSFlows)) OF A2X-PC5-QoS-Flow-Item

A2X-PC5-QoS-Flow-Item ::= SEQUENCE {

a2X-PQI INTEGER (0..255, ...),

a2X-PC5-FlowBitRates A2X-PC5-FlowBitRates OPTIONAL,

a2X-Range ENUMERATED {m50, m80, m180, m200,

m350, m400, m500, m700,

m1000, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {A2X-PC5-QoS-Flow-Item-ExtIEs} } OPTIONAL,

...

}

A2X-PC5-QoS-Flow-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

A2X-PC5-QoS-Parameters ::= SEQUENCE {

a2X-PC5-QoS-Flow-List A2X-PC5-QoS-Flow-List,

a2X-PC5-LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {A2X-PC5-QoS-Parameters-ExtIEs} } OPTIONAL,

...

}

A2X-PC5-QoS-Parameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AdditionalCancelledlocationReportingReferenceIDList ::= SEQUENCE (SIZE(1.. maxnoofAoIMinusOne)) OF AdditionalCancelledlocationReportingReferenceIDItem

AdditionalCancelledlocationReportingReferenceIDItem ::= SEQUENCE {

locationReportingReferenceIDToBeCancelled LocationReportingReferenceID,

iE-Extensions ProtocolExtensionContainer { { AdditionalCancelledlocationReportingReferenceIDItem-ExtIEs} } OPTIONAL,

...

}

AdditionalCancelledlocationReportingReferenceIDItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoTAreaID ::= SEQUENCE {

pLMNidentity PLMNIdentity,

nID NID OPTIONAL,

aIoTAreaCode OCTET STRING (SIZE (3)),

iE-Extensions ProtocolExtensionContainer { { AIoTAreaID-ExtIEs} } OPTIONAL,

...

}

AIoTAreaID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-CorrelationIdentifier ::= OCTET STRING -- needs to be replaced by a constrained type definition --

AIoT-FollowonCommandIndication ::= ENUMERATED {true, ...}

RAN-AIOT-Device-NGAP-ID ::= INTEGER (0..4294967295)

AIoT-CommandAssistanceInformation ::= SEQUENCE {

estimateofExpectedD2RMsgSize INTEGER (1..256, ...) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AIoT-CommandAssistanceInformation-ExtIEs} } OPTIONAL,

...

}

AIoT-CommandAssistanceInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-DeviceIdentificationRequested ::= CHOICE {

singleDevice BIT STRING (SIZE(1..1024, ...)), -- the detailed encoding needs to be refined --

groupDevices BIT STRING (SIZE(1..1024, ...)),-- the detailed encoding needs to be refined --

allDevices NULL,

choice-Extensions ProtocolIE-SingleContainer { { AIoT-DeviceIdentificationRequested-ExtIEs} }

}

AIoT-DeviceIdentificationRequested-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

AIoT-DeviceReportList ::= SEQUENCE (SIZE(1..maxnoofDevices)) OF AIoT-DeviceReportItem

AIoT-DeviceReportItem ::= SEQUENCE {

aIoT-NASPDU AIoT-NASPDU,

rAN-AIOT-Device-NGAP-ID RAN-AIOT-Device-NGAP-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AIoT-DeviceReportItem-ExtIEs} } OPTIONAL,

...

}

AIoT-DeviceReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIOTFIdentifier ::= OCTET STRING -- needs to be replaced by a constrained type definition --

AIoT-InventoryAssistanceInformation ::= SEQUENCE {

expectedD2RMsgSize INTEGER (1..256, ...),

approximateNoofTargetDevices INTEGER (1..65535, ...) OPTIONAL,

timeInterval INTEGER (1..256, ...) OPTIONAL, -- the detailed value needs to be revisited --

iE-Extensions ProtocolExtensionContainer { { AIoT-InventoryAssistanceInformation-ExtIEs} } OPTIONAL,

...

}

AIoT-InventoryAssistanceInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-NASPDU ::= OCTET STRING

AIoT-ReaderReportList ::= SEQUENCE (SIZE(1..maxnoofReaders)) OF AIoT-ReaderReportItem

AIoT-ReaderReportItem ::= SEQUENCE {

readerIndex AIoT-ReaderIndex,

deviceReportList AIoT-DeviceReportList,

iE-Extensions ProtocolExtensionContainer { { AIoT-ReaderReportItem-ExtIEs} } OPTIONAL,

...

}

AIoT-ReaderReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-ReaderIndex ::= INTEGER (1..65535, ...)

AIoT-RequestedReaderList ::= SEQUENCE (SIZE(1..maxnoofReaders)) OF AIoT-RequestedReaderItem

AIoT-RequestedReaderItem ::= SEQUENCE {

globalgNB-ID GlobalGNB-ID,

readerIndex AIoT-ReaderIndex,

iE-Extensions ProtocolExtensionContainer { { AIoT-RequestedReaderItem-ExtIEs} } OPTIONAL,

...

}

AIoT-RequestedReaderItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-RequestedAIoTAreaList ::= SEQUENCE (SIZE(1..maxnoofAIoTAreas)) OF AIoTAreaID

AIoT-RequestedServiceAreaInformation ::= SEQUENCE {

requestedReaderList AIoT-RequestedReaderList OPTIONAL,

requestedAIoTAreaList AIoT-RequestedAIoTAreaList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AIoT-RequestedServiceAreaInformation-ExtIEs} } OPTIONAL,

...

}

AIoT-RequestedServiceAreaInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIOTSessionReleaseCommandTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {AIOTSessionReleaseCommandTransferIEs} },

...

}

AIOTSessionReleaseCommandTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

AIOTSessionReleaseCompleteTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AIOTSessionReleaseCompleteTransfer-ExtIEs} } OPTIONAL,

...

}

AIOTSessionReleaseCompleteTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIOTSessionReleaseRequestTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

cause Cause,

iE-Extensions ProtocolExtensionContainer { {AIOTSessionReleaseRequestTransfer-ExtIEs} } OPTIONAL,

...

}

AIOTSessionReleaseRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AIoT-Support ::= ENUMERATED {aIoT-only, aIoT-and-NRUu, ...}

AllocationAndRetentionPriority ::= SEQUENCE {

priorityLevelARP PriorityLevelARP,

pre-emptionCapability Pre-emptionCapability,

pre-emptionVulnerability Pre-emptionVulnerability,

iE-Extensions ProtocolExtensionContainer { {AllocationAndRetentionPriority-ExtIEs} } OPTIONAL,

...

}

AllocationAndRetentionPriority-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Allowed-CAG-List-per-PLMN ::= SEQUENCE (SIZE(1..maxnoofAllowedCAGsperPLMN)) OF CAG-ID

AllowedNSSAI ::= SEQUENCE (SIZE(1..maxnoofAllowedS-NSSAIs)) OF AllowedNSSAI-Item

AllowedNSSAI-Item ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {AllowedNSSAI-Item-ExtIEs} } OPTIONAL,

...

}

AllowedNSSAI-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Allowed-PNI-NPN-List ::= SEQUENCE (SIZE(1..maxnoofEPLMNsPlusOne)) OF Allowed-PNI-NPN-Item

Allowed-PNI-NPN-Item ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

pNI-NPN-restricted ENUMERATED {restricted, not-restricted, ...},

allowed-CAG-List-per-PLMN Allowed-CAG-List-per-PLMN,

iE-Extensions ProtocolExtensionContainer { {Allowed-PNI-NPN-Item-ExtIEs} } OPTIONAL,

...

}

Allowed-PNI-NPN-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AllowedTACs ::= SEQUENCE (SIZE(1..maxnoofAllowedAreas)) OF TAC

AlternativeQoSParaSetIndex ::= INTEGER (1..8, ...)

AlternativeQoSParaSetNotifyIndex ::= INTEGER (0..8, ...)

AlternativeQoSParaSetList ::= SEQUENCE (SIZE(1..maxnoofQosParaSets)) OF AlternativeQoSParaSetItem

AlternativeQoSParaSetItem ::= SEQUENCE {

alternativeQoSParaSetIndex AlternativeQoSParaSetIndex,

guaranteedFlowBitRateDL BitRate OPTIONAL,

guaranteedFlowBitRateUL BitRate OPTIONAL,

packetDelayBudget PacketDelayBudget OPTIONAL,

packetErrorRate PacketErrorRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AlternativeQoSParaSetItem-ExtIEs} } OPTIONAL,

...

}

AlternativeQoSParaSetItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MaximumDataBurstVolume CRITICALITY ignore EXTENSION MaximumDataBurstVolume PRESENCE optional },

...

}

AssistanceInformationQoE-Meas ::= INTEGER (1..16, ...)

AMFName ::= PrintableString (SIZE(1..150, ...))

AMFNameVisibleString ::= VisibleString (SIZE(1..150, ...))

AMFNameUTF8String ::= UTF8String (SIZE(1..150, ...))

AMFPagingTarget ::= CHOICE {

globalRANNodeID GlobalRANNodeID,

tAI TAI,

choice-Extensions ProtocolIE-SingleContainer { {AMFPagingTarget-ExtIEs} }

}

AMFPagingTarget-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

AMFPointer ::= BIT STRING (SIZE(6))

AMFRegionID ::= BIT STRING (SIZE(8))

AMFSetID ::= BIT STRING (SIZE(10))

AMF-TNLAssociationSetupList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF AMF-TNLAssociationSetupItem

AMF-TNLAssociationSetupItem ::= SEQUENCE {

aMF-TNLAssociationAddress CPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {AMF-TNLAssociationSetupItem-ExtIEs} } OPTIONAL,

...

}

AMF-TNLAssociationSetupItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AMF-TNLAssociationToAddList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF AMF-TNLAssociationToAddItem

AMF-TNLAssociationToAddItem ::= SEQUENCE {

aMF-TNLAssociationAddress CPTransportLayerInformation,

tNLAssociationUsage TNLAssociationUsage OPTIONAL,

tNLAddressWeightFactor TNLAddressWeightFactor,

iE-Extensions ProtocolExtensionContainer { {AMF-TNLAssociationToAddItem-ExtIEs} } OPTIONAL,

...

}

AMF-TNLAssociationToAddItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AMF-TNLAssociationToRemoveList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF AMF-TNLAssociationToRemoveItem

AMF-TNLAssociationToRemoveItem ::= SEQUENCE {

aMF-TNLAssociationAddress CPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {AMF-TNLAssociationToRemoveItem-ExtIEs} } OPTIONAL,

...

}

AMF-TNLAssociationToRemoveItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-TNLAssociationTransportLayerAddressNGRAN CRITICALITY reject EXTENSION CPTransportLayerInformation PRESENCE optional},

...

}

AMF-TNLAssociationToUpdateList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF AMF-TNLAssociationToUpdateItem

AMF-TNLAssociationToUpdateItem ::= SEQUENCE {

aMF-TNLAssociationAddress CPTransportLayerInformation,

tNLAssociationUsage TNLAssociationUsage OPTIONAL,

tNLAddressWeightFactor TNLAddressWeightFactor OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AMF-TNLAssociationToUpdateItem-ExtIEs} } OPTIONAL,

...

}

AMF-TNLAssociationToUpdateItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AMF-UE-NGAP-ID ::= INTEGER (0..1099511627775)

AreaOfInterest ::= SEQUENCE {

areaOfInterestTAIList AreaOfInterestTAIList OPTIONAL,

areaOfInterestCellList AreaOfInterestCellList OPTIONAL,

areaOfInterestRANNodeList AreaOfInterestRANNodeList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterest-ExtIEs} } OPTIONAL,

...

}

AreaOfInterest-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AreaOfInterestCellList ::= SEQUENCE (SIZE(1..maxnoofCellinAoI)) OF AreaOfInterestCellItem

AreaOfInterestCellItem ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterestCellItem-ExtIEs} } OPTIONAL,

...

}

AreaOfInterestCellItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AreaOfInterestList ::= SEQUENCE (SIZE(1..maxnoofAoI)) OF AreaOfInterestItem

AreaOfInterestItem ::= SEQUENCE {

areaOfInterest AreaOfInterest,

locationReportingReferenceID LocationReportingReferenceID,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterestItem-ExtIEs} } OPTIONAL,

...

}

AreaOfInterestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AreaOfInterestRANNodeList ::= SEQUENCE (SIZE(1..maxnoofRANNodeinAoI)) OF AreaOfInterestRANNodeItem

AreaOfInterestRANNodeItem ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterestRANNodeItem-ExtIEs} } OPTIONAL,

...

}

AreaOfInterestRANNodeItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AreaOfInterestTAIList ::= SEQUENCE (SIZE(1..maxnoofTAIinAoI)) OF AreaOfInterestTAIItem

AreaOfInterestTAIItem ::= SEQUENCE {

tAI TAI,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterestTAIItem-ExtIEs} } OPTIONAL,

...

}

AreaOfInterestTAIItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AssistanceDataForPaging ::= SEQUENCE {

assistanceDataForRecommendedCells AssistanceDataForRecommendedCells OPTIONAL,

pagingAttemptInformation PagingAttemptInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AssistanceDataForPaging-ExtIEs} } OPTIONAL,

...

}

AssistanceDataForPaging-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-NPN-PagingAssistanceInformation CRITICALITY ignore EXTENSION NPN-PagingAssistanceInformation PRESENCE optional }|

{ ID id-PagingAssisDataforCEcapabUE CRITICALITY ignore EXTENSION PagingAssisDataforCEcapabUE PRESENCE optional },

...

}

AssistanceDataForRecommendedCells ::= SEQUENCE {

recommendedCellsForPaging RecommendedCellsForPaging,

iE-Extensions ProtocolExtensionContainer { {AssistanceDataForRecommendedCells-ExtIEs} } OPTIONAL,

...

}

AssistanceDataForRecommendedCells-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AssociatedMBSQosFlowSetupRequestList ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF AssociatedMBSQosFlowSetupRequestItem

AssociatedMBSQosFlowSetupRequestItem ::= SEQUENCE {

mBS-QosFlowIdentifier QosFlowIdentifier,

associatedUnicastQosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { { AssociatedMBSQosFlowSetupRequestItem-ExtIEs} } OPTIONAL,

...

}

AssociatedMBSQosFlowSetupRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AssociatedMBSQosFlowSetuporModifyRequestList ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF AssociatedMBSQosFlowSetuporModifyRequestItem

AssociatedMBSQosFlowSetuporModifyRequestItem ::= SEQUENCE {

mBS-QosFlowIdentifier QosFlowIdentifier,

associatedUnicastQosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { { AssociatedMBSQosFlowSetuporModifyRequestItem-ExtIEs} } OPTIONAL,

...

}

AssociatedMBSQosFlowSetuporModifyRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AssociatedQosFlowList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF AssociatedQosFlowItem

AssociatedQosFlowItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

qosFlowMappingIndication ENUMERATED {ul, dl, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AssociatedQosFlowItem-ExtIEs} } OPTIONAL,

...

}

AssociatedQosFlowItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION AlternativeQoSParaSetIndex PRESENCE optional },

...

}

AssociatedSessionID ::= OCTET STRING

AUN3DeviceAccessInfo ::= SEQUENCE {

aUN3DeviceAccess ENUMERATED {true, ...},

existingNGConnectionwithSameLocation ENUMERATED {true, false, ...},

iE-Extensions ProtocolExtensionContainer { { AUN3DeviceAccessInfo-ExtIEs} } OPTIONAL,

...

}

AUN3DeviceAccessInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AuthenticatedIndication ::= ENUMERATED {true, ...}

AveragingWindow ::= INTEGER (0..4095, ...)

AreaScopeOfMDT-NR ::= CHOICE {

cellBased CellBasedMDT-NR,

tABased TABasedMDT,

pLMNWide NULL,

tAIBased TAIBasedMDT,

choice-Extensions ProtocolIE-SingleContainer { {AreaScopeOfMDT-NR-ExtIEs} }

}

AreaScopeOfMDT-NR-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-PNI-NPNBasedMDT CRITICALITY ignore TYPE PNI-NPNBasedMDT PRESENCE mandatory }|

{ ID id-SNPN-CellBasedMDT CRITICALITY ignore TYPE SNPN-CellBasedMDT PRESENCE mandatory }|

{ ID id-SNPN-TAIBasedMDT CRITICALITY ignore TYPE SNPN-TAIBasedMDT PRESENCE mandatory }|

{ ID id-SNPN-BasedMDT CRITICALITY ignore TYPE SNPN-BasedMDT PRESENCE mandatory },

...

}

AreaScopeOfMDT-EUTRA ::= CHOICE {

cellBased CellBasedMDT-EUTRA,

tABased TABasedMDT,

pLMNWide NULL,

tAIBased TAIBasedMDT,

choice-Extensions ProtocolIE-SingleContainer { {AreaScopeOfMDT-EUTRA-ExtIEs} }

}

AreaScopeOfMDT-EUTRA-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

AreaScopeOfNeighCellsList ::= SEQUENCE (SIZE(1..maxnoofFreqforMDT)) OF AreaScopeOfNeighCellsItem

AreaScopeOfNeighCellsItem ::= SEQUENCE {

nrFrequencyInfo NRFrequencyInfo,

pciListForMDT PCIListForMDT OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AreaScopeOfNeighCellsItem-ExtIEs} } OPTIONAL,

...

}

AreaScopeOfNeighCellsItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AreaScopeOfQMC ::= CHOICE {

cellBased CellBasedQMC,

tABased TABasedQMC,

tAIBased TAIBasedQMC,

pLMNAreaBased PLMNAreaBasedQMC,

choice-Extensions ProtocolIE-SingleContainer { { AreaScopeOfQMC-ExtIEs} }

}

AreaScopeOfQMC-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

AvailableRANVisibleQoEMetrics ::= SEQUENCE {

applicationLayerBufferLevelList ENUMERATED {true, ...} OPTIONAL,

playoutDelayForMediaStartup ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AvailableRANVisibleQoEMetrics-ExtIEs} } OPTIONAL,

...

}

AvailableRANVisibleQoEMetrics-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- B

BeamMeasurementsReportConfiguration ::= SEQUENCE {

beamMeasurementsReportQuantity BeamMeasurementsReportQuantity OPTIONAL,

maxNrofRS-IndexesToReport MaxNrofRS-IndexesToReport OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BeamMeasurementsReportConfiguration-ExtIEs} } OPTIONAL,

...

}

BeamMeasurementsReportConfiguration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BeamMeasurementsReportQuantity ::= SEQUENCE {

rSRP ENUMERATED {true, ...},

rSRQ ENUMERATED {true, ...},

sINR ENUMERATED {true, ...},

iE-Extensions ProtocolExtensionContainer { { BeamMeasurementsReportQuantity-ExtIEs} } OPTIONAL,

...

}

BeamMeasurementsReportQuantity-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BitRate ::= INTEGER (0..4000000000000, ...)

BroadcastCancelledAreaList ::= CHOICE {

cellIDCancelledEUTRA CellIDCancelledEUTRA,

tAICancelledEUTRA TAICancelledEUTRA,

emergencyAreaIDCancelledEUTRA EmergencyAreaIDCancelledEUTRA,

cellIDCancelledNR CellIDCancelledNR,

tAICancelledNR TAICancelledNR,

emergencyAreaIDCancelledNR EmergencyAreaIDCancelledNR,

choice-Extensions ProtocolIE-SingleContainer { {BroadcastCancelledAreaList-ExtIEs} }

}

BroadcastCancelledAreaList-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

BroadcastCompletedAreaList ::= CHOICE {

cellIDBroadcastEUTRA CellIDBroadcastEUTRA,

tAIBroadcastEUTRA TAIBroadcastEUTRA,

emergencyAreaIDBroadcastEUTRA EmergencyAreaIDBroadcastEUTRA,

cellIDBroadcastNR CellIDBroadcastNR,

tAIBroadcastNR TAIBroadcastNR,

emergencyAreaIDBroadcastNR EmergencyAreaIDBroadcastNR,

choice-Extensions ProtocolIE-SingleContainer { {BroadcastCompletedAreaList-ExtIEs} }

}

BroadcastCompletedAreaList-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

BroadcastPLMNList ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF BroadcastPLMNItem

BroadcastPLMNItem ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

tAISliceSupportList SliceSupportList,

iE-Extensions ProtocolExtensionContainer { {BroadcastPLMNItem-ExtIEs} } OPTIONAL,

...

}

BroadcastPLMNItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-NPN-Support CRITICALITY reject EXTENSION NPN-Support PRESENCE optional}|

{ID id-ExtendedTAISliceSupportList CRITICALITY reject EXTENSION ExtendedSliceSupportList PRESENCE optional}|

{ID id-TAINSAGSupportList CRITICALITY ignore EXTENSION TAINSAGSupportList PRESENCE optional},

...

}

BroadcastTransportFailureTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BroadcastTransportFailureTransfer-ExtIEs} } OPTIONAL,

...

}

BroadcastTransportFailureTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BroadcastTransportRequestTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-SessionTNLInfoNGRAN MBS-SessionTNLInfoNGRAN,

iE-Extensions ProtocolExtensionContainer { {BroadcastTransportRequestTransfer-ExtIEs} } OPTIONAL,

...

}

BroadcastTransportRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BroadcastTransportResponseTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

iE-Extensions ProtocolExtensionContainer { {BroadcastTransportResponseTransfer-ExtIEs} } OPTIONAL,

...

}

BroadcastTransportResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BluetoothMeasurementConfiguration ::= SEQUENCE {

bluetoothMeasConfig BluetoothMeasConfig,

bluetoothMeasConfigNameList BluetoothMeasConfigNameList OPTIONAL,

bt-rssi ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BluetoothMeasurementConfiguration-ExtIEs } } OPTIONAL,

...

}

BluetoothMeasurementConfiguration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BluetoothMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofBluetoothName)) OF BluetoothMeasConfigNameItem

BluetoothMeasConfigNameItem ::= SEQUENCE {

bluetoothName BluetoothName,

iE-Extensions ProtocolExtensionContainer { { BluetoothMeasConfigNameItem-ExtIEs } } OPTIONAL,

...

}

BluetoothMeasConfigNameItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

BluetoothMeasConfig::= ENUMERATED {setup,...}

BluetoothName ::= OCTET STRING (SIZE (1..248))

BurstArrivalTime ::= OCTET STRING

BurstArrivalTimeWindow ::= SEQUENCE {

burstArrivalTimeWindowStart INTEGER (0..640000, ...),

burstArrivalTimeWindowEnd INTEGER (0..640000, ...),

iE-Extension ProtocolExtensionContainer { {BurstArrivalTimeWindow-ExtIEs} } OPTIONAL,

...

}

BurstArrivalTimeWindow-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- C

CAG-ID ::= BIT STRING (SIZE(32))

CandidateRelayUEInformationList ::= SEQUENCE (SIZE(1.. maxnoofCandidateRelayUEs)) OF CandidateRelayUEInformationItem

CandidateRelayUEInformationItem ::= SEQUENCE {

candidateRelayUE-Id CandidateRelayUE-ID,

iE-Extensions ProtocolExtensionContainer { { CandidateRelayUEInformationItem-ExtIEs} } OPTIONAL,

...

}

CandidateRelayUEInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CandidateRelayUE-ID ::= BIT STRING (SIZE(24))

CancelAllWarningMessages ::= ENUMERATED {

true,

...

}

CancelledCellsInEAI-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellinEAI)) OF CancelledCellsInEAI-EUTRA-Item

CancelledCellsInEAI-EUTRA-Item ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CancelledCellsInEAI-EUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CancelledCellsInEAI-EUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CancelledCellsInEAI-NR ::= SEQUENCE (SIZE(1..maxnoofCellinEAI)) OF CancelledCellsInEAI-NR-Item

CancelledCellsInEAI-NR-Item ::= SEQUENCE {

nR-CGI NR-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CancelledCellsInEAI-NR-Item-ExtIEs} } OPTIONAL,

...

}

CancelledCellsInEAI-NR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CancelledCellsInTAI-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellinTAI)) OF CancelledCellsInTAI-EUTRA-Item

CancelledCellsInTAI-EUTRA-Item ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CancelledCellsInTAI-EUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CancelledCellsInTAI-EUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CancelledCellsInTAI-NR ::= SEQUENCE (SIZE(1..maxnoofCellinTAI)) OF CancelledCellsInTAI-NR-Item

CancelledCellsInTAI-NR-Item ::= SEQUENCE{

nR-CGI NR-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CancelledCellsInTAI-NR-Item-ExtIEs} } OPTIONAL,

...

}

CancelledCellsInTAI-NR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CandidateCellList ::= SEQUENCE (SIZE(1.. maxnoofCandidateCells)) OF CandidateCellItem

CandidateCellItem ::= SEQUENCE{

candidateCell CandidateCell,

iE-Extensions ProtocolExtensionContainer { {CandidateCellItem-ExtIEs} } OPTIONAL,

...

}

CandidateCellItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CandidateCell::= CHOICE {

candidateCGI CandidateCellID,

candidatePCI CandidatePCI,

choice-Extensions ProtocolIE-SingleContainer { { CandidateCell-ExtIEs} }

}

CandidateCell-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

CandidateCellID::= SEQUENCE {

candidateCellID NR-CGI,

iE-Extensions ProtocolExtensionContainer { { CandidateCellID-ExtIEs} } OPTIONAL,

...

}

CandidateCellID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CandidatePCI::= SEQUENCE {

candidatePCI INTEGER (0..1007, ...),

candidateNRARFCN INTEGER (0..maxNRARFCN),

iE-Extensions ProtocolExtensionContainer { { CandidatePCI-ExtIEs} } OPTIONAL,

...

}

CandidatePCI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Cause ::= CHOICE {

radioNetwork CauseRadioNetwork,

transport CauseTransport,

nas CauseNas,

protocol CauseProtocol,

misc CauseMisc,

choice-Extensions ProtocolIE-SingleContainer { {Cause-ExtIEs} }

}

Cause-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

CauseMisc ::= ENUMERATED {

control-processing-overload,

not-enough-user-plane-processing-resources,

hardware-failure,

om-intervention,

unknown-PLMN-or-SNPN,

unspecified,

...

}

CauseNas ::= ENUMERATED {

normal-release,

authentication-failure,

deregister,

unspecified,

...,

uE-not-in-PLMN-serving-area,

mobile-IAB-not-authorized,

iAB-not-authorized

}

CauseProtocol ::= ENUMERATED {

transfer-syntax-error,

abstract-syntax-error-reject,

abstract-syntax-error-ignore-and-notify,

message-not-compatible-with-receiver-state,

semantic-error,

abstract-syntax-error-falsely-constructed-message,

unspecified,

...

}

CauseRadioNetwork ::= ENUMERATED {

unspecified,

txnrelocoverall-expiry,

successful-handover,

release-due-to-ngran-generated-reason,

release-due-to-5gc-generated-reason,

handover-cancelled,

partial-handover,

ho-failure-in-target-5GC-ngran-node-or-target-system,

ho-target-not-allowed,

tngrelocoverall-expiry,

tngrelocprep-expiry,

cell-not-available,

unknown-targetID,

no-radio-resources-available-in-target-cell,

unknown-local-UE-NGAP-ID,

inconsistent-remote-UE-NGAP-ID,

handover-desirable-for-radio-reason,

time-critical-handover,

resource-optimisation-handover,

reduce-load-in-serving-cell,

user-inactivity,

radio-connection-with-ue-lost,

radio-resources-not-available,

invalid-qos-combination,

failure-in-radio-interface-procedure,

interaction-with-other-procedure,

unknown-PDU-session-ID,

unkown-qos-flow-ID,

multiple-PDU-session-ID-instances,

multiple-qos-flow-ID-instances,

encryption-and-or-integrity-protection-algorithms-not-supported,

ng-intra-system-handover-triggered,

ng-inter-system-handover-triggered,

xn-handover-triggered,

not-supported-5QI-value,

ue-context-transfer,

ims-voice-eps-fallback-or-rat-fallback-triggered,

up-integrity-protection-not-possible,

up-confidentiality-protection-not-possible,

slice-not-supported,

ue-in-rrc-inactive-state-not-reachable,

redirection,

resources-not-available-for-the-slice,

ue-max-integrity-protected-data-rate-reason,

release-due-to-cn-detected-mobility,

...,

n26-interface-not-available,

release-due-to-pre-emption,

multiple-location-reporting-reference-ID-instances,

rsn-not-available-for-the-up,

npn-access-denied,

cag-only-access-denied,

insufficient-ue-capabilities,

redcap-ue-not-supported,

unknown-MBS-Session-ID,

indicated-MBS-session-area-information-not-served-by-the-gNB,

inconsistent-slice-info-for-the-session,

misaligned-association-for-multicast-unicast,

eredcap-ue-not-supported,

two-rx-xr-ue-not-supported

}

CauseTransport ::= ENUMERATED {

transport-resource-unavailable,

unspecified,

...

}

Cell-CAGInformation ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

cellCAGList CellCAGList,

iE-Extensions ProtocolExtensionContainer { {Cell-CAGInformation-ExtIEs} } OPTIONAL,

...

}

Cell-CAGInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellCAGList ::= SEQUENCE (SIZE(1..maxnoofCAGSperCell)) OF CAG-ID

CellIDBroadcastEUTRA ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF CellIDBroadcastEUTRA-Item

CellIDBroadcastEUTRA-Item ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

iE-Extensions ProtocolExtensionContainer { {CellIDBroadcastEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CellIDBroadcastEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIDBroadcastNR ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF CellIDBroadcastNR-Item

CellIDBroadcastNR-Item ::= SEQUENCE {

nR-CGI NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CellIDBroadcastNR-Item-ExtIEs} } OPTIONAL,

...

}

CellIDBroadcastNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIDCancelledEUTRA ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF CellIDCancelledEUTRA-Item

CellIDCancelledEUTRA-Item ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CellIDCancelledEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CellIDCancelledEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIDCancelledNR ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF CellIDCancelledNR-Item

CellIDCancelledNR-Item ::= SEQUENCE {

nR-CGI NR-CGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { {CellIDCancelledNR-Item-ExtIEs} } OPTIONAL,

...

}

CellIDCancelledNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIDListForRestart ::= CHOICE {

eUTRA-CGIListforRestart EUTRA-CGIList,

nR-CGIListforRestart NR-CGIList,

choice-Extensions ProtocolIE-SingleContainer { {CellIDListForRestart-ExtIEs} }

}

CellIDListForRestart-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

CellSize ::= ENUMERATED {verysmall, small, medium, large, ...}

CellType ::= SEQUENCE {

cellSize CellSize,

iE-Extensions ProtocolExtensionContainer { {CellType-ExtIEs} } OPTIONAL,

...

}

CellType-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CEmodeBSupport-Indicator ::= ENUMERATED {supported,...}

CEmodeBrestricted ::= ENUMERATED {

restricted,

not-restricted,

...

}

ClockAccuracy ::= CHOICE {

clockAccuracyValue INTEGER (1..40000000, ...),

clockAccuracyIndex INTEGER (32..47, ...),

choice-Extensions ProtocolIE-SingleContainer { { ClockAccuracy-ExtIEs} }

}

ClockAccuracy-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

ClockQualityAcceptanceIndication ::= SEQUENCE {

clockQualityAcceptanceCriteria ClockQualityAcceptanceCriteria,

iE-Extensions ProtocolExtensionContainer { {ClockQualityAcceptanceIndication-ExtIEs} } OPTIONAL,

...

}

ClockQualityAcceptanceIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityAcceptanceCriteria ::= SEQUENCE {

synchronisationState BIT STRING (SIZE(8, ...)) OPTIONAL,

traceabletoUTC ENUMERATED {true, ...} OPTIONAL,

traceabletoGNSS ENUMERATED {true, ...} OPTIONAL,

clockFrequencyStability BIT STRING (SIZE(16)) OPTIONAL,

clockAccuracy INTEGER (1..40000000, ...) OPTIONAL,

parentTImeSource BIT STRING (SIZE(16, ...)) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ClockQualityAcceptanceCriteria-ExtIEs} } OPTIONAL,

...

}

ClockQualityAcceptanceCriteria-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityReportingControlInfo ::= SEQUENCE {

clockQualityDetailLevel ClockQualityDetailLevel,

iE-Extensions ProtocolExtensionContainer { {ClockQualityReportingControlInfo-ExtIEs} } OPTIONAL,

...

}

ClockQualityReportingControlInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityDetailLevel ::= CHOICE {

clockQualityMetrics NULL,

clockQualityAcceptanceIndication ClockQualityAcceptanceIndication,

choice-extensions ProtocolIE-SingleContainer { {ClockQualityDetailLevel-ExtIEs} }

}

ClockQualityDetailLevel-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

CNAssistedRANTuning ::= SEQUENCE {

expectedUEBehaviour ExpectedUEBehaviour OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CNAssistedRANTuning-ExtIEs} } OPTIONAL,

...

}

CNAssistedRANTuning-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CNsubgroupID ::= INTEGER (0..7, ...)

CNTypeRestrictionsForEquivalent ::= SEQUENCE (SIZE(1..maxnoofEPLMNs)) OF CNTypeRestrictionsForEquivalentItem

CNTypeRestrictionsForEquivalentItem ::= SEQUENCE {

plmnIdentity PLMNIdentity,

cn-Type ENUMERATED {epc-forbidden, fiveGC-forbidden, ...},

iE-Extensions ProtocolExtensionContainer { {CNTypeRestrictionsForEquivalentItem-ExtIEs} } OPTIONAL,

...

}

CNTypeRestrictionsForEquivalentItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::={

...

}

CNTypeRestrictionsForServing ::= ENUMERATED {

epc-forbidden,

...

}

CommandRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { CommandRequestTransferIEs} },

...

}

CommandRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-RAN-AIOT-Device-NGAP-ID CRITICALITY reject TYPE RAN-AIOT-Device-NGAP-ID PRESENCE mandatory }|

{ ID id-AIoT-NASPDU CRITICALITY reject TYPE AIoT-NASPDU PRESENCE mandatory }|

{ ID id-AIoT-CommandAssistanceInformation CRITICALITY reject TYPE AIoT-CommandAssistanceInformation PRESENCE optional },

...

}

CommandResponseTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

rAN-AIOT-Device-NGAP-ID RAN-AIOT-Device-NGAP-ID,

aIoT-NASPDU AIoT-NASPDU,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CommandResponseTransfer-ExtIEs} } OPTIONAL,

...

}

CommandResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CommandFailureTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

rAN-AIOT-Device-NGAP-ID RAN-AIOT-Device-NGAP-ID,

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CommandFailureTransfer-ExtIEs} } OPTIONAL,

...

}

CommandFailureTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CommonNetworkInstance ::= OCTET STRING

CompletedCellsInEAI-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellinEAI)) OF CompletedCellsInEAI-EUTRA-Item

CompletedCellsInEAI-EUTRA-Item ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

iE-Extensions ProtocolExtensionContainer { {CompletedCellsInEAI-EUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CompletedCellsInEAI-EUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CompletedCellsInEAI-NR ::= SEQUENCE (SIZE(1..maxnoofCellinEAI)) OF CompletedCellsInEAI-NR-Item

CompletedCellsInEAI-NR-Item ::= SEQUENCE {

nR-CGI NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CompletedCellsInEAI-NR-Item-ExtIEs} } OPTIONAL,

...

}

CompletedCellsInEAI-NR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CompletedCellsInTAI-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellinTAI)) OF CompletedCellsInTAI-EUTRA-Item

CompletedCellsInTAI-EUTRA-Item ::= SEQUENCE{

eUTRA-CGI EUTRA-CGI,

iE-Extensions ProtocolExtensionContainer { {CompletedCellsInTAI-EUTRA-Item-ExtIEs} } OPTIONAL,

...

}

CompletedCellsInTAI-EUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CompletedCellsInTAI-NR ::= SEQUENCE (SIZE(1..maxnoofCellinTAI)) OF CompletedCellsInTAI-NR-Item

CompletedCellsInTAI-NR-Item ::= SEQUENCE{

nR-CGI NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CompletedCellsInTAI-NR-Item-ExtIEs} } OPTIONAL,

...

}

CompletedCellsInTAI-NR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ConcurrentWarningMessageInd ::= ENUMERATED {

true,

...

}

ConfidentialityProtectionIndication ::= ENUMERATED {

required,

preferred,

not-needed,

...

}

ConfidentialityProtectionResult ::= ENUMERATED {

performed,

not-performed,

...

}

ConfiguredTACIndication ::= ENUMERATED {

true,

...

}

CoreNetworkAssistanceInformationForInactive ::= SEQUENCE {

uEIdentityIndexValue UEIdentityIndexValue,

uESpecificDRX PagingDRX OPTIONAL,

periodicRegistrationUpdateTimer PeriodicRegistrationUpdateTimer,

mICOModeIndication MICOModeIndication OPTIONAL,

tAIListForInactive TAIListForInactive,

expectedUEBehaviour ExpectedUEBehaviour OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CoreNetworkAssistanceInformationForInactive-ExtIEs} } OPTIONAL,

...

}

CoreNetworkAssistanceInformationForInactive-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-EUTRA-PagingeDRXInformation CRITICALITY ignore EXTENSION EUTRA-PagingeDRXInformation PRESENCE optional }|

{ ID id-ExtendedUEIdentityIndexValue CRITICALITY ignore EXTENSION ExtendedUEIdentityIndexValue PRESENCE optional }|

{ ID id-UERadioCapabilityForPaging CRITICALITY ignore EXTENSION UERadioCapabilityForPaging PRESENCE optional }|

{ ID id-MicoAllPLMN CRITICALITY ignore EXTENSION MicoAllPLMN PRESENCE optional }|

{ ID id-NR-PagingeDRXInformation CRITICALITY ignore EXTENSION NR-PagingeDRXInformation PRESENCE optional }|

{ ID id-PagingCauseIndicationForVoiceService CRITICALITY ignore EXTENSION PagingCauseIndicationForVoiceService PRESENCE optional }|

{ ID id-PEIPSassistanceInformation CRITICALITY ignore EXTENSION PEIPSassistanceInformation PRESENCE optional }|

{ ID id-HashedUEIdentityIndexValue CRITICALITY ignore EXTENSION HashedUEIdentityIndexValue PRESENCE optional }|

{ ID id-CN-MT-CommunicationHandling CRITICALITY ignore EXTENSION CN-MT-CommunicationHandling PRESENCE optional },

...

}

CN-MT-CommunicationHandling ::= ENUMERATED {supported, ...}

COUNTValueForPDCP-SN12 ::= SEQUENCE {

pDCP-SN12 INTEGER (0..4095),

hFN-PDCP-SN12 INTEGER (0..1048575),

iE-Extensions ProtocolExtensionContainer { {COUNTValueForPDCP-SN12-ExtIEs} } OPTIONAL,

...

}

COUNTValueForPDCP-SN12-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

COUNTValueForPDCP-SN18 ::= SEQUENCE {

pDCP-SN18 INTEGER (0..262143),

hFN-PDCP-SN18 INTEGER (0..16383),

iE-Extensions ProtocolExtensionContainer { {COUNTValueForPDCP-SN18-ExtIEs} } OPTIONAL,

...

}

COUNTValueForPDCP-SN18-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CoverageEnhancementLevel ::= OCTET STRING

CPTransportLayerInformation ::= CHOICE {

endpointIPAddress TransportLayerAddress,

choice-Extensions ProtocolIE-SingleContainer { {CPTransportLayerInformation-ExtIEs} }

}

CPTransportLayerInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-EndpointIPAddressAndPort CRITICALITY reject TYPE EndpointIPAddressAndPort PRESENCE mandatory },

...

}

CriticalityDiagnostics ::= SEQUENCE {

procedureCode ProcedureCode OPTIONAL,

triggeringMessage TriggeringMessage OPTIONAL,

procedureCriticality Criticality OPTIONAL,

iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer {{CriticalityDiagnostics-ExtIEs}} OPTIONAL,

...

}

CriticalityDiagnostics-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE(1..maxnoofErrors)) OF CriticalityDiagnostics-IE-Item

CriticalityDiagnostics-IE-Item ::= SEQUENCE {

iECriticality Criticality,

iE-ID ProtocolIE-ID,

typeOfError TypeOfError,

iE-Extensions ProtocolExtensionContainer {{CriticalityDiagnostics-IE-Item-ExtIEs}} OPTIONAL,

...

}

CriticalityDiagnostics-IE-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

C-RNTI ::= BIT STRING (SIZE(16))

CellBasedMDT-NR::= SEQUENCE {

cellIdListforMDT CellIdListforMDT-NR,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-NR-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-NR-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-NR ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF NR-CGI

CellBasedMDT-EUTRA::= SEQUENCE {

cellIdListforMDT CellIdListforMDT-EUTRA,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-EUTRA-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-EUTRA-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellBasedQMC ::= SEQUENCE {

cellIdListforQMC CellIdListforQMC,

iE-Extensions ProtocolExtensionContainer { {CellBasedQMC-ExtIEs} } OPTIONAL,

...

}

CellBasedQMC-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforQMC ::= SEQUENCE (SIZE(1..maxnoofCellIDforQMC)) OF NGRAN-CGI

CellIdListforMDT-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF EUTRA-CGI

CAGListforMDT ::= SEQUENCE (SIZE(1.. maxnoofCAGforMDT)) OF CAGListforMDTItem

CAGListforMDTItem ::= SEQUENCE {

plmnID PLMNIdentity,

cAGID CAG-ID,

iE-Extensions ProtocolExtensionContainer { {CAGListforMDTItem-ExtIEs} } OPTIONAL,

...

}

CAGListforMDTItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::={

...

}

-- D

DataCodingScheme ::= BIT STRING (SIZE(8))

DataForwardingAccepted ::= ENUMERATED {

data-forwarding-accepted,

...

}

DataForwardingNotPossible ::= ENUMERATED {

data-forwarding-not-possible,

...

}

DataForwardingResponseDRBList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DataForwardingResponseDRBItem

DataForwardingResponseDRBItem ::= SEQUENCE {

dRB-ID DRB-ID,

dLForwardingUP-TNLInformation UPTransportLayerInformation OPTIONAL,

uLForwardingUP-TNLInformation UPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer {{DataForwardingResponseDRBItem-ExtIEs}} OPTIONAL,

...

}

DataForwardingResponseDRBItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DAPSRequestInfo ::= SEQUENCE {

dAPSIndicator ENUMERATED {daps-ho-required, ...},

iE-Extensions ProtocolExtensionContainer { {DAPSRequestInfo-ExtIEs} } OPTIONAL,

...

}

DAPSRequestInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DAPSResponseInfoList ::= SEQUENCE (SIZE(1.. maxnoofDRBs)) OF DAPSResponseInfoItem

DAPSResponseInfoItem ::= SEQUENCE {

dRB-ID DRB-ID,

dAPSResponseInfo DAPSResponseInfo,

iE-Extension ProtocolExtensionContainer { {DAPSResponseInfoItem-ExtIEs} } OPTIONAL,

...

}

DAPSResponseInfoItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DAPSResponseInfo ::= SEQUENCE {

dapsresponseindicator ENUMERATED {daps-ho-accepted, daps-ho-not-accepted, ...},

iE-Extensions ProtocolExtensionContainer { { DAPSResponseInfo-ExtIEs} } OPTIONAL,

...

}

DAPSResponseInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DataForwardingResponseERABList ::= SEQUENCE (SIZE(1..maxnoofE-RABs)) OF DataForwardingResponseERABListItem

DataForwardingResponseERABListItem ::= SEQUENCE {

e-RAB-ID E-RAB-ID,

dLForwardingUP-TNLInformation UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {DataForwardingResponseERABListItem-ExtIEs} } OPTIONAL,

...

}

DataForwardingResponseERABListItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DelayCritical ::= ENUMERATED {

delay-critical,

non-delay-critical,

...

}

DL-CP-SecurityInformation ::= SEQUENCE {

dl-NAS-MAC DL-NAS-MAC,

iE-Extensions ProtocolExtensionContainer { { DL-CP-SecurityInformation-ExtIEs} } OPTIONAL,

...

}

DL-CP-SecurityInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DL-Signalling ::= ENUMERATED {true, ...}

DL-NAS-MAC ::= BIT STRING (SIZE (16))

DLForwarding ::= ENUMERATED {

dl-forwarding-proposed,

...

}

DL-NGU-TNLInformationReused ::= ENUMERATED {

true,

...

}

DirectForwardingPathAvailability ::= ENUMERATED {

direct-path-available,

...

}

DRB-ID ::= INTEGER (1..32, ...)

DRBsSubjectToStatusTransferList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsSubjectToStatusTransferItem

DRBsSubjectToStatusTransferItem ::= SEQUENCE {

dRB-ID DRB-ID,

dRBStatusUL DRBStatusUL,

dRBStatusDL DRBStatusDL,

iE-Extension ProtocolExtensionContainer { {DRBsSubjectToStatusTransferItem-ExtIEs} } OPTIONAL,

...

}

DRBsSubjectToStatusTransferItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-OldAssociatedQosFlowList-ULendmarkerexpected CRITICALITY ignore EXTENSION AssociatedQosFlowList PRESENCE optional },

...

}

DRBStatusDL ::= CHOICE {

dRBStatusDL12 DRBStatusDL12,

dRBStatusDL18 DRBStatusDL18,

choice-Extensions ProtocolIE-SingleContainer { {DRBStatusDL-ExtIEs} }

}

DRBStatusDL-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

DRBStatusDL12 ::= SEQUENCE {

dL-COUNTValue COUNTValueForPDCP-SN12,

iE-Extension ProtocolExtensionContainer { {DRBStatusDL12-ExtIEs} } OPTIONAL,

...

}

DRBStatusDL12-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBStatusDL18 ::= SEQUENCE {

dL-COUNTValue COUNTValueForPDCP-SN18,

iE-Extension ProtocolExtensionContainer { {DRBStatusDL18-ExtIEs} } OPTIONAL,

...

}

DRBStatusDL18-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBStatusUL ::= CHOICE {

dRBStatusUL12 DRBStatusUL12,

dRBStatusUL18 DRBStatusUL18,

choice-Extensions ProtocolIE-SingleContainer { {DRBStatusUL-ExtIEs} }

}

DRBStatusUL-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

DRBStatusUL12 ::= SEQUENCE {

uL-COUNTValue COUNTValueForPDCP-SN12,

receiveStatusOfUL-PDCP-SDUs BIT STRING (SIZE(1..2048)) OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DRBStatusUL12-ExtIEs} } OPTIONAL,

...

}

DRBStatusUL12-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBStatusUL18 ::= SEQUENCE {

uL-COUNTValue COUNTValueForPDCP-SN18,

receiveStatusOfUL-PDCP-SDUs BIT STRING (SIZE(1..131072)) OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DRBStatusUL18-ExtIEs} } OPTIONAL,

...

}

DRBStatusUL18-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToQosFlowsMappingList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToQosFlowsMappingItem

DRBsToQosFlowsMappingItem ::= SEQUENCE {

dRB-ID DRB-ID,

associatedQosFlowList AssociatedQosFlowList,

iE-Extensions ProtocolExtensionContainer { {DRBsToQosFlowsMappingItem-ExtIEs} } OPTIONAL,

...

}

DRBsToQosFlowsMappingItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-DAPSRequestInfo CRITICALITY ignore EXTENSION DAPSRequestInfo PRESENCE optional },

...

}

Dynamic5QIDescriptor ::= SEQUENCE {

priorityLevelQos PriorityLevelQos,

packetDelayBudget PacketDelayBudget,

packetErrorRate PacketErrorRate,

fiveQI FiveQI OPTIONAL,

delayCritical DelayCritical OPTIONAL,

-- The above IE shall be present in case of GBR QoS flow

averagingWindow AveragingWindow OPTIONAL,

-- The above IE shall be present in case of GBR QoS flow

maximumDataBurstVolume MaximumDataBurstVolume OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Dynamic5QIDescriptor-ExtIEs} } OPTIONAL,

...

}

Dynamic5QIDescriptor-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-ExtendedPacketDelayBudget CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-CNPacketDelayBudgetDL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-CNPacketDelayBudgetUL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional },

...

}

-- E

EarlyMeasurement ::= ENUMERATED {true, ...}

EarlyStatusTransfer-TransparentContainer ::= SEQUENCE {

procedureStage ProcedureStageChoice,

iE-Extensions ProtocolExtensionContainer { {EarlyStatusTransfer-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

EarlyStatusTransfer-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ProcedureStageChoice ::= CHOICE {

first-dl-count FirstDLCount,

choice-Extensions ProtocolIE-SingleContainer { {ProcedureStageChoice-ExtIEs} }

}

ProcedureStageChoice-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-DLDiscarding CRITICALITY ignore TYPE DLDiscarding PRESENCE mandatory },

...

}

DLDiscarding ::= SEQUENCE {

dRBsSubjectToDLDiscarding DRBsSubjectToDLDiscarding-List,

iE-Extension ProtocolExtensionContainer { {DLDiscarding-ExtIEs} } OPTIONAL,

...

}

DLDiscarding-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsSubjectToDLDiscarding-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRBsSubjectToDLDiscarding-Item

DRBsSubjectToDLDiscarding-Item ::= SEQUENCE {

drbID DRB-ID,

dlCount DLCountChoice,

iE-Extension ProtocolExtensionContainer { { DRBsSubjectToDLDiscarding-Item-ExtIEs} } OPTIONAL,

...

}

DRBsSubjectToDLDiscarding-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DLCountChoice ::= CHOICE {

count12bits COUNTValueForPDCP-SN12,

count18bits COUNTValueForPDCP-SN18,

choice-extension ProtocolIE-SingleContainer { {DLCountChoice-ExtIEs} }

}

DLCountChoice-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

FirstDLCount ::= SEQUENCE {

dRBsSubjectToEarlyStatusTransfer DRBsSubjectToEarlyStatusTransfer-List,

iE-Extension ProtocolExtensionContainer { {FirstDLCount-ExtIEs} } OPTIONAL,

...

}

FirstDLCount-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsSubjectToEarlyStatusTransfer-List ::= SEQUENCE (SIZE (1.. maxnoofDRBs)) OF DRBsSubjectToEarlyStatusTransfer-Item

DRBsSubjectToEarlyStatusTransfer-Item ::= SEQUENCE {

dRB-ID DRB-ID,

firstDLCOUNT DRBStatusDL,

iE-Extension ProtocolExtensionContainer { { DRBsSubjectToEarlyStatusTransfer-Item-ExtIEs} } OPTIONAL,

...

}

DRBsSubjectToEarlyStatusTransfer-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ECNMarkingorCongestionInformationReportingRequest ::= CHOICE {

eCNMarkingAtRANRequest ECNMarkingAtRANRequest,

eCNMarkingAtUPFRequest ECNMarkingAtUPFRequest,

congestionInformationRequest CongestionInformationRequest,

choice-Extensions ProtocolIE-SingleContainer { {ECNMarkingorCongestionInformationReportingRequest-ExtIEs} }

}

ECNMarkingorCongestionInformationReportingRequest-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

ECNMarkingAtRANRequest ::= ENUMERATED {ul, dl, both, stop, ...}

ECNMarkingAtUPFRequest ::= ENUMERATED {ul, dl, both, stop, ...}

CongestionInformationRequest ::= ENUMERATED {ul, dl, both, stop, ...}

ECNMarkingorCongestionInformationReportingStatus ::= SEQUENCE (SIZE (1..maxnoofQosFlows)) OF ECNMarkingorCongestionInformationReportingStatus-Item

ECNMarkingorCongestionInformationReportingStatus-Item ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

activationStatus ActivationStatus,

iE-Extension ProtocolExtensionContainer { { ECNMarkingorCongestionInformationReportingStatus-Item-ExtIEs} } OPTIONAL,

...

}

ECNMarkingorCongestionInformationReportingStatus-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ActivationStatus ::= ENUMERATED {

active,

not-active,

...

}

EDT-Session ::= ENUMERATED {

true,

...

}

EmergencyAreaID ::= OCTET STRING (SIZE(3))

EmergencyAreaIDBroadcastEUTRA ::= SEQUENCE (SIZE(1..maxnoofEmergencyAreaID)) OF EmergencyAreaIDBroadcastEUTRA-Item

EmergencyAreaIDBroadcastEUTRA-Item ::= SEQUENCE {

emergencyAreaID EmergencyAreaID,

completedCellsInEAI-EUTRA CompletedCellsInEAI-EUTRA,

iE-Extensions ProtocolExtensionContainer { {EmergencyAreaIDBroadcastEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

EmergencyAreaIDBroadcastEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EmergencyAreaIDBroadcastNR ::= SEQUENCE (SIZE(1..maxnoofEmergencyAreaID)) OF EmergencyAreaIDBroadcastNR-Item

EmergencyAreaIDBroadcastNR-Item ::= SEQUENCE {

emergencyAreaID EmergencyAreaID,

completedCellsInEAI-NR CompletedCellsInEAI-NR,

iE-Extensions ProtocolExtensionContainer { {EmergencyAreaIDBroadcastNR-Item-ExtIEs} } OPTIONAL,

...

}

EmergencyAreaIDBroadcastNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EmergencyAreaIDCancelledEUTRA ::= SEQUENCE (SIZE(1..maxnoofEmergencyAreaID)) OF EmergencyAreaIDCancelledEUTRA-Item

EmergencyAreaIDCancelledEUTRA-Item ::= SEQUENCE {

emergencyAreaID EmergencyAreaID,

cancelledCellsInEAI-EUTRA CancelledCellsInEAI-EUTRA,

iE-Extensions ProtocolExtensionContainer { {EmergencyAreaIDCancelledEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

EmergencyAreaIDCancelledEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EmergencyAreaIDCancelledNR ::= SEQUENCE (SIZE(1..maxnoofEmergencyAreaID)) OF EmergencyAreaIDCancelledNR-Item

EmergencyAreaIDCancelledNR-Item ::= SEQUENCE {

emergencyAreaID EmergencyAreaID,

cancelledCellsInEAI-NR CancelledCellsInEAI-NR,

iE-Extensions ProtocolExtensionContainer { {EmergencyAreaIDCancelledNR-Item-ExtIEs} } OPTIONAL,

...

}

EmergencyAreaIDCancelledNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EmergencyAreaIDList ::= SEQUENCE (SIZE(1..maxnoofEmergencyAreaID)) OF EmergencyAreaID

EmergencyAreaIDListForRestart ::= SEQUENCE (SIZE(1..maxnoofEAIforRestart)) OF EmergencyAreaID

EmergencyFallbackIndicator ::= SEQUENCE {

emergencyFallbackRequestIndicator EmergencyFallbackRequestIndicator,

emergencyServiceTargetCN EmergencyServiceTargetCN OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {EmergencyFallbackIndicator-ExtIEs} } OPTIONAL,

...

}

EmergencyFallbackIndicator-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EmergencyFallbackRequestIndicator ::= ENUMERATED {

emergency-fallback-requested,

...

}

EmergencyServiceTargetCN ::= ENUMERATED {

fiveGC,

epc,

...

}

ENB-ID ::= CHOICE {

macroENB-ID BIT STRING (SIZE(20)),

homeENB-ID BIT STRING (SIZE(28)),

short-macroENB-ID BIT STRING (SIZE(18)),

long-macroENB-ID BIT STRING (SIZE(21)),

choice-Extensions ProtocolIE-SingleContainer { { ENB-ID-ExtIEs} }

}

ENB-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

Enhanced-CoverageRestriction ::= ENUMERATED {restricted, ... }

Extended-ConnectedTime ::= INTEGER (0..255)

EN-DCSONConfigurationTransfer ::= OCTET STRING

EndpointIPAddressAndPort ::=SEQUENCE {

endpointIPAddress TransportLayerAddress,

portNumber PortNumber,

iE-Extensions ProtocolExtensionContainer { { EndpointIPAddressAndPort-ExtIEs} } OPTIONAL

}

EndIndication ::= ENUMERATED {

no-further-data,

further-data-exists,

...

}

EndpointIPAddressAndPort-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EquivalentPLMNs ::= SEQUENCE (SIZE(1..maxnoofEPLMNs)) OF PLMNIdentity

EPS-TAC ::= OCTET STRING (SIZE(2))

EPS-TAI ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

ePS-TAC EPS-TAC,

iE-Extensions ProtocolExtensionContainer { {EPS-TAI-ExtIEs} } OPTIONAL,

...

}

EPS-TAI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

E-RAB-ID ::= INTEGER (0..15, ...)

E-RABInformationList ::= SEQUENCE (SIZE(1..maxnoofE-RABs)) OF E-RABInformationItem

E-RABInformationItem ::= SEQUENCE {

e-RAB-ID E-RAB-ID,

dLForwarding DLForwarding OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {E-RABInformationItem-ExtIEs} } OPTIONAL,

...

}

E-RABInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-SourceTNLAddrInfo CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional}|

{ID id-SourceNodeTNLAddrInfo CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional},

...

}

ERedCapIndication ::= ENUMERATED {

true,

...

}

EUTRACellIdentity ::= BIT STRING (SIZE(28))

EUTRA-CGI ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

eUTRACellIdentity EUTRACellIdentity,

iE-Extensions ProtocolExtensionContainer { {EUTRA-CGI-ExtIEs} } OPTIONAL,

...

}

EUTRA-CGI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRA-CGIList ::= SEQUENCE (SIZE(1..maxnoofCellsinngeNB)) OF EUTRA-CGI

EUTRA-CGIListForWarning ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF EUTRA-CGI

EUTRA-PagingeDRXInformation ::= SEQUENCE {

eUTRA-paging-eDRX-Cycle EUTRA-Paging-eDRX-Cycle,

eUTRA-paging-Time-Window EUTRA-Paging-Time-Window OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {EUTRA-PagingeDRXInformation-ExtIEs} } OPTIONAL,

...

}

EUTRA-PagingeDRXInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRA-Paging-eDRX-Cycle ::= ENUMERATED {

hfhalf, hf1, hf2, hf4, hf6,

hf8, hf10, hf12, hf14, hf16,

hf32, hf64, hf128, hf256,

...

}

EUTRA-Paging-Time-Window ::= ENUMERATED {

s1, s2, s3, s4, s5,

s6, s7, s8, s9, s10,

s11, s12, s13, s14, s15, s16,

...

}

EUTRAencryptionAlgorithms ::= BIT STRING (SIZE(16, ...))

EUTRAintegrityProtectionAlgorithms ::= BIT STRING (SIZE(16, ...))

EventType ::= ENUMERATED {

direct,

change-of-serve-cell,

ue-presence-in-area-of-interest,

stop-change-of-serve-cell,

stop-ue-presence-in-area-of-interest,

cancel-location-reporting-for-the-ue,

...,

change-of-serving-cell-and-UE-presence-in-the-Area-of-Interest

}

ExcessPacketDelayThresholdConfiguration ::= SEQUENCE (SIZE(1..maxnoofThresholdsForExcessPacketDelay)) OF ExcessPacketDelayThresholdItem

ExcessPacketDelayThresholdItem ::= SEQUENCE {

fiveQi FiveQI,

excessPacketDelayThresholdValue ExcessPacketDelayThresholdValue,

iE-Extensions ProtocolExtensionContainer { { ExcessPacketDelayThresholdItem-ExtIEs} } OPTIONAL,

...

}

ExcessPacketDelayThresholdItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExcessPacketDelayThresholdValue ::= ENUMERATED {

ms0dot25, ms0dot5, ms1, ms2, ms4, ms5, ms10, ms20, ms30, ms40, ms50, ms60, ms70, ms80, ms90, ms100, ms150, ms300, ms500,

...

}

ExpectedActivityPeriod ::= INTEGER (1..30|40|50|60|80|100|120|150|180|181, ...)

ExpectedHOInterval ::= ENUMERATED {

sec15, sec30, sec60, sec90, sec120, sec180, long-time,

...

}

ExpectedIdlePeriod ::= INTEGER (1..30|40|50|60|80|100|120|150|180|181, ...)

ExpectedUEActivityBehaviour ::= SEQUENCE {

expectedActivityPeriod ExpectedActivityPeriod OPTIONAL,

expectedIdlePeriod ExpectedIdlePeriod OPTIONAL,

sourceOfUEActivityBehaviourInformation SourceOfUEActivityBehaviourInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExpectedUEActivityBehaviour-ExtIEs} } OPTIONAL,

...

}

ExpectedUEActivityBehaviour-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExpectedUEBehaviour ::= SEQUENCE {

expectedUEActivityBehaviour ExpectedUEActivityBehaviour OPTIONAL,

expectedHOInterval ExpectedHOInterval OPTIONAL,

expectedUEMobility ExpectedUEMobility OPTIONAL,

expectedUEMovingTrajectory ExpectedUEMovingTrajectory OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExpectedUEBehaviour-ExtIEs} } OPTIONAL,

...

}

ExpectedUEBehaviour-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExpectedUEMobility ::= ENUMERATED {

stationary,

mobile,

...

}

ExpectedUEMovingTrajectory ::= SEQUENCE (SIZE(1..maxnoofCellsUEMovingTrajectory)) OF ExpectedUEMovingTrajectoryItem

ExpectedUEMovingTrajectoryItem ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

timeStayedInCell INTEGER (0..4095) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExpectedUEMovingTrajectoryItem-ExtIEs} } OPTIONAL,

...

}

ExpectedUEMovingTrajectoryItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Extended-AMFName ::= SEQUENCE {

aMFNameVisibleString AMFNameVisibleString OPTIONAL,

aMFNameUTF8String AMFNameUTF8String OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Extended-AMFName-ExtIEs } } OPTIONAL,

...

}

Extended-AMFName-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExtendedPacketDelayBudget ::= INTEGER (1..65535, ..., 65536..109999)

Extended-RANNodeName ::= SEQUENCE {

rANNodeNameVisibleString RANNodeNameVisibleString OPTIONAL,

rANNodeNameUTF8String RANNodeNameUTF8String OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Extended-RANNodeName-ExtIEs } } OPTIONAL,

...

}

Extended-RANNodeName-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExtendedRATRestrictionInformation ::= SEQUENCE {

primaryRATRestriction BIT STRING (SIZE(8, ..., 16)),

secondaryRATRestriction BIT STRING (SIZE(8, ...)),

iE-Extensions ProtocolExtensionContainer { {ExtendedRATRestrictionInformation-ExtIEs} } OPTIONAL,

...

}

ExtendedRATRestrictionInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ExtendedRNC-ID ::= INTEGER (4096..65535)

ExtendedSliceSupportList ::= SEQUENCE (SIZE(1..maxnoofExtSliceItems)) OF SliceSupportItem

ExtendedUEIdentityIndexValue ::= BIT STRING (SIZE(16))

EventTrigger::= CHOICE {

outOfCoverage ENUMERATED {true, ...},

eventL1LoggedMDTConfig EventL1LoggedMDTConfig,

choice-Extensions ProtocolIE-SingleContainer { { EventTrigger-ExtIEs} }

}

EventTrigger-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

EventL1LoggedMDTConfig ::= SEQUENCE {

l1Threshold MeasurementThresholdL1LoggedMDT,

hysteresis Hysteresis,

timeToTrigger TimeToTrigger,

iE-Extensions ProtocolExtensionContainer { { EventL1LoggedMDTConfig-ExtIEs} } OPTIONAL,

...

}

EventL1LoggedMDTConfig-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MeasurementThresholdL1LoggedMDT ::= CHOICE {

threshold-RSRP Threshold-RSRP,

threshold-RSRQ Threshold-RSRQ,

choice-Extensions ProtocolIE-SingleContainer { { MeasurementThresholdL1LoggedMDT-ExtIEs} }

}

MeasurementThresholdL1LoggedMDT-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

EquivalentSNPNsList ::= SEQUENCE (SIZE(1..maxnoofESNPNs)) OF EquivalentSNPNsItem

EquivalentSNPNsItem ::= SEQUENCE {

plmnIdentity PLMNIdentity,

nID NID,

iE-Extensions ProtocolExtensionContainer { {EquivalentSNPNsItem-ExtIEs} } OPTIONAL,

...

}

EquivalentSNPNsItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::={

...

}

-- F

FailureIndication ::= SEQUENCE {

uERLFReportContainer UERLFReportContainer,

iE-Extensions ProtocolExtensionContainer { { FailureIndication-ExtIEs} } OPTIONAL,

...

}

FailureIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FiveGCAction ::= CHOICE {

hLComActivate HLComActivate,

hLComDeactivate HLComDeactivate,

choice-Extensions ProtocolIE-SingleContainer { {FiveGCAction-ExtIEs} }

}

FiveGCAction-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

FiveG-ProSeAuthorized ::= SEQUENCE {

fiveGProSeDirectDiscovery FiveGProSeDirectDiscovery OPTIONAL,

fiveGProSeDirectCommunication FiveGProSeDirectCommunication OPTIONAL,

fiveGProSeLayer2UEtoNetworkRelay FiveGProSeLayer2UEtoNetworkRelay OPTIONAL,

fiveGProSeLayer3UEtoNetworkRelay FiveGProSeLayer3UEtoNetworkRelay OPTIONAL,

fiveGProSeLayer2RemoteUE FiveGProSeLayer2RemoteUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {FiveG-ProSeAuthorized-ExtIEs} } OPTIONAL,

...

}

FiveG-ProSeAuthorized-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-FiveGProSeLayer2Multipath CRITICALITY ignore EXTENSION FiveGProSeLayer2Multipath PRESENCE optional }|

{ ID id-FiveGProSeLayer2UEtoUERelay CRITICALITY ignore EXTENSION FiveGProSeLayer2UEtoUERelay PRESENCE optional }|

{ ID id-FiveGProSeLayer2UEtoUERemote CRITICALITY ignore EXTENSION FiveGProSeLayer2UEtoUERemote PRESENCE optional },

...

}

FiveGProSeDirectDiscovery ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeDirectCommunication ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer2UEtoNetworkRelay ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer3UEtoNetworkRelay ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer2RemoteUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer2Multipath ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer2UEtoUERelay ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveGProSeLayer2UEtoUERemote ::= ENUMERATED {

authorized,

not-authorized,

...

}

FiveG-ProSePC5QoSParameters ::= SEQUENCE {

fiveGProSepc5QoSFlowList FiveGProSePC5QoSFlowList,

fiveGProSepc5LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { FiveG-ProSePC5QoSParameters-ExtIEs} } OPTIONAL,

...

}

FiveG-ProSePC5QoSParameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FiveGProSePC5QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofPC5QoSFlows)) OF FiveGProSePC5QoSFlowItem

FiveGProSePC5QoSFlowItem ::= SEQUENCE {

fiveGproSepQI FiveQI,

fiveGproSepc5FlowBitRates FiveGProSePC5FlowBitRates OPTIONAL,

fiveGproSerange Range OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { FiveGProSePC5QoSFlowItem-ExtIEs} } OPTIONAL,

...

}

FiveGProSePC5QoSFlowItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FiveGProSePC5FlowBitRates ::= SEQUENCE {

fiveGproSeguaranteedFlowBitRate BitRate,

fiveGproSemaximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { FiveGProSePC5FlowBitRates-ExtIEs} } OPTIONAL,

...

}

FiveGProSePC5FlowBitRates-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FiveG-S-TMSI ::= SEQUENCE {

aMFSetID AMFSetID,

aMFPointer AMFPointer,

fiveG-TMSI FiveG-TMSI,

iE-Extensions ProtocolExtensionContainer { {FiveG-S-TMSI-ExtIEs} } OPTIONAL,

...

}

FiveG-S-TMSI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FiveG-TMSI ::= OCTET STRING (SIZE(4))

FiveQI ::= INTEGER (0..255, ...)

ForbiddenAreaInformation ::= SEQUENCE (SIZE(1.. maxnoofEPLMNsPlusOne)) OF ForbiddenAreaInformation-Item

ForbiddenAreaInformation-Item ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

forbiddenTACs ForbiddenTACs,

iE-Extensions ProtocolExtensionContainer { {ForbiddenAreaInformation-Item-ExtIEs} } OPTIONAL,

...

}

ForbiddenAreaInformation-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ForbiddenTACs ::= SEQUENCE (SIZE(1..maxnoofForbTACs)) OF TAC

FromEUTRANtoNGRAN ::= SEQUENCE {

sourceeNBID IntersystemSONeNBID,

targetNGRANnodeID IntersystemSONNGRANnodeID,

iE-Extensions ProtocolExtensionContainer { { FromEUTRANtoNGRAN-ExtIEs} } OPTIONAL

}

FromEUTRANtoNGRAN-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

FromNGRANtoEUTRAN ::= SEQUENCE {

sourceNGRANnodeID IntersystemSONNGRANnodeID,

targeteNBID IntersystemSONeNBID,

iE-Extensions ProtocolExtensionContainer { { FromNGRANtoEUTRAN-ExtIEs} } OPTIONAL

}

FromNGRANtoEUTRAN-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- G

GBR-QosInformation ::= SEQUENCE {

maximumFlowBitRateDL BitRate,

maximumFlowBitRateUL BitRate,

guaranteedFlowBitRateDL BitRate,

guaranteedFlowBitRateUL BitRate,

notificationControl NotificationControl OPTIONAL,

maximumPacketLossRateDL PacketLossRate OPTIONAL,

maximumPacketLossRateUL PacketLossRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {GBR-QosInformation-ExtIEs} } OPTIONAL,

...

}

GBR-QosInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AlternativeQoSParaSetList CRITICALITY ignore EXTENSION AlternativeQoSParaSetList PRESENCE optional },

...

}

GlobalCable-ID ::= OCTET STRING

GlobalCable-ID-new ::= SEQUENCE {

globalCable-ID GlobalCable-ID,

tAI TAI,

iE-Extensions ProtocolExtensionContainer { { GlobalCable-ID-new-ExtIEs} } OPTIONAL,

...

}

GlobalCable-ID-new-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalENB-ID ::= SEQUENCE {

pLMNidentity PLMNIdentity,

eNB-ID ENB-ID,

iE-Extensions ProtocolExtensionContainer { {GlobalENB-ID-ExtIEs} } OPTIONAL,

...

}

GlobalENB-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalGNB-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

gNB-ID GNB-ID,

iE-Extensions ProtocolExtensionContainer { {GlobalGNB-ID-ExtIEs} } OPTIONAL,

...

}

GlobalGNB-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalN3IWF-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

n3IWF-ID N3IWF-ID,

iE-Extensions ProtocolExtensionContainer { {GlobalN3IWF-ID-ExtIEs} } OPTIONAL,

...

}

GlobalN3IWF-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalLine-ID ::= SEQUENCE {

globalLineIdentity GlobalLineIdentity,

lineType LineType OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {GlobalLine-ID-ExtIEs} } OPTIONAL,

...

}

GlobalLine-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-TAI CRITICALITY ignore EXTENSION TAI PRESENCE optional },

...

}

GlobalLineIdentity ::= OCTET STRING

GlobalNgENB-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

ngENB-ID NgENB-ID,

iE-Extensions ProtocolExtensionContainer { {GlobalNgENB-ID-ExtIEs} } OPTIONAL,

...

}

GlobalNgENB-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalRANNodeID ::= CHOICE {

globalGNB-ID GlobalGNB-ID,

globalNgENB-ID GlobalNgENB-ID,

globalN3IWF-ID GlobalN3IWF-ID,

choice-Extensions ProtocolIE-SingleContainer { {GlobalRANNodeID-ExtIEs} }

}

GlobalRANNodeID-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-GlobalTNGF-ID CRITICALITY reject TYPE GlobalTNGF-ID PRESENCE mandatory }|

{ ID id-GlobalTWIF-ID CRITICALITY reject TYPE GlobalTWIF-ID PRESENCE mandatory }|

{ ID id-GlobalW-AGF-ID CRITICALITY reject TYPE GlobalW-AGF-ID PRESENCE mandatory },

...

}

GlobalTNGF-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

tNGF-ID TNGF-ID,

iE-Extensions ProtocolExtensionContainer { { GlobalTNGF-ID-ExtIEs} } OPTIONAL,

...

}

GlobalTNGF-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalTWIF-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

tWIF-ID TWIF-ID,

iE-Extensions ProtocolExtensionContainer { { GlobalTWIF-ID-ExtIEs} } OPTIONAL,

...

}

GlobalTWIF-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalW-AGF-ID ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

w-AGF-ID W-AGF-ID,

iE-Extensions ProtocolExtensionContainer { { GlobalW-AGF-ID-ExtIEs} } OPTIONAL,

...

}

GlobalW-AGF-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GNB-ID ::= CHOICE {

gNB-ID BIT STRING (SIZE(22..32)),

choice-Extensions ProtocolIE-SingleContainer { {GNB-ID-ExtIEs} }

}

GNB-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

GTP-TEID ::= OCTET STRING (SIZE(4))

GTPTunnel ::= SEQUENCE {

transportLayerAddress TransportLayerAddress,

gTP-TEID GTP-TEID,

iE-Extensions ProtocolExtensionContainer { {GTPTunnel-ExtIEs} } OPTIONAL,

...

}

GTPTunnel-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GUAMI ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

aMFRegionID AMFRegionID,

aMFSetID AMFSetID,

aMFPointer AMFPointer,

iE-Extensions ProtocolExtensionContainer { {GUAMI-ExtIEs} } OPTIONAL,

...

}

GUAMI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GUAMIType ::= ENUMERATED {native, mapped, ...}

-- H

HandoverCommandTransfer ::= SEQUENCE {

dLForwardingUP-TNLInformation UPTransportLayerInformation OPTIONAL,

qosFlowToBeForwardedList QosFlowToBeForwardedList OPTIONAL,

dataForwardingResponseDRBList DataForwardingResponseDRBList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {HandoverCommandTransfer-ExtIEs} } OPTIONAL,

...

}

HandoverCommandTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalDLForwardingUPTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-ULForwardingUP-TNLInformation CRITICALITY reject EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalULForwardingUPTNLInformation CRITICALITY reject EXTENSION UPTransportLayerInformationList PRESENCE optional }|

{ ID id-DataForwardingResponseERABList CRITICALITY ignore EXTENSION DataForwardingResponseERABList PRESENCE optional }|

{ ID id-QosFlowFailedToSetupList CRITICALITY ignore EXTENSION QosFlowListWithCause PRESENCE optional },

...

}

HandoverFlag ::= ENUMERATED {

handover-preparation,

...

}

HandoverPreparationUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {HandoverPreparationUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

HandoverPreparationUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HandoverRequestAcknowledgeTransfer ::= SEQUENCE {

dL-NGU-UP-TNLInformation UPTransportLayerInformation,

dLForwardingUP-TNLInformation UPTransportLayerInformation OPTIONAL,

securityResult SecurityResult OPTIONAL,

qosFlowSetupResponseList QosFlowListWithDataForwarding,

qosFlowFailedToSetupList QosFlowListWithCause OPTIONAL,

dataForwardingResponseDRBList DataForwardingResponseDRBList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {HandoverRequestAcknowledgeTransfer-ExtIEs} } OPTIONAL,

...

}

HandoverRequestAcknowledgeTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalDLUPTNLInformationForHOList CRITICALITY ignore EXTENSION AdditionalDLUPTNLInformationForHOList PRESENCE optional }|

{ ID id-ULForwardingUP-TNLInformation CRITICALITY reject EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalULForwardingUPTNLInformation CRITICALITY reject EXTENSION UPTransportLayerInformationList PRESENCE optional }|

{ ID id-DataForwardingResponseERABList CRITICALITY ignore EXTENSION DataForwardingResponseERABList PRESENCE optional }|

{ ID id-RedundantDL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-UsedRSNInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional }|

{ ID id-GlobalRANNodeID CRITICALITY ignore EXTENSION GlobalRANNodeID PRESENCE optional }|

{ ID id-MBS-SupportIndicator CRITICALITY ignore EXTENSION MBS-SupportIndicator PRESENCE optional }|

{ ID id-PDUSetbasedHandlingIndicator CRITICALITY ignore EXTENSION PDUSetbasedHandlingIndicator PRESENCE optional }|

{ ID id-ECNMarkingorCongestionInformationReportingStatus CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingStatus PRESENCE optional },

...

}

HandoverRequiredTransfer ::= SEQUENCE {

directForwardingPathAvailability DirectForwardingPathAvailability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {HandoverRequiredTransfer-ExtIEs} } OPTIONAL,

...

}

HandoverRequiredTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HandoverResourceAllocationUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {HandoverResourceAllocationUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

HandoverResourceAllocationUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HandoverType ::= ENUMERATED {

intra5gs,

fivegs-to-eps,

eps-to-5gs,

...,

fivegs-to-utran

}

HashedUEIdentityIndexValue ::= BIT STRING (SIZE(13, ...))

HFCNode-ID ::= OCTET STRING

HFCNode-ID-new ::= SEQUENCE {

hFCNode-ID HFCNode-ID,

tAI TAI,

iE-Extensions ProtocolExtensionContainer { { HFCNode-ID-new-ExtIEs} } OPTIONAL,

...

}

HFCNode-ID-new-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-GlobalCable-ID CRITICALITY ignore EXTENSION GlobalCable-ID PRESENCE optional },

...

}

HLComActivate ::= SEQUENCE {

nR-Paging-Long-eDRX-Information-for-RRC-INACTIVE NR-Paging-Long-eDRX-Information-for-RRC-INACTIVE,

iE-Extensions ProtocolExtensionContainer { { HLComActivate-ExtIEs} } OPTIONAL,

...

}

HLComActivate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HLComDeactivate ::= SEQUENCE {

uEReachabilityIndication ENUMERATED {true, ...},

iE-Extensions ProtocolExtensionContainer { { HLComDeactivate-ExtIEs} } OPTIONAL,

...

}

HLComDeactivate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HOReport::= SEQUENCE {

handoverReportType ENUMERATED {ho-too-early, ho-to-wrong-cell, intersystem-ping-pong, ...},

handoverCause Cause,

sourcecellCGI NGRAN-CGI,

targetcellCGI NGRAN-CGI,

reestablishmentcellCGI NGRAN-CGI OPTIONAL,

-- The above IE shall be present if the Handover Report Type IE is set to the value “HO to wrong cell”

sourcecellC-RNTI BIT STRING (SIZE(16)) OPTIONAL,

targetcellinE-UTRAN EUTRA-CGI OPTIONAL,

-- The above IE shall be present if the Handover Report Type IE is set to the value “Inter System ping-pong”

mobilityInformation MobilityInformation OPTIONAL,

uERLFReportContainer UERLFReportContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { HOReport-ExtIEs} } OPTIONAL,

...

}

HOReport-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-ExtendedMobilityInformation CRITICALITY ignore EXTENSION ExtendedMobilityInformation PRESENCE optional }|

{ ID id-TargetCellCRNTI CRITICALITY ignore EXTENSION C-RNTI PRESENCE optional }|

{ ID id-TimeSinceFailure CRITICALITY ignore EXTENSION TimeSinceFailure PRESENCE optional },

...

}

Hysteresis ::= INTEGER (0..30)

-- I

IAB-Authorized ::= ENUMERATED {

authorized,

not-authorized,

...

}

MobileIAB-MTUserLocationInformation ::= SEQUENCE {

nRCGI NR-CGI,

tAI TAI,

iE-Extensions ProtocolExtensionContainer { { MobileIAB-MTUserLocationInformation-ExtIEs} } OPTIONAL,

...

}

MobileIAB-MTUserLocationInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-Supported ::= ENUMERATED {

true,

...

}

IABNodeIndication ::= ENUMERATED {

true,

...

}

IMSVoiceSupportIndicator ::= ENUMERATED {

supported,

not-supported,

...

}

IndexToRFSP ::= INTEGER (1..256, ...)

InfoOnRecommendedCellsAndRANNodesForPaging ::= SEQUENCE {

recommendedCellsForPaging RecommendedCellsForPaging,

recommendRANNodesForPaging RecommendedRANNodesForPaging,

iE-Extensions ProtocolExtensionContainer { {InfoOnRecommendedCellsAndRANNodesForPaging-ExtIEs} } OPTIONAL,

...

}

InfoOnRecommendedCellsAndRANNodesForPaging-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntegrityProtectionIndication ::= ENUMERATED {

required,

preferred,

not-needed,

...

}

IntegrityProtectionResult ::= ENUMERATED {

performed,

not-performed,

...

}

IntendedNumberOfPagingAttempts ::= INTEGER (1..16, ...)

InterfacesToTrace ::= BIT STRING (SIZE(8))

ImmediateMDTNr ::= SEQUENCE {

measurementsToActivate MeasurementsToActivate,

m1Configuration M1Configuration OPTIONAL,

-- The above IE shall be present if the Measurements to Activate IE has the first bit set to “1”

m4Configuration M4Configuration OPTIONAL,

-- The above IE shall be present if the Measurements to Activate IE has the third bit set to “1”

m5Configuration M5Configuration OPTIONAL,

-- The above IE shall be present if the Measurements to Activate IE has the fourth bit set to “1”

m6Configuration M6Configuration OPTIONAL,

-- The above IE shall be present if the Measurements to Activate IE has the fifth bit set to “1”

m7Configuration  M7Configuration OPTIONAL,

-- The above IE shall be present if the Measurements to Activate IE has the sixth bit set to “1”

bluetoothMeasurementConfiguration BluetoothMeasurementConfiguration OPTIONAL,

wLANMeasurementConfiguration WLANMeasurementConfiguration OPTIONAL,

mDT-Location-Info MDT-Location-Info OPTIONAL,

sensorMeasurementConfiguration SensorMeasurementConfiguration OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ImmediateMDTNr-ExtIEs} } OPTIONAL,

...

}

ImmediateMDTNr-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InterSystemFailureIndication ::= SEQUENCE {

uERLFReportContainer UERLFReportContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { InterSystemFailureIndication-ExtIEs} } OPTIONAL,

...

}

InterSystemFailureIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemSONConfigurationTransfer ::= SEQUENCE {

transferType IntersystemSONTransferType,

intersystemSONInformation IntersystemSONInformation,

iE-Extensions ProtocolExtensionContainer { { IntersystemSONConfigurationTransfer-ExtIEs} } OPTIONAL,

...

}

IntersystemSONConfigurationTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemSONTransferType ::= CHOICE {

fromEUTRANtoNGRAN FromEUTRANtoNGRAN,

fromNGRANtoEUTRAN FromNGRANtoEUTRAN,

choice-Extensions ProtocolIE-SingleContainer { { IntersystemSONTransferType-ExtIEs} }

}

IntersystemSONTransferType-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

IntersystemSONeNBID ::= SEQUENCE {

globaleNBID GlobalENB-ID,

selectedEPSTAI EPS-TAI,

iE-Extensions ProtocolExtensionContainer { { IntersystemSONeNBID-ExtIEs} } OPTIONAL,

...

}

IntersystemSONeNBID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemSONNGRANnodeID ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

selectedTAI TAI,

iE-Extensions ProtocolExtensionContainer { { IntersystemSONNGRANnodeID-ExtIEs} } OPTIONAL,

...

}

IntersystemSONNGRANnodeID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemSONInformation ::= CHOICE {

intersystemSONInformationReport IntersystemSONInformationReport,

choice-Extensions ProtocolIE-SingleContainer { { IntersystemSONInformation-ExtIEs} }

}

IntersystemSONInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-IntersystemSONInformationRequest CRITICALITY ignore TYPE IntersystemSONInformationRequest PRESENCE mandatory }|

{ ID id-IntersystemSONInformationReply CRITICALITY ignore TYPE IntersystemSONInformationReply PRESENCE mandatory },

...

}

-- --------------------------------------------------------------------

-- INTER SYSTEM SON INFORMATION REQUEST

-- --------------------------------------------------------------------

IntersystemSONInformationRequest ::= CHOICE {

nGRAN-CellActivation IntersystemCellActivationRequest,

resourceStatus IntersystemResourceStatusRequest,

choice-Extensions ProtocolIE-SingleContainer { { IntersystemSONInformationRequest-ExtIEs} }

}

IntersystemSONInformationRequest-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

IntersystemCellActivationRequest ::= SEQUENCE {

activationID INTEGER (0..16384, ...),

cellsToActivateList CellsToActivateList,

iE-Extensions ProtocolExtensionContainer { { IntersystemCellActivationRequest-ExtIEs} } OPTIONAL,

...

}

IntersystemCellActivationRequest-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CellsToActivateList ::= SEQUENCE (SIZE(1..maxnoofCellsinNGRANNode)) OF NGRAN-CGI

-- --------------------------------------------------------------------

-- Inter System Resource Status Request

-- --------------------------------------------------------------------

IntersystemResourceStatusRequest ::= SEQUENCE {

reportingSystem ReportingSystem,

reportCharacteristics ReportCharacteristics,

reportType ReportType,

iE-Extensions ProtocolExtensionContainer { { IntersystemResourceStatusRequest-ExtIEs} } OPTIONAL,

...

}

IntersystemResourceStatusRequest-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ReportingSystem ::= CHOICE {

eUTRAN EUTRAN-ReportingSystemIEs,

nGRAN NGRAN-ReportingSystemIEs,

noReporting NULL,

choice-Extensions ProtocolIE-SingleContainer { { ReportingSystem-ExtIEs}}

}

ReportingSystem-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

EUTRAN-ReportingSystemIEs::= SEQUENCE {

eUTRAN-CellToReportList EUTRAN-CellToReportList,

iE-Extensions ProtocolExtensionContainer { {EUTRAN-ReportingSystemIEs-ExtIEs} } OPTIONAL,

...

}

EUTRAN-ReportingSystemIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRAN-ReportingSystemIEs ::= SEQUENCE {

nGRAN-CellToReportList NGRAN-CellToReportList,

iE-Extensions ProtocolExtensionContainer { {NGRAN-ReportingSystemIEs-ExtIEs} } OPTIONAL,

...

}

NGRAN-ReportingSystemIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRAN-CellToReportList ::= SEQUENCE (SIZE(1..maxnoofReportedCells)) OF EUTRAN-CellToReportItem

EUTRAN-CellToReportItem::= SEQUENCE {

eCGI EUTRA-CGI,

iE-Extensions ProtocolExtensionContainer { {EUTRAN-CellToReportItem-ExtIEs} } OPTIONAL,

...

}

EUTRAN-CellToReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRAN-CellToReportList ::= SEQUENCE (SIZE(1.. maxnoofReportedCells)) OF NGRAN-CellToReportItem

NGRAN-CellToReportItem::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

iE-Extensions ProtocolExtensionContainer { {NGRAN-CellToReportItem-ExtIEs} } OPTIONAL,

...

}

NGRAN-CellToReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ReportCharacteristics ::= BIT STRING(SIZE(32))

ReportType ::= CHOICE {

eventBasedReporting EventBasedReportingIEs,

periodicReporting PeriodicReportingIEs,

choice-Extensions ProtocolIE-SingleContainer { { ReportType-ExtIEs}}

}

ReportType-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

EventBasedReportingIEs ::= SEQUENCE {

intersystemResourceThresholdLow IntersystemResourceThreshold,

intersystemResourceThresholdHigh IntersystemResourceThreshold,

numberOfMeasurementReportingLevels NumberOfMeasurementReportingLevels,

iE-Extensions ProtocolExtensionContainer { {EventBasedReportingIEs-ExtIEs} } OPTIONAL,

...

}

EventBasedReportingIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemResourceThreshold ::= INTEGER(0..100)

NumberOfMeasurementReportingLevels ::= ENUMERATED {n2, n3, n4, n5, n10, ..., n0}

PeriodicReportingIEs ::= SEQUENCE {

reportingPeriodicity ReportingPeriodicity,

iE-Extensions ProtocolExtensionContainer { {PeriodicReportingIEs-ExtIEs} } OPTIONAL,

...

}

PeriodicReportingIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ReportingPeriodicity ::= ENUMERATED {

stop,

single,

ms1000,

ms2000,

ms5000,

ms10000,

...

}

-- --------------------------------------------------------------------

-- INTER SYSTEM SON INFORMATION REPLY

-- --------------------------------------------------------------------

IntersystemSONInformationReply ::= CHOICE {

nGRAN-CellActivation IntersystemCellActivationReply,

resourceStatus IntersystemResourceStatusReply,

choice-Extensions ProtocolIE-SingleContainer { { IntersystemSONInformationReply-ExtIEs} }

}

IntersystemSONInformationReply-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

IntersystemCellActivationReply ::= SEQUENCE {

activatedCellList ActivatedCellList,

activation-ID INTEGER(0..16384, ...),

iE-Extensions ProtocolExtensionContainer { { IntersystemCellActivationReply-ExtIEs} } OPTIONAL,

...

}

IntersystemCellActivationReply-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ActivatedCellList ::= SEQUENCE (SIZE(1..maxnoofCellsinNGRANNode)) OF NGRAN-CGI

-- --------------------------------------------------------------------

-- Inter System Resource Status Reply

-- --------------------------------------------------------------------

IntersystemResourceStatusReply ::= SEQUENCE {

reportingsystem ReportingSystem,

iE-Extensions ProtocolExtensionContainer { { IntersystemResourceStatusReply-ExtIEs} } OPTIONAL,

...

}

IntersystemResourceStatusReply-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- --------------------------------------------------------------------

-- INTER SYSTEM SON INFORMATION REPORT

-- --------------------------------------------------------------------

IntersystemSONInformationReport::= CHOICE {

hOReportInformation InterSystemHOReport,

failureIndicationInformation InterSystemFailureIndication,

choice-Extensions ProtocolIE-SingleContainer { { IntersystemSONInformationReport-ExtIEs} }

}

IntersystemSONInformationReport-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-EnergySavingIndication CRITICALITY ignore TYPE IntersystemCellStateIndication PRESENCE mandatory }|

{ ID id-IntersystemResourceStatusUpdate CRITICALITY ignore TYPE IntersystemResourceStatusReport PRESENCE mandatory },

...

}

IntersystemCellStateIndication ::= SEQUENCE {

notificationCellList NotificationCellList,

iE-Extensions ProtocolExtensionContainer { { IntersystemCellStateIndication-ExtIEs} } OPTIONAL,

...

}

IntersystemCellStateIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NotificationCellList ::= SEQUENCE (SIZE(1.. maxnoofCellsinNGRANNode)) OF NotificationCell-Item

NotificationCell-Item ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

notifyFlag ENUMERATED {activated, deactivated, ...},

iE-Extensions ProtocolExtensionContainer { { NotificationCell-Item-ExtIEs} } OPTIONAL,

...

}

NotificationCell-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- --------------------------------------------------------------------

-- Inter System Resource Status Report

-- --------------------------------------------------------------------

IntersystemResourceStatusReport ::= SEQUENCE {

reportingSystem ResourceStatusReportingSystem,

iE-Extensions ProtocolExtensionContainer { { IntersystemResourceStatusReport-ExtIEs} } OPTIONAL,

...

}

IntersystemResourceStatusReport-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ResourceStatusReportingSystem ::= CHOICE {

eUTRAN-ReportingStatus EUTRAN-ReportingStatusIEs,

nGRAN-ReportingStatus NGRAN-ReportingStatusIEs,

choice-Extensions ProtocolIE-SingleContainer { { ResourceStatusReportingSystem-ExtIEs}}

}

ResourceStatusReportingSystem-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

EUTRAN-ReportingStatusIEs::= SEQUENCE {

eUTRAN-CellReportList EUTRAN-CellReportList,

iE-Extensions ProtocolExtensionContainer { {EUTRAN-ReportingStatusIEs-ExtIEs} } OPTIONAL,

...

}

EUTRAN-ReportingStatusIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRAN-CellReportList ::= SEQUENCE (SIZE(1..maxnoofReportedCells)) OF EUTRAN-CellReportItem

EUTRAN-CellReportItem ::= SEQUENCE {

eCGI EUTRA-CGI,

eUTRAN-CompositeAvailableCapacityGroup EUTRAN-CompositeAvailableCapacityGroup,

eUTRAN-NumberOfActiveUEs EUTRAN-NumberOfActiveUEs OPTIONAL,

eUTRAN-NoofRRCConnections NGRAN-NoofRRCConnections OPTIONAL,

eUTRAN-RadioResourceStatus EUTRAN-RadioResourceStatus OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {EUTRAN-CellReportItem-ExtIEs} } OPTIONAL,

...

}

EUTRAN-CellReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRAN-CompositeAvailableCapacityGroup ::= SEQUENCE {

dL-CompositeAvailableCapacity CompositeAvailableCapacity,

uL-CompositeAvailableCapacity CompositeAvailableCapacity,

iE-Extensions ProtocolExtensionContainer { { EUTRAN-CompositeAvailableCapacityGroup-ExtIEs} } OPTIONAL,

...

}

EUTRAN-CompositeAvailableCapacityGroup-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

CompositeAvailableCapacity ::= SEQUENCE {

cellCapacityClassValue INTEGER (1..100, ...) OPTIONAL,

capacityValue INTEGER (0..100),

iE-Extensions ProtocolExtensionContainer { {CompositeAvailableCapacity-ExtIEs} } OPTIONAL,

...

}

CompositeAvailableCapacity-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRAN-NumberOfActiveUEs ::= INTEGER (0..16777215, ...)

EUTRAN-RadioResourceStatus ::= SEQUENCE {

dL-GBR-PRB-usage INTEGER (0..100),

uL-GBR-PRB-usage INTEGER (0..100),

dL-non-GBR-PRB-usage INTEGER (0..100),

uL-non-GBR-PRB-usage INTEGER (0..100),

dL-Total-PRB-usage INTEGER (0..100),

uL-Total-PRB-usage INTEGER (0..100),

dL-scheduling-PDCCH-CCE-usage INTEGER (0..100) OPTIONAL,

uL-scheduling-PDCCH-CCE-usage INTEGER (0..100) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {EUTRAN-RadioResourceStatus-ExtIEs} } OPTIONAL,

...

}

EUTRAN-RadioResourceStatus-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRAN-ReportingStatusIEs ::= SEQUENCE {

nGRAN-CellReportList NGRAN-CellReportList,

iE-Extensions ProtocolExtensionContainer { {NGRAN-ReportingStatusIEs-ExtIEs} } OPTIONAL,

...

}

NGRAN-ReportingStatusIEs-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRAN-CellReportList ::= SEQUENCE (SIZE(1..maxnoofReportedCells)) OF NGRAN-CellReportItem

NGRAN-CellReportItem ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

nGRAN-CompositeAvailableCapacityGroup EUTRAN-CompositeAvailableCapacityGroup,

nGRAN-NumberOfActiveUEs NGRAN-NumberOfActiveUEs OPTIONAL,

nGRAN-NoofRRCConnections NGRAN-NoofRRCConnections OPTIONAL,

nGRAN-RadioResourceStatus NGRAN-RadioResourceStatus OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NGRAN-CellReportItem-ExtIEs} } OPTIONAL,

...

}

NGRAN-CellReportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRAN-NumberOfActiveUEs ::= INTEGER (0..16777215, ...)

NGRAN-NoofRRCConnections ::= INTEGER (1..65536, ...)

NGRAN-RadioResourceStatus ::= 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 { { NGRAN-RadioResourceStatus-ExtIEs} } OPTIONAL,

...

}

NGRAN-RadioResourceStatus-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InterSystemHOReport ::= SEQUENCE {

handoverReportType InterSystemHandoverReportType,

iE-Extensions ProtocolExtensionContainer { { InterSystemHOReport-ExtIEs} } OPTIONAL,

...

}

InterSystemHOReport-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InterSystemHandoverReportType ::= CHOICE {

tooearlyIntersystemHO TooearlyIntersystemHO,

intersystemUnnecessaryHO IntersystemUnnecessaryHO,

choice-Extensions ProtocolIE-SingleContainer { { InterSystemHandoverReportType-ExtIEs} }

}

InterSystemHandoverReportType-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-IntersystemMobilityFailureforVoiceFallback CRITICALITY ignore TYPE IntersystemMobilityFailureforVoiceFallback PRESENCE mandatory },

...

}

IntersystemMobilityFailureforVoiceFallback ::= SEQUENCE {

sourcecellID NGRAN-CGI,

targetcellID EUTRA-CGI,

reconnectCellID EUTRA-CGI OPTIONAL,

uERLFReportContainer UERLFReportContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IntersystemMobilityFailureforVoiceFallback-ExtIEs} } OPTIONAL,

...

}

IntersystemMobilityFailureforVoiceFallback-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

IntersystemUnnecessaryHO ::= SEQUENCE {

sourcecellID NGRAN-CGI,

targetcellID EUTRA-CGI,

earlyIRATHO ENUMERATED {true, false, ...},

candidateCellList CandidateCellList,

iE-Extensions ProtocolExtensionContainer { { IntersystemUnnecessaryHO-ExtIEs} } OPTIONAL,

...

}

IntersystemUnnecessaryHO-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InventoryRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { InventoryRequestTransferIEs} },

...

}

InventoryRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-AIoT-CorrelationIdentifier CRITICALITY reject TYPE AIoT-CorrelationIdentifier PRESENCE mandatory }|

{ ID id-AIoT-DeviceIdentificationRequested CRITICALITY reject TYPE AIoT-DeviceIdentificationRequested PRESENCE mandatory }|

{ ID id-AIoT-RequestedServiceAreaInformation CRITICALITY reject TYPE AIoT-RequestedServiceAreaInformation PRESENCE mandatory }|

{ ID id-AIoT-InventoryAssistanceInformation CRITICALITY reject TYPE AIoT-InventoryAssistanceInformation PRESENCE mandatory }|

{ ID id-AIoT-FollowonCommandIndication CRITICALITY reject TYPE AIoT-FollowonCommandIndication PRESENCE optional },

...

}

InventoryResponseTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { InventoryResponseTransfer-ExtIEs} } OPTIONAL,

...

}

InventoryResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InventoryFailureTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { InventoryFailureTransfer-ExtIEs} } OPTIONAL,

...

}

InventoryFailureTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

InventoryReportTransfer ::= SEQUENCE {

correlationIdentifier AIoT-CorrelationIdentifier,

globalgNB-ID GlobalGNB-ID,

readerReportList AIoT-ReaderReportList,

iE-Extensions ProtocolExtensionContainer { { InventoryReportTransfer-ExtIEs} } OPTIONAL,

...

}

InventoryReportTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- J

-- K

-- L

LAC ::= OCTET STRING (SIZE (2))

LAI ::= SEQUENCE {

pLMNidentity PLMNIdentity,

lAC LAC,

iE-Extensions ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL,

...

}

LAI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

LastVisitedCellInformation ::= CHOICE {

nGRANCell LastVisitedNGRANCellInformation,

eUTRANCell LastVisitedEUTRANCellInformation,

uTRANCell LastVisitedUTRANCellInformation,

gERANCell LastVisitedGERANCellInformation,

choice-Extensions ProtocolIE-SingleContainer { {LastVisitedCellInformation-ExtIEs} }

}

LastVisitedCellInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

LastVisitedCellItem ::= SEQUENCE {

lastVisitedCellInformation LastVisitedCellInformation,

iE-Extensions ProtocolExtensionContainer { {LastVisitedCellItem-ExtIEs} } OPTIONAL,

...

}

LastVisitedCellItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

LastVisitedEUTRANCellInformation ::= OCTET STRING

LastVisitedGERANCellInformation ::= OCTET STRING

LastVisitedNGRANCellInformation::= SEQUENCE {

globalCellID NGRAN-CGI,

cellType CellType,

timeUEStayedInCell TimeUEStayedInCell,

timeUEStayedInCellEnhancedGranularity TimeUEStayedInCellEnhancedGranularity OPTIONAL,

hOCauseValue Cause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LastVisitedNGRANCellInformation-ExtIEs} } OPTIONAL,

...

}

LastVisitedNGRANCellInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-LastVisitedPSCellList CRITICALITY ignore EXTENSION LastVisitedPSCellList PRESENCE optional },

...

}

LastVisitedPSCellList ::= SEQUENCE (SIZE(1..maxnoofPSCellsPerPrimaryCellinUEHistoryInfo)) OF LastVisitedPSCellInformation

LastVisitedPSCellInformation ::= SEQUENCE {

pSCellID NGRAN-CGI OPTIONAL,

timeStay INTEGER (0..40950),

iE-Extensions ProtocolExtensionContainer { {LastVisitedPSCellInformation-ExtIEs} } OPTIONAL,

...

}

LastVisitedPSCellInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

LastVisitedUTRANCellInformation ::= OCTET STRING

LineType ::= ENUMERATED {

dsl,

pon,

...

}

LocationReportingAdditionalInfo ::= ENUMERATED {

includePSCell,

...

}

LocationReportingReferenceID ::= INTEGER (1..64, ...)

LocationReportingRequestType ::= SEQUENCE {

eventType EventType,

reportArea ReportArea,

areaOfInterestList AreaOfInterestList OPTIONAL,

locationReportingReferenceIDToBeCancelled LocationReportingReferenceID OPTIONAL,

-- The above IE shall be present if the Event Type IE is set to the value “stop UE presence in the area of interest”

iE-Extensions ProtocolExtensionContainer { {LocationReportingRequestType-ExtIEs} } OPTIONAL,

...

}

LocationReportingRequestType-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-LocationReportingAdditionalInfo CRITICALITY ignore EXTENSION LocationReportingAdditionalInfo PRESENCE optional }|

{ ID id-AdditionalCancelledlocationReportingReferenceIDList CRITICALITY reject EXTENSION AdditionalCancelledlocationReportingReferenceIDList PRESENCE optional },

...

}

LoggedMDTNr ::= SEQUENCE {

loggingInterval LoggingInterval,

loggingDuration LoggingDuration,

loggedMDTTrigger LoggedMDTTrigger,

bluetoothMeasurementConfiguration BluetoothMeasurementConfiguration OPTIONAL,

wLANMeasurementConfiguration WLANMeasurementConfiguration OPTIONAL,

sensorMeasurementConfiguration SensorMeasurementConfiguration OPTIONAL,

areaScopeOfNeighCellsList AreaScopeOfNeighCellsList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LoggedMDTNr-ExtIEs} } OPTIONAL,

...

}

LoggedMDTNr-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-EarlyMeasurement CRITICALITY ignore EXTENSION EarlyMeasurement PRESENCE optional },

...

}

LoggingInterval ::= ENUMERATED {

ms320, ms640, ms1280, ms2560, ms5120, ms10240, ms20480, ms30720, ms40960, ms61440,

infinity,

...

}

LoggingDuration ::= ENUMERATED {m10, m20, m40, m60, m90, m120, ...}

Links-to-log ::= ENUMERATED {

uplink,

downlink,

both-uplink-and-downlink,

...

}

LoggedMDTTrigger ::= CHOICE{

periodical NULL,

eventTrigger EventTrigger,

choice-Extensions ProtocolIE-SingleContainer { {LoggedMDTTrigger-ExtIEs} }

}

LoggedMDTTrigger-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

LTEM-Indication ::= ENUMERATED {lte-m,...}

LTEUERLFReportContainer ::= OCTET STRING

LTEV2XServicesAuthorized ::= SEQUENCE {

vehicleUE VehicleUE OPTIONAL,

pedestrianUE PedestrianUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LTEV2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

LTEV2XServicesAuthorized-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

LTEUESidelinkAggregateMaximumBitrate ::= SEQUENCE {

uESidelinkAggregateMaximumBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { {LTEUE-Sidelink-Aggregate-MaximumBitrates-ExtIEs} } OPTIONAL,

...

}

LTEUE-Sidelink-Aggregate-MaximumBitrates-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

LTE-A2X-ServicesAuthorized ::= SEQUENCE {

aerialUE ENUMERATED {authorized, not-authorized, ...} OPTIONAL,

aerialControllerUE ENUMERATED {authorized, not-authorized, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LTE-A2X-ServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

LTE-A2X-ServicesAuthorized-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- M

MaskedIMEISV ::= BIT STRING (SIZE(64))

MaximumDataBurstVolume ::= INTEGER (0..4095, ..., 4096.. 2000000)

MessageIdentifier ::= BIT STRING (SIZE(16))

MaximumIntegrityProtectedDataRate ::= ENUMERATED {

bitrate64kbs,

maximum-UE-rate,

...

}

MBS-AreaSessionID ::= INTEGER (0..65535, ...)

MBSCommServiceType ::= ENUMERATED {broadcast, multicast, ...}

MBS-DataForwardingResponseMRBList ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF MBS-DataForwardingResponseMRBItem

MBS-DataForwardingResponseMRBItem ::= SEQUENCE {

mRB-ID MRB-ID,

dL-Forwarding-UPTNLInformation UPTransportLayerInformation,

mRB-ProgressInformation MRB-ProgressInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-DataForwardingResponseMRBItem-ExtIEs} } OPTIONAL,

...

}

MBS-DataForwardingResponseMRBItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-MappingandDataForwardingRequestList ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF MBS-MappingandDataForwardingRequestItem

MBS-MappingandDataForwardingRequestItem ::= SEQUENCE {

mRB-ID MRB-ID,

mBS-QoSFlowList MBS-QoSFlowList,

mRB-ProgressInformation MRB-ProgressInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-MappingandDataForwardingRequestItem-ExtIEs} } OPTIONAL,

...

}

MBS-MappingandDataForwardingRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF QosFlowIdentifier

MRB-ProgressInformation ::= CHOICE {

pDCP-SN-Length12 INTEGER (0..4095),

pDCP-SN-Length18 INTEGER (0..262143),

choice-Extensions ProtocolIE-SingleContainer { { MRB-ProgressInformation-ExtIEs} }

}

MRB-ProgressInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MBS-QoSFlowsToBeSetupList ::= SEQUENCE (SIZE(1.. maxnoofMBSQoSFlows)) OF MBS-QoSFlowsToBeSetupItem

MBS-QoSFlowsToBeSetupItem ::= SEQUENCE {

mBSqosFlowIdentifier QosFlowIdentifier,

mBSqosFlowLevelQosParameters QosFlowLevelQosParameters,

iE-Extensions ProtocolExtensionContainer { {MBS-QoSFlowsToBeSetupItem-ExtIEs} } OPTIONAL,

...

}

MBS-QoSFlowsToBeSetupItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceArea ::= CHOICE {

locationindependent MBS-ServiceAreaInformation,

locationdependent MBS-ServiceAreaInformationList,

choice-Extensions ProtocolIE-SingleContainer { {MBS-ServiceArea-ExtIEs} }

}

MBS-ServiceArea-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MBS-ServiceAreaInformationList ::= SEQUENCE (SIZE(1..maxnoofMBSServiceAreaInformation)) OF MBS-ServiceAreaInformationItem

MBS-ServiceAreaInformationItem ::= SEQUENCE {

mBS-AreaSessionID MBS-AreaSessionID,

mBS-ServiceAreaInformation MBS-ServiceAreaInformation,

iE-Extensions ProtocolExtensionContainer { {MBS-ServiceAreaInformationItem-ExtIEs} } OPTIONAL,

...

}

MBS-ServiceAreaInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceAreaInformation ::= SEQUENCE {

mBS-ServiceAreaCellList MBS-ServiceAreaCellList OPTIONAL,

mBS-ServiceAreaTAIList MBS-ServiceAreaTAIList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-ServiceAreaInformation-ExtIEs} } OPTIONAL,

...

}

MBS-ServiceAreaInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceAreaCellList ::= SEQUENCE (SIZE(1.. maxnoofCellsforMBS)) OF NR-CGI

MBS-ServiceAreaTAIList ::= SEQUENCE (SIZE(1.. maxnoofTAIforMBS)) OF TAI

MBS-SessionID ::= SEQUENCE {

tMGI TMGI,

nID NID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-SessionID-ExtIEs} } OPTIONAL,

...

}

MBS-SessionID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBSSessionFailedtoSetupList ::= SEQUENCE (SIZE(1.. maxnoofMBSSessions)) OF MBSSessionFailedtoSetupItem

MBSSessionFailedtoSetupItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

cause Cause,

iE-Extensions ProtocolExtensionContainer { { MBSSessionFailedtoSetupItem-ExtIEs} } OPTIONAL,

...

}

MBSSessionFailedtoSetupItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ActiveSessionInformation-SourcetoTargetList ::= SEQUENCE (SIZE(1..maxnoofMBSSessionsofUE)) OF MBS-ActiveSessionInformation-SourcetoTargetItem

MBS-ActiveSessionInformation-SourcetoTargetItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

mBS-ServiceArea MBS-ServiceArea OPTIONAL,

mBS-QoSFlowsToBeSetupList MBS-QoSFlowsToBeSetupList,

mBS-MappingandDataForwardingRequestList MBS-MappingandDataForwardingRequestList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-ActiveSessionInformation-SourcetoTargetItem-ExtIEs} } OPTIONAL,

...

}

MBS-ActiveSessionInformation-SourcetoTargetItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ActiveSessionInformation-TargettoSourceList ::= SEQUENCE (SIZE(1..maxnoofMBSSessionsofUE)) OF MBS-ActiveSessionInformation-TargettoSourceItem

MBS-ActiveSessionInformation-TargettoSourceItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-DataForwardingResponseMRBList MBS-DataForwardingResponseMRBList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-ActiveSessionInformation-TargettoSourceItem-ExtIEs} } OPTIONAL,

...

}

MBS-ActiveSessionInformation-TargettoSourceItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-AssistanceInformation ::= ENUMERATED {true, ...}

MBSSessionSetupOrModFailureTransfer ::= SEQUENCE {

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBSSessionSetupOrModFailureTransfer-ExtIEs} } OPTIONAL,

...

}

MBSSessionSetupOrModFailureTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBSSessionSetupResponseList ::= SEQUENCE (SIZE(1.. maxnoofMBSSessions)) OF MBSSessionSetupResponseItem

MBSSessionSetupResponseItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBSSessionSetupResponseItem-ExtIEs} } OPTIONAL,

...

}

MBSSessionSetupResponseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBSSessionSetupOrModRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MBSSessionSetupOrModRequestTransferIEs} },

...

}

MBSSessionSetupOrModRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionTNLInfo5GC CRITICALITY reject TYPE MBS-SessionTNLInfo5GC PRESENCE optional }|

{ ID id-MBS-QoSFlowsToBeSetupModList CRITICALITY reject TYPE MBS-QoSFlowsToBeSetupList PRESENCE mandatory }|

{ ID id-MBS-SessionFSAIDList CRITICALITY ignore TYPE MBS-SessionFSAIDList PRESENCE optional }|

{ ID id-SupportedUETypeList CRITICALITY ignore TYPE SupportedUETypeList PRESENCE optional }|

{ ID id-MBS-NGUFailureIndication CRITICALITY reject TYPE MBS-NGUFailureIndication PRESENCE optional },

...

}

SupportedUETypeList ::= SEQUENCE (SIZE(1.. maxnoofUETypes)) OF SupportedUEType

SupportedUEType ::= ENUMERATED {non-RedCap-eRedCap-UE, redCap-eRedCap-UE, ...}

MBS-SessionFSAIDList ::= SEQUENCE (SIZE(1.. maxnoofMBSFSAs)) OF MBS-SessionFSAID

MBS-SessionFSAID ::= OCTET STRING (SIZE(3))

MBSSessionReleaseResponseTransfer ::= SEQUENCE {

mBS-SessionTNLInfoNGRAN MBS-SessionTNLInfoNGRAN OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBSSessionReleaseResponseTransfer-ExtIEs} } OPTIONAL,

...

}

MBSSessionReleaseResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBSSessionSetupOrModResponseTransfer ::= SEQUENCE {

mBS-SessionTNLInfoNGRAN MBS-SessionTNLInfoNGRAN OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBSSessionSetupOrModResponseTransfer-ExtIEs} } OPTIONAL,

...

}

MBSSessionSetupOrModResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-SupportIndicator ::= ENUMERATED {

multicast-supported,

...,

multicast-supported-with-reception-in-RRC-inactive

}

MBS-SessionTNLInfo5GC ::= CHOICE {

locationindependent SharedNGU-MulticastTNLInformation,

locationdependent MBS-SessionTNLInfo5GCList,

choice-Extensions ProtocolIE-SingleContainer { {MBS-SessionTNLInfo5GC-ExtIEs} }

}

MBS-SessionTNLInfo5GC-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MBS-SessionTNLInfo5GCList ::= SEQUENCE (SIZE(1..maxnoofMBSServiceAreaInformation)) OF MBS-SessionTNLInfo5GCItem

MBS-SessionTNLInfo5GCItem ::= SEQUENCE {

mBS-AreaSessionID MBS-AreaSessionID,

sharedNGU-MulticastTNLInformation SharedNGU-MulticastTNLInformation,

iE-Extensions ProtocolExtensionContainer { {MBS-SessionTNLInfo5GCItem-ExtIEs} } OPTIONAL,

...

}

MBS-SessionTNLInfo5GCItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-SessionTNLInfoNGRAN ::= CHOICE {

locationindependent UPTransportLayerInformation,

locationdependent MBS-SessionTNLInfoNGRANList,

choice-Extensions ProtocolIE-SingleContainer { {MBS-SessionTNLInfoNGRAN-ExtIEs} }

}

MBS-SessionTNLInfoNGRAN-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MBS-SessionTNLInfoNGRANList ::= SEQUENCE (SIZE(1..maxnoofMBSServiceAreaInformation)) OF MBS-SessionTNLInfoNGRANItem

MBS-SessionTNLInfoNGRANItem ::= SEQUENCE {

mBS-AreaSessionID MBS-AreaSessionID,

sharedNGU-UnicastTNLInformation UPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-SessionTNLInfoNGRANItem-ExtIEs} } OPTIONAL,

...

}

MBS-SessionTNLInfoNGRANItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-DistributionReleaseRequestTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

sharedNGU-UnicastTNLInformation UPTransportLayerInformation OPTIONAL,

cause Cause,

iE-Extensions ProtocolExtensionContainer { { MBS-DistributionReleaseRequesTransfer-ExtIEs} } OPTIONAL,

...

}

MBS-DistributionReleaseRequesTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-DistributionSetupRequestTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

sharedNGU-UnicastTNLInformation UPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-DistributionSetupRequestTransfer-ExtIEs} } OPTIONAL,

...

}

MBS-DistributionSetupRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-TAIMBSSupportList CRITICALITY ignore EXTENSION TAIMBSSupportList PRESENCE optional },

...

}

MBS-DistributionSetupResponseTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

sharedNGU-MulticastTNLInformation SharedNGU-MulticastTNLInformation OPTIONAL,

mBS-QoSFlowsToBeSetupList MBS-QoSFlowsToBeSetupList,

mBSSessionStatus MBSSessionStatus,

mBS-ServiceArea MBS-ServiceArea OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-DistributionSetupResponseTransfer-ExtIEs} } OPTIONAL,

...

}

MBS-DistributionSetupResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-DistributionSetupUnsuccessfulTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-DistributionSetupUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

MBS-DistributionSetupUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-NGUFailureIndication ::= CHOICE {

locationindependent MBS-UP-FailureIndication,

locationdependent MBS-UP-FailureIndicationList,

choice-Extensions ProtocolIE-SingleContainer { {MBS-NGUFailureIndication-ExtIEs} }

}

MBS-NGUFailureIndication-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MBS-UP-FailureIndicationList ::= SEQUENCE (SIZE(1..maxnoofMBSServiceAreaInformation)) OF MBS-UP-FailureIndicationItem

MBS-UP-FailureIndicationItem ::= SEQUENCE {

mBS-AreaSessionID MBS-AreaSessionID,

mBS-UP-FailureIndication MBS-UP-FailureIndication,

iE-Extensions ProtocolExtensionContainer { {MBS-UP-FailureIndicationItem-ExtIEs} } OPTIONAL,

...

}

MBS-UP-FailureIndicationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-UP-FailureIndication ::= ENUMERATED {ng-u-path-failure-detected, ...}

MBSSessionSetupRequestList ::= SEQUENCE (SIZE(1..maxnoofMBSSessions)) OF MBSSessionSetupRequestItem

MBSSessionSetupRequestItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

associatedMBSQosFlowSetupRequestList AssociatedMBSQosFlowSetupRequestList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBSSessionSetupRequestItem-ExtIEs} } OPTIONAL,

...

}

MBSSessionSetupRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MBS-AssistanceInformation CRITICALITY ignore EXTENSION MBS-AssistanceInformation PRESENCE optional },

...

}

MBSSessionSetuporModifyRequestList ::= SEQUENCE (SIZE(1..maxnoofMBSSessions)) OF MBSSessionSetuporModifyRequestItem

MBSSessionSetuporModifyRequestItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

mBS-AreaSessionID MBS-AreaSessionID OPTIONAL,

associatedMBSQosFlowSetuporModifyRequestList AssociatedMBSQosFlowSetuporModifyRequestList OPTIONAL,

mBS-QosFlowToReleaseList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer {{MBSSessionSetuporModifyRequestItem-ExtIEs}} OPTIONAL,

...

}

MBSSessionSetuporModifyRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MBS-AssistanceInformation CRITICALITY ignore EXTENSION MBS-AssistanceInformation PRESENCE optional },

...

}

MBSSessionToReleaseList ::= SEQUENCE (SIZE(1..maxnoofMBSSessions)) OF MBSSessionToReleaseItem

MBSSessionToReleaseItem ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

cause Cause,

iE-Extensions ProtocolExtensionContainer { { MBSSessionToReleaseItem-ExtIEs} } OPTIONAL,

...

}

MBSSessionToReleaseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBSSessionStatus ::= ENUMERATED {

activated,

deactivated,

...

}

MicoAllPLMN ::= ENUMERATED {

true,

...

}

MICOModeIndication ::= ENUMERATED {

true,

...

}

MobilityInformation ::= BIT STRING (SIZE(16))

ExtendedMobilityInformation ::= BIT STRING (SIZE(32))

MobilityRestrictionList ::= SEQUENCE {

servingPLMN PLMNIdentity,

equivalentPLMNs EquivalentPLMNs OPTIONAL,

rATRestrictions RATRestrictions OPTIONAL,

forbiddenAreaInformation ForbiddenAreaInformation OPTIONAL,

serviceAreaInformation ServiceAreaInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MobilityRestrictionList-ExtIEs} } OPTIONAL,

...

}

MobilityRestrictionList-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-LastEUTRAN-PLMNIdentity CRITICALITY ignore EXTENSION PLMNIdentity PRESENCE optional }|

{ ID id-CNTypeRestrictionsForServing CRITICALITY ignore EXTENSION CNTypeRestrictionsForServing PRESENCE optional }|

{ ID id-CNTypeRestrictionsForEquivalent CRITICALITY ignore EXTENSION CNTypeRestrictionsForEquivalent PRESENCE optional }|

{ ID id-NPN-MobilityInformation CRITICALITY reject EXTENSION NPN-MobilityInformation PRESENCE optional },

...

}

MDT-AlignmentInfo ::= CHOICE {

s-basedMDT NGRANTraceID,

choice-Extensions ProtocolIE-SingleContainer { { MDT-AlignmentInfo-ExtIEs} }

}

MDT-AlignmentInfo-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MDTPLMNList ::= SEQUENCE (SIZE(1..maxnoofMDTPLMNs)) OF PLMNIdentity

MDTPLMNModificationList ::= SEQUENCE (SIZE(0..maxnoofMDTPLMNs)) OF PLMNIdentity

MDT-Configuration ::= SEQUENCE {

mdt-Config-NR MDT-Configuration-NR OPTIONAL,

mdt-Config-EUTRA MDT-Configuration-EUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MN-only-MDT-collection CRITICALITY ignore EXTENSION MN-only-MDT-collection PRESENCE optional },

...

}

MN-only-MDT-collection ::= ENUMERATED {mn-only, ...}

MDT-Configuration-NR ::= SEQUENCE {

mdt-Activation MDT-Activation,

areaScopeOfMDT AreaScopeOfMDT-NR,

mDTModeNr MDTModeNr,

signallingBasedMDTPLMNList MDTPLMNList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-NR-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-NR-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PNI-NPN-AreaScopeofMDT CRITICALITY ignore EXTENSION PNI-NPN-AreaScopeofMDT PRESENCE optional },

...

}

MDT-Configuration-EUTRA ::= SEQUENCE {

mdt-Activation MDT-Activation,

areaScopeOfMDT  AreaScopeOfMDT-EUTRA,

mDTMode  MDTModeEutra,

signallingBasedMDTPLMNList MDTPLMNList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-EUTRA-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-EUTRA-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MDT-Activation ::= ENUMERATED {

immediate-MDT-only,

logged-MDT-only,

immediate-MDT-and-Trace,

...

}

MDTModeNr ::= CHOICE {

immediateMDTNr ImmediateMDTNr,

loggedMDTNr LoggedMDTNr,

choice-Extensions ProtocolIE-SingleContainer { {MDTModeNr-ExtIEs} }

}

MDTModeNr-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

MDTModeEutra ::= OCTET STRING

MeasurementsToActivate ::= BIT STRING(SIZE(8))

MobileIAB-Authorized ::= ENUMERATED {

authorized,

not-authorized,

...

}

MobileIABNodeIndication ::= ENUMERATED {

true,

...

}

MobileIAB-Supported ::= ENUMERATED {

true,

...

}

MRB-ID ::= INTEGER (1..512, ...)

MulticastSessionActivationRequestTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

iE-Extensions ProtocolExtensionContainer { { MulticastSessionActivationRequestTransfer-ExtIEs} } OPTIONAL,

...

}

MulticastSessionActivationRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MulticastSessionDeactivationRequestTransfer ::= SEQUENCE {

mBS-SessionID MBS-SessionID,

iE-Extensions ProtocolExtensionContainer { { MulticastSessionDeactivationRequestTransfer-ExtIEs} } OPTIONAL,

...

}

MulticastSessionDeactivationRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MulticastSessionUpdateRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {MulticastSessionUpdateRequestTransferIEs} },

...

}

MulticastSessionUpdateRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-MBS-SessionID CRITICALITY reject TYPE MBS-SessionID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MBS-QoSFlowsToBeSetupModList CRITICALITY reject TYPE MBS-QoSFlowsToBeSetupList PRESENCE optional }|

{ ID id-MBS-QoSFlowToReleaseList CRITICALITY reject TYPE QosFlowListWithCause PRESENCE optional }|

{ ID id-MBS-SessionTNLInfo5GC CRITICALITY reject TYPE MBS-SessionTNLInfo5GC PRESENCE optional },

...

}

MulticastGroupPagingAreaList ::= SEQUENCE (SIZE(1..maxnoofPagingAreas)) OF MulticastGroupPagingAreaItem

MulticastGroupPagingAreaItem ::= SEQUENCE {

multicastGroupPagingArea MulticastGroupPagingArea,

uE-PagingList UE-PagingList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MulticastGroupPagingAreaItem-ExtIEs} } OPTIONAL,

...

}

MulticastGroupPagingAreaItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-AreaTAIList ::= SEQUENCE (SIZE(1..maxnoofTAIforPaging)) OF TAI

MulticastGroupPagingArea ::= SEQUENCE {

mBS-AreaTAIList MBS-AreaTAIList,

iE-Extensions ProtocolExtensionContainer { { MulticastGroupPagingArea-ExtIEs} } OPTIONAL,

...

}

MulticastGroupPagingArea-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UE-PagingList ::= SEQUENCE (SIZE(1..maxnoofUEsforPaging)) OF UE-PagingItem

UE-PagingItem ::= SEQUENCE {

uEIdentityIndexValue UEIdentityIndexValue,

pagingDRX PagingDRX OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UE-PagingItem-ExtIEs} } OPTIONAL,

...

}

UE-PagingItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

M1Configuration ::= SEQUENCE {

m1reportingTrigger M1ReportingTrigger,

m1thresholdEventA2 M1ThresholdEventA2 OPTIONAL,

-- The above IE shall be present if the M1 Reporting Trigger IE is set to the value “A2event-triggered” or “A2event-triggered periodic”

m1periodicReporting M1PeriodicReporting OPTIONAL,

-- The above IE shall be present if the M1 Reporting Trigger IE is set to the value “periodic” or “A2event-triggered periodic”

iE-Extensions ProtocolExtensionContainer { { M1Configuration-ExtIEs} } OPTIONAL,

...

}

M1Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-IncludeBeamMeasurementsIndication CRITICALITY ignore EXTENSION IncludeBeamMeasurementsIndication PRESENCE optional }|

{ ID id-BeamMeasurementsReportConfiguration CRITICALITY ignore EXTENSION BeamMeasurementsReportConfiguration PRESENCE conditional },

-- The above IE shall be present if the Include Beam Measurements Indication IE is set to the value “true”

...

}

IncludeBeamMeasurementsIndication ::= ENUMERATED {

true,

...

}

MaxNrofRS-IndexesToReport ::= INTEGER (1..64, ...)

M1ReportingTrigger ::= ENUMERATED {

periodic,

a2eventtriggered,

a2eventtriggered-periodic,

...

}

M1ThresholdEventA2 ::= SEQUENCE {

m1ThresholdType M1ThresholdType,

iE-Extensions ProtocolExtensionContainer { { M1ThresholdEventA2-ExtIEs} } OPTIONAL,

...

}

M1ThresholdEventA2-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

M1ThresholdType ::= CHOICE {

threshold-RSRP Threshold-RSRP,

threshold-RSRQ Threshold-RSRQ,

threshold-SINR Threshold-SINR,

choice-Extensions ProtocolIE-SingleContainer { {M1ThresholdType-ExtIEs} }

}

M1ThresholdType-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

M1PeriodicReporting ::= SEQUENCE {

reportInterval ReportIntervalMDT,

reportAmount ReportAmountMDT,

iE-Extensions ProtocolExtensionContainer { { M1PeriodicReporting-ExtIEs} } OPTIONAL,

...

}

M1PeriodicReporting-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-ExtendedReportIntervalMDT CRITICALITY ignore EXTENSION ExtendedReportIntervalMDT PRESENCE optional},

...

}

M4Configuration ::= SEQUENCE {

m4period M4period,

m4-links-to-log Links-to-log,

iE-Extensions ProtocolExtensionContainer { { M4Configuration-ExtIEs} } OPTIONAL,

...

}

M4Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-M4ReportAmount CRITICALITY ignore EXTENSION M4ReportAmountMDT PRESENCE optional },

...

}

M4ReportAmountMDT ::= ENUMERATED {r1, r2, r4, r8, r16, r32, r64, infinity, ...}

M4period ::= ENUMERATED {ms1024, ms2048, ms5120, ms10240, min1, ... }

M5Configuration ::= SEQUENCE {

m5period M5period,

m5-links-to-log Links-to-log,

iE-Extensions ProtocolExtensionContainer { { M5Configuration-ExtIEs} } OPTIONAL,

...

}

M5Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-M5ReportAmount CRITICALITY ignore EXTENSION M5ReportAmountMDT PRESENCE optional },

...

}

M5ReportAmountMDT ::= ENUMERATED {r1, r2, r4, r8, r16, r32, r64, infinity, ...}

M5period ::= ENUMERATED {ms1024, ms2048, ms5120, ms10240, min1, ... }

M6Configuration ::= SEQUENCE {

m6report-Interval M6report-Interval,

m6-links-to-log Links-to-log,

iE-Extensions ProtocolExtensionContainer { { M6Configuration-ExtIEs} } OPTIONAL,

...

}

M6Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-M6ReportAmount CRITICALITY ignore EXTENSION M6ReportAmountMDT PRESENCE optional }|

{ ID id-ExcessPacketDelayThresholdConfiguration CRITICALITY ignore EXTENSION ExcessPacketDelayThresholdConfiguration PRESENCE optional },

...

}

M6ReportAmountMDT ::= ENUMERATED {r1, r2, r4, r8, r16, r32, r64, infinity, ...}

M6report-Interval ::= ENUMERATED {

ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, ms20480, ms40960, min1, min6, min12, min30,

...

}

M7Configuration ::= SEQUENCE {

m7period M7period,

m7-links-to-log Links-to-log,

iE-Extensions ProtocolExtensionContainer { { M7Configuration-ExtIEs} } OPTIONAL,

...

}

M7Configuration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-M7ReportAmount CRITICALITY ignore EXTENSION M7ReportAmountMDT PRESENCE optional },

...

}

M7ReportAmountMDT ::= ENUMERATED {r1, r2, r4, r8, r16, r32, r64, infinity, ...}

M7period ::= INTEGER(1..60, ...)

MDT-Location-Info ::= SEQUENCE {

mDT-Location-Information MDT-Location-Information,

iE-Extensions ProtocolExtensionContainer { { MDT-Location-Info-ExtIEs} } OPTIONAL,

...

}

MDT-Location-Info-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

MDT-Location-Information::= BIT STRING (SIZE (8))

-- N

N3IWF-ID ::= CHOICE {

n3IWF-ID BIT STRING (SIZE(16)),

choice-Extensions ProtocolIE-SingleContainer { {N3IWF-ID-ExtIEs} }

}

N3IWF-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

N6JitterInformation ::= SEQUENCE {

n6JitterLowerBound INTEGER (-127..127),

n6JitterUpperBound INTEGER (-127..127),

iE-Extensions ProtocolExtensionContainer { { N6JitterInformation-ExtIEs} } OPTIONAL,

...

}

N6JitterInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NAS-PDU ::= OCTET STRING

NASSecurityParametersFromNGRAN ::= OCTET STRING

NB-IoT-DefaultPagingDRX ::= ENUMERATED {

rf128, rf256, rf512, rf1024,

...

}

NB-IoT-PagingDRX ::= ENUMERATED {

rf32, rf64, rf128, rf256, rf512, rf1024,

...

}

NB-IoT-Paging-eDRXCycle ::= ENUMERATED {

hf2, hf4, hf6, hf8, hf10, hf12, hf14, hf16, hf32, hf64, hf128, hf256, hf512, hf1024,

...

}

NB-IoT-Paging-TimeWindow ::= ENUMERATED {

s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, s12, s13, s14, s15, s16,

...

}

NB-IoT-Paging-eDRXInfo ::= SEQUENCE {

nB-IoT-Paging-eDRXCycle NB-IoT-Paging-eDRXCycle,

nB-IoT-Paging-TimeWindow NB-IoT-Paging-TimeWindow OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NB-IoT-Paging-eDRXInfo-ExtIEs} } OPTIONAL,

...

}

NB-IoT-Paging-eDRXInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NB-IoT-UEPriority ::= INTEGER (0..255, ...)

NetworkControlledRepeaterAuthorized ::= ENUMERATED {authorized, not-authorized, ...}

NetworkInstance ::= INTEGER (1..256, ...)

NewSecurityContextInd ::= ENUMERATED {

true,

...

}

NextHopChainingCount ::= INTEGER (0..7)

NextPagingAreaScope ::= ENUMERATED {

same,

changed,

...

}

NGAPIESupportInformationRequestList ::= SEQUENCE (SIZE(1.. maxnoofNGAPIESupportInfo)) OF NGAPIESupportInformationRequestItem

NGAPIESupportInformationRequestItem ::= SEQUENCE {

ngap-ProtocolIE-Id ProtocolIE-ID,

iE-Extensions ProtocolExtensionContainer { { NGAPIESupportInformationRequestItem-ExtIEs} } OPTIONAL,

...

}

NGAPIESupportInformationRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGAPIESupportInformationResponseList ::= SEQUENCE (SIZE(1.. maxnoofNGAPIESupportInfo)) OF NGAPIESupportInformationResponseItem

NGAPIESupportInformationResponseItem ::= SEQUENCE {

ngap-ProtocolIE-Id ProtocolIE-ID,

ngap-ProtocolIESupportInfo ENUMERATED {supported, not-supported, ...},

ngap-ProtocolIEPresenceInfo ENUMERATED {present, not-present, ...},

iE-Extensions ProtocolExtensionContainer { { NGAPIESupportInformationResponseItem-ExtIEs} } OPTIONAL,

...

}

NGAPIESupportInformationResponseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NgENB-ID ::= CHOICE {

macroNgENB-ID BIT STRING (SIZE(20)),

shortMacroNgENB-ID BIT STRING (SIZE(18)),

longMacroNgENB-ID BIT STRING (SIZE(21)),

choice-Extensions ProtocolIE-SingleContainer { {NgENB-ID-ExtIEs} }

}

NgENB-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NotifySourceNGRANNode ::= ENUMERATED {

notifySource,

...

}

NGRAN-CGI ::= CHOICE {

nR-CGI NR-CGI,

eUTRA-CGI EUTRA-CGI,

choice-Extensions ProtocolIE-SingleContainer { {NGRAN-CGI-ExtIEs} }

}

NGRAN-CGI-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NGRAN-TNLAssociationToRemoveList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF NGRAN-TNLAssociationToRemoveItem

NGRAN-TNLAssociationToRemoveItem::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

tNLAssociationTransportLayerAddressAMF CPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NGRAN-TNLAssociationToRemoveItem-ExtIEs} } OPTIONAL

}

NGRAN-TNLAssociationToRemoveItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGRANTraceID ::= OCTET STRING (SIZE(8))

NID ::= BIT STRING (SIZE(44))

NonDynamic5QIDescriptor ::= SEQUENCE {

fiveQI FiveQI,

priorityLevelQos PriorityLevelQos OPTIONAL,

averagingWindow AveragingWindow OPTIONAL,

maximumDataBurstVolume MaximumDataBurstVolume OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NonDynamic5QIDescriptor-ExtIEs} } OPTIONAL,

...

}

NonDynamic5QIDescriptor-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CNPacketDelayBudgetDL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-CNPacketDelayBudgetUL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional },

...

}

NoPDUSessionIndication ::= ENUMERATED {true, ...}

NotAllowedTACs ::= SEQUENCE (SIZE(1..maxnoofAllowedAreas)) OF TAC

NotificationCause ::= ENUMERATED {

fulfilled,

not-fulfilled,

...

}

NotificationControl ::= ENUMERATED {

notification-requested,

...

}

NPN-AccessInformation ::= CHOICE {

pNI-NPN-Access-Information CellCAGList,

choice-Extensions ProtocolIE-SingleContainer { {NPN-AccessInformation-ExtIEs} }

}

NPN-AccessInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NPN-MobilityInformation ::= CHOICE {

sNPN-MobilityInformation SNPN-MobilityInformation,

pNI-NPN-MobilityInformation PNI-NPN-MobilityInformation,

choice-Extensions ProtocolIE-SingleContainer { {NPN-MobilityInformation-ExtIEs} }

}

NPN-MobilityInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NPN-PagingAssistanceInformation ::= CHOICE {

pNI-NPN-PagingAssistance Allowed-PNI-NPN-List,

choice-Extensions ProtocolIE-SingleContainer { {NPN-PagingAssistanceInformation-ExtIEs} }

}

NPN-PagingAssistanceInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NPN-Support ::= CHOICE {

sNPN NID,

choice-Extensions ProtocolIE-SingleContainer { {NPN-Support-ExtIEs} }

}

NPN-Support-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

NRCellIdentity ::= BIT STRING (SIZE(36))

NR-CGI ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

nRCellIdentity NRCellIdentity,

iE-Extensions ProtocolExtensionContainer { {NR-CGI-ExtIEs} } OPTIONAL,

...

}

NR-CGI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NR-CGIList ::= SEQUENCE (SIZE(1..maxnoofCellsingNB)) OF NR-CGI

NR-CGIListForWarning ::= SEQUENCE (SIZE(1..maxnoofCellIDforWarning)) OF NR-CGI

NR-PagingeDRXInformation ::= SEQUENCE {

nR-paging-eDRX-Cycle NR-Paging-eDRX-Cycle,

nR-paging-Time-Window NR-Paging-Time-Window OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NR-PagingeDRXInformation-ExtIEs} } OPTIONAL,

...

}

NR-PagingeDRXInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NR-Paging-eDRX-Cycle ::= ENUMERATED {

hfquarter, hfhalf, hf1, hf2, hf4, hf8, hf16,

hf32, hf64, hf128, hf256, hf512, hf1024,

...

}

NR-Paging-Long-eDRX-Information-for-RRC-INACTIVE ::= SEQUENCE {

nR-paging-Long-eDRX-Cycle-for-RRC-INACTIVE NR-Paging-Long-eDRX-Cycle-for-RRC-INACTIVE,

nR-paging-Time-Window-for-RRC-INACTIVE NR-Paging-Time-Window-for-RRC-INACTIVE,

iE-Extensions ProtocolExtensionContainer { {NR-Paging-Long-eDRX-Information-for-RRC-INACTIVE-ExtIEs} } OPTIONAL,

...

}

NR-Paging-Long-eDRX-Information-for-RRC-INACTIVE-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NR-Paging-Long-eDRX-Cycle-for-RRC-INACTIVE ::= ENUMERATED {

hf2, hf4, hf8, hf16,

hf32, hf64, hf128, hf256, hf512, hf1024,

...

}

NR-Paging-Time-Window ::= ENUMERATED {

s1, s2, s3, s4, s5,

s6, s7, s8, s9, s10,

s11, s12, s13, s14, s15, s16,

...,

s17, s18, s19, s20, s21, s22, s23, s24,

s25, s26, s27, s28, s29, s30, s31, s32

}

NR-Paging-Time-Window-for-RRC-INACTIVE ::= ENUMERATED {

s1, s2, s3, s4, s5,

s6, s7, s8, s9, s10,

s11, s12, s13, s14, s15, s16,

s17, s18, s19, s20, s21, s22, s23, s24,

s25, s26, s27, s28, s29, s30, s31, s32,

...

}

NRencryptionAlgorithms ::= BIT STRING (SIZE(16, ...))

NRintegrityProtectionAlgorithms ::= BIT STRING (SIZE(16, ...))

NRMobilityHistoryReport ::= OCTET STRING

NRPPa-PDU ::= OCTET STRING

NRUERLFReportContainer ::= OCTET STRING

NRNTNTAIInformation ::= SEQUENCE {

servingPLMN PLMNIdentity,

tACListInNRNTN TACListInNRNTN,

uELocationDerivedTACInNRNTN TAC OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NRNTNTAIInformation-ExtIEs} } OPTIONAL,

...

}

NRNTNTAIInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NumberOfBroadcasts ::= INTEGER (0..65535)

NumberOfBroadcastsRequested ::= INTEGER (0..65535)

NRARFCN ::= INTEGER (0.. maxNRARFCN)

NRFrequencyBand ::= INTEGER (1..1024, ...)

NRFrequencyBand-List ::= SEQUENCE (SIZE(1..maxnoofNRCellBands)) OF NRFrequencyBandItem

NRFrequencyBandItem ::= SEQUENCE {

nr-frequency-band NRFrequencyBand,

iE-Extension ProtocolExtensionContainer { {NRFrequencyBandItem-ExtIEs} } OPTIONAL,

...

}

NRFrequencyBandItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NRFrequencyInfo ::= SEQUENCE {

nrARFCN NRARFCN,

frequencyBand-List NRFrequencyBand-List,

iE-Extension ProtocolExtensionContainer { {NRFrequencyInfo-ExtIEs} } OPTIONAL,

...

}

NRFrequencyInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NR-PCI ::= INTEGER (0..1007, ...)

NRV2XServicesAuthorized ::= SEQUENCE {

vehicleUE VehicleUE OPTIONAL,

pedestrianUE PedestrianUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NRV2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

NRV2XServicesAuthorized-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

VehicleUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

PedestrianUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

NRUESidelinkAggregateMaximumBitrate ::= SEQUENCE {

uESidelinkAggregateMaximumBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { {NRUESidelinkAggregateMaximumBitrate-ExtIEs} } OPTIONAL,

...

}

NRUESidelinkAggregateMaximumBitrate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NSAG-ID ::= INTEGER (0..255, ...)

NR-A2X-ServicesAuthorized ::= SEQUENCE {

aerialUE ENUMERATED {authorized, not-authorized, ...} OPTIONAL,

aerialControllerUE ENUMERATED {authorized, not-authorized, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NR-A2X-ServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

NR-A2X-ServicesAuthorized-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- O

OnboardingSupport ::= ENUMERATED {

true,

...

}

OverloadAction ::= ENUMERATED {

reject-non-emergency-mo-dt,

reject-rrc-cr-signalling,

permit-emergency-sessions-and-mobile-terminated-services-only,

permit-high-priority-sessions-and-mobile-terminated-services-only,

...

}

OverloadResponse ::= CHOICE {

overloadAction OverloadAction,

choice-Extensions ProtocolIE-SingleContainer { {OverloadResponse-ExtIEs} }

}

OverloadResponse-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

OverloadStartNSSAIList ::= SEQUENCE (SIZE (1..maxnoofSliceItems)) OF OverloadStartNSSAIItem

OverloadStartNSSAIItem ::= SEQUENCE {

sliceOverloadList SliceOverloadList,

sliceOverloadResponse OverloadResponse OPTIONAL,

sliceTrafficLoadReductionIndication TrafficLoadReductionIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {OverloadStartNSSAIItem-ExtIEs} } OPTIONAL,

...

}

OverloadStartNSSAIItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- P

PacketDelayBudget ::= INTEGER (0..1023, ...)

PacketErrorRate ::= SEQUENCE {

pERScalar INTEGER (0..9, ...),

pERExponent INTEGER (0..9, ...),

iE-Extensions ProtocolExtensionContainer { {PacketErrorRate-ExtIEs} } OPTIONAL,

...

}

PacketErrorRate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PacketLossRate ::= INTEGER (0..1000, ...)

PagingAssisDataforCEcapabUE ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

coverageEnhancementLevel CoverageEnhancementLevel,

iE-Extensions ProtocolExtensionContainer { { PagingAssisDataforCEcapabUE-ExtIEs} } OPTIONAL,

...

}

PagingAssisDataforCEcapabUE-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PagingAttemptInformation ::= SEQUENCE {

pagingAttemptCount PagingAttemptCount,

intendedNumberOfPagingAttempts IntendedNumberOfPagingAttempts,

nextPagingAreaScope NextPagingAreaScope OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PagingAttemptInformation-ExtIEs} } OPTIONAL,

...

}

PagingAttemptInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PagingAttemptCount ::= INTEGER (1..16, ...)

PagingCause ::= ENUMERATED {

voice,

...

}

PagingCauseIndicationForVoiceService ::= ENUMERATED {

supported,

...

}

PagingDRX ::= ENUMERATED {

v32,

v64,

v128,

v256,

...

}

PagingOrigin ::= ENUMERATED {

non-3gpp,

...

}

PagingPolicyDifferentiation ::= SEQUENCE {

pDUSessionForPagingList PDUSessionForPagingList,

iE-Extensions ProtocolExtensionContainer { { PagingPolicyDifferentiation-ExtIEs} } OPTIONAL,

...

}

PagingPolicyDifferentiation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionForPagingList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionForPagingItem

PDUSessionForPagingItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

pagingPolicyDifferentiationList  PagingPolicyDifferentiationList,

iE-Extensions ProtocolExtensionContainer { { PDUSessionForPagingItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionForPagingItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PagingPolicyDifferentiationList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF PagingPolicyDifferentiationItem

PagingPolicyDifferentiationItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier OPTIONAL,

pagingPolicyIndicator PagingPolicyIndicator OPTIONAL,

allocationAndRetentionPriority AllocationAndRetentionPriority OPTIONAL,

fiveQI FiveQI OPTIONAL,

dl-DataSize INTEGER (0..96000, ...) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PagingPolicyDifferentiationItem-ExtIEs} } OPTIONAL,

...

}

PagingPolicyDifferentiationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PagingPolicyIndicator ::= INTEGER (0..7, ...)

PagingPriority ::= ENUMERATED {

priolevel1,

priolevel2,

priolevel3,

priolevel4,

priolevel5,

priolevel6,

priolevel7,

priolevel8,

...

}

PagingProbabilityInformation ::= ENUMERATED {

p00, p05, p10, p15, p20, p25, p30, p35, p40, p45, p50, p55, p60, p65, p70, p75, p80, p85, p90, p95, p100,

...

}

ParentTImeSource ::= ENUMERATED {synce, ptp, gnss, atomicclock, terrestrialradio, serialtimecode, ntp, handset, other, ...}

Partially-Allowed-NSSAI ::= SEQUENCE (SIZE(1.. maxnoofPartiallyAllowedS-NSSAIs)) OF PartiallyAllowedNSSAI-Item

PartiallyAllowedNSSAI-Item ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {PartiallyAllowedNSSAI-Item-ExtIEs} } OPTIONAL,

...

}

PartiallyAllowedNSSAI-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PathSwitchRequestAcknowledgeTransfer ::= SEQUENCE {

uL-NGU-UP-TNLInformation UPTransportLayerInformation OPTIONAL,

securityIndication SecurityIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PathSwitchRequestAcknowledgeTransfer-ExtIEs} } OPTIONAL,

...

}

PathSwitchRequestAcknowledgeTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalNGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformationPairList PRESENCE optional }|

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalRedundantNGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformationPairList PRESENCE optional }|

{ ID id-QosFlowParametersList CRITICALITY ignore EXTENSION QosFlowParametersList PRESENCE optional },

...

}

PathSwitchRequestSetupFailedTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PathSwitchRequestSetupFailedTransfer-ExtIEs} } OPTIONAL,

...

}

PathSwitchRequestSetupFailedTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PathSwitchRequestTransfer ::= SEQUENCE {

dL-NGU-UP-TNLInformation UPTransportLayerInformation,

dL-NGU-TNLInformationReused DL-NGU-TNLInformationReused OPTIONAL,

userPlaneSecurityInformation UserPlaneSecurityInformation OPTIONAL,

qosFlowAcceptedList QosFlowAcceptedList,

iE-Extensions ProtocolExtensionContainer { {PathSwitchRequestTransfer-ExtIEs} } OPTIONAL,

...

}

PathSwitchRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-RedundantDL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-RedundantDL-NGU-TNLInformationReused CRITICALITY ignore EXTENSION DL-NGU-TNLInformationReused PRESENCE optional }|

{ ID id-AdditionalRedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-UsedRSNInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional }|

{ ID id-GlobalRANNodeID CRITICALITY ignore EXTENSION GlobalRANNodeID PRESENCE optional }|

{ ID id-MBS-SupportIndicator CRITICALITY ignore EXTENSION MBS-SupportIndicator PRESENCE optional }|

{ ID id-PDUSetbasedHandlingIndicator CRITICALITY ignore EXTENSION PDUSetbasedHandlingIndicator PRESENCE optional }|

{ ID id-ECNMarkingorCongestionInformationReportingStatus CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingStatus PRESENCE optional },

...

}

PathSwitchRequestUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PathSwitchRequestUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

PathSwitchRequestUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PC5QoSParameters ::= SEQUENCE {

pc5QoSFlowList PC5QoSFlowList,

pc5LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PC5QoSParameters-ExtIEs} } OPTIONAL,

...

}

PC5QoSParameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PC5QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofPC5QoSFlows)) OF PC5QoSFlowItem

PC5QoSFlowItem::= SEQUENCE {

pQI FiveQI,

pc5FlowBitRates PC5FlowBitRates OPTIONAL,

range Range OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PC5QoSFlowItem-ExtIEs} } OPTIONAL,

...

}

PC5QoSFlowItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PC5FlowBitRates ::= SEQUENCE {

guaranteedFlowBitRate BitRate,

maximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { PC5FlowBitRates-ExtIEs} } OPTIONAL,

...

}

PC5FlowBitRates-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PCIListForMDT ::= SEQUENCE (SIZE(1.. maxnoofNeighPCIforMDT)) OF NR-PCI

PrivacyIndicator ::= ENUMERATED {

immediate-MDT,

logged-MDT,

...

}

PDUSessionAggregateMaximumBitRate ::= SEQUENCE {

pDUSessionAggregateMaximumBitRateDL BitRate,

pDUSessionAggregateMaximumBitRateUL BitRate,

iE-Extensions ProtocolExtensionContainer { {PDUSessionAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

PDUSessionAggregateMaximumBitRate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionID ::= INTEGER (0..255)

PDUSessionPairID ::= INTEGER (0..255, ...)

PDUSessionResourceAdmittedList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceAdmittedItem

PDUSessionResourceAdmittedItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

handoverRequestAcknowledgeTransfer OCTET STRING (CONTAINING HandoverRequestAcknowledgeTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceAdmittedItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceAdmittedItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToModifyListModCfm ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToModifyItemModCfm

PDUSessionResourceFailedToModifyItemModCfm ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceModifyIndicationUnsuccessfulTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyIndicationUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToModifyItemModCfm-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToModifyItemModCfm-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToModifyListModRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToModifyItemModRes

PDUSessionResourceFailedToModifyItemModRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceModifyUnsuccessfulTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToModifyItemModRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToModifyItemModRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToResumeListRESReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToResumeItemRESReq

PDUSessionResourceFailedToResumeItemRESReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToResumeItemRESReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToResumeItemRESReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToResumeListRESRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToResumeItemRESRes

PDUSessionResourceFailedToResumeItemRESRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToResumeItemRESRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToResumeItemRESRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToSetupListCxtFail ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToSetupItemCxtFail

PDUSessionResourceFailedToSetupItemCxtFail ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceSetupUnsuccessfulTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToSetupItemCxtFail-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToSetupItemCxtFail-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToSetupListCxtRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToSetupItemCxtRes

PDUSessionResourceFailedToSetupItemCxtRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceSetupUnsuccessfulTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToSetupItemCxtRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToSetupItemCxtRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToSetupListHOAck ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToSetupItemHOAck

PDUSessionResourceFailedToSetupItemHOAck ::= SEQUENCE {

pDUSessionID PDUSessionID,

handoverResourceAllocationUnsuccessfulTransfer OCTET STRING (CONTAINING HandoverResourceAllocationUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToSetupItemHOAck-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToSetupItemHOAck-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToSetupListPSReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToSetupItemPSReq

PDUSessionResourceFailedToSetupItemPSReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

pathSwitchRequestSetupFailedTransfer OCTET STRING (CONTAINING PathSwitchRequestSetupFailedTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToSetupItemPSReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToSetupItemPSReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceFailedToSetupListSURes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceFailedToSetupItemSURes

PDUSessionResourceFailedToSetupItemSURes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceSetupUnsuccessfulTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceFailedToSetupItemSURes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceFailedToSetupItemSURes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceHandoverList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceHandoverItem

PDUSessionResourceHandoverItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

handoverCommandTransfer OCTET STRING (CONTAINING HandoverCommandTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceHandoverItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceHandoverItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceInformationList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceInformationItem

PDUSessionResourceInformationItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

qosFlowInformationList QosFlowInformationList,

dRBsToQosFlowsMappingList DRBsToQosFlowsMappingList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceInformationItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceListCxtRelCpl ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceItemCxtRelCpl

PDUSessionResourceItemCxtRelCpl ::= SEQUENCE {

pDUSessionID PDUSessionID,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceItemCxtRelCpl-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceItemCxtRelCpl-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PDUSessionResourceReleaseResponseTransfer CRITICALITY ignore EXTENSION OCTET STRING (CONTAINING PDUSessionResourceReleaseResponseTransfer) PRESENCE optional },

...

}

PDUSessionResourceListCxtRelReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceItemCxtRelReq

PDUSessionResourceItemCxtRelReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceItemCxtRelReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceItemCxtRelReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceListHORqd ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceItemHORqd

PDUSessionResourceItemHORqd ::= SEQUENCE {

pDUSessionID PDUSessionID,

handoverRequiredTransfer OCTET STRING (CONTAINING HandoverRequiredTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceItemHORqd-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceItemHORqd-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionListMTCommHReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionListMTCommHReq-Item

PDUSessionListMTCommHReq-Item ::= SEQUENCE {

pDUSessionID PDUSessionID,

iE-Extensions ProtocolExtensionContainer { { PDUSessionListMTCommHReq-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionListMTCommHReq-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceModifyConfirmTransfer ::= SEQUENCE {

qosFlowModifyConfirmList QosFlowModifyConfirmList,

uLNGU-UP-TNLInformation UPTransportLayerInformation,

additionalNG-UUPTNLInformation UPTransportLayerInformationPairList OPTIONAL,

qosFlowFailedToModifyList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyConfirmTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyConfirmTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalRedundantNGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformationPairList PRESENCE optional },

...

}

PDUSessionResourceModifyIndicationUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyIndicationUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyIndicationUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceModifyRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceModifyRequestTransferIEs} },

...

}

PDUSessionResourceModifyRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-PDUSessionAggregateMaximumBitRate CRITICALITY reject TYPE PDUSessionAggregateMaximumBitRate PRESENCE optional }|

{ ID id-UL-NGU-UP-TNLModifyList CRITICALITY reject TYPE UL-NGU-UP-TNLModifyList PRESENCE optional }|

{ ID id-NetworkInstance CRITICALITY reject TYPE NetworkInstance PRESENCE optional }|

{ ID id-QosFlowAddOrModifyRequestList CRITICALITY reject TYPE QosFlowAddOrModifyRequestList PRESENCE optional }|

{ ID id-QosFlowToReleaseList CRITICALITY reject TYPE QosFlowListWithCause PRESENCE optional }|

{ ID id-AdditionalUL-NGU-UP-TNLInformation CRITICALITY reject TYPE UPTransportLayerInformationList PRESENCE optional }|

{ ID id-CommonNetworkInstance CRITICALITY ignore TYPE CommonNetworkInstance PRESENCE optional }|

{ ID id-AdditionalRedundantUL-NGU-UP-TNLInformation CRITICALITY ignore TYPE UPTransportLayerInformationList PRESENCE optional }|

{ ID id-RedundantCommonNetworkInstance CRITICALITY ignore TYPE CommonNetworkInstance PRESENCE optional }|

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore TYPE UPTransportLayerInformation PRESENCE optional }|

{ ID id-SecurityIndication CRITICALITY ignore TYPE SecurityIndication PRESENCE optional }|

{ ID id-MBSSessionSetuporModifyRequestList CRITICALITY ignore TYPE MBSSessionSetuporModifyRequestList PRESENCE optional }|

{ ID id-MBSSessionToReleaseList CRITICALITY ignore TYPE MBSSessionToReleaseList PRESENCE optional }|

{ ID id-UserPlaneFailureIndication CRITICALITY ignore TYPE UserPlaneFailureIndication PRESENCE optional },

...

}

PDUSessionResourceModifyResponseTransfer ::= SEQUENCE {

dL-NGU-UP-TNLInformation UPTransportLayerInformation OPTIONAL,

uL-NGU-UP-TNLInformation UPTransportLayerInformation OPTIONAL,

qosFlowAddOrModifyResponseList QosFlowAddOrModifyResponseList OPTIONAL,

additionalDLQosFlowPerTNLInformation QosFlowPerTNLInformationList OPTIONAL,

qosFlowFailedToAddOrModifyList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyResponseTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalNGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformationPairList PRESENCE optional }|

{ ID id-RedundantDL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalRedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-AdditionalRedundantNGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformationPairList PRESENCE optional }|

{ ID id-SecondaryRATUsageInformation CRITICALITY ignore EXTENSION SecondaryRATUsageInformation PRESENCE optional }|

{ ID id-MBS-SupportIndicator CRITICALITY ignore EXTENSION MBS-SupportIndicator PRESENCE optional }|

{ ID id-MBSSessionSetuporModifyResponseList CRITICALITY ignore EXTENSION MBSSessionSetupResponseList PRESENCE optional }|

{ ID id-MBSSessionFailedtoSetuporModifyList CRITICALITY ignore EXTENSION MBSSessionFailedtoSetupList PRESENCE optional }|

{ ID id-ECNMarkingorCongestionInformationReportingStatus CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingStatus PRESENCE optional }|

{ ID id-PDUSetbasedHandlingIndicator CRITICALITY ignore EXTENSION PDUSetbasedHandlingIndicator PRESENCE optional }|

{ ID id-UserPlaneFailureIndicationReport CRITICALITY ignore EXTENSION UserPlaneFailureIndicationReport PRESENCE optional },

...

}

PDUSessionResourceModifyIndicationTransfer ::= SEQUENCE {

dLQosFlowPerTNLInformation QosFlowPerTNLInformation,

additionalDLQosFlowPerTNLInformation QosFlowPerTNLInformationList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyIndicationTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyIndicationTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondaryRATUsageInformation CRITICALITY ignore EXTENSION SecondaryRATUsageInformation PRESENCE optional }|

{ ID id-SecurityResult CRITICALITY ignore EXTENSION SecurityResult PRESENCE optional }|

{ ID id-RedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformation PRESENCE optional }|

{ ID id-AdditionalRedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-GlobalRANNodeID CRITICALITY ignore EXTENSION GlobalRANNodeID PRESENCE optional }|

{ ID id-ECNMarkingorCongestionInformationReportingStatus CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingStatus PRESENCE optional },

...

}

PDUSessionResourceModifyListModCfm ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceModifyItemModCfm

PDUSessionResourceModifyItemModCfm ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceModifyConfirmTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyConfirmTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyItemModCfm-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyItemModCfm-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceModifyListModInd ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceModifyItemModInd

PDUSessionResourceModifyItemModInd ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceModifyIndicationTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyIndicationTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyItemModInd-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyItemModInd-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceModifyListModReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceModifyItemModReq

PDUSessionResourceModifyItemModReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

nAS-PDU NAS-PDU OPTIONAL,

pDUSessionResourceModifyRequestTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyItemModReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyItemModReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-NSSAI CRITICALITY reject EXTENSION S-NSSAI PRESENCE optional }|

{ ID id-PduSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional },

...

}

PDUSessionResourceModifyListModRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceModifyItemModRes

PDUSessionResourceModifyItemModRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceModifyResponseTransfer OCTET STRING (CONTAINING PDUSessionResourceModifyResponseTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyItemModRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyItemModRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceModifyUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModifyUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModifyUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceNotifyList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceNotifyItem

PDUSessionResourceNotifyItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceNotifyTransfer OCTET STRING (CONTAINING PDUSessionResourceNotifyTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceNotifyItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceNotifyItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceNotifyReleasedTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceNotifyReleasedTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceNotifyReleasedTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondaryRATUsageInformation CRITICALITY ignore EXTENSION SecondaryRATUsageInformation PRESENCE optional }|

{ ID id-UserPlaneErrorIndicator CRITICALITY ignore EXTENSION UserPlaneErrorIndicator PRESENCE optional },

...

}

UserPlaneErrorIndicator ::= ENUMERATED {

gTP-U-error-indication-received,

...

}

PDUSessionResourceNotifyTransfer ::= SEQUENCE {

qosFlowNotifyList QosFlowNotifyList OPTIONAL,

qosFlowReleasedList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceNotifyTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceNotifyTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondaryRATUsageInformation CRITICALITY ignore EXTENSION SecondaryRATUsageInformation PRESENCE optional }|

{ ID id-QosFlowFeedbackList CRITICALITY ignore EXTENSION QosFlowFeedbackList PRESENCE optional },

...

}

PDUSessionResourceReleaseCommandTransfer ::= SEQUENCE {

cause Cause,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleaseCommandTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleaseCommandTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-QosFlowAdditionalInfoList CRITICALITY ignore EXTENSION QosFlowAdditionalInfoListRelCom PRESENCE optional },

...

}

PDUSessionResourceReleasedListNot ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceReleasedItemNot

PDUSessionResourceReleasedItemNot ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceNotifyReleasedTransfer OCTET STRING (CONTAINING PDUSessionResourceNotifyReleasedTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleasedItemNot-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleasedItemNot-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceReleasedListPSAck ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceReleasedItemPSAck

PDUSessionResourceReleasedItemPSAck ::= SEQUENCE {

pDUSessionID PDUSessionID,

pathSwitchRequestUnsuccessfulTransfer OCTET STRING (CONTAINING PathSwitchRequestUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleasedItemPSAck-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleasedItemPSAck-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceReleasedListPSFail ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceReleasedItemPSFail

PDUSessionResourceReleasedItemPSFail ::= SEQUENCE {

pDUSessionID PDUSessionID,

pathSwitchRequestUnsuccessfulTransfer OCTET STRING (CONTAINING PathSwitchRequestUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleasedItemPSFail-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleasedItemPSFail-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceReleasedListRelRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceReleasedItemRelRes

PDUSessionResourceReleasedItemRelRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceReleaseResponseTransfer OCTET STRING (CONTAINING PDUSessionResourceReleaseResponseTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleasedItemRelRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleasedItemRelRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceReleaseResponseTransfer ::= SEQUENCE {

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceReleaseResponseTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceReleaseResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondaryRATUsageInformation CRITICALITY ignore EXTENSION SecondaryRATUsageInformation PRESENCE optional }|

{ ID id-QosFlowAdditionalInfoList CRITICALITY ignore EXTENSION QosFlowAdditionalInfoListRelRes PRESENCE optional },

...

}

PDUSessionResourceResumeListRESReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceResumeItemRESReq

PDUSessionResourceResumeItemRESReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

uEContextResumeRequestTransfer OCTET STRING (CONTAINING UEContextResumeRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceResumeItemRESReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceResumeItemRESReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceResumeListRESRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceResumeItemRESRes

PDUSessionResourceResumeItemRESRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

uEContextResumeResponseTransfer OCTET STRING (CONTAINING UEContextResumeResponseTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceResumeItemRESRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceResumeItemRESRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSecondaryRATUsageList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSecondaryRATUsageItem

PDUSessionResourceSecondaryRATUsageItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

secondaryRATDataUsageReportTransfer OCTET STRING (CONTAINING SecondaryRATDataUsageReportTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSecondaryRATUsageItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSecondaryRATUsageItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSetupListCxtReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSetupItemCxtReq

PDUSessionResourceSetupItemCxtReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

nAS-PDU NAS-PDU OPTIONAL,

s-NSSAI S-NSSAI,

pDUSessionResourceSetupRequestTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupItemCxtReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupItemCxtReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PduSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional },

...

}

PDUSessionResourceSetupListCxtRes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSetupItemCxtRes

PDUSessionResourceSetupItemCxtRes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceSetupResponseTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupResponseTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupItemCxtRes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupItemCxtRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSetupListHOReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSetupItemHOReq

PDUSessionResourceSetupItemHOReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

s-NSSAI S-NSSAI,

handoverRequestTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupItemHOReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupItemHOReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PduSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional },

...

}

PDUSessionResourceSetupListSUReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSetupItemSUReq

PDUSessionResourceSetupItemSUReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionNAS-PDU NAS-PDU OPTIONAL,

s-NSSAI S-NSSAI,

pDUSessionResourceSetupRequestTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupItemSUReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupItemSUReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PduSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional },

...

}

PDUSessionResourceSetupListSURes ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSetupItemSURes

PDUSessionResourceSetupItemSURes ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceSetupResponseTransfer OCTET STRING (CONTAINING PDUSessionResourceSetupResponseTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupItemSURes-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupItemSURes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSetupRequestTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PDUSessionResourceSetupRequestTransferIEs} },

...

}

PDUSessionResourceSetupRequestTransferIEs NGAP-PROTOCOL-IES ::= {

{ ID id-PDUSessionAggregateMaximumBitRate CRITICALITY reject TYPE PDUSessionAggregateMaximumBitRate PRESENCE optional }|

{ ID id-UL-NGU-UP-TNLInformation CRITICALITY reject TYPE UPTransportLayerInformation PRESENCE mandatory }|

{ ID id-AdditionalUL-NGU-UP-TNLInformation CRITICALITY reject TYPE UPTransportLayerInformationList PRESENCE optional }|

{ ID id-DataForwardingNotPossible CRITICALITY reject TYPE DataForwardingNotPossible PRESENCE optional }|

{ ID id-PDUSessionType CRITICALITY reject TYPE PDUSessionType PRESENCE mandatory }|

{ ID id-SecurityIndication CRITICALITY reject TYPE SecurityIndication PRESENCE optional }|

{ ID id-NetworkInstance CRITICALITY reject TYPE NetworkInstance PRESENCE optional }|

{ ID id-QosFlowSetupRequestList CRITICALITY reject TYPE QosFlowSetupRequestList PRESENCE mandatory }|

{ ID id-CommonNetworkInstance CRITICALITY ignore TYPE CommonNetworkInstance PRESENCE optional }|

{ ID id-DirectForwardingPathAvailability CRITICALITY ignore TYPE DirectForwardingPathAvailability PRESENCE optional }|

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore TYPE UPTransportLayerInformation PRESENCE optional }|

{ ID id-AdditionalRedundantUL-NGU-UP-TNLInformation CRITICALITY ignore TYPE UPTransportLayerInformationList PRESENCE optional }|

{ ID id-RedundantCommonNetworkInstance CRITICALITY ignore TYPE CommonNetworkInstance PRESENCE optional }|

{ ID id-RedundantPDUSessionInformation CRITICALITY ignore TYPE RedundantPDUSessionInformation PRESENCE optional }|

{ ID id-MBSSessionSetupRequestList CRITICALITY ignore TYPE MBSSessionSetupRequestList PRESENCE optional }|

{ ID id-DownlinkTLContainer CRITICALITY ignore TYPE TLContainer PRESENCE optional },

...

}

PDUSessionResourceSetupResponseTransfer ::= SEQUENCE {

dLQosFlowPerTNLInformation QosFlowPerTNLInformation,

additionalDLQosFlowPerTNLInformation QosFlowPerTNLInformationList OPTIONAL,

securityResult SecurityResult OPTIONAL,

qosFlowFailedToSetupList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupResponseTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-RedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformation PRESENCE optional }|

{ ID id-AdditionalRedundantDLQosFlowPerTNLInformation CRITICALITY ignore EXTENSION QosFlowPerTNLInformationList PRESENCE optional }|

{ ID id-UsedRSNInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional }|

{ ID id-GlobalRANNodeID CRITICALITY ignore EXTENSION GlobalRANNodeID PRESENCE optional }|

{ ID id-MBS-SupportIndicator CRITICALITY ignore EXTENSION MBS-SupportIndicator PRESENCE optional }|

{ ID id-MBSSessionSetupResponseList CRITICALITY ignore EXTENSION MBSSessionSetupResponseList PRESENCE optional }|

{ ID id-MBSSessionFailedtoSetupList CRITICALITY ignore EXTENSION MBSSessionFailedtoSetupList PRESENCE optional }|

{ ID id-QoSFlowTSCList CRITICALITY ignore EXTENSION QoSFlowTSCList PRESENCE optional }|

{ ID id-UplinkTLContainer CRITICALITY ignore EXTENSION TLContainer PRESENCE optional }|

{ ID id-ECNMarkingorCongestionInformationReportingStatus CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingStatus PRESENCE optional }|

{ ID id-PDUSetbasedHandlingIndicator CRITICALITY ignore EXTENSION PDUSetbasedHandlingIndicator PRESENCE optional },

...

}

PDUSessionResourceSetupUnsuccessfulTransfer ::= SEQUENCE {

cause Cause,

criticalityDiagnostics CriticalityDiagnostics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupUnsuccessfulTransfer-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupUnsuccessfulTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSuspendListSUSReq ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSuspendItemSUSReq

PDUSessionResourceSuspendItemSUSReq ::= SEQUENCE {

pDUSessionID PDUSessionID,

uEContextSuspendRequestTransfer OCTET STRING (CONTAINING UEContextSuspendRequestTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSuspendItemSUSReq-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSuspendItemSUSReq-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceSwitchedList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSwitchedItem

PDUSessionResourceSwitchedItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

pathSwitchRequestAcknowledgeTransfer OCTET STRING (CONTAINING PathSwitchRequestAcknowledgeTransfer),

iE-Extensions ProtocolExtensionContainer { { PDUSessionResourceSwitchedItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSwitchedItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PduSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional },

...

}

PDUSessionResourceToBeSwitchedDLList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceToBeSwitchedDLItem

PDUSessionResourceToBeSwitchedDLItem ::= SEQUENCE {

pDUSessionID PDUSessionID,

pathSwitchRequestTransfer OCTET STRING (CONTAINING PathSwitchRequestTransfer),

iE-Extensions ProtocolExtensionContainer { { PDUSessionResourceToBeSwitchedDLItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceToBeSwitchedDLItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceToReleaseListHOCmd ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceToReleaseItemHOCmd

PDUSessionResourceToReleaseItemHOCmd ::= SEQUENCE {

pDUSessionID PDUSessionID,

handoverPreparationUnsuccessfulTransfer OCTET STRING (CONTAINING HandoverPreparationUnsuccessfulTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceToReleaseItemHOCmd-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceToReleaseItemHOCmd-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceToReleaseListRelCmd ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceToReleaseItemRelCmd

PDUSessionResourceToReleaseItemRelCmd ::= SEQUENCE {

pDUSessionID PDUSessionID,

pDUSessionResourceReleaseCommandTransfer OCTET STRING (CONTAINING PDUSessionResourceReleaseCommandTransfer),

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceToReleaseItemRelCmd-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceToReleaseItemRelCmd-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionType ::= ENUMERATED {

ipv4,

ipv6,

ipv4v6,

ethernet,

unstructured,

...

}

PDUSessionUsageReport ::= SEQUENCE {

rATType ENUMERATED {nr, eutra, ..., nr-unlicensed, e-utra-unlicensed},

pDUSessionTimedReportList VolumeTimedReportList,

iE-Extensions ProtocolExtensionContainer { {PDUSessionUsageReport-ExtIEs} } OPTIONAL,

...

}

PDUSessionUsageReport-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUsetQoSParameters ::= SEQUENCE {

ulPDUSetQoSInformation PDUsetQoSInformation OPTIONAL,

dlPDUSetQoSInformation PDUsetQoSInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PDUsetQoSParameters-ExtIEs } } OPTIONAL,

...

}

PDUsetQoSParameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUsetQoSInformation ::= SEQUENCE {

pduSetDelayBudget ExtendedPacketDelayBudget OPTIONAL,

pduSetErrorRate PacketErrorRate OPTIONAL,

pduSetIntegratedHandlingInformation ENUMERATED {true, false, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PDUsetQoSInformation-ExtIEs } } OPTIONAL,

...

}

PDUsetQoSInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSetbasedHandlingIndicator ::= ENUMERATED {supported, ...}

PEIPSassistanceInformation ::= SEQUENCE {

cNsubgroupID CNsubgroupID,

iE-Extensions ProtocolExtensionContainer { {PEIPSassistanceInformation-ExtIEs} } OPTIONAL,

...

}

PEIPSassistanceInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Periodicity ::= INTEGER (0..640000, ...)

PeriodicityBound ::= SEQUENCE {

periodicityLowerBound Periodicity,

periodicityUpperBound Periodicity,

iE-Extensions ProtocolExtensionContainer { {PeriodicityBound-ExtIEs} } OPTIONAL,

...

}

PeriodicityBound-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PeriodicityList ::= SEQUENCE {

allowedPeriodicityList AllowedPeriodicityList,

iE-Extensions ProtocolExtensionContainer { {PeriodicityList-ExtIEs} } OPTIONAL,

...

}

PeriodicityList-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

AllowedPeriodicityList ::= SEQUENCE (SIZE(1..maxnoofPeriodicities)) OF Periodicity

PeriodicityRange ::= CHOICE {

periodicityBound PeriodicityBound,

periodicityList AllowedPeriodicityList,

choice-extensions ProtocolIE-SingleContainer { {PeriodicityRange-ExtIEs} }

}

PeriodicityRange-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

PeriodicRegistrationUpdateTimer ::= BIT STRING (SIZE(8))

PLMNIdentity ::= OCTET STRING (SIZE(3))

PLMNAreaBasedQMC ::= SEQUENCE {

plmnListforQMC PLMNListforQMC,

iE-Extensions ProtocolExtensionContainer { {PLMNAreaBasedQMC-ExtIEs} } OPTIONAL,

...

}

PLMNAreaBasedQMC-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PLMNListforQMC ::= SEQUENCE (SIZE(1..maxnoofPLMNforQMC)) OF PLMNIdentity

PLMNSupportList ::= SEQUENCE (SIZE(1..maxnoofPLMNs)) OF PLMNSupportItem

PLMNSupportItem ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

sliceSupportList SliceSupportList,

iE-Extensions ProtocolExtensionContainer { {PLMNSupportItem-ExtIEs} } OPTIONAL,

...

}

PLMNSupportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-NPN-Support CRITICALITY reject EXTENSION NPN-Support PRESENCE optional }|

{ ID id-ExtendedSliceSupportList CRITICALITY reject EXTENSION ExtendedSliceSupportList PRESENCE optional }|

{ ID id-OnboardingSupport CRITICALITY ignore EXTENSION OnboardingSupport PRESENCE optional },

...

}

PNI-NPN-MobilityInformation ::= SEQUENCE {

allowed-PNI-NPI-List Allowed-PNI-NPN-List,

iE-Extensions ProtocolExtensionContainer { {PNI-NPN-MobilityInformation-ExtIEs} } OPTIONAL,

...

}

PNI-NPN-MobilityInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PortNumber ::= OCTET STRING (SIZE(2))

Pre-emptionCapability ::= ENUMERATED {

shall-not-trigger-pre-emption,

may-trigger-pre-emption,

...

}

Pre-emptionVulnerability ::= ENUMERATED {

not-pre-emptable,

pre-emptable,

...

}

PriorityLevelARP ::= INTEGER (1..15)

PriorityLevelQos ::= INTEGER (1..127, ...)

PWSFailedCellIDList ::= CHOICE {

eUTRA-CGI-PWSFailedList EUTRA-CGIList,

nR-CGI-PWSFailedList NR-CGIList,

choice-Extensions ProtocolIE-SingleContainer { {PWSFailedCellIDList-ExtIEs} }

}

PWSFailedCellIDList-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

PNI-NPN-AreaScopeofMDT ::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPN-AreaScopeofMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPN-AreaScopeofMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

PNI-NPNBasedMDT::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPNBasedMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPNBasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- Q

QMCConfigInfo ::= SEQUENCE {

uEAppLayerMeasInfoList UEAppLayerMeasInfoList,

iE-Extensions ProtocolExtensionContainer { { QMCConfigInfo-ExtIEs} } OPTIONAL,

...

}

QMCConfigInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QMCDeactivation ::= SEQUENCE {

qoEReferenceList QoEReferenceList,

iE-Extensions ProtocolExtensionContainer { { QMCDeactivation-ExtIEs} } OPTIONAL,

...

}

QMCDeactivation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QoEReferenceList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF QoEReference

QoEReference ::= OCTET STRING (SIZE(6))

QoERVQoEReportingPaths ::= SEQUENCE {

qoEReportingPath ENUMERATED{srb4, srb5, ...} OPTIONAL,

rVQoEReportingPath ENUMERATED{srb4, srb5, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoERVQoEReportingPaths-ExtIEs} } OPTIONAL,

...

}

QoERVQoEReportingPaths-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosCharacteristics ::= CHOICE {

nonDynamic5QI NonDynamic5QIDescriptor,

dynamic5QI Dynamic5QIDescriptor,

choice-Extensions ProtocolIE-SingleContainer { {QosCharacteristics-ExtIEs} }

}

QosCharacteristics-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

QosFlowAcceptedList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowAcceptedItem

QosFlowAcceptedItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { {QosFlowAcceptedItem-ExtIEs} } OPTIONAL,

...

}

QosFlowAcceptedItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION AlternativeQoSParaSetIndex PRESENCE optional },

...

}

QosFlowAdditionalInfoListRelCom ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowAdditionalInfoItemRelCom

QosFlowAdditionalInfoItemRelCom ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

downlinkTLContainer TLContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowAdditionalInfoItemRelCom-ExtIEs} } OPTIONAL,

...

}

QosFlowAdditionalInfoItemRelCom-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowAdditionalInfoListRelRes ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowAdditionalInfoItemRelRes

QosFlowAdditionalInfoItemRelRes ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

uplinkTLContainer TLContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowAdditionalInfoItemRelRes-ExtIEs} } OPTIONAL,

...

}

QosFlowAdditionalInfoItemRelRes-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowAddOrModifyRequestList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowAddOrModifyRequestItem

QosFlowAddOrModifyRequestItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

qosFlowLevelQosParameters QosFlowLevelQosParameters OPTIONAL,

e-RAB-ID E-RAB-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowAddOrModifyRequestItem-ExtIEs} } OPTIONAL,

...

}

QosFlowAddOrModifyRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-TSCTrafficCharacteristics CRITICALITY ignore EXTENSION TSCTrafficCharacteristics PRESENCE optional }|

{ID id-RedundantQosFlowIndicator CRITICALITY ignore EXTENSION RedundantQosFlowIndicator PRESENCE optional }|

{ID id-UL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ID id-DownlinkTLContainer CRITICALITY ignore EXTENSION TLContainer PRESENCE optional }|

{ID id-ECNMarkingorCongestionInformationReportingRequest CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingRequest PRESENCE optional },

...

}

QosFlowAddOrModifyResponseList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowAddOrModifyResponseItem

QosFlowAddOrModifyResponseItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { {QosFlowAddOrModifyResponseItem-ExtIEs} } OPTIONAL,

...

}

QosFlowAddOrModifyResponseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION AlternativeQoSParaSetIndex PRESENCE optional }|

{ ID id-TSCTrafficCharacteristicsFeedback CRITICALITY ignore EXTENSION TSCTrafficCharacteristicsFeedback PRESENCE optional }|

{ ID id-UplinkTLContainer CRITICALITY ignore EXTENSION TLContainer PRESENCE optional }|

{ ID id-DL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-ANPacketDelayBudgetUL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional },

...

}

QosFlowFeedbackList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowFeedbackItem

QosFlowFeedbackItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

updateFeedback UpdateFeedback OPTIONAL,

cNpacketDelayBudgetDL ExtendedPacketDelayBudget OPTIONAL,

cNpacketDelayBudgetUL ExtendedPacketDelayBudget OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowFeedbackItem-ExtIEs} } OPTIONAL,

...

}

QosFlowFeedbackItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowIdentifier ::= INTEGER (0..63, ...)

QosFlowInformationList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowInformationItem

QosFlowInformationItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

dLForwarding DLForwarding OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowInformationItem-ExtIEs} } OPTIONAL,

...

}

QosFlowInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-ULForwarding CRITICALITY ignore EXTENSION ULForwarding PRESENCE optional}|

{ID id-SourceTNLAddrInfo CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional}|

{ID id-SourceNodeTNLAddrInfo CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional},

...

}

QosFlowLevelQosParameters ::= SEQUENCE {

qosCharacteristics QosCharacteristics,

allocationAndRetentionPriority AllocationAndRetentionPriority,

gBR-QosInformation GBR-QosInformation OPTIONAL,

reflectiveQosAttribute ReflectiveQosAttribute OPTIONAL,

additionalQosFlowInformation AdditionalQosFlowInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowLevelQosParameters-ExtIEs} } OPTIONAL,

...

}

QosFlowLevelQosParameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-QosMonitoringRequest CRITICALITY ignore EXTENSION QosMonitoringRequest PRESENCE optional}|

{ID id-QosMonitoringReportingFrequency CRITICALITY ignore EXTENSION QosMonitoringReportingFrequency PRESENCE optional}|

{ID id-PDUsetQoSParameters CRITICALITY ignore EXTENSION PDUsetQoSParameters PRESENCE optional},

...

}

QosMonitoringRequest ::= ENUMERATED {ul, dl, both, ..., stop}

QosMonitoringReportingFrequency ::= INTEGER (1..1800, ...)

QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowIdentifier

QosFlowListWithCause ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowWithCauseItem

QosFlowWithCauseItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

cause Cause,

iE-Extensions ProtocolExtensionContainer { {QosFlowWithCauseItem-ExtIEs} } OPTIONAL,

...

}

QosFlowWithCauseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowModifyConfirmList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowModifyConfirmItem

QosFlowModifyConfirmItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { {QosFlowModifyConfirmItem-ExtIEs} } OPTIONAL,

...

}

QosFlowModifyConfirmItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowNotifyList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowNotifyItem

QosFlowNotifyItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

notificationCause NotificationCause,

iE-Extensions ProtocolExtensionContainer { {QosFlowNotifyItem-ExtIEs} } OPTIONAL,

...

}

QosFlowNotifyItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION AlternativeQoSParaSetNotifyIndex PRESENCE optional }|

{ ID id-TSCTrafficCharacteristicsFeedback CRITICALITY ignore EXTENSION TSCTrafficCharacteristicsFeedback PRESENCE optional },

...

}

QosFlowParametersList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowParametersItem

QosFlowParametersItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

alternativeQoSParaSetList AlternativeQoSParaSetList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowParametersItem-ExtIEs} } OPTIONAL,

...

}

QosFlowParametersItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CNPacketDelayBudgetDL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-CNPacketDelayBudgetUL CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional }|

{ ID id-BurstArrivalTimeDownlink CRITICALITY ignore EXTENSION BurstArrivalTime PRESENCE optional },

...

}

QosFlowPerTNLInformation ::= SEQUENCE {

uPTransportLayerInformation UPTransportLayerInformation,

associatedQosFlowList AssociatedQosFlowList,

iE-Extensions ProtocolExtensionContainer { { QosFlowPerTNLInformation-ExtIEs} } OPTIONAL,

...

}

QosFlowPerTNLInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowPerTNLInformationList ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF QosFlowPerTNLInformationItem

QosFlowPerTNLInformationItem ::= SEQUENCE {

qosFlowPerTNLInformation QosFlowPerTNLInformation,

iE-Extensions ProtocolExtensionContainer { { QosFlowPerTNLInformationItem-ExtIEs} } OPTIONAL,

...

}

QosFlowPerTNLInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QosFlowSetupRequestList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowSetupRequestItem

QosFlowSetupRequestItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

qosFlowLevelQosParameters QosFlowLevelQosParameters,

e-RAB-ID E-RAB-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowSetupRequestItem-ExtIEs} } OPTIONAL,

...

}

QosFlowSetupRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-TSCTrafficCharacteristics CRITICALITY ignore EXTENSION TSCTrafficCharacteristics PRESENCE optional }|

{ID id-RedundantQosFlowIndicator CRITICALITY ignore EXTENSION RedundantQosFlowIndicator PRESENCE optional }|

{ID id-ECNMarkingorCongestionInformationReportingRequest CRITICALITY ignore EXTENSION ECNMarkingorCongestionInformationReportingRequest PRESENCE optional },

...

}

QosFlowListWithDataForwarding ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowItemWithDataForwarding

QosFlowItemWithDataForwarding ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

dataForwardingAccepted DataForwardingAccepted OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QosFlowItemWithDataForwarding-ExtIEs} } OPTIONAL,

...

}

QosFlowItemWithDataForwarding-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION AlternativeQoSParaSetIndex PRESENCE optional },

...

}

QosFlowToBeForwardedList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QosFlowToBeForwardedItem

QosFlowToBeForwardedItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { {QosFlowToBeForwardedItem-ExtIEs} } OPTIONAL,

...

}

QosFlowToBeForwardedItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QoSFlowTSCList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QoSFlowTSCItem

QoSFlowTSCItem ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

tSCTrafficCharacteristicsFeedback TSCTrafficCharacteristicsFeedback OPTIONAL,

aNPacketDelayBudgetUL ExtendedPacketDelayBudget OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowTSCItem-ExtIEs} } OPTIONAL,

...

}

QoSFlowTSCItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

QoSFlowsUsageReportList ::= SEQUENCE (SIZE(1..maxnoofQosFlows)) OF QoSFlowsUsageReport-Item

QoSFlowsUsageReport-Item ::= SEQUENCE {

qosFlowIdentifier QosFlowIdentifier,

rATType ENUMERATED {nr, eutra, ..., nr-unlicensed, e-utra-unlicensed},

qoSFlowsTimedReportList VolumeTimedReportList,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsUsageReport-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsUsageReport-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- R

RANfeedbacktype ::= CHOICE {

proactive RANfeedbacktype-proactive,

reactive RANfeedbacktype-reactive,

choice-extensions ProtocolIE-SingleContainer { {RANfeedbacktype-ExtIEs} }

}

RANfeedbacktype-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

RANfeedbacktype-proactive ::= SEQUENCE {

burstArrivalTimeWindow BurstArrivalTimeWindow,

periodicityRange PeriodicityRange OPTIONAL,

iE-Extension ProtocolExtensionContainer { {RANfeedbacktype-proactive-ExtIEs} } OPTIONAL,

...

}

RANfeedbacktype-proactive-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RANfeedbacktype-reactive ::= SEQUENCE {

capabilityForBATAdaptation ENUMERATED {true, ...},

iE-Extension ProtocolExtensionContainer { {RANfeedbacktype-reactive-ExtIEs} } OPTIONAL,

...

}

RANfeedbacktype-reactive-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

Range ::= ENUMERATED {m50, m80, m180, m200, m350, m400, m500, m700, m1000, ...}

RANNodeName ::= PrintableString (SIZE(1..150, ...))

RANNodeNameVisibleString ::= VisibleString (SIZE(1..150, ...))

RANNodeNameUTF8String ::= UTF8String (SIZE(1..150, ...))

RANPagingPriority ::= INTEGER (1..256)

RANStatusTransfer-TransparentContainer ::= SEQUENCE {

dRBsSubjectToStatusTransferList DRBsSubjectToStatusTransferList,

iE-Extensions ProtocolExtensionContainer { {RANStatusTransfer-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

RANStatusTransfer-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RANTimingSynchronisationStatusInfo ::= SEQUENCE {

synchronisationState ENUMERATED {locked, holdover, freerun, ...} OPTIONAL,

traceabletoUTC ENUMERATED {true, false, ...} OPTIONAL,

traceabletoGNSS ENUMERATED {true, false, ...} OPTIONAL,

clockFrequencyStability BIT STRING (SIZE(16)) OPTIONAL,

clockAccuracy ClockAccuracy OPTIONAL,

parentTImeSource ParentTImeSource OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RANTimingSynchronisationStatusInfo-ExtIEs} } OPTIONAL,

...

}

RANTimingSynchronisationStatusInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RAN-TSSRequestType ::= ENUMERATED {start, stop, ...}

RAN-TSSScope ::= CHOICE {

rANNodeLevel GlobalGNB-ID,

cellListLevel RANTSSCellList,

choice-Extensions ProtocolIE-SingleContainer { { RAN-TSSScope-ExtIEs} }

}

RAN-TSSScope-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

RANTSSCellList ::= SEQUENCE (SIZE(1..maxnoofCellsTSS)) OF RANTSSCellItem

RANTSSCellItem ::= SEQUENCE {

nRCGI NR-CGI,

iE-Extensions ProtocolExtensionContainer { {RANTSSCellItem-ExtIEs} } OPTIONAL,

...

}

RANTSSCellItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RAN-UE-NGAP-ID ::= INTEGER (0..4294967295)

RAT-Information ::= ENUMERATED {

unlicensed,

nb-IoT,

...,

nR-LEO,

nR-MEO,

nR-GEO,

nR-OTHERSAT

}

RATRestrictions ::= SEQUENCE (SIZE(1..maxnoofEPLMNsPlusOne)) OF RATRestrictions-Item

RATRestrictions-Item ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

rATRestrictionInformation RATRestrictionInformation,

iE-Extensions ProtocolExtensionContainer { {RATRestrictions-Item-ExtIEs} } OPTIONAL,

...

}

RATRestrictions-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-ExtendedRATRestrictionInformation CRITICALITY ignore EXTENSION ExtendedRATRestrictionInformation PRESENCE optional },

...

}

RATRestrictionInformation ::= BIT STRING (SIZE(8, ...))

RecommendedCellsForPaging ::= SEQUENCE {

recommendedCellList RecommendedCellList,

iE-Extensions ProtocolExtensionContainer { {RecommendedCellsForPaging-ExtIEs} } OPTIONAL,

...

}

RecommendedCellsForPaging-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RecommendedCellList ::= SEQUENCE (SIZE(1..maxnoofRecommendedCells)) OF RecommendedCellItem

RecommendedCellItem ::= SEQUENCE {

nGRAN-CGI NGRAN-CGI,

timeStayedInCell INTEGER (0..4095) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RecommendedCellItem-ExtIEs} } OPTIONAL,

...

}

RecommendedCellItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RecommendedRANNodesForPaging ::= SEQUENCE {

recommendedRANNodeList RecommendedRANNodeList,

iE-Extensions ProtocolExtensionContainer { {RecommendedRANNodesForPaging-ExtIEs} } OPTIONAL,

...

}

RecommendedRANNodesForPaging-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RecommendedRANNodeList::= SEQUENCE (SIZE(1..maxnoofRecommendedRANNodes)) OF RecommendedRANNodeItem

RecommendedRANNodeItem ::= SEQUENCE {

aMFPagingTarget AMFPagingTarget,

iE-Extensions ProtocolExtensionContainer { {RecommendedRANNodeItem-ExtIEs} } OPTIONAL,

...

}

RecommendedRANNodeItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RedCapIndication ::= ENUMERATED {

redcap,

...

}

RedirectionVoiceFallback ::= ENUMERATED {

possible,

not-possible,

...

}

RedundantPDUSessionInformation ::= SEQUENCE {

rSN RSN,

iE-Extensions ProtocolExtensionContainer { {RedundantPDUSessionInformation-ExtIEs} } OPTIONAL,

...

}

RedundantPDUSessionInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PDUSessionPairID CRITICALITY ignore EXTENSION PDUSessionPairID PRESENCE optional },

...

}

RedundantQosFlowIndicator ::= ENUMERATED {true, false}

ReflectiveQosAttribute ::= ENUMERATED {

subject-to,

...

}

RelativeAMFCapacity ::= INTEGER (0..255)

ReportArea ::= ENUMERATED {

cell,

...

}

RepetitionPeriod ::= INTEGER (0..131071)

ResetAll ::= ENUMERATED {

reset-all,

...

}

ReportAmountMDT ::= ENUMERATED {

r1, r2, r4, r8, r16, r32, r64, rinfinity

}

ReportIntervalMDT ::= ENUMERATED {

ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, min1, min6, min12, min30, min60

}

ExtendedReportIntervalMDT ::= ENUMERATED {

ms20480, ms40960, ...

}

ResetType ::= CHOICE {

nG-Interface ResetAll,

partOfNG-Interface UE-associatedLogicalNG-connectionList,

choice-Extensions ProtocolIE-SingleContainer { {ResetType-ExtIEs} }

}

ResetType-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

RGLevelWirelineAccessCharacteristics ::= OCTET STRING

RNC-ID ::= INTEGER (0..4095)

RoutingID ::= OCTET STRING

RRCContainer ::= OCTET STRING

RRCEstablishmentCause ::= ENUMERATED {

emergency,

highPriorityAccess,

mt-Access,

mo-Signalling,

mo-Data,

mo-VoiceCall,

mo-VideoCall,

mo-SMS,

mps-PriorityAccess,

mcs-PriorityAccess,

...,

notAvailable,

mo-ExceptionData

}

RRCInactiveTransitionReportRequest ::= ENUMERATED {

subsequent-state-transition-report,

single-rrc-connected-state-report,

cancel-report,

...

}

RRCState ::= ENUMERATED {

inactive,

connected,

...

}

RSN ::= ENUMERATED {v1, v2, ...}

RIMInformationTransfer ::= SEQUENCE {

targetRANNodeID-RIM TargetRANNodeID-RIM,

sourceRANNodeID SourceRANNodeID,

rIMInformation RIMInformation,

iE-Extensions ProtocolExtensionContainer { {RIMInformationTransfer-ExtIEs} } OPTIONAL,

...

}

RIMInformationTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RIMInformation ::= SEQUENCE {

targetgNBSetID GNBSetID,

rIM-RSDetection ENUMERATED {rs-detected, rs-disappeared, ...},

iE-Extensions ProtocolExtensionContainer { {RIMInformation-ExtIEs} } OPTIONAL,

...

}

RIMInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

GNBSetID ::= BIT STRING (SIZE(22))

RSPPQoSFlowList ::= SEQUENCE (SIZE(1..maxnoofRSPPQoSFlows)) OF RSPPQoSFlowItem

RSPPQoSFlowItem ::= SEQUENCE {

pQI FiveQI,

rSPPFlowBitRates RSPPFlowBitRates OPTIONAL,

range Range OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RSPPQoSFlowItem-ExtIEs} } OPTIONAL,

...

}

RSPPQoSFlowItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

RSPPFlowBitRates ::= SEQUENCE {

guaranteedFlowBitRate BitRate,

maximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { RSPPFlowBitRates-ExtIEs} } OPTIONAL,

...

}

RSPPFlowBitRates-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- S

ScheduledCommunicationTime ::= SEQUENCE {

dayofWeek BIT STRING (SIZE(7)) OPTIONAL,

timeofDayStart INTEGER (0..86399, ...) OPTIONAL,

timeofDayEnd INTEGER (0..86399, ...) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ScheduledCommunicationTime-ExtIEs}} OPTIONAL,

...

}

ScheduledCommunicationTime-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SCTP-TLAs ::= SEQUENCE (SIZE(1..maxnoofXnTLAs)) OF TransportLayerAddress

SD ::= OCTET STRING (SIZE(3))

SecondaryRATUsageInformation ::= SEQUENCE {

pDUSessionUsageReport PDUSessionUsageReport OPTIONAL,

qosFlowsUsageReportList QoSFlowsUsageReportList OPTIONAL,

iE-Extension ProtocolExtensionContainer { {SecondaryRATUsageInformation-ExtIEs} } OPTIONAL,

...

}

SecondaryRATUsageInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SecondaryRATDataUsageReportTransfer ::= SEQUENCE {

secondaryRATUsageInformation SecondaryRATUsageInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SecondaryRATDataUsageReportTransfer-ExtIEs} } OPTIONAL,

...

}

SecondaryRATDataUsageReportTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SecurityContext ::= SEQUENCE {

nextHopChainingCount NextHopChainingCount,

nextHopNH SecurityKey,

iE-Extensions ProtocolExtensionContainer { {SecurityContext-ExtIEs} } OPTIONAL,

...

}

SecurityContext-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SecurityIndication ::= SEQUENCE {

integrityProtectionIndication IntegrityProtectionIndication,

confidentialityProtectionIndication ConfidentialityProtectionIndication,

maximumIntegrityProtectedDataRate-UL MaximumIntegrityProtectedDataRate OPTIONAL,

-- The above IE shall be present if the Integrity Protection Indication IE is set to the value “required” or “preferred”

iE-Extensions ProtocolExtensionContainer { {SecurityIndication-ExtIEs} } OPTIONAL,

...

}

SecurityIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MaximumIntegrityProtectedDataRate-DL CRITICALITY ignore EXTENSION MaximumIntegrityProtectedDataRate PRESENCE optional },

...

}

SecurityKey ::= BIT STRING (SIZE(256))

SecurityResult ::= SEQUENCE {

integrityProtectionResult IntegrityProtectionResult,

confidentialityProtectionResult ConfidentialityProtectionResult,

iE-Extensions ProtocolExtensionContainer { {SecurityResult-ExtIEs} } OPTIONAL,

...

}

SecurityResult-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SensorMeasurementConfiguration ::= SEQUENCE {

sensorMeasConfig SensorMeasConfig,

sensorMeasConfigNameList SensorMeasConfigNameList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SensorMeasurementConfiguration-ExtIEs} } OPTIONAL,

...

}

SensorMeasurementConfiguration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SensorMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofSensorName)) OF SensorMeasConfigNameItem

SensorMeasConfigNameItem ::= SEQUENCE {

sensorNameConfig SensorNameConfig,

iE-Extensions ProtocolExtensionContainer { { SensorMeasConfigNameItem-ExtIEs } } OPTIONAL,

...

}

SensorMeasConfigNameItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SensorMeasConfig::= ENUMERATED {setup,...}

SensorNameConfig ::= CHOICE {

uncompensatedBarometricConfig ENUMERATED {true, ...},

ueSpeedConfig ENUMERATED {true, ...},

ueOrientationConfig ENUMERATED {true, ...},

choice-Extensions ProtocolIE-SingleContainer { {SensorNameConfig-ExtIEs} }

}

SensorNameConfig-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

SerialNumber ::= BIT STRING (SIZE(16))

ServedGUAMIList ::= SEQUENCE (SIZE(1..maxnoofServedGUAMIs)) OF ServedGUAMIItem

ServedGUAMIItem ::= SEQUENCE {

gUAMI GUAMI,

backupAMFName AMFName OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedGUAMIItem-ExtIEs} } OPTIONAL,

...

}

ServedGUAMIItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-GUAMIType CRITICALITY ignore EXTENSION GUAMIType PRESENCE optional }|

{ID id-ExtendedBackupAMFName CRITICALITY ignore EXTENSION Extended-AMFName PRESENCE optional},

...

}

ServiceAreaInformation ::= SEQUENCE (SIZE(1.. maxnoofEPLMNsPlusOne)) OF ServiceAreaInformation-Item

ServiceAreaInformation-Item ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

allowedTACs AllowedTACs OPTIONAL,

notAllowedTACs NotAllowedTACs OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServiceAreaInformation-Item-ExtIEs} } OPTIONAL,

...

}

ServiceAreaInformation-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

ServiceType ::= ENUMERATED {streaming, mTSI, vR, ...}

SgNB-UE-X2AP-ID ::= INTEGER (0..4294967295)

SharedNGU-MulticastTNLInformation ::= SEQUENCE {

iP-MulticastAddress TransportLayerAddress,

iP-SourceAddress TransportLayerAddress,

gTP-TEID GTP-TEID,

iE-Extensions ProtocolExtensionContainer { {SharedNGU-MulticastTNLInformation-ExtIEs} } OPTIONAL,

...

}

SharedNGU-MulticastTNLInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SliceOverloadList ::= SEQUENCE (SIZE(1..maxnoofSliceItems)) OF SliceOverloadItem

SliceOverloadItem ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {SliceOverloadItem-ExtIEs} } OPTIONAL,

...

}

SliceOverloadItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SliceSupportList ::= SEQUENCE (SIZE(1..maxnoofSliceItems)) OF SliceSupportItem

SliceSupportItem ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {SliceSupportItem-ExtIEs} } OPTIONAL,

...

}

SliceSupportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SliceSupportListQMC ::= SEQUENCE (SIZE(1..maxnoofSNSSAIforQMC)) OF SliceSupportQMC-Item

SliceSupportQMC-Item ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {SliceSupportQMC-Item-ExtIEs} } OPTIONAL,

...

}

SliceSupportQMC-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-MobilityInformation ::= SEQUENCE {

serving-NID NID,

iE-Extensions ProtocolExtensionContainer { {SNPN-MobilityInformation-ExtIEs} } OPTIONAL,

...

}

SNPN-MobilityInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-EquivalentSNPNsList CRITICALITY reject EXTENSION EquivalentSNPNsList PRESENCE optional},

...

}

S-NSSAI ::= SEQUENCE {

sST SST,

sD SD OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { S-NSSAI-ExtIEs} } OPTIONAL,

...

}

S-NSSAI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SONConfigurationTransfer ::= SEQUENCE {

targetRANNodeID-SON TargetRANNodeID-SON,

sourceRANNodeID SourceRANNodeID,

sONInformation SONInformation,

xnTNLConfigurationInfo XnTNLConfigurationInfo OPTIONAL,

-- The above IE shall be present if the SON Information IE contains the SON Information Request IE set to the value “Xn TNL Configuration Info”

iE-Extensions ProtocolExtensionContainer { {SONConfigurationTransfer-ExtIEs} } OPTIONAL,

...

}

SONConfigurationTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SONInformation ::= CHOICE {

sONInformationRequest SONInformationRequest,

sONInformationReply SONInformationReply,

choice-Extensions ProtocolIE-SingleContainer { {SONInformation-ExtIEs} }

}

SONInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-SONInformationReport CRITICALITY ignore TYPE SONInformationReport PRESENCE mandatory },

...

}

SONInformationReply ::= SEQUENCE {

xnTNLConfigurationInfo XnTNLConfigurationInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SONInformationReply-ExtIEs} } OPTIONAL,

...

}

SONInformationReply-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SONInformationReport::= CHOICE {

failureIndicationInformation FailureIndication,

hOReportInformation HOReport,

choice-Extensions ProtocolIE-SingleContainer { { SONInformationReport-ExtIEs} }

}

SONInformationReport-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-SuccessfulHandoverReportList CRITICALITY ignore TYPE SuccessfulHandoverReportList PRESENCE mandatory }|

{ ID id-SuccessfulPSCellChangeReportList CRITICALITY ignore TYPE SuccessfulPSCellChangeReportList PRESENCE mandatory },

...

}

SNPN-CellBasedMDT::= SEQUENCE {

sNPNcellIdListforMDT SNPNCellIdListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-CellBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-CellBasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPNCellIdListforMDT ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF SNPNCellIdListforMDTItem

SNPNCellIdListforMDTItem ::= SEQUENCE {

nR-CGI NR-CGI,

nID NID,

iE-Extensions ProtocolExtensionContainer {{ SNPNCellIdListforMDTItem-ExtIEs}} OPTIONAL,

...

}

SNPNCellIdListforMDTItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-TAIBasedMDT::= SEQUENCE {

sNPNTAIListforMDT SNPNTAIListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-TAIBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-TAIBasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPNTAIListforMDT ::= SEQUENCE (SIZE(1.. maxnoofTAforMDT)) OF SNPNTAIListforMDTItem

SNPNTAIListforMDTItem ::= SEQUENCE {

tAI TAI,

nID NID,

iE-Extensions ProtocolExtensionContainer {{ SNPNTAIListforMDTItem-ExtIEs}} OPTIONAL,

...

}

SNPNTAIListforMDTItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-BasedMDT::= SEQUENCE {

sNPNListforMDT SNPNListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-BasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-BasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SNPNListforMDT ::= SEQUENCE (SIZE(1.. maxnoofMDTSNPNs)) OF SNPNListforMDTItem

SNPNListforMDTItem ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

nID NID,

iE-Extensions ProtocolExtensionContainer {{ SNPNListforMDTItem-ExtIEs}} OPTIONAL,

...

}

SNPNListforMDTItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- --------------------------------------------------------------------

-- SON Information Report

-- --------------------------------------------------------------------

SuccessfulHandoverReportList ::= SEQUENCE (SIZE(1..maxnoofSuccessfulHOReports)) OF SuccessfulHandoverReport-Item

SuccessfulHandoverReport-Item ::= SEQUENCE {

successfulHOReportContainer OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { SuccessfulHandoverReport-Item-ExtIEs} } OPTIONAL,

...

}

SuccessfulHandoverReport-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SuccessfulPSCellChangeReportList ::= SEQUENCE (SIZE(1..maxnoofSuccessfulPSCellChangeReports)) OF SuccessfulPSCellChangeReport-Item

SuccessfulPSCellChangeReport-Item ::= SEQUENCE {

successfulPSCellChangeReportContainer OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { SuccessfulPSCellChangeReport-Item-ExtIEs} } OPTIONAL,

...

}

SuccessfulPSCellChangeReport-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SONInformationRequest ::= ENUMERATED {

xn-TNL-configuration-info,

...

}

SourceNGRANNode-ToTargetNGRANNode-TransparentContainer ::= SEQUENCE {

rRCContainer RRCContainer,

pDUSessionResourceInformationList PDUSessionResourceInformationList OPTIONAL,

e-RABInformationList E-RABInformationList OPTIONAL,

targetCell-ID NGRAN-CGI,

indexToRFSP IndexToRFSP OPTIONAL,

uEHistoryInformation UEHistoryInformation,

iE-Extensions ProtocolExtensionContainer { {SourceNGRANNode-ToTargetNGRANNode-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

SourceNGRANNode-ToTargetNGRANNode-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SgNB-UE-X2AP-ID CRITICALITY ignore EXTENSION SgNB-UE-X2AP-ID PRESENCE optional }|

{ ID id-UEHistoryInformationFromTheUE CRITICALITY ignore EXTENSION UEHistoryInformationFromTheUE PRESENCE optional }|

{ ID id-SourceNodeID CRITICALITY ignore EXTENSION SourceNodeID PRESENCE optional }|

{ ID id-UEContextReferenceAtSource CRITICALITY ignore EXTENSION RAN-UE-NGAP-ID PRESENCE optional }|

{ ID id-MBS-ActiveSessionInformation-SourcetoTargetList CRITICALITY ignore EXTENSION MBS-ActiveSessionInformation-SourcetoTargetList PRESENCE optional }|

{ ID id-QMCConfigInfo CRITICALITY ignore EXTENSION QMCConfigInfo PRESENCE optional }|

{ ID id-NGAPIESupportInformationRequestList CRITICALITY ignore EXTENSION NGAPIESupportInformationRequestList PRESENCE optional }|

{ ID id-CandidateRelayUEInformationList CRITICALITY reject EXTENSION CandidateRelayUEInformationList PRESENCE optional }|

{ ID id-TimeBasedHandoverInformation CRITICALITY ignore EXTENSION TimeBasedHandoverInformation PRESENCE optional }|

{ ID id-SourceSN-to-TargetSN-QMCInfo CRITICALITY ignore EXTENSION QMCConfigInfo PRESENCE optional },

...

}

SourceNodeID ::= CHOICE {

sourceengNB-ID GlobalGNB-ID,

choice-Extensions ProtocolIE-SingleContainer { { SourceNodeID-ExtIEs} }

}

SourceNodeID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

SourceOfUEActivityBehaviourInformation ::= ENUMERATED {

subscription-information,

statistics,

...

}

SourceRANNodeID ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

selectedTAI TAI,

iE-Extensions ProtocolExtensionContainer { {SourceRANNodeID-ExtIEs} } OPTIONAL,

...

}

SourceRANNodeID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SourceToTarget-TransparentContainer ::= OCTET STRING

-- This IE includes a transparent container from the source RAN node to the target RAN node.

-- The octets of the OCTET STRING are encoded according to the specifications of the target system.

SourceToTarget-AMFInformationReroute ::= SEQUENCE {

configuredNSSAI ConfiguredNSSAI OPTIONAL,

rejectedNSSAIinPLMN RejectedNSSAIinPLMN OPTIONAL,

rejectedNSSAIinTA RejectedNSSAIinTA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SourceToTarget-AMFInformationReroute-ExtIEs} } OPTIONAL,

...

}

SourceToTarget-AMFInformationReroute-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- This IE includes information from the source Core node to the target Core node for reroute information provide by NSSF.

-- The octets of the OCTET STRING are encoded according to the specifications of the Core network.

SRVCCOperationPossible ::= ENUMERATED {

possible,

notPossible,

...

}

ConfiguredNSSAI ::= OCTET STRING (SIZE(128))

RejectedNSSAIinPLMN ::= OCTET STRING (SIZE(32))

RejectedNSSAIinTA ::= OCTET STRING (SIZE(32))

SST ::= OCTET STRING (SIZE(1))

SupportedTAList ::= SEQUENCE (SIZE(1..maxnoofTACs)) OF SupportedTAItem

SupportedTAItem ::= SEQUENCE {

tAC TAC,

broadcastPLMNList BroadcastPLMNList,

iE-Extensions ProtocolExtensionContainer { {SupportedTAItem-ExtIEs} } OPTIONAL,

...

}

SupportedTAItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-ConfiguredTACIndication CRITICALITY ignore EXTENSION ConfiguredTACIndication PRESENCE optional }|

{ID id-RAT-Information CRITICALITY reject EXTENSION RAT-Information PRESENCE optional },

...

}

SuspendIndicator ::= ENUMERATED {

true,

...

}

Suspend-Request-Indication ::= ENUMERATED {

suspend-requested,

...

}

Suspend-Response-Indication ::= ENUMERATED {

suspend-indicated,

...

}

SurvivalTime ::= INTEGER (0..1920000, ...)

SLPositioningRangingServiceInfo ::= SEQUENCE{

sLPositioningRangingAuthorized SLPositioningRangingAuthorized,

sLPositioningRangingQoSParameters SLPositioningRangingQoSParameters OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SLPositioningRangingServiceInfo-ExtIEs} } OPTIONAL,

...

}

SLPositioningRangingServiceInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SLPositioningRangingAuthorized ::= ENUMERATED {

authorized,

not-authorized,

...

}

SLPositioningRangingQoSParameters ::= SEQUENCE {

rSPPQoSFlowList RSPPQoSFlowList,

rSPPLinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SLPositioningRangingQoSParameters-ExtIEs} } OPTIONAL,

...

}

SLPositioningRangingQoSParameters-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- T

TAC ::= OCTET STRING (SIZE(3))

TACListInNRNTN ::= SEQUENCE (SIZE(1..maxnoofTACsinNTN)) OF TAC

TAI ::= SEQUENCE {

pLMNIdentity PLMNIdentity,

tAC TAC,

iE-Extensions ProtocolExtensionContainer { {TAI-ExtIEs} } OPTIONAL,

...

}

TAI-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIBroadcastEUTRA ::= SEQUENCE (SIZE(1..maxnoofTAIforWarning)) OF TAIBroadcastEUTRA-Item

TAIBroadcastEUTRA-Item ::= SEQUENCE {

tAI TAI,

completedCellsInTAI-EUTRA CompletedCellsInTAI-EUTRA,

iE-Extensions ProtocolExtensionContainer { {TAIBroadcastEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

TAIBroadcastEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIBroadcastNR ::= SEQUENCE (SIZE(1..maxnoofTAIforWarning)) OF TAIBroadcastNR-Item

TAIBroadcastNR-Item ::= SEQUENCE {

tAI TAI,

completedCellsInTAI-NR CompletedCellsInTAI-NR,

iE-Extensions ProtocolExtensionContainer { {TAIBroadcastNR-Item-ExtIEs} } OPTIONAL,

...

}

TAIBroadcastNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAICancelledEUTRA ::= SEQUENCE (SIZE(1..maxnoofTAIforWarning)) OF TAICancelledEUTRA-Item

TAICancelledEUTRA-Item ::= SEQUENCE {

tAI TAI,

cancelledCellsInTAI-EUTRA CancelledCellsInTAI-EUTRA,

iE-Extensions ProtocolExtensionContainer { {TAICancelledEUTRA-Item-ExtIEs} } OPTIONAL,

...

}

TAICancelledEUTRA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAICancelledNR ::= SEQUENCE (SIZE(1..maxnoofTAIforWarning)) OF TAICancelledNR-Item

TAICancelledNR-Item ::= SEQUENCE {

tAI TAI,

cancelledCellsInTAI-NR CancelledCellsInTAI-NR,

iE-Extensions ProtocolExtensionContainer { {TAICancelledNR-Item-ExtIEs} } OPTIONAL,

...

}

TAICancelledNR-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListForInactive ::= SEQUENCE (SIZE(1..maxnoofTAIforInactive)) OF TAIListForInactiveItem

TAIListForInactiveItem ::= SEQUENCE {

tAI TAI,

iE-Extensions ProtocolExtensionContainer { {TAIListForInactiveItem-ExtIEs} } OPTIONAL,

...

}

TAIListForInactiveItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListForPaging ::= SEQUENCE (SIZE(1..maxnoofTAIforPaging)) OF TAIListForPagingItem

TAIListForPagingItem ::= SEQUENCE {

tAI TAI,

iE-Extensions ProtocolExtensionContainer { {TAIListForPagingItem-ExtIEs} } OPTIONAL,

...

}

TAIListForPagingItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListForRestart ::= SEQUENCE (SIZE(1..maxnoofTAIforRestart)) OF TAI

TAIListForWarning ::= SEQUENCE (SIZE(1..maxnoofTAIforWarning)) OF TAI

TAINSAGSupportList ::= SEQUENCE (SIZE(1..maxnoofNSAGs)) OF TAINSAGSupportItem

TAINSAGSupportItem ::= SEQUENCE {

nSAG-ID NSAG-ID,

nSAGSliceSupportList ExtendedSliceSupportList,

iE-Extensions ProtocolExtensionContainer { {TAINSAGSupportItem-ExtIEs} } OPTIONAL,

...

}

TAINSAGSupportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIMBSSupportItem ::= SEQUENCE {

tAI TAI,

iE-Extensions ProtocolExtensionContainer { {TAIMBSSupportItem-ExtIEs} } OPTIONAL,

...

}

TAIMBSSupportItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIMBSSupportList ::= SEQUENCE (SIZE(1..maxnoofSupportedTAIforMBS)) OF TAIMBSSupportItem

TargeteNB-ID ::= SEQUENCE {

globalENB-ID GlobalNgENB-ID,

selected-EPS-TAI EPS-TAI,

iE-Extensions ProtocolExtensionContainer { {TargeteNB-ID-ExtIEs} } OPTIONAL,

...

}

TargeteNB-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetHomeENB-ID ::= SEQUENCE {

pLMNidentity PLMNIdentity,

homeENB-ID BIT STRING (SIZE(28)),

selected-EPS-TAI EPS-TAI,

iE-Extensions ProtocolExtensionContainer { {TargetHomeENB-ID-ExtIEs} } OPTIONAL,

...

}

TargetHomeENB-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetID ::= CHOICE {

targetRANNodeID TargetRANNodeID,

targeteNB-ID TargeteNB-ID,

choice-Extensions ProtocolIE-SingleContainer { {TargetID-ExtIEs} }

}

TargetID-ExtIEs NGAP-PROTOCOL-IES ::= {

{ID id-TargetRNC-ID CRITICALITY reject TYPE TargetRNC-ID PRESENCE mandatory }|

{ID id-TargetHomeENB-ID CRITICALITY reject TYPE TargetHomeENB-ID PRESENCE mandatory },

...

}

TargetNGRANNode-ToSourceNGRANNode-TransparentContainer ::= SEQUENCE {

rRCContainer RRCContainer,

iE-Extensions ProtocolExtensionContainer { {TargetNGRANNode-ToSourceNGRANNode-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

TargetNGRANNode-ToSourceNGRANNode-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-DAPSResponseInfoList CRITICALITY ignore EXTENSION DAPSResponseInfoList PRESENCE optional }|

{ ID id-DirectForwardingPathAvailability CRITICALITY ignore EXTENSION DirectForwardingPathAvailability PRESENCE optional }|

{ ID id-MBS-ActiveSessionInformation-TargettoSourceList CRITICALITY ignore EXTENSION MBS-ActiveSessionInformation-TargettoSourceList PRESENCE optional }|

{ ID id-NGAPIESupportInformationResponseList CRITICALITY ignore EXTENSION NGAPIESupportInformationResponseList PRESENCE optional },

...

}

TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer ::= SEQUENCE {

cell-CAGInformation Cell-CAGInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer-ExtIEs} } OPTIONAL,

...

}

TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-NGAPIESupportInformationResponseList CRITICALITY ignore EXTENSION NGAPIESupportInformationResponseList PRESENCE optional },

...

}

TargetNSSAI ::= SEQUENCE (SIZE(1..maxnoofTargetS-NSSAIs)) OF TargetNSSAI-Item

TargetNSSAI-Item ::= SEQUENCE {

s-NSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { {TargetNSSAI-Item-ExtIEs} } OPTIONAL,

...

}

TargetNSSAI-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetNSSAIInformation ::= SEQUENCE {

targetNSSAI TargetNSSAI,

indexToRFSP IndexToRFSP,

iE-Extensions ProtocolExtensionContainer { {TargetNSSAIInformation-Item-ExtIEs} } OPTIONAL,

...

}

TargetNSSAIInformation-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetRANNodeID ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

selectedTAI TAI,

iE-Extensions ProtocolExtensionContainer { {TargetRANNodeID-ExtIEs} } OPTIONAL,

...

}

TargetRANNodeID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-Selected-Target-SNPN-Identity CRITICALITY reject EXTENSION NID PRESENCE optional },

...

}

TargetRANNodeID-RIM ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

selectedTAI TAI,

iE-Extensions ProtocolExtensionContainer { {TargetRANNodeID-RIM-ExtIEs} } OPTIONAL,

...

}

TargetRANNodeID-RIM-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetRANNodeID-SON ::= SEQUENCE {

globalRANNodeID GlobalRANNodeID,

selectedTAI TAI,

iE-Extensions ProtocolExtensionContainer { {TargetRANNodeID-SON-ExtIEs} } OPTIONAL,

...

}

TargetRANNodeID-SON-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-NR-CGI CRITICALITY ignore EXTENSION NR-CGI PRESENCE optional },

...

}

TargetRNC-ID ::= SEQUENCE {

lAI LAI,

rNC-ID RNC-ID,

extendedRNC-ID ExtendedRNC-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TargetRNC-ID-ExtIEs} } OPTIONAL,

...

}

TargetRNC-ID-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TargetToSource-TransparentContainer ::= OCTET STRING

-- This IE includes a transparent container from the target RAN node to the source RAN node.

-- The octets of the OCTET STRING are encoded according to the specifications of the target system.

TargettoSource-Failure-TransparentContainer ::= OCTET STRING

-- This IE includes a transparent container from the target RAN node to the source RAN node.

-- The octets of the OCTET STRING are encoded according to the specifications of the target system (if applicable).

TimeBasedHandoverInformation ::= SEQUENCE {

hOWindowStart HandoverWindowStart,

hOWindowDuration HandoverWindowDuration,

iE-Extensions ProtocolExtensionContainer { {TimeBasedHandoverInformation-ExtIEs} } OPTIONAL,

...

}

TimeBasedHandoverInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

HandoverWindowStart ::= INTEGER (0..549755813887)

HandoverWindowDuration ::= INTEGER (1..6000)

TimerApproachForGUAMIRemoval ::= ENUMERATED {

apply-timer,

...

}

TimeSinceFailure ::= INTEGER (0..172800, ...)

TimeStamp ::= OCTET STRING (SIZE(4))

TimeSyncAssistanceInfo ::= SEQUENCE {

timeDistributionIndication ENUMERATED {enabled, disabled, ...},

uUTimeSyncErrorBudget INTEGER (1..1000000, ...) OPTIONAL,

-- The above IE shall be present if the Time Distribution Indication IE is set to the value “enabled”

iE-Extensions ProtocolExtensionContainer { {TimeSyncAssistanceInfo-ExtIEs} } OPTIONAL,

...

}

TimeSyncAssistanceInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-ClockQualityReportingControlInfo CRITICALITY ignore EXTENSION ClockQualityReportingControlInfo PRESENCE optional},

...

}

TimeToWait ::= ENUMERATED {v1s, v2s, v5s, v10s, v20s, v60s, ...}

TimeUEStayedInCell ::= INTEGER (0..4095)

TimeUEStayedInCellEnhancedGranularity ::= INTEGER (0..40950)

TMGI ::= OCTET STRING (SIZE(6))

TNAP-ID ::= OCTET STRING

TNGF-ID ::= CHOICE {

tNGF-ID BIT STRING (SIZE(32, ...)),

choice-Extensions ProtocolIE-SingleContainer { {TNGF-ID-ExtIEs} }

}

TNGF-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

TNLAddressWeightFactor ::= INTEGER (0..255)

TNLAssociationList ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLAssociationItem

TNLAssociationItem ::= SEQUENCE {

tNLAssociationAddress CPTransportLayerInformation,

cause Cause,

iE-Extensions ProtocolExtensionContainer { {TNLAssociationItem-ExtIEs} } OPTIONAL,

...

}

TNLAssociationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TNLAssociationUsage ::= ENUMERATED {

ue,

non-ue,

both,

...

}

TooearlyIntersystemHO::= SEQUENCE {

sourcecellID EUTRA-CGI,

failurecellID NGRAN-CGI,

uERLFReportContainer UERLFReportContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { TooearlyIntersystemHO-ExtIEs} } OPTIONAL,

...

}

TooearlyIntersystemHO-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TraceActivation ::= SEQUENCE {

nGRANTraceID NGRANTraceID,

interfacesToTrace InterfacesToTrace,

traceDepth TraceDepth,

traceCollectionEntityIPAddress TransportLayerAddress,

iE-Extensions ProtocolExtensionContainer { {TraceActivation-ExtIEs} } OPTIONAL,

...

}

TraceActivation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-MDTConfiguration CRITICALITY ignore EXTENSION MDT-Configuration PRESENCE optional }|

{ ID id-TraceCollectionEntityURI CRITICALITY ignore EXTENSION URI-address PRESENCE optional },

...

}

TraceDepth ::= ENUMERATED {

minimum,

medium,

maximum,

minimumWithoutVendorSpecificExtension,

mediumWithoutVendorSpecificExtension,

maximumWithoutVendorSpecificExtension,

...

}

TrafficLoadReductionIndication ::= INTEGER (1..99)

TransportLayerAddress ::= BIT STRING (SIZE(1..160, ...))

TypeOfError ::= ENUMERATED {

not-understood,

missing,

...

}

TAIBasedMDT ::= SEQUENCE {

tAIListforMDT TAIListforMDT,

iE-Extensions ProtocolExtensionContainer { {TAIBasedMDT-ExtIEs} } OPTIONAL,

...

}

TAIBasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF TAI

TAIBasedQMC ::= SEQUENCE {

tAIListforQMC TAIListforQMC,

iE-Extensions ProtocolExtensionContainer { {TAIBasedQMC-ExtIEs} } OPTIONAL,

...

}

TAIBasedQMC-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListforQMC ::= SEQUENCE (SIZE(1..maxnoofTAforQMC)) OF TAI

TABasedQMC ::= SEQUENCE {

tAListforQMC TAListforQMC,

iE-Extensions ProtocolExtensionContainer { {TABasedQMC-ExtIEs} } OPTIONAL,

...

}

TABasedQMC-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAListforQMC ::= SEQUENCE (SIZE(1..maxnoofTAforQMC)) OF TAC

TABasedMDT ::= SEQUENCE {

tAListforMDT TAListforMDT,

iE-Extensions ProtocolExtensionContainer { {TABasedMDT-ExtIEs} } OPTIONAL,

...

}

TABasedMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TAListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF TAC

Threshold-RSRP ::= INTEGER(0..127)

Threshold-RSRQ ::= INTEGER(0..127)

Threshold-SINR ::= INTEGER(0..127)

TimeToTrigger ::= ENUMERATED {ms0, ms40, ms64, ms80, ms100, ms128, ms160, ms256, ms320, ms480, ms512, ms640, ms1024, ms1280, ms2560, ms5120}

TLContainer ::= OCTET STRING

TWAP-ID ::= OCTET STRING

TWIF-ID ::= CHOICE {

tWIF-ID BIT STRING (SIZE(32, ...)),

choice-Extensions ProtocolIE-SingleContainer { {TWIF-ID-ExtIEs} }

}

TWIF-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

TSCAssistanceInformation ::= SEQUENCE {

periodicity Periodicity,

burstArrivalTime BurstArrivalTime OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TSCAssistanceInformation-ExtIEs} } OPTIONAL,

...

}

TSCAssistanceInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SurvivalTime CRITICALITY ignore EXTENSION SurvivalTime PRESENCE optional}|

{ ID id-RANfeedbacktype CRITICALITY ignore EXTENSION RANfeedbacktype PRESENCE optional}|

{ ID id-N6JitterInformation CRITICALITY ignore EXTENSION N6JitterInformation PRESENCE optional},

...

}

TSCTrafficCharacteristics ::= SEQUENCE {

tSCAssistanceInformationDL TSCAssistanceInformation OPTIONAL,

tSCAssistanceInformationUL TSCAssistanceInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TSCTrafficCharacteristics-ExtIEs} } OPTIONAL,

...

}

TSCTrafficCharacteristics-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TSCTrafficCharacteristicsFeedback ::= SEQUENCE {

tSCFeedbackInformationDL TSCFeedbackInformation OPTIONAL,

tSCFeedbackInformationUL TSCFeedbackInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { TSCTrafficCharacteristicsFeedback-ExtIEs} } OPTIONAL,

...

}

TSCTrafficCharacteristicsFeedback-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

TSCFeedbackInformation ::= SEQUENCE {

burstArrivalTimeOffset INTEGER (-640000..640000, ...),

adjustedPeriodicity Periodicity OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { TSCFeedbackInformation-ExtIEs} } OPTIONAL,

...

}

TSCFeedbackInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- U

UEAggregateMaximumBitRate ::= SEQUENCE {

uEAggregateMaximumBitRateDL BitRate,

uEAggregateMaximumBitRateUL BitRate,

iE-Extensions ProtocolExtensionContainer { {UEAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

UEAggregateMaximumBitRate-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UEAppLayerMeasInfoList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF UEAppLayerMeasInfoItem

UEAppLayerMeasInfoItem ::= SEQUENCE {

uEAppLayerMeasConfigInfo UEAppLayerMeasConfigInfo,

iE-Extensions ProtocolExtensionContainer { { UEAppLayerMeasInfoItem-ExtIEs} } OPTIONAL,

...

}

UEAppLayerMeasInfoItem-ExtIEs NGAP-PROTOCOL-EXTENSION::= {

...

}

UEAppLayerMeasConfigInfo ::= SEQUENCE {

qoEReference QoEReference,

serviceType ServiceType,

areaScopeOfQMC AreaScopeOfQMC OPTIONAL,

measCollEntityIPAddress TransportLayerAddress,

qoEMeasurementStatus ENUMERATED {ongoing,...} OPTIONAL,

containerForAppLayerMeasConfig OCTET STRING (SIZE(1..8000)) OPTIONAL,

measConfigAppLayerID INTEGER (0..15, ...) OPTIONAL,

sliceSupportListQMC SliceSupportListQMC OPTIONAL,

mDT-AlignmentInfo MDT-AlignmentInfo OPTIONAL,

availableRANVisibleQoEMetrics AvailableRANVisibleQoEMetrics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UEAppLayerMeasConfigInfo-ExtIEs} } OPTIONAL,

...

}

UEAppLayerMeasConfigInfo-ExtIEs NGAP-PROTOCOL-EXTENSION::= {

{ ID id-AssistanceInformationQoE-Meas CRITICALITY ignore EXTENSION AssistanceInformationQoE-Meas PRESENCE optional }|

{ ID id-MBSCommServiceType CRITICALITY ignore EXTENSION MBSCommServiceType PRESENCE optional }|

{ ID id-QoERVQoEReportingPaths CRITICALITY ignore EXTENSION QoERVQoEReportingPaths PRESENCE optional },

...

}

UE-associatedLogicalNG-connectionList ::= SEQUENCE (SIZE(1..maxnoofNGConnectionsToReset)) OF UE-associatedLogicalNG-connectionItem

UE-associatedLogicalNG-connectionItem ::= SEQUENCE {

aMF-UE-NGAP-ID AMF-UE-NGAP-ID OPTIONAL,

rAN-UE-NGAP-ID RAN-UE-NGAP-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UE-associatedLogicalNG-connectionItem-ExtIEs} } OPTIONAL,

...

}

UE-associatedLogicalNG-connectionItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UECapabilityInfoRequest ::= ENUMERATED {

requested,

...

}

UEContextRequest ::= ENUMERATED {requested, ...}

UEContextResumeRequestTransfer ::= SEQUENCE {

qosFlowFailedToResumeList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UEContextResumeRequestTransfer-ExtIEs} } OPTIONAL,

...

}

UEContextResumeRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UEContextResumeResponseTransfer ::= SEQUENCE {

qosFlowFailedToResumeList QosFlowListWithCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UEContextResumeResponseTransfer-ExtIEs} } OPTIONAL,

...

}

UEContextResumeResponseTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UEContextSuspendRequestTransfer ::= SEQUENCE {

suspendIndicator SuspendIndicator OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UEContextSuspendRequestTransfer-ExtIEs} } OPTIONAL,

...

}

UEContextSuspendRequestTransfer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UE-DifferentiationInfo ::= SEQUENCE {

periodicCommunicationIndicator ENUMERATED {periodically, ondemand, ... } OPTIONAL,

periodicTime INTEGER (1..3600, ...) OPTIONAL,

scheduledCommunicationTime ScheduledCommunicationTime OPTIONAL,

stationaryIndication ENUMERATED {stationary, mobile, ...} OPTIONAL,

trafficProfile ENUMERATED {single-packet, dual-packets, multiple-packets, ...} OPTIONAL,

batteryIndication ENUMERATED {battery-powered, battery-powered-not-rechargeable-or-replaceable, not-battery-powered, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UE-DifferentiationInfo-ExtIEs} } OPTIONAL,

...

}

UE-DifferentiationInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UEHistoryInformation ::= SEQUENCE (SIZE(1..maxnoofCellsinUEHistoryInfo)) OF LastVisitedCellItem

UEHistoryInformationFromTheUE ::= CHOICE {

nR NRMobilityHistoryReport,

choice-Extensions ProtocolIE-SingleContainer { {UEHistoryInformationFromTheUE-ExtIEs} }

}

UEHistoryInformationFromTheUE-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UEIdentityIndexValue ::= CHOICE {

indexLength10 BIT STRING (SIZE(10)),

choice-Extensions ProtocolIE-SingleContainer { {UEIdentityIndexValue-ExtIEs} }

}

UEIdentityIndexValue-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UE-NGAP-IDs ::= CHOICE {

uE-NGAP-ID-pair UE-NGAP-ID-pair,

aMF-UE-NGAP-ID AMF-UE-NGAP-ID,

choice-Extensions ProtocolIE-SingleContainer { {UE-NGAP-IDs-ExtIEs} }

}

UE-NGAP-IDs-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UE-NGAP-ID-pair ::= SEQUENCE{

aMF-UE-NGAP-ID AMF-UE-NGAP-ID,

rAN-UE-NGAP-ID RAN-UE-NGAP-ID,

iE-Extensions ProtocolExtensionContainer { {UE-NGAP-ID-pair-ExtIEs} } OPTIONAL,

...

}

UE-NGAP-ID-pair-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UEPagingIdentity ::= CHOICE {

fiveG-S-TMSI FiveG-S-TMSI,

choice-Extensions ProtocolIE-SingleContainer { {UEPagingIdentity-ExtIEs} }

}

UEPagingIdentity-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UEPresence ::= ENUMERATED {in, out, unknown, ...}

UEPresenceInAreaOfInterestList ::= SEQUENCE (SIZE(1..maxnoofAoI)) OF UEPresenceInAreaOfInterestItem

UEPresenceInAreaOfInterestItem ::= SEQUENCE {

locationReportingReferenceID LocationReportingReferenceID,

uEPresence UEPresence,

iE-Extensions ProtocolExtensionContainer { {UEPresenceInAreaOfInterestItem-ExtIEs} } OPTIONAL,

...

}

UEPresenceInAreaOfInterestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UERadioCapability ::= OCTET STRING

UERadioCapabilityForPaging ::= SEQUENCE {

uERadioCapabilityForPagingOfNR UERadioCapabilityForPagingOfNR OPTIONAL,

uERadioCapabilityForPagingOfEUTRA UERadioCapabilityForPagingOfEUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UERadioCapabilityForPaging-ExtIEs} } OPTIONAL,

...

}

UERadioCapabilityForPaging-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-UERadioCapabilityForPagingOfNB-IoT CRITICALITY ignore EXTENSION UERadioCapabilityForPagingOfNB-IoT PRESENCE optional },

...

}

UERadioCapabilityForPagingOfNB-IoT ::= OCTET STRING

UERadioCapabilityForPagingOfNR ::= OCTET STRING

UERadioCapabilityForPagingOfEUTRA ::= OCTET STRING

UERadioCapabilityID ::= OCTET STRING

UERetentionInformation ::= ENUMERATED {

ues-retained,

...

}

UERLFReportContainer ::= CHOICE {

nR NRUERLFReportContainer,

lTE LTEUERLFReportContainer,

choice-Extensions ProtocolIE-SingleContainer { {UERLFReportContainer-ExtIEs} }

}

UERLFReportContainer-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UESecurityCapabilities ::= SEQUENCE {

nRencryptionAlgorithms NRencryptionAlgorithms,

nRintegrityProtectionAlgorithms NRintegrityProtectionAlgorithms,

eUTRAencryptionAlgorithms EUTRAencryptionAlgorithms,

eUTRAintegrityProtectionAlgorithms EUTRAintegrityProtectionAlgorithms,

iE-Extensions ProtocolExtensionContainer { {UESecurityCapabilities-ExtIEs} } OPTIONAL,

...

}

UESecurityCapabilities-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UESliceMaximumBitRateList ::= SEQUENCE (SIZE(1..maxnoofAllowedS-NSSAIs)) OF UESliceMaximumBitRateItem

UESliceMaximumBitRateItem ::= SEQUENCE {

s-NSSAI S-NSSAI,

uESliceMaximumBitRateDL BitRate,

uESliceMaximumBitRateUL BitRate,

iE-Extensions ProtocolExtensionContainer { { UESliceMaximumBitRateItem-ExtIEs} } OPTIONAL,

...

}

UESliceMaximumBitRateItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UE-UP-CIoT-Support ::= ENUMERATED {supported, ...}

UL-CP-SecurityInformation ::= SEQUENCE {

ul-NAS-MAC UL-NAS-MAC,

ul-NAS-Count UL-NAS-Count,

iE-Extensions ProtocolExtensionContainer { { UL-CP-SecurityInformation-ExtIEs} } OPTIONAL,

...

}

UL-CP-SecurityInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UL-NAS-MAC ::= BIT STRING (SIZE (16))

UL-NAS-Count ::= BIT STRING (SIZE (5))

UL-NGU-UP-TNLModifyList ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivity)) OF UL-NGU-UP-TNLModifyItem

UL-NGU-UP-TNLModifyItem ::= SEQUENCE {

uL-NGU-UP-TNLInformation UPTransportLayerInformation,

dL-NGU-UP-TNLInformation UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {UL-NGU-UP-TNLModifyItem-ExtIEs} } OPTIONAL,

...

}

UL-NGU-UP-TNLModifyItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-RedundantUL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional }|

{ ID id-RedundantDL-NGU-UP-TNLInformation CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional },

...

}

UnavailableGUAMIList ::= SEQUENCE (SIZE(1..maxnoofServedGUAMIs)) OF UnavailableGUAMIItem

UnavailableGUAMIItem ::= SEQUENCE {

gUAMI GUAMI,

timerApproachForGUAMIRemoval TimerApproachForGUAMIRemoval OPTIONAL,

backupAMFName AMFName OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UnavailableGUAMIItem-ExtIEs} } OPTIONAL,

...

}

UnavailableGUAMIItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ID id-ExtendedBackupAMFName CRITICALITY ignore EXTENSION Extended-AMFName PRESENCE optional},

...

}

ULForwarding ::= ENUMERATED {

ul-forwarding-proposed,

...

}

UpdateFeedback ::= BIT STRING (SIZE(8, ...))

UPTransportLayerInformation ::= CHOICE {

gTPTunnel GTPTunnel,

choice-Extensions ProtocolIE-SingleContainer { {UPTransportLayerInformation-ExtIEs} }

}

UPTransportLayerInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

UPTransportLayerInformationList ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF UPTransportLayerInformationItem

UPTransportLayerInformationItem ::= SEQUENCE {

nGU-UP-TNLInformation UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {UPTransportLayerInformationItem-ExtIEs} } OPTIONAL,

...

}

UPTransportLayerInformationItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-CommonNetworkInstance CRITICALITY ignore EXTENSION CommonNetworkInstance PRESENCE optional },

...

}

UPTransportLayerInformationPairList ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF UPTransportLayerInformationPairItem

UPTransportLayerInformationPairItem ::= SEQUENCE {

uL-NGU-UP-TNLInformation UPTransportLayerInformation,

dL-NGU-UP-TNLInformation UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {UPTransportLayerInformationPairItem-ExtIEs} } OPTIONAL,

...

}

UPTransportLayerInformationPairItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

URI-address ::= VisibleString

UserLocationInformation ::= CHOICE {

userLocationInformationEUTRA UserLocationInformationEUTRA,

userLocationInformationNR UserLocationInformationNR,

userLocationInformationN3IWF-with-PortNumber UserLocationInformationN3IWF-with-PortNumber,

choice-Extensions ProtocolIE-SingleContainer { {UserLocationInformation-ExtIEs} }

}

UserLocationInformation-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-UserLocationInformationTNGF CRITICALITY ignore TYPE UserLocationInformationTNGF PRESENCE mandatory }|

{ ID id-UserLocationInformationTWIF CRITICALITY ignore TYPE UserLocationInformationTWIF PRESENCE mandatory }|

{ ID id-UserLocationInformationW-AGF CRITICALITY ignore TYPE UserLocationInformationW-AGF PRESENCE mandatory }|

{ ID id-UserLocationInformationN3IWF-without-PortNumber CRITICALITY ignore TYPE UserLocationInformationN3IWF-without-PortNumber PRESENCE mandatory },

...

}

UserLocationInformationEUTRA ::= SEQUENCE {

eUTRA-CGI EUTRA-CGI,

tAI TAI,

timeStamp TimeStamp OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UserLocationInformationEUTRA-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationEUTRA-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PSCellInformation CRITICALITY ignore EXTENSION NGRAN-CGI PRESENCE optional},

...

}

UserLocationInformationN3IWF-with-PortNumber ::= SEQUENCE {

iPAddress TransportLayerAddress,

portNumber PortNumber,

iE-Extensions ProtocolExtensionContainer { {UserLocationInformationN3IWF-with-PortNumber-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationN3IWF-with-PortNumber-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-TAI CRITICALITY ignore EXTENSION TAI PRESENCE optional },

...

}

UserLocationInformationN3IWF-without-PortNumber ::= SEQUENCE {

iPAddress TransportLayerAddress,

tAI TAI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UserLocationInformationN3IWF-without-PortNumber-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationN3IWF-without-PortNumber-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UserLocationInformationTNGF ::= SEQUENCE {

tNAP-ID TNAP-ID,

iPAddress TransportLayerAddress,

portNumber PortNumber OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UserLocationInformationTNGF-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationTNGF-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-TAI CRITICALITY ignore EXTENSION TAI PRESENCE optional },

...

}

UserLocationInformationTWIF ::= SEQUENCE {

tWAP-ID TWAP-ID,

iPAddress TransportLayerAddress,

portNumber PortNumber OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UserLocationInformationTWIF-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationTWIF-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-TAI CRITICALITY ignore EXTENSION TAI PRESENCE optional },

...

}

UserLocationInformationW-AGF ::= CHOICE {

globalLine-ID GlobalLine-ID,

hFCNode-ID HFCNode-ID,

choice-Extensions ProtocolIE-SingleContainer { { UserLocationInformationW-AGF-ExtIEs} }

}

UserLocationInformationW-AGF-ExtIEs NGAP-PROTOCOL-IES ::= {

{ ID id-GlobalCable-ID CRITICALITY ignore TYPE GlobalCable-ID PRESENCE mandatory }|

{ ID id-HFCNode-ID-new CRITICALITY ignore TYPE HFCNode-ID-new PRESENCE mandatory }|

{ ID id-GlobalCable-ID-new CRITICALITY ignore TYPE GlobalCable-ID-new PRESENCE mandatory },

...

}

UserLocationInformationNR ::= SEQUENCE {

nR-CGI NR-CGI,

tAI TAI,

timeStamp TimeStamp OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UserLocationInformationNR-ExtIEs} } OPTIONAL,

...

}

UserLocationInformationNR-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PSCellInformation CRITICALITY ignore EXTENSION NGRAN-CGI PRESENCE optional }|

{ ID id-NID CRITICALITY reject EXTENSION NID PRESENCE optional }|

{ ID id-NRNTNTAIInformation CRITICALITY ignore EXTENSION NRNTNTAIInformation PRESENCE optional }|

{ ID id-MobileIAB-MTUserLocationInformation CRITICALITY ignore EXTENSION MobileIAB-MTUserLocationInformation PRESENCE optional },

...

}

UserPlaneFailureIndication ::= SEQUENCE {

userPlaneFailureType UserPlaneFailureType,

uL-NGU-UP-TNLInformation UPTransportLayerInformation,

dL-NGU-UP-TNLInformation UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { { UserPlaneFailureIndication-ExtIEs} } OPTIONAL,

...

}

UserPlaneFailureIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

UserPlaneFailureIndicationReport ::= ENUMERATED {

qos-flows-and-tunnel-to-be-released,

qoS-flows-to-be-moved,

new-transport-address-allocated,

...

}

UserPlaneFailureType ::= ENUMERATED {

gtp-u-error-indication-received,

up-path-failure,

...

}

UserPlaneSecurityInformation ::= SEQUENCE {

securityResult SecurityResult,

securityIndication SecurityIndication,

iE-Extensions ProtocolExtensionContainer { {UserPlaneSecurityInformation-ExtIEs} } OPTIONAL,

...

}

UserPlaneSecurityInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- V

VolumeTimedReportList ::= SEQUENCE (SIZE(1..maxnoofTimePeriods)) OF VolumeTimedReport-Item

VolumeTimedReport-Item ::= SEQUENCE {

startTimeStamp OCTET STRING (SIZE(4)),

endTimeStamp OCTET STRING (SIZE(4)),

usageCountUL INTEGER (0..18446744073709551615),

usageCountDL INTEGER (0..18446744073709551615),

iE-Extensions ProtocolExtensionContainer { {VolumeTimedReport-Item-ExtIEs} } OPTIONAL,

...

}

VolumeTimedReport-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- W

W-AGF-ID ::= CHOICE {

w-AGF-ID BIT STRING (SIZE(16, ...)),

choice-Extensions ProtocolIE-SingleContainer { {W-AGF-ID-ExtIEs} }

}

W-AGF-ID-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

WarningAreaCoordinates ::= OCTET STRING (SIZE(1..1024))

WarningAreaList ::= CHOICE {

eUTRA-CGIListForWarning EUTRA-CGIListForWarning,

nR-CGIListForWarning NR-CGIListForWarning,

tAIListForWarning TAIListForWarning,

emergencyAreaIDList EmergencyAreaIDList,

choice-Extensions ProtocolIE-SingleContainer { {WarningAreaList-ExtIEs} }

}

WarningAreaList-ExtIEs NGAP-PROTOCOL-IES ::= {

...

}

WarningMessageContents ::= OCTET STRING (SIZE(1..9600))

WarningSecurityInfo ::= OCTET STRING (SIZE(50))

WarningType ::= OCTET STRING (SIZE(2))

WLANMeasurementConfiguration ::= SEQUENCE {

wlanMeasConfig WLANMeasConfig,

wlanMeasConfigNameList WLANMeasConfigNameList OPTIONAL,

wlan-rssi ENUMERATED {true, ...} OPTIONAL,

wlan-rtt ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { WLANMeasurementConfiguration-ExtIEs } } OPTIONAL,

...

}

WLANMeasurementConfiguration-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

WLANMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofWLANName)) OF WLANMeasConfigNameItem

WLANMeasConfigNameItem ::= SEQUENCE {

wLANName WLANName,

iE-Extensions ProtocolExtensionContainer { { WLANMeasConfigNameItem-ExtIEs } } OPTIONAL,

...

}

WLANMeasConfigNameItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

WLANMeasConfig::= ENUMERATED {setup,...}

WLANName ::= OCTET STRING (SIZE (1..32))

WUS-Assistance-Information ::= SEQUENCE {

pagingProbabilityInformation PagingProbabilityInformation,

iE-Extensions ProtocolExtensionContainer { { WUS-Assistance-Information-ExtIEs } } OPTIONAL,

...

}

WUS-Assistance-Information-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

-- X

XnExtTLAs ::= SEQUENCE (SIZE(1..maxnoofXnExtTLAs)) OF XnExtTLA-Item

XnExtTLA-Item ::= SEQUENCE {

iPsecTLA TransportLayerAddress OPTIONAL,

gTP-TLAs XnGTP-TLAs OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {XnExtTLA-Item-ExtIEs} } OPTIONAL,

...

}

XnExtTLA-Item-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SCTP-TLAs CRITICALITY ignore EXTENSION SCTP-TLAs PRESENCE optional },

...

}

XnGTP-TLAs ::= SEQUENCE (SIZE(1..maxnoofXnGTP-TLAs)) OF TransportLayerAddress

XnTLAs ::= SEQUENCE (SIZE(1..maxnoofXnTLAs)) OF TransportLayerAddress

XnTNLConfigurationInfo ::= SEQUENCE {

xnTransportLayerAddresses XnTLAs,

xnExtendedTransportLayerAddresses XnExtTLAs OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {XnTNLConfigurationInfo-ExtIEs} } OPTIONAL,

...

}

XnTNLConfigurationInfo-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

XrDeviceWith2Rx ::= ENUMERATED {true, ...}

-- Y

-- Z

END

-- ASN1STOP

### 9.4.6 Common Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Common definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-CommonDataTypes {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality ::= ENUMERATED { reject, ignore, notify }

Presence ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID ::= CHOICE {

local INTEGER (0..65535),

global OBJECT IDENTIFIER

}

ProcedureCode ::= INTEGER (0..255)

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID ::= INTEGER (0..65535)

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome }

END

-- ASN1STOP

### 9.4.7 Constant Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Constant definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-Constants {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IE parameter types from other modules.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM NGAP-CommonDataTypes;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Elementary Procedures

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-AMFConfigurationUpdate ProcedureCode ::= 0

id-AMFStatusIndication ProcedureCode ::= 1

id-CellTrafficTrace ProcedureCode ::= 2

id-DeactivateTrace ProcedureCode ::= 3

id-DownlinkNASTransport ProcedureCode ::= 4

id-DownlinkNonUEAssociatedNRPPaTransport ProcedureCode ::= 5

id-DownlinkRANConfigurationTransfer ProcedureCode ::= 6

id-DownlinkRANStatusTransfer ProcedureCode ::= 7

id-DownlinkUEAssociatedNRPPaTransport ProcedureCode ::= 8

id-ErrorIndication ProcedureCode ::= 9

id-HandoverCancel ProcedureCode ::= 10

id-HandoverNotification ProcedureCode ::= 11

id-HandoverPreparation ProcedureCode ::= 12

id-HandoverResourceAllocation ProcedureCode ::= 13

id-InitialContextSetup ProcedureCode ::= 14

id-InitialUEMessage ProcedureCode ::= 15

id-LocationReportingControl ProcedureCode ::= 16

id-LocationReportingFailureIndication ProcedureCode ::= 17

id-LocationReport ProcedureCode ::= 18

id-NASNonDeliveryIndication ProcedureCode ::= 19

id-NGReset ProcedureCode ::= 20

id-NGSetup ProcedureCode ::= 21

id-OverloadStart ProcedureCode ::= 22

id-OverloadStop ProcedureCode ::= 23

id-Paging ProcedureCode ::= 24

id-PathSwitchRequest ProcedureCode ::= 25

id-PDUSessionResourceModify ProcedureCode ::= 26

id-PDUSessionResourceModifyIndication ProcedureCode ::= 27

id-PDUSessionResourceRelease ProcedureCode ::= 28

id-PDUSessionResourceSetup ProcedureCode ::= 29

id-PDUSessionResourceNotify ProcedureCode ::= 30

id-PrivateMessage ProcedureCode ::= 31

id-PWSCancel ProcedureCode ::= 32

id-PWSFailureIndication ProcedureCode ::= 33

id-PWSRestartIndication ProcedureCode ::= 34

id-RANConfigurationUpdate ProcedureCode ::= 35

id-RerouteNASRequest ProcedureCode ::= 36

id-RRCInactiveTransitionReport ProcedureCode ::= 37

id-TraceFailureIndication ProcedureCode ::= 38

id-TraceStart ProcedureCode ::= 39

id-UEContextModification ProcedureCode ::= 40

id-UEContextRelease ProcedureCode ::= 41

id-UEContextReleaseRequest ProcedureCode ::= 42

id-UERadioCapabilityCheck ProcedureCode ::= 43

id-UERadioCapabilityInfoIndication ProcedureCode ::= 44

id-UETNLABindingRelease ProcedureCode ::= 45

id-UplinkNASTransport ProcedureCode ::= 46

id-UplinkNonUEAssociatedNRPPaTransport ProcedureCode ::= 47

id-UplinkRANConfigurationTransfer ProcedureCode ::= 48

id-UplinkRANStatusTransfer ProcedureCode ::= 49

id-UplinkUEAssociatedNRPPaTransport ProcedureCode ::= 50

id-WriteReplaceWarning ProcedureCode ::= 51

id-SecondaryRATDataUsageReport ProcedureCode ::= 52

id-UplinkRIMInformationTransfer ProcedureCode ::= 53

id-DownlinkRIMInformationTransfer ProcedureCode ::= 54

id-RetrieveUEInformation ProcedureCode ::= 55

id-UEInformationTransfer ProcedureCode ::= 56

id-RANCPRelocationIndication ProcedureCode ::= 57

id-UEContextResume ProcedureCode ::= 58

id-UEContextSuspend ProcedureCode ::= 59

id-UERadioCapabilityIDMapping ProcedureCode ::= 60

id-HandoverSuccess ProcedureCode ::= 61

id-UplinkRANEarlyStatusTransfer ProcedureCode ::= 62

id-DownlinkRANEarlyStatusTransfer ProcedureCode ::= 63

id-AMFCPRelocationIndication ProcedureCode ::= 64

id-ConnectionEstablishmentIndication ProcedureCode ::= 65

id-BroadcastSessionModification ProcedureCode ::= 66

id-BroadcastSessionRelease ProcedureCode ::= 67

id-BroadcastSessionSetup ProcedureCode ::= 68

id-DistributionSetup ProcedureCode ::= 69

id-DistributionRelease ProcedureCode ::= 70

id-MulticastSessionActivation ProcedureCode ::= 71

id-MulticastSessionDeactivation ProcedureCode ::= 72

id-MulticastSessionUpdate ProcedureCode ::= 73

id-MulticastGroupPaging ProcedureCode ::= 74

id-BroadcastSessionReleaseRequired ProcedureCode ::= 75

id-TimingSynchronisationStatus ProcedureCode ::= 76

id-TimingSynchronisationStatusReport ProcedureCode ::= 77

id-MTCommunicationHandling ProcedureCode ::= 78

id-RANPagingRequest ProcedureCode ::= 79

id-BroadcastSessionTransport ProcedureCode ::= 80

id-InventoryRequest ProcedureCode ::= 193 --to be allocated

id-InventoryReport ProcedureCode ::= 196 --to be allocated

id-CommandRequest ProcedureCode ::= 197 --to be allocated

id-AIOTSessionRelease ProcedureCode ::= 198 --to be allocated

id-AIOTSessionReleaseRequest ProcedureCode ::= 199 --to be allocated

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Extension constants

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Lists

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

maxnoofAllowedAreas INTEGER ::= 16

maxnoofAllowedCAGsperPLMN INTEGER ::= 256

maxnoofAllowedS-NSSAIs INTEGER ::= 8

maxnoofBluetoothName INTEGER ::= 4

maxnoofBPLMNs INTEGER ::= 12

maxnoofCAGSperCell INTEGER ::= 64

maxnoofCellIDforMDT INTEGER ::= 32

maxnoofCellIDforWarning INTEGER ::= 65535

maxnoofCellinAoI INTEGER ::= 256

maxnoofCellinEAI INTEGER ::= 65535

maxnoofCellinTAI INTEGER ::= 65535

maxnoofCellsforMBS INTEGER ::= 8192

maxnoofCellsingNB INTEGER ::= 16384

maxnoofCellsinngeNB INTEGER ::= 256

maxnoofCellsinNGRANNode INTEGER ::= 16384

maxnoofCellsinUEHistoryInfo INTEGER ::= 16

maxnoofCellsUEMovingTrajectory INTEGER ::= 16

maxnoofDRBs INTEGER ::= 32

maxnoofEmergencyAreaID INTEGER ::= 65535

maxnoofEAIforRestart INTEGER ::= 256

maxnoofEPLMNs INTEGER ::= 15

maxnoofEPLMNsPlusOne INTEGER ::= 16

maxnoofE-RABs INTEGER ::= 256

maxnoofErrors INTEGER ::= 256

maxnoofExtSliceItems INTEGER ::= 65535

maxnoofForbTACs INTEGER ::= 4096

maxnoofFreqforMDT INTEGER ::= 8

maxnoofMBSAreaSessionIDs INTEGER ::= 256

maxnoofMBSFSAs INTEGER ::= 64

maxnoofMBSQoSFlows INTEGER ::= 64

maxnoofMBSSessions INTEGER ::= 32

maxnoofMBSSessionsofUE INTEGER ::= 256

maxnoofMBSServiceAreaInformation INTEGER ::= 256

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofMRBs INTEGER ::= 32

maxnoofMultiConnectivity INTEGER ::= 4

maxnoofMultiConnectivityMinusOne INTEGER ::= 3

maxnoofNeighPCIforMDT INTEGER ::= 32

maxnoofNGAPIESupportInfo INTEGER ::= 32

maxnoofNGConnectionsToReset INTEGER ::= 65536

maxnoofNRCellBands INTEGER ::= 32

maxnoofNSAGs INTEGER ::= 256

maxnoofPagingAreas INTEGER ::= 64

maxnoofPC5QoSFlows INTEGER ::= 2048

maxnoofPDUSessions INTEGER ::= 256

maxnoofPLMNs INTEGER ::= 12

maxnoofPSCellsPerPrimaryCellinUEHistoryInfo INTEGER ::= 8

maxnoofQosFlows INTEGER ::= 64

maxnoofQosParaSets INTEGER ::= 8

maxnoofRANNodeinAoI INTEGER ::= 64

maxnoofRecommendedCells INTEGER ::= 16

maxnoofRecommendedRANNodes INTEGER ::= 16

maxnoofAoI INTEGER ::= 64

maxnoofAoIMinusOne INTEGER ::= 63

maxnoofReportedCells INTEGER ::= 256

maxnoofSensorName INTEGER ::= 3

maxnoofServedGUAMIs INTEGER ::= 256

maxnoofSliceItems INTEGER ::= 1024

maxnoofSuccessfulHOReports INTEGER ::= 64

maxnoofTACs INTEGER ::= 256

maxnoofTACsinNTN INTEGER ::= 12

maxnoofTAforMDT INTEGER ::= 8

maxnoofTAIforInactive INTEGER ::= 16

maxnoofSupportedTAIforMBS INTEGER ::= 256

maxnoofTAIforMBS INTEGER ::= 1024

maxnoofTAIforPaging INTEGER ::= 16

maxnoofTAIforRestart INTEGER ::= 2048

maxnoofTAIforWarning INTEGER ::= 65535

maxnoofTAIinAoI INTEGER ::= 16

maxnoofTimePeriods INTEGER ::= 2

maxnoofTNLAssociations INTEGER ::= 32

maxnoofUEsforPaging INTEGER ::= 4096

maxnoofUETypes INTEGER ::= 8

maxnoofWLANName INTEGER ::= 4

maxnoofXnExtTLAs INTEGER ::= 16

maxnoofXnGTP-TLAs INTEGER ::= 16

maxnoofXnTLAs INTEGER ::= 2

maxnoofCandidateCells INTEGER ::= 32

maxnoofTargetS-NSSAIs INTEGER ::= 8

maxNRARFCN INTEGER ::= 3279165

maxnoofCellIDforQMC INTEGER ::= 32

maxnoofPLMNforQMC INTEGER ::= 16

maxnoofUEAppLayerMeas INTEGER ::= 16

maxnoofSNSSAIforQMC INTEGER ::= 16

maxnoofTAforQMC INTEGER ::= 8

maxnoofThresholdsForExcessPacketDelay INTEGER ::= 255

maxnoofESNPNs INTEGER ::= 15

maxnoofCandidateRelayUEs INTEGER ::= 32

maxnoofSuccessfulPSCellChangeReports INTEGER ::= 64

maxnoofCellsTSS INTEGER ::= 16384

maxnoofPeriodicities INTEGER ::= 8

maxnoofCAGforMDT INTEGER ::= 256

maxnoofMDTSNPNs INTEGER ::= 16

maxnoofPartiallyAllowedS-NSSAIs INTEGER ::= 8

maxnoofRSPPQoSFlows INTEGER ::= 2048

maxnoofReaders INTEGER ::= 65535

maxnoofDevices INTEGER ::= 65535

maxnoofAIoTAreas INTEGER ::= 256

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-AllowedNSSAI ProtocolIE-ID ::= 0

id-AMFName ProtocolIE-ID ::= 1

id-AMFOverloadResponse ProtocolIE-ID ::= 2

id-AMFSetID ProtocolIE-ID ::= 3

id-AMF-TNLAssociationFailedToSetupList ProtocolIE-ID ::= 4

id-AMF-TNLAssociationSetupList ProtocolIE-ID ::= 5

id-AMF-TNLAssociationToAddList ProtocolIE-ID ::= 6

id-AMF-TNLAssociationToRemoveList ProtocolIE-ID ::= 7

id-AMF-TNLAssociationToUpdateList ProtocolIE-ID ::= 8

id-AMFTrafficLoadReductionIndication ProtocolIE-ID ::= 9

id-AMF-UE-NGAP-ID ProtocolIE-ID ::= 10

id-AssistanceDataForPaging ProtocolIE-ID ::= 11

id-BroadcastCancelledAreaList ProtocolIE-ID ::= 12

id-BroadcastCompletedAreaList ProtocolIE-ID ::= 13

id-CancelAllWarningMessages ProtocolIE-ID ::= 14

id-Cause ProtocolIE-ID ::= 15

id-CellIDListForRestart ProtocolIE-ID ::= 16

id-ConcurrentWarningMessageInd ProtocolIE-ID ::= 17

id-CoreNetworkAssistanceInformationForInactive ProtocolIE-ID ::= 18

id-CriticalityDiagnostics ProtocolIE-ID ::= 19

id-DataCodingScheme ProtocolIE-ID ::= 20

id-DefaultPagingDRX ProtocolIE-ID ::= 21

id-DirectForwardingPathAvailability ProtocolIE-ID ::= 22

id-EmergencyAreaIDListForRestart ProtocolIE-ID ::= 23

id-EmergencyFallbackIndicator ProtocolIE-ID ::= 24

id-EUTRA-CGI ProtocolIE-ID ::= 25

id-FiveG-S-TMSI ProtocolIE-ID ::= 26

id-GlobalRANNodeID ProtocolIE-ID ::= 27

id-GUAMI ProtocolIE-ID ::= 28

id-HandoverType ProtocolIE-ID ::= 29

id-IMSVoiceSupportIndicator ProtocolIE-ID ::= 30

id-IndexToRFSP ProtocolIE-ID ::= 31

id-InfoOnRecommendedCellsAndRANNodesForPaging ProtocolIE-ID ::= 32

id-LocationReportingRequestType ProtocolIE-ID ::= 33

id-MaskedIMEISV ProtocolIE-ID ::= 34

id-MessageIdentifier ProtocolIE-ID ::= 35

id-MobilityRestrictionList ProtocolIE-ID ::= 36

id-NASC ProtocolIE-ID ::= 37

id-NAS-PDU ProtocolIE-ID ::= 38

id-NASSecurityParametersFromNGRAN ProtocolIE-ID ::= 39

id-NewAMF-UE-NGAP-ID ProtocolIE-ID ::= 40

id-NewSecurityContextInd ProtocolIE-ID ::= 41

id-NGAP-Message ProtocolIE-ID ::= 42

id-NGRAN-CGI ProtocolIE-ID ::= 43

id-NGRANTraceID ProtocolIE-ID ::= 44

id-NR-CGI ProtocolIE-ID ::= 45

id-NRPPa-PDU ProtocolIE-ID ::= 46

id-NumberOfBroadcastsRequested ProtocolIE-ID ::= 47

id-OldAMF ProtocolIE-ID ::= 48

id-OverloadStartNSSAIList ProtocolIE-ID ::= 49

id-PagingDRX ProtocolIE-ID ::= 50

id-PagingOrigin ProtocolIE-ID ::= 51

id-PagingPriority ProtocolIE-ID ::= 52

id-PDUSessionResourceAdmittedList ProtocolIE-ID ::= 53

id-PDUSessionResourceFailedToModifyListModRes ProtocolIE-ID ::= 54

id-PDUSessionResourceFailedToSetupListCxtRes ProtocolIE-ID ::= 55

id-PDUSessionResourceFailedToSetupListHOAck ProtocolIE-ID ::= 56

id-PDUSessionResourceFailedToSetupListPSReq ProtocolIE-ID ::= 57

id-PDUSessionResourceFailedToSetupListSURes ProtocolIE-ID ::= 58

id-PDUSessionResourceHandoverList ProtocolIE-ID ::= 59

id-PDUSessionResourceListCxtRelCpl ProtocolIE-ID ::= 60

id-PDUSessionResourceListHORqd ProtocolIE-ID ::= 61

id-PDUSessionResourceModifyListModCfm ProtocolIE-ID ::= 62

id-PDUSessionResourceModifyListModInd ProtocolIE-ID ::= 63

id-PDUSessionResourceModifyListModReq ProtocolIE-ID ::= 64

id-PDUSessionResourceModifyListModRes ProtocolIE-ID ::= 65

id-PDUSessionResourceNotifyList ProtocolIE-ID ::= 66

id-PDUSessionResourceReleasedListNot ProtocolIE-ID ::= 67

id-PDUSessionResourceReleasedListPSAck ProtocolIE-ID ::= 68

id-PDUSessionResourceReleasedListPSFail ProtocolIE-ID ::= 69

id-PDUSessionResourceReleasedListRelRes ProtocolIE-ID ::= 70

id-PDUSessionResourceSetupListCxtReq ProtocolIE-ID ::= 71

id-PDUSessionResourceSetupListCxtRes ProtocolIE-ID ::= 72

id-PDUSessionResourceSetupListHOReq ProtocolIE-ID ::= 73

id-PDUSessionResourceSetupListSUReq ProtocolIE-ID ::= 74

id-PDUSessionResourceSetupListSURes ProtocolIE-ID ::= 75

id-PDUSessionResourceToBeSwitchedDLList ProtocolIE-ID ::= 76

id-PDUSessionResourceSwitchedList ProtocolIE-ID ::= 77

id-PDUSessionResourceToReleaseListHOCmd ProtocolIE-ID ::= 78

id-PDUSessionResourceToReleaseListRelCmd ProtocolIE-ID ::= 79

id-PLMNSupportList ProtocolIE-ID ::= 80

id-PWSFailedCellIDList ProtocolIE-ID ::= 81

id-RANNodeName ProtocolIE-ID ::= 82

id-RANPagingPriority ProtocolIE-ID ::= 83

id-RANStatusTransfer-TransparentContainer ProtocolIE-ID ::= 84

id-RAN-UE-NGAP-ID ProtocolIE-ID ::= 85

id-RelativeAMFCapacity ProtocolIE-ID ::= 86

id-RepetitionPeriod ProtocolIE-ID ::= 87

id-ResetType ProtocolIE-ID ::= 88

id-RoutingID ProtocolIE-ID ::= 89

id-RRCEstablishmentCause ProtocolIE-ID ::= 90

id-RRCInactiveTransitionReportRequest ProtocolIE-ID ::= 91

id-RRCState ProtocolIE-ID ::= 92

id-SecurityContext ProtocolIE-ID ::= 93

id-SecurityKey ProtocolIE-ID ::= 94

id-SerialNumber ProtocolIE-ID ::= 95

id-ServedGUAMIList ProtocolIE-ID ::= 96

id-SliceSupportList ProtocolIE-ID ::= 97

id-SONConfigurationTransferDL ProtocolIE-ID ::= 98

id-SONConfigurationTransferUL ProtocolIE-ID ::= 99

id-SourceAMF-UE-NGAP-ID ProtocolIE-ID ::= 100

id-SourceToTarget-TransparentContainer ProtocolIE-ID ::= 101

id-SupportedTAList ProtocolIE-ID ::= 102

id-TAIListForPaging ProtocolIE-ID ::= 103

id-TAIListForRestart ProtocolIE-ID ::= 104

id-TargetID ProtocolIE-ID ::= 105

id-TargetToSource-TransparentContainer ProtocolIE-ID ::= 106

id-TimeToWait ProtocolIE-ID ::= 107

id-TraceActivation ProtocolIE-ID ::= 108

id-TraceCollectionEntityIPAddress ProtocolIE-ID ::= 109

id-UEAggregateMaximumBitRate ProtocolIE-ID ::= 110

id-UE-associatedLogicalNG-connectionList ProtocolIE-ID ::= 111

id-UEContextRequest ProtocolIE-ID ::= 112

id-UE-NGAP-IDs ProtocolIE-ID ::= 114

id-UEPagingIdentity ProtocolIE-ID ::= 115

id-UEPresenceInAreaOfInterestList ProtocolIE-ID ::= 116

id-UERadioCapability ProtocolIE-ID ::= 117

id-UERadioCapabilityForPaging ProtocolIE-ID ::= 118

id-UESecurityCapabilities ProtocolIE-ID ::= 119

id-UnavailableGUAMIList ProtocolIE-ID ::= 120

id-UserLocationInformation ProtocolIE-ID ::= 121

id-WarningAreaList ProtocolIE-ID ::= 122

id-WarningMessageContents ProtocolIE-ID ::= 123

id-WarningSecurityInfo ProtocolIE-ID ::= 124

id-WarningType ProtocolIE-ID ::= 125

id-AdditionalUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 126

id-DataForwardingNotPossible ProtocolIE-ID ::= 127

id-DL-NGU-UP-TNLInformation ProtocolIE-ID ::= 128

id-NetworkInstance ProtocolIE-ID ::= 129

id-PDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 130

id-PDUSessionResourceFailedToModifyListModCfm ProtocolIE-ID ::= 131

id-PDUSessionResourceFailedToSetupListCxtFail ProtocolIE-ID ::= 132

id-PDUSessionResourceListCxtRelReq ProtocolIE-ID ::= 133

id-PDUSessionType ProtocolIE-ID ::= 134

id-QosFlowAddOrModifyRequestList ProtocolIE-ID ::= 135

id-QosFlowSetupRequestList ProtocolIE-ID ::= 136

id-QosFlowToReleaseList ProtocolIE-ID ::= 137

id-SecurityIndication ProtocolIE-ID ::= 138

id-UL-NGU-UP-TNLInformation ProtocolIE-ID ::= 139

id-UL-NGU-UP-TNLModifyList ProtocolIE-ID ::= 140

id-WarningAreaCoordinates ProtocolIE-ID ::= 141

id-PDUSessionResourceSecondaryRATUsageList ProtocolIE-ID ::= 142

id-HandoverFlag ProtocolIE-ID ::= 143

id-SecondaryRATUsageInformation ProtocolIE-ID ::= 144

id-PDUSessionResourceReleaseResponseTransfer ProtocolIE-ID ::= 145

id-RedirectionVoiceFallback ProtocolIE-ID ::= 146

id-UERetentionInformation ProtocolIE-ID ::= 147

id-S-NSSAI ProtocolIE-ID ::= 148

id-PSCellInformation ProtocolIE-ID ::= 149

id-LastEUTRAN-PLMNIdentity ProtocolIE-ID ::= 150

id-MaximumIntegrityProtectedDataRate-DL ProtocolIE-ID ::= 151

id-AdditionalDLForwardingUPTNLInformation ProtocolIE-ID ::= 152

id-AdditionalDLUPTNLInformationForHOList ProtocolIE-ID ::= 153

id-AdditionalNGU-UP-TNLInformation ProtocolIE-ID ::= 154

id-AdditionalDLQosFlowPerTNLInformation ProtocolIE-ID ::= 155

id-SecurityResult ProtocolIE-ID ::= 156

id-ENDC-SONConfigurationTransferDL ProtocolIE-ID ::= 157

id-ENDC-SONConfigurationTransferUL ProtocolIE-ID ::= 158

id-OldAssociatedQosFlowList-ULendmarkerexpected ProtocolIE-ID ::= 159

id-CNTypeRestrictionsForEquivalent ProtocolIE-ID ::= 160

id-CNTypeRestrictionsForServing ProtocolIE-ID ::= 161

id-NewGUAMI ProtocolIE-ID ::= 162

id-ULForwarding ProtocolIE-ID ::= 163

id-ULForwardingUP-TNLInformation ProtocolIE-ID ::= 164

id-CNAssistedRANTuning ProtocolIE-ID ::= 165

id-CommonNetworkInstance ProtocolIE-ID ::= 166

id-NGRAN-TNLAssociationToRemoveList ProtocolIE-ID ::= 167

id-TNLAssociationTransportLayerAddressNGRAN ProtocolIE-ID ::= 168

id-EndpointIPAddressAndPort ProtocolIE-ID ::= 169

id-LocationReportingAdditionalInfo ProtocolIE-ID ::= 170

id-SourceToTarget-AMFInformationReroute ProtocolIE-ID ::= 171

id-AdditionalULForwardingUPTNLInformation ProtocolIE-ID ::= 172

id-SCTP-TLAs ProtocolIE-ID ::= 173

id-SelectedPLMNIdentity ProtocolIE-ID ::= 174

id-RIMInformationTransfer ProtocolIE-ID ::= 175

id-GUAMIType ProtocolIE-ID ::= 176

id-SRVCCOperationPossible ProtocolIE-ID ::= 177

id-TargetRNC-ID ProtocolIE-ID ::= 178

id-RAT-Information ProtocolIE-ID ::= 179

id-ExtendedRATRestrictionInformation ProtocolIE-ID ::= 180

id-QosMonitoringRequest ProtocolIE-ID ::= 181

id-SgNB-UE-X2AP-ID ProtocolIE-ID ::= 182

id-AdditionalRedundantDL-NGU-UP-TNLInformation ProtocolIE-ID ::= 183

id-AdditionalRedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 184

id-AdditionalRedundantNGU-UP-TNLInformation ProtocolIE-ID ::= 185

id-AdditionalRedundantUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 186

id-CNPacketDelayBudgetDL ProtocolIE-ID ::= 187

id-CNPacketDelayBudgetUL ProtocolIE-ID ::= 188

id-ExtendedPacketDelayBudget ProtocolIE-ID ::= 189

id-RedundantCommonNetworkInstance ProtocolIE-ID ::= 190

id-RedundantDL-NGU-TNLInformationReused ProtocolIE-ID ::= 191

id-RedundantDL-NGU-UP-TNLInformation ProtocolIE-ID ::= 192

id-RedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 193

id-RedundantQosFlowIndicator ProtocolIE-ID ::= 194

id-RedundantUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 195

id-TSCTrafficCharacteristics ProtocolIE-ID ::= 196

id-RedundantPDUSessionInformation ProtocolIE-ID ::= 197

id-UsedRSNInformation ProtocolIE-ID ::= 198

id-IAB-Authorized ProtocolIE-ID ::= 199

id-IAB-Supported ProtocolIE-ID ::= 200

id-IABNodeIndication ProtocolIE-ID ::= 201

id-NB-IoT-PagingDRX ProtocolIE-ID ::= 202

id-NB-IoT-Paging-eDRXInfo ProtocolIE-ID ::= 203

id-NB-IoT-DefaultPagingDRX ProtocolIE-ID ::= 204

id-Enhanced-CoverageRestriction ProtocolIE-ID ::= 205

id-Extended-ConnectedTime ProtocolIE-ID ::= 206

id-PagingAssisDataforCEcapabUE ProtocolIE-ID ::= 207

id-WUS-Assistance-Information ProtocolIE-ID ::= 208

id-UE-DifferentiationInfo ProtocolIE-ID ::= 209

id-NB-IoT-UEPriority ProtocolIE-ID ::= 210

id-UL-CP-SecurityInformation ProtocolIE-ID ::= 211

id-DL-CP-SecurityInformation ProtocolIE-ID ::= 212

id-TAI ProtocolIE-ID ::= 213

id-UERadioCapabilityForPagingOfNB-IoT ProtocolIE-ID ::= 214

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 215

id-NRV2XServicesAuthorized ProtocolIE-ID ::= 216

id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 217

id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 218

id-PC5QoSParameters ProtocolIE-ID ::= 219

id-AlternativeQoSParaSetList ProtocolIE-ID ::= 220

id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 221

id-CEmodeBrestricted ProtocolIE-ID ::= 222

id-EUTRA-PagingeDRXInformation ProtocolIE-ID ::= 223

id-CEmodeBSupport-Indicator ProtocolIE-ID ::= 224

id-LTEM-Indication ProtocolIE-ID ::= 225

id-EndIndication ProtocolIE-ID ::= 226

id-EDT-Session ProtocolIE-ID ::= 227

id-UECapabilityInfoRequest ProtocolIE-ID ::= 228

id-PDUSessionResourceFailedToResumeListRESReq ProtocolIE-ID ::= 229

id-PDUSessionResourceFailedToResumeListRESRes ProtocolIE-ID ::= 230

id-PDUSessionResourceSuspendListSUSReq ProtocolIE-ID ::= 231

id-PDUSessionResourceResumeListRESReq ProtocolIE-ID ::= 232

id-PDUSessionResourceResumeListRESRes ProtocolIE-ID ::= 233

id-UE-UP-CIoT-Support ProtocolIE-ID ::= 234

id-Suspend-Request-Indication ProtocolIE-ID ::= 235

id-Suspend-Response-Indication ProtocolIE-ID ::= 236

id-RRC-Resume-Cause ProtocolIE-ID ::= 237

id-RGLevelWirelineAccessCharacteristics ProtocolIE-ID ::= 238

id-W-AGFIdentityInformation ProtocolIE-ID ::= 239

id-GlobalTNGF-ID ProtocolIE-ID ::= 240

id-GlobalTWIF-ID ProtocolIE-ID ::= 241

id-GlobalW-AGF-ID ProtocolIE-ID ::= 242

id-UserLocationInformationW-AGF ProtocolIE-ID ::= 243

id-UserLocationInformationTNGF ProtocolIE-ID ::= 244

id-AuthenticatedIndication ProtocolIE-ID ::= 245

id-TNGFIdentityInformation ProtocolIE-ID ::= 246

id-TWIFIdentityInformation ProtocolIE-ID ::= 247

id-UserLocationInformationTWIF ProtocolIE-ID ::= 248

id-DataForwardingResponseERABList ProtocolIE-ID ::= 249

id-IntersystemSONConfigurationTransferDL ProtocolIE-ID ::= 250

id-IntersystemSONConfigurationTransferUL ProtocolIE-ID ::= 251

id-SONInformationReport ProtocolIE-ID ::= 252

id-UEHistoryInformationFromTheUE ProtocolIE-ID ::= 253

id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 254

id-MDTConfiguration ProtocolIE-ID ::= 255

id-PrivacyIndicator ProtocolIE-ID ::= 256

id-TraceCollectionEntityURI ProtocolIE-ID ::= 257

id-NPN-Support ProtocolIE-ID ::= 258

id-NPN-AccessInformation ProtocolIE-ID ::= 259

id-NPN-PagingAssistanceInformation ProtocolIE-ID ::= 260

id-NPN-MobilityInformation ProtocolIE-ID ::= 261

id-TargettoSource-Failure-TransparentContainer ProtocolIE-ID ::= 262

id-NID ProtocolIE-ID ::= 263

id-UERadioCapabilityID ProtocolIE-ID ::= 264

id-UERadioCapability-EUTRA-Format ProtocolIE-ID ::= 265

id-DAPSRequestInfo ProtocolIE-ID ::= 266

id-DAPSResponseInfoList ProtocolIE-ID ::= 267

id-EarlyStatusTransfer-TransparentContainer ProtocolIE-ID ::= 268

id-NotifySourceNGRANNode ProtocolIE-ID ::= 269

id-ExtendedSliceSupportList ProtocolIE-ID ::= 270

id-ExtendedTAISliceSupportList ProtocolIE-ID ::= 271

id-ConfiguredTACIndication ProtocolIE-ID ::= 272

id-Extended-RANNodeName ProtocolIE-ID ::= 273

id-Extended-AMFName ProtocolIE-ID ::= 274

id-GlobalCable-ID ProtocolIE-ID ::= 275

id-QosMonitoringReportingFrequency ProtocolIE-ID ::= 276

id-QosFlowParametersList ProtocolIE-ID ::= 277

id-QosFlowFeedbackList ProtocolIE-ID ::= 278

id-BurstArrivalTimeDownlink ProtocolIE-ID ::= 279

id-ExtendedUEIdentityIndexValue ProtocolIE-ID ::= 280

id-PduSessionExpectedUEActivityBehaviour ProtocolIE-ID ::= 281

id-MicoAllPLMN ProtocolIE-ID ::= 282

id-QosFlowFailedToSetupList ProtocolIE-ID ::= 283

id-SourceTNLAddrInfo ProtocolIE-ID ::= 284

id-ExtendedReportIntervalMDT ProtocolIE-ID ::= 285

id-SourceNodeID ProtocolIE-ID ::= 286

id-NRNTNTAIInformation ProtocolIE-ID ::= 287

id-UEContextReferenceAtSource ProtocolIE-ID ::= 288

id-LastVisitedPSCellList ProtocolIE-ID ::= 289

id-IntersystemSONInformationRequest ProtocolIE-ID ::= 290

id-IntersystemSONInformationReply ProtocolIE-ID ::= 291

id-EnergySavingIndication ProtocolIE-ID ::= 292

id-IntersystemResourceStatusUpdate ProtocolIE-ID ::= 293

id-SuccessfulHandoverReportList ProtocolIE-ID ::= 294

id-MBS-AreaSessionID ProtocolIE-ID ::= 295

id-MBS-QoSFlowsToBeSetupList ProtocolIE-ID ::= 296

id-MBS-QoSFlowsToBeSetupModList ProtocolIE-ID ::= 297

id-MBS-ServiceArea ProtocolIE-ID ::= 298

id-MBS-SessionID ProtocolIE-ID ::= 299

id-MBS-DistributionReleaseRequestTransfer ProtocolIE-ID ::= 300

id-MBS-DistributionSetupRequestTransfer ProtocolIE-ID ::= 301

id-MBS-DistributionSetupResponseTransfer ProtocolIE-ID ::= 302

id-MBS-DistributionSetupUnsuccessfulTransfer ProtocolIE-ID ::= 303

id-MulticastSessionActivationRequestTransfer ProtocolIE-ID ::= 304

id-MulticastSessionDeactivationRequestTransfer ProtocolIE-ID ::= 305

id-MulticastSessionUpdateRequestTransfer ProtocolIE-ID ::= 306

id-MulticastGroupPagingAreaList ProtocolIE-ID ::= 307

id-MBS-SupportIndicator ProtocolIE-ID ::= 309

id-MBSSessionFailedtoSetupList ProtocolIE-ID ::= 310

id-MBSSessionFailedtoSetuporModifyList ProtocolIE-ID ::= 311

id-MBSSessionSetupResponseList ProtocolIE-ID ::= 312

id-MBSSessionSetuporModifyResponseList ProtocolIE-ID ::= 313

id-MBSSessionSetupFailureTransfer ProtocolIE-ID ::= 314

id-MBSSessionSetupRequestTransfer ProtocolIE-ID ::= 315

id-MBSSessionSetupResponseTransfer ProtocolIE-ID ::= 316

id-MBSSessionToReleaseList ProtocolIE-ID ::= 317

id-MBSSessionSetupRequestList ProtocolIE-ID ::= 318

id-MBSSessionSetuporModifyRequestList ProtocolIE-ID ::= 319

id-MBS-ActiveSessionInformation-SourcetoTargetList ProtocolIE-ID ::= 323

id-MBS-ActiveSessionInformation-TargettoSourceList ProtocolIE-ID ::= 324

id-OnboardingSupport ProtocolIE-ID ::= 325

id-TimeSyncAssistanceInfo ProtocolIE-ID ::= 326

id-SurvivalTime ProtocolIE-ID ::= 327

id-QMCConfigInfo ProtocolIE-ID ::= 328

id-QMCDeactivation ProtocolIE-ID ::= 329

id-PDUSessionPairID ProtocolIE-ID ::= 331

id-NR-PagingeDRXInformation ProtocolIE-ID ::= 332

id-RedCapIndication ProtocolIE-ID ::= 333

id-TargetNSSAIInformation ProtocolIE-ID ::= 334

id-UESliceMaximumBitRateList ProtocolIE-ID ::= 335

id-M4ReportAmount ProtocolIE-ID ::= 336

id-M5ReportAmount ProtocolIE-ID ::= 337

id-M6ReportAmount ProtocolIE-ID ::= 338

id-M7ReportAmount ProtocolIE-ID ::= 339

id-IncludeBeamMeasurementsIndication ProtocolIE-ID ::= 340

id-ExcessPacketDelayThresholdConfiguration ProtocolIE-ID ::= 341

id-PagingCause ProtocolIE-ID ::= 342

id-PagingCauseIndicationForVoiceService ProtocolIE-ID ::= 343

id-PEIPSassistanceInformation ProtocolIE-ID ::= 344

id-FiveG-ProSeAuthorized ProtocolIE-ID ::= 345

id-FiveG-ProSeUEPC5AggregateMaximumBitRate ProtocolIE-ID ::= 346

id-FiveG-ProSePC5QoSParameters ProtocolIE-ID ::= 347

id-MBSSessionModificationFailureTransfer ProtocolIE-ID ::= 348

id-MBSSessionModificationRequestTransfer ProtocolIE-ID ::= 349

id-MBSSessionModificationResponseTransfer ProtocolIE-ID ::= 350

id-MBS-QoSFlowToReleaseList ProtocolIE-ID ::= 351

id-MBS-SessionTNLInfo5GC ProtocolIE-ID ::= 352

id-TAINSAGSupportList ProtocolIE-ID ::= 353

id-SourceNodeTNLAddrInfo ProtocolIE-ID ::= 354

id-NGAPIESupportInformationRequestList ProtocolIE-ID ::= 355

id-NGAPIESupportInformationResponseList ProtocolIE-ID ::= 356

id-MBS-SessionFSAIDList ProtocolIE-ID ::= 357

id-MBSSessionReleaseResponseTransfer ProtocolIE-ID ::= 358

id-ManagementBasedMDTPLMNModificationList ProtocolIE-ID ::= 359

id-EarlyMeasurement ProtocolIE-ID ::= 360

id-BeamMeasurementsReportConfiguration ProtocolIE-ID ::= 361

id-HFCNode-ID-new ProtocolIE-ID ::= 362

id-GlobalCable-ID-new ProtocolIE-ID ::= 363

id-TargetHomeENB-ID ProtocolIE-ID ::= 364

id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 365

id-ExtendedMobilityInformation ProtocolIE-ID ::= 366

id-NetworkControlledRepeaterAuthorized ProtocolIE-ID ::= 367

id-AdditionalCancelledlocationReportingReferenceIDList ProtocolIE-ID ::= 368

id-Selected-Target-SNPN-Identity ProtocolIE-ID ::= 369

id-EquivalentSNPNsList ProtocolIE-ID ::= 370

id-SelectedNID ProtocolIE-ID ::= 371

id-SupportedUETypeList ProtocolIE-ID ::= 372

id-AerialUEsubscriptionInformation ProtocolIE-ID ::= 373

id-NR-A2X-ServicesAuthorized ProtocolIE-ID ::= 374

id-LTE-A2X-ServicesAuthorized ProtocolIE-ID ::= 375

id-NR-A2X-UE-PC5-AggregateMaximumBitRate ProtocolIE-ID ::= 376

id-LTE-A2X-UE-PC5-AggregateMaximumBitRate ProtocolIE-ID ::= 377

id-A2X-PC5-QoS-Parameters ProtocolIE-ID ::= 378

id-FiveGProSeLayer2Multipath ProtocolIE-ID ::= 379

id-FiveGProSeLayer2UEtoUERelay ProtocolIE-ID ::= 380

id-FiveGProSeLayer2UEtoUERemote ProtocolIE-ID ::= 381

id-CandidateRelayUEInformationList ProtocolIE-ID ::= 382

id-SuccessfulPSCellChangeReportList ProtocolIE-ID ::= 383

id-IntersystemMobilityFailureforVoiceFallback ProtocolIE-ID ::= 384

id-TargetCellCRNTI ProtocolIE-ID ::= 385

id-TimeSinceFailure ProtocolIE-ID ::= 386

id-RANTimingSynchronisationStatusInfo ProtocolIE-ID ::= 387

id-RAN-TSSRequestType ProtocolIE-ID ::= 388

id-RAN-TSSScope ProtocolIE-ID ::= 389

id-ClockQualityReportingControlInfo ProtocolIE-ID ::= 390

id-RANfeedbacktype ProtocolIE-ID ::= 391

id-QoSFlowTSCList ProtocolIE-ID ::= 392

id-TSCTrafficCharacteristicsFeedback ProtocolIE-ID ::= 393

id-DownlinkTLContainer ProtocolIE-ID ::= 394

id-UplinkTLContainer ProtocolIE-ID ::= 395

id-ANPacketDelayBudgetUL ProtocolIE-ID ::= 396

id-QosFlowAdditionalInfoList ProtocolIE-ID ::= 397

id-AssistanceInformationQoE-Meas ProtocolIE-ID ::= 398

id-MBSCommServiceType ProtocolIE-ID ::= 399

id-MobileIAB-Authorized ProtocolIE-ID ::= 400

id-MobileIAB-MTUserLocationInformation ProtocolIE-ID ::= 401

id-MobileIABNodeIndication ProtocolIE-ID ::= 402

id-NoPDUSessionIndication ProtocolIE-ID ::= 403

id-MobileIAB-Supported ProtocolIE-ID ::= 404

id-CN-MT-CommunicationHandling ProtocolIE-ID ::= 405

id-FiveGCAction ProtocolIE-ID ::= 406

id-PagingPolicyDifferentiation ProtocolIE-ID ::= 407

id-DL-Signalling ProtocolIE-ID ::= 408

id-PNI-NPN-AreaScopeofMDT ProtocolIE-ID ::= 409

id-PNI-NPNBasedMDT ProtocolIE-ID ::= 410

id-SNPN-CellBasedMDT ProtocolIE-ID ::= 411

id-SNPN-TAIBasedMDT ProtocolIE-ID ::= 412

id-SNPN-BasedMDT ProtocolIE-ID ::= 413

id-Partially-Allowed-NSSAI ProtocolIE-ID ::= 414

id-AssociatedSessionID ProtocolIE-ID ::= 415

id-MBS-AssistanceInformation ProtocolIE-ID ::= 416

id-BroadcastTransportFailureTransfer ProtocolIE-ID ::= 417

id-BroadcastTransportRequestTransfer ProtocolIE-ID ::= 418

id-BroadcastTransportResponseTransfer ProtocolIE-ID ::= 419

id-TimeBasedHandoverInformation ProtocolIE-ID ::= 420

id-DLDiscarding ProtocolIE-ID ::= 421

id-PDUsetQoSParameters ProtocolIE-ID ::= 422

id-PDUSetbasedHandlingIndicator ProtocolIE-ID ::= 423

id-N6JitterInformation ProtocolIE-ID ::= 424

id-ECNMarkingorCongestionInformationReportingRequest ProtocolIE-ID ::= 425

id-ECNMarkingorCongestionInformationReportingStatus ProtocolIE-ID ::= 426

id-ERedCapIndication ProtocolIE-ID ::= 427

id-XrDeviceWith2Rx ProtocolIE-ID ::= 428

id-UserPlaneErrorIndicator ProtocolIE-ID ::= 429

id-SLPositioningRangingServiceInfo ProtocolIE-ID ::= 430

id-PDUSessionListMTCommHReq ProtocolIE-ID ::= 431

id-MaximumDataBurstVolume ProtocolIE-ID ::= 432

id-MN-only-MDT-collection ProtocolIE-ID ::= 433

id-MBS-NGUFailureIndication ProtocolIE-ID ::= 434

id-UserPlaneFailureIndication ProtocolIE-ID ::= 435

id-UserPlaneFailureIndicationReport ProtocolIE-ID ::= 436

id-SourceSN-to-TargetSN-QMCInfo ProtocolIE-ID ::= 437

id-QoERVQoEReportingPaths ProtocolIE-ID ::= 438

id-UserLocationInformationN3IWF-without-PortNumber ProtocolIE-ID ::= 439

id-AUN3DeviceAccessInfo ProtocolIE-ID ::= 440

id-TAIMBSSupportList ProtocolIE-ID ::= 441

id-ExtendedBackupAMFName ProtocolIE-ID ::= 442

id-ExtendedOldAMF ProtocolIE-ID ::= 443

id-InventoryRequestTransfer ProtocolIE-ID ::= 993 --to be allocated

id-InventoryResponseTransfer ProtocolIE-ID ::= 994 --to be allocated

id-InventoryFailureTransfer ProtocolIE-ID ::= 995 --to be allocated

id-InventoryReportTransfer ProtocolIE-ID ::= 996 --to be allocated

id-CommandRequestTransfer ProtocolIE-ID ::= 997 --to be allocated

id-CommandResponseTransfer ProtocolIE-ID ::= 998 --to be allocated

id-CommandFailureTransfer ProtocolIE-ID ::= 999 --to be allocated

id-AIOTSessionReleaseCommandTransfer ProtocolIE-ID ::= 1000 --to be allocated

id-AIOTSessionReleaseCompleteTransfer ProtocolIE-ID ::= 1001 --to be allocated

id-AIOTSessionReleaseRequestTransfer ProtocolIE-ID ::= 1002 --to be allocated

id-AIoT-CorrelationIdentifier ProtocolIE-ID ::= 880 --to be allocated

id-AIOTFIdentifier ProtocolIE-ID ::= 881 --to be allocated

id-AIoT-DeviceIdentificationRequested ProtocolIE-ID ::= 882 --to be allocated

id-AIoT-RequestedServiceAreaInformation ProtocolIE-ID ::= 883 --to be allocated

id-AIoT-InventoryAssistanceInformation ProtocolIE-ID ::= 884 --to be allocated

id-AIoT-FollowonCommandIndication ProtocolIE-ID ::= 885 --to be allocated

id-RAN-AIOT-Device-NGAP-ID ProtocolIE-ID ::= 886 --to be allocated

id-AIoT-CommandAssistanceInformation ProtocolIE-ID ::= 887 --to be allocated

id-AIoT-NASPDU ProtocolIE-ID ::= 888 --to be allocated

id-AIoT-Support ProtocolIE-ID ::= 890 --to be allocated

END

-- ASN1STOP

### 9.4.8 Container Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-Containers {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-Containers (5) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IE parameter types from other modules.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IMPORTS

Criticality,

Presence,

PrivateIE-ID,

ProtocolExtensionID,

ProtocolIE-ID

FROM NGAP-CommonDataTypes

maxPrivateIEs,

maxProtocolExtensions,

maxProtocolIEs

FROM NGAP-Constants;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Protocol IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-PROTOCOL-IES ::= CLASS {

&id ProtocolIE-ID UNIQUE,

&criticality Criticality,

&Value,

&presence Presence

}

WITH SYNTAX {

ID &id

CRITICALITY &criticality

TYPE &Value

PRESENCE &presence

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Protocol IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-PROTOCOL-IES-PAIR ::= CLASS {

&id ProtocolIE-ID UNIQUE,

&firstCriticality Criticality,

&FirstValue,

&secondCriticality Criticality,

&SecondValue,

&presence Presence

}

WITH SYNTAX {

ID &id

FIRST CRITICALITY &firstCriticality

FIRST TYPE &FirstValue

SECOND CRITICALITY &secondCriticality

SECOND TYPE &SecondValue

PRESENCE &presence

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Protocol Extensions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-PROTOCOL-EXTENSION ::= CLASS {

&id ProtocolExtensionID UNIQUE,

&criticality Criticality,

&Extension,

&presence Presence

}

WITH SYNTAX {

ID &id

CRITICALITY &criticality

EXTENSION &Extension

PRESENCE &presence

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Private IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-PRIVATE-IES ::= CLASS {

&id PrivateIE-ID,

&criticality Criticality,

&Value,

&presence Presence

}

WITH SYNTAX {

ID &id

CRITICALITY &criticality

TYPE &Value

PRESENCE &presence

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Protocol IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolIE-Container {NGAP-PROTOCOL-IES : IEsSetParam} ::=

SEQUENCE (SIZE (0..maxProtocolIEs)) OF

ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-SingleContainer {NGAP-PROTOCOL-IES : IEsSetParam} ::=

ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {NGAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {

id NGAP-PROTOCOL-IES.&id ({IEsSetParam}),

criticality NGAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),

value NGAP-PROTOCOL-IES.&Value ({IEsSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Protocol IE Pairs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolIE-ContainerPair {NGAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=

SEQUENCE (SIZE (0..maxProtocolIEs)) OF

ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {NGAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {

id NGAP-PROTOCOL-IES-PAIR.&id ({IEsSetParam}),

firstCriticality NGAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}),

firstValue NGAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),

secondCriticality NGAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),

secondValue NGAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container Lists for Protocol IE Containers

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NGAP-PROTOCOL-IES : IEsSetParam} ::=

SEQUENCE (SIZE (lowerBound..upperBound)) OF

ProtocolIE-SingleContainer {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NGAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=

SEQUENCE (SIZE (lowerBound..upperBound)) OF

ProtocolIE-ContainerPair {{IEsSetParam}}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Protocol Extensions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolExtensionContainer {NGAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=

SEQUENCE (SIZE (1..maxProtocolExtensions)) OF

ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField {NGAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {

id NGAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),

criticality NGAP-PROTOCOL-EXTENSION.&criticality ({ExtensionSetParam}{@id}),

extensionValue NGAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Private IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PrivateIE-Container {NGAP-PRIVATE-IES : IEsSetParam } ::=

SEQUENCE (SIZE (1..maxPrivateIEs)) OF

PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {NGAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {

id NGAP-PRIVATE-IES.&id ({IEsSetParam}),

criticality NGAP-PRIVATE-IES.&criticality ({IEsSetParam}{@id}),

value NGAP-PRIVATE-IES.&Value ({IEsSetParam}{@id})

}

END

-- ASN1STOP

***-----------------End of the Changes-----------------***