**3GPP TSG-RAN WG3 Meeting #129R3-25xxxx**

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

**Agenda Item: 19.2**

**Source: Huawei, China Telecom, China Unicom, Samsung**

**Title: (TP to BL CR for TS 38.423) Miscellaneous clean-ups for Evolution of SBFD**

**Document for: Discussion**

# 1 Introduction

This TP tries to reflect the following proposals as follows:

* **Remove the Editor’s Note in section 8.4.y CLI Indication procedure about the procedure text, and update the message name in figure to CLI INDICATION.**
* **Agree that the semantics description of the SBFD Frequency Configuration IE added to the Served Cell Information NR IE in the BLCR to TS38.423 reference the SBFD-Subband-Allocation-r19 IE defined in TS38.331.**
* **Update the description of NZP CSI-RS Resource Indication IE in XnAP CR and CRI IE in F1AP CR to clarify the value is a relative index of the CSI-RS resources within the set of resources signalled.**

# 2 Reference

1. R3-255679, Further discussion on remaining open issues for SBFD, Huawei, China Telecom, China Unicom

# Annex TP to BL CR of TS 38.423

**=============================Start of change==============================**

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5QI 5G QoS Identifier

AI Artificial Intelligence

AMF Access and Mobility Management Function

A2X Aircraft-to-Everything

BH Backhaul

CAG Closed Access Group

CGI Cell Global Identifier

CHO Conditional Handover

CLI Cross Link Interference

CP Control Plane

CPA Conditional PSCell Addition

CPAC Conditional PSCell Addition or Change

CPC Conditional PSCell Change

DAPS Dual Active Protocol Stack

DL Downlink

EN-DC E-UTRA-NR Dual Connectivity

**=============================Next change==============================**

8.1 Elementary procedures

In the following tables, all EPs are divided into Class 1 and Class 2 EPs.

**Table 8.1-1: Class 1 Elementary Procedures**

| **Elementary Procedure** | **Initiating Message** | **Successful Outcome** | **Unsuccessful Outcome** |
| --- | --- | --- | --- |
| **Response message** | **Response message** |
| Handover Preparation | HANDOVER REQUEST | HANDOVER REQUEST ACKNOWLEDGE | HANDOVER PREPARATION FAILURE |
| Retrieve UE Context | RETRIEVE UE CONTEXT REQUEST | RETRIEVE UE CONTEXT RESPONSE | RETRIEVE UE CONTEXT FAILURE |
| S-NG-RAN node Addition Preparation | S-NODE ADDITION REQUEST | S-NODE ADDITION REQUEST ACKNOWLEDGE | S-NODE ADDITION REQUEST REJECT |
| M-NG-RAN node initiated S-NG-RAN node Modification Preparation | S-NODE MODIFICATION REQUEST | S-NODE MODIFICATION REQUEST ACKNOWLEDGE | S-NODE MODIFICATION REQUEST REJECT |
| S-NG-RAN node initiated S-NG-RAN node Modification | S-NODE MODIFICATION REQUIRED | S-NODE MODIFICATION CONFIRM | S-NODE MODIFICATION REFUSE |
| S-NG-RAN node initiated S-NG-RAN node CHANGE | S-NODE CHANGE REQUIRED | S-NODE CHANGE CONFIRM | S-NODE CHANGE REFUSE |
| M-NG-RAN node initiated S-NG-RAN node Release | S-NODE RELEASE REQUEST | S-NODE RELEASE REQUEST ACKNOWLEDGE | S-NODE RELEASE REJECT |
| S-NG-RAN node initiated S-NG-RAN node Release | S-NODE RELEASE REQUIRED | S-NODE RELEASE CONFIRM |  |
| Xn Setup | XN SETUP REQUEST | XN SETUP RESPONSE | XN SETUP FAILURE |
| NG-RAN node Configuration Update | NG-RAN NODE CONFIGURATION UPDATE | NG-RAN NODE CONFIGURATION UPDATE ACKNOWLEDGE | NG-RAN NODE CONFIGURATION UPDATE FAILURE |
| Cell Activation | CELL ACTIVATION REQUEST | CELL ACTIVATION RESPONSE | CELL ACTIVATION FAILURE |
| Reset | RESET REQUEST | RESET RESPONSE |  |
| Xn Removal | XN REMOVAL REQUEST | XN REMOVAL RESPONSE | XN REMOVAL FAILURE |
| E-UTRA - NR Cell Resource Coordination | E-UTRA - NR CELL RESOURCE COORDINATION REQUEST | E-UTRA - NR CELL RESOURCE COORDINATION RESPONSE |  |
| Resource Status Reporting Initiation | RESOURCE STATUS REQUEST | RESOURCE STATUS RESPONSE | RESOURCE STATUS FAILURE |
| Mobility Settings Change | MOBILITY CHANGE REQUEST | MOBILITY CHANGE ACKNOWLEDGE | MOBILITY CHANGE FAILURE |
| IAB Transport Migration Management | IAB TRANSPORT MIGRATION MANAGEMENT REQUEST | IAB TRANSPORT MIGRATION MANAGEMENT RESPONSE | IAB TRANSPORT MIGRATION MANAGEMENT REJECT |
| IAB Transport Migration Modification | IAB TRANSPORT MIGRATION MODIFICATION REQUEST | IAB TRANSPORT MIGRATION MODIFICATION RESPONSE |  |
| IAB Resource Coordination | IAB RESOURCE COORDINATION REQUEST | IAB RESOURCE COORDINATION RESPONSE |  |
| Partial UE Context Transfer | PARTIAL UE CONTEXT TRANSFER | PARTIAL UE CONTEXT TRANSFER ACKNOWLEDGE | PARTIAL UE CONTEXT TRANSFER FAILURE |
| Data Collection Reporting Initiation | DATA COLLECTION REQUEST | DATA COLLECTION RESPONSE | DATA COLLECTION FAILURE |

**Table 8.1-2: Class 2 Elementary Procedures**

| **Elementary Procedure** | **Initiating Message** |
| --- | --- |
| Handover Cancel | HANDOVER CANCEL |
| SN Status Transfer | SN STATUS TRANSFER |
| RAN Paging | RAN PAGING |
| Xn-U Address Indication | XN-U ADDRESS INDICATION |
| S-NG-RAN node Reconfiguration Completion | S-NODE RECONFIGURATION COMPLETE |
| S-NG-RAN node Counter Check | S-NODE COUNTER CHECK REQUEST |
| UE Context Release | UE CONTEXT RELEASE |
| RRC Transfer | RRC TRANSFER |
| Error Indication | ERROR INDICATION |
| Notification Control Indication | NOTIFICATION CONTROL INDICATION |
| Activity Notification | ACTIVITY NOTIFICATION |
| Secondary RAT Data Usage Report | SECONDARY RAT DATA USAGE REPORT |
| Trace Start | TRACE START |
| Deactivate Trace | DEACTIVATE TRACE |
| Handover Success | HANDOVER SUCCESS |
| Conditional Handover Cancel | CONDITIONAL HANDOVER CANCEL |
| Early Status Transfer | EARLY STATUS TRANSFER |
| Failure Indication | FAILURE INDICATION |
| Handover Report | HANDOVER REPORT |
| Resource Status Reporting | RESOURCE STATUS UPDATE |
| Access And Mobility Indication | ACCESS AND MOBILITY INDICATION |
| Cell Traffic Trace | CELL TRAFFIC TRACE |
| RAN Multicast Group Paging | RAN MULTICAST GROUP PAGING |
| SCG Failure Information Report | SCG FAILURE INFORMATION REPORT |
| SCG Failure Transfer | SCG FAILURE TRANSFER |
| F1-C Traffic Transfer | F1-C TRAFFIC TRANSFER |
| Retrieve UE Context Confirm | RETRIEVE UE CONTEXT CONFIRM |
| Conditional PSCell Change Cancel | CONDITIONAL PSCELL CHANGE CANCEL |
| RACH Indication | RACH INDICATION |
| Data Collection Reporting | DATA COLLECTION UPDATE |
| CLI Indication | CLI INDICATION |

**=============================Next change==============================**

8.4.y CLI Indication

8.4.y.1 General

The purpose of the CLI Indication procedure is to transfer CLI related information between NG-RAN nodes.

The procedure uses non UE-associated signalling.

8.4.y.2 Successful Operation

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**Figure 8.4.y.2-1: CLI Indication, successful operation**

NG-RAN node1 initiates the procedure by sending the CLI INDICATION message toNG-RAN node2.

If the CLI INDICATION message is received, the NG-RAN node2 may act as specified in TS38.300 [9].

**=============================Next change==============================**

9.1.3.y CLI INDICATION

This message is sent by NG-RAN node1 to NG-RAN node2 to report the results of the CLI measurements.

Direction: NG-RAN node1 → NG-RAN node2.

| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.2.3.1 |  | YES | ignore |
| **CLI Measurement Result** |  | *1* |  |  | YES | ignore |
| **>CLI Measurement Result Item** |  | *1 .. < maxnoofCellsinNG-RANnode >* |  |  | YES | ignore |
| >>Cell ID | M |  | Global NG-RAN Cell Identity  9.2.2.27 |  | – |  |
| >>SSB index | O |  | INTEGER (0..63) | Strongest DL SSB beam information | – |  |
| >>NZP CSI-RS Resource Indication | O |  | INTEGER (1..64) | Strongest DL NZP CSI-RS beam information. The value is a relative index of the CSI-RS resources within the set of resources signalled. | – |  |
| >>CLI Mitigation Indication | O |  | ENUMERATED (true, …) | Indicates to request CLI mitigation | – |  |

|  |  |
| --- | --- |
| **Range bound** | **Explanation** |
| maxnoofCellsinNG-RANnode | Maximum no. cells that can be served by a NG-RAN node. Value is 16384. |

**=============================Next change==============================**

9.2.2.11 Served Cell Information NR

This IE contains cell configuration information of an NR cell that a neighbouring NG-RAN node may need for the Xn AP interface.

| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| --- | --- | --- | --- | --- | --- | --- |
| NR-PCI | M |  | INTEGER (0..1007, …) | NR Physical Cell ID | – |  |
| NR CGI | M |  | 9.2.2.7 |  | – |  |
| TAC | M |  | 9.2.2.5 | Tracking Area Code | – |  |
| RANAC | O |  | RAN Area Code  9.2.2.6 |  | – |  |
| **Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs contained in the *SIB1* message as specified in TS 38.331[10], associated to the NR Cell Identity in the *NR CGI* IE. | – |  |
| >PLMN Identity | M |  | 9.2.2.4 |  | – |  |
| CHOICE *NR-Mode-Info* | M |  |  |  | – |  |
| >*FDD* |  |  |  |  |  |  |
| >>**FDD Info** |  | *1* |  |  | – |  |
| >>>UL NR Frequency Info | M |  | NR Frequency Info  9.2.2.19 | This IE is ignored for NR operating bands for which uplink range of NREF is not defined in section 5.4.2.3 of TS 38.104 [24]. | – |  |
| >>>DL NR Frequency Info | M |  | NR Frequency Info  9.2.2.19 |  | – |  |
| >>>UL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 | This IE is ignored for NR operating bands for which uplink range of NREF is not defined in section 5.4.2.3 of TS 38.104 [24]. | – |  |
| >>>DL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| >>>UL Carrier List | O |  | NR Carrier List  9.2.2.63 | If included, the *UL Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| >>>DL Carrier List | O |  | NR Carrier List  9.2.2.63 | If included, the *DL Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| >>>gNB-DU Cell Resource Configuration-FDD-UL | O |  | gNB-DU Cell Resource Configuration  9.2.2.95 | Contains FDD UL resource configuration of gNB-DU’s cell. Only applicable if the gNB-DU is an IAB-DU or an IAB-donor-DU. | YES | ignore |
| >>>gNB-DU Cell Resource Configuration-FDD-DL | O |  | gNB-DU Cell Resource Configuration  9.2.2.95 | Contains FDD DL resource configuration of gNB-DU’s cell. Only applicable if the gNB-DU is an IAB-DU or an IAB-donor-DU. | YES | ignore |
| >*TDD* |  |  |  |  |  |  |
| >>**TDD Info** |  | *1* |  |  | – |  |
| >>>Frequency Info | M |  | NR Frequency Info  9.2.2.19 |  | – |  |
| >>>Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 | This IE is ignored if the *Transmission Bandwidth asymmetric* IE is present. | – |  |
| >>>Intended TDD DL-UL Configuration NR | O |  | 9.2.2.40 |  | YES | ignore |
| >>>TDD UL-DL Configuration Common NR | O |  | OCTET STRING | Includes the *tdd-UL-DL-ConfigurationCommon* contained in the *SIB1* message as defined in TS 38.331 [10] | YES | ignore |
| >>>Carrier List | O |  | NR Carrier List  9.2.2.63 | If included, the *Transmission Bandwidth* IE shall be ignored. | YES | ignore |
| >>>gNB-DU Cell Resource Configuration-TDD | O |  | gNB-DU Cell Resource Configuration  9.2.2.95 | Contains TDD resource configuration of gNB-DU’s cell. Only applicable if the gNB-DU is an IAB-DU or an IAB-donor-DU. | YES | ignore |
| **>>>Transmission Bandwidth asymmetric** |  | *0..1* |  | Indicates the asymmetric UL and DL transmission bandwidth. | YES | ignore |
| >>>>UL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| >>>>DL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| >>>SBFD Frequency Configuration | O |  | OCTET STRING | Includes the *SBFD-Subband-Allocation-r19* IE, as defined in TS38.331[10]. | YES | ignore |
| Measurement Timing Configuration | M |  | OCTET STRING | Includes the *MeasurementTimingConfiguration* inter-node message for the served cell, as defined in TS 38.331 [10]. | – |  |
| Connectivity Support | M |  | 9.2.2.28 |  | – |  |
| **Broadcast PLMN Identity Info List NR** |  | *0..<maxnoofBPLMNs>* |  | This IE corresponds to information provided in the *PLMN-IdentityInfoList* IE and the *NPN-IdentityInfoList* IE (if available) in *SIB1* as specified in TS 38.331 [10]. All PLMN Identities and associated information contained in the *PLMN-IdentityInfoList* IE and NPN identities and associated information contained in the *NPN-IdentityInfoList* IE (if available) are included and provided in the same order as broadcast in the *SIB1* message.  NOTE: In case of NPN-only cell, the PLMN Identities and associated information contained in the *PLMN-IdentityInfoList* IE are not included. | YES | ignore |
| **>****Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs in the *SIB1* message, associated to the *NR Cell Identity* IE. | – |  |
| >>PLMN Identity | M |  | 9.2.2.4 |  | – |  |
| >TAC | M |  | 9.2.2.5 |  | – |  |
| >NR Cell Identity | M |  | BIT STRING (SIZE(36)) |  | – |  |
| >RANAC | O |  | RAN Area Code  9.2.2.6 |  | – |  |
| >Configured TAC Indication | O |  | 9.2.2.39a | NOTE: This IE is associated with the TAC in the *Broadcast PLMN Identity Info List NR* IE | YES | ignore |
| >NPN Broadcast Information | O |  | 9.2.2.71 | If this IE is included the content of the *Broadcast PLMNs* IE in the *Broadcast PLMN Identity Info List NR* IE is ignored. | YES | reject |
| Configured TAC Indication | O |  | 9.2.2.39a | NOTE: This IE is associated with the TAC on top-level of the *Served Cell Information NR* IE | YES | ignore |
| NPN Broadcast Information | O |  | 9.2.2.71 | If this IE is included the content of the *Broadcast PLMNs* IE in the top *Served Cell Information NR* IE is ignored. | YES | reject |
| SSB Positions In Burst | O |  | 9.2.2.64 |  | YES | ignore |
| NR Cell PRACH Configuration | O |  | OCTET STRING | Includes the *NR Cell PRACH Configuration* IE as defined in section 9.3.1.139 in TS 38.473 [41]. | YES | ignore |
| CSI-RS Transmission Indication | O |  | ENUMERATED (activated, deactivated, ...) | This IE indicates the CSI-RS transmission status of the given cell.  If the *Additional Measurement Timing Configuration List* IE is present, this IE is ignored. | YES | ignore |
| SFN Offset | O |  | 9.2.2.75 |  | YES | ignore |
| **Supported MBS FSA ID List** |  | *0..<maxnoofMBSFSAs>* |  | Shall contain all MBS Frequency Selection Area Identities associated to the NR Cell Identity in the *NR CGI* IE. | YES | ignore |
| >MBS Frequency Selection Area Identity | M |  | OCTET STRING(3) | Corresponds to information provided in the *MBS-FSAI* IE as defined in TS 38.331 [10]. | – |  |
| **NR-U Channel Info List** |  | *0..1* |  |  | YES | ignore |
| **>NR-U Channel Info Item** |  | *1..<maxnoofNR-UChannelIDs>* |  |  | – |  |
| >>NR-U Channel ID | M |  | INTEGER (1.. maxnoofNR-UChannelIDs, …) | Index to uniquely identify the part of the NR-U Channel Bandwidth consisting of a contiguous set of resource blocks (RBs) on which a channel access procedure is performed in shared spectrum.  Value 1 represents the first part of the NR-U Channel Bandwidth on which a channel access procedure is performed. Value 2 represents the second part of the NR-U Channel Bandwidth on which a channel access procedure is performed, and so on. | – |  |
| >>NR ARFCN | M |  | INTEGER (0.. maxNRARFCN) | It represents the centre frequency of the NR-U Channel Bandwidth for NR bands restricted to operation with shared spectrum channel access, as defined in TS 37.213 [51]. Allowed values are specified in 38.101-1 [52] in Table 5.4.2.3-2, Table 5.4.2.3-3 and Table 5.4.2.3-4. | – |  |
| >>Bandwidth | M |  | ENUMERATED (10MHz, 20MHz, 40MHz, 60MHz, 80MHz, …,100MHz) |  | – |  |
| **Additional Measurement Timing Configuration List** | O | *1 .. <maxnoofMTCItems>* |  |  | YES | ignore |
| >Measurement Timing Configuration Index | M |  | INTEGER (0..16) | “0” refers to the configuration contained in the Measurement Timing Configuration IE.  Any value between “1” and “16” refers to a configuration within the *Additional Measurement Timing Configuration List* IE. | – |  |
| >**CSI- RS MTC Configuration List** | M | *1 .. <maxnoofCSIRSconfigurations*> |  | This list explicitly expresses the CSI-RS configurations contained in the MTC | – |  |
| >>CSI-RS Index | M |  | INTEGER (0..95) | Index of CSI-RS as in MTC | – |  |
| >>CSI-RS Status | M |  | ENUMERATED (activated, deactivated, …) | This IE indicates the CSI-RS transmission status of the configuration. | – |  |
| >>**CSI-RS Neighbour List** | O | *1 .. <maxnoofCSIRSneighbourCells>* |  | This list expresses the cells and CSI-RSs neighbouring the CSI-RS in the *CSI-RS Index* IE. | – |  |
| >>>NR CGI | M |  | 9.2.2.7 |  | – |  |
| >>>**CSI-RS MTC Neighbour List** | O | *1 .. < maxnoofCSIRSneighbourCellsInMT*C> |  | This list expresses the CSI-RSs served by the NR CGI, which are neighbouring the CSI-RS of the served cell and contained in the MTC indicated by the neighbouring NR cell. | – |  |
| >>>>CSI-RS Index | M |  | INTEGER (0..95) |  | – |  |
| RedCap Broadcast Information | O |  | BIT STRING (SIZE(8)) | The presence of this IE indicates that the *intraFreqReselectionRedC*ap is broadcast in the *SIB1* message of the corresponding cell, see TS 38.331 [10].  Each position in the bitmap indicates which RedCap UEs are allowed access, according to the setting of RedCap barring indicators in the *SIB1* message, see TS 38.331 [10].  First bit = 1Rx,  second bit = 2Rx,  third bit = halfDuplex,  other bits reserved for future use. Value '1' indicates 'access allowed'. Value '0' indicates 'access not allowed”. | YES | ignore |
| eRedCap Broadcast Information | O |  | BIT STRING (SIZE(8)) | The presence of this IE indicates that the *intraFreqReselection-eRedCap* IE is broadcast in SIB1 of the corresponding cell, see TS 38.331 [10].  Each position in the bitmap indicates which eRedCap UEs are allowed access, according to the setting of the barring indicators in SIB1, see TS 38.331 [10].  First bit = 1Rx,  second bit = 2Rx,  third bit = half-duplex,  other bits reserved for future use. Value '1' indicates 'access allowed'. Value '0' indicates 'access not allowed'. | YES | ignore |
| Mobile IAB Cell | O |  | 9.2.2.106 |  | YES | ignore |
| XR Broadcast Information | O |  | ENUMERATED (true, …) | Corresponds to information provided in the *cellBarred2RxXR* contained in the *SIB1* message as defined in TS 38.331 [10]. | YES | ignore |
| Barring Exemption for Emergency Call Information | O |  | ENUMERATED (true, ...) | Corresponds to information provided in the *barringExemptEmergencyCall* contained in the *SIB1* message as defined in 38.331 [10]. | YES | ignore |
| NZP CSI-RS Resources Configuration | O |  | 9.2.2.x2 |  | YES | ignore |

| **Range bound** | **Explanation** |
| --- | --- |
| maxnoofBPLMNs | Maximum no. of broadcast PLMNs by a cell. Value is 12. |
| maxnoofMBSFSAs | Maximum no. of MBS FSAs by one gNB. Value is 256. |
| maxnoofNR-UChannelIDs | Maximum no. NR-U channel IDs in a cell. Value is 16. |
| maxnoofMTCItems | Maximum no. of measurement timing configurations associated with the neighbour cell. Value is 16. |
| maxnoofCSIRSconfigurations | Maximum number of CSI RS configurations reported in the MTC. Value is 96 |
| maxnoofCSIRSneighbourCells | Maximum number of cells neighbouring a CSI-RS coverage area. Value is 16 |
| maxnoofCSIRSneighbourCellsInMTC | Maximum number of CSI-RS coverage areas neighbouring a specific CSI-RS coverage area. Value is 16 |

**=============================Next change==============================**

9.2.2.x2 NZP CSI-RS Resources Configuration

This IE contains the NZP CSI-RS resources configuration of an NR cell.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** |
| NZP-CSI-RS-ResourceSet | M |  | OCTET STRING | Includes the *NZP-CSI-RS-ResourceSet* IE, as defined in TS 38.331 [10]. |
| **NZP-CSI-RS-Resource List** |  | *1* |  |  |
| **>NZP-CSI-RS-Resource Item** |  | *1..<maxnoofNZP-CSI-RS-ResourcesPerSet>* |  |  |
| >>NZP-CSI-RS-Resource | M |  | OCTET STRING | Includes the *NZP-CSI-RS-Resource* IE, as defined in TS 38.331 [10]. |

|  |  |
| --- | --- |
| **Range bound** | **Explanation** |
| maxnoofNZP-CSI-RS-ResourcesPerSet | Maximum no. of NZP CSI-RS resources per resource set. Value is 64. |

**=============================Next change==============================**

9.3 Message and Information Element Abstract Syntax (with ASN.1)

9.3.1 General

XnAP ASN.1 definition conforms to ITU-T Rec. X.680 [16] and ITU-T Rec. X.681 [17].

Sub clause 9.3 presents the Abstract Syntax of the XnAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this sub clause and the tabular format in sub clause 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, in which the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of XnAP messages. XnAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct an XnAP message according to the PDU definitions module and with the following additional rules:

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.

- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list in which the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

NOTE: In the above, "IE" means an IE in the object set with an explicit ID. If one IE needs to appear more than once in one object set, then the different occurrences have different IE IDs.

If an XnAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in clause 10.

9.3.2 Usage of Private Message Mechanism for Non-standard Use

The private message mechanism for non-standard use may be used:

- for special operator (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multivendor inter-operability.

- by vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation.

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

9.3.3 Elementary Procedure Definitions

-- ASN1START

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

--

-- Elementary Procedure definitions

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

XnAP-PDU-Descriptions {

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

ngran-access (22) modules (3) xnap (2) version1 (1) xnap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

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-- IE parameter types from other modules.

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

IMPORTS

Criticality,

ProcedureCode

FROM XnAP-CommonDataTypes

HandoverRequest,

HandoverRequestAcknowledge,

HandoverPreparationFailure,

SNStatusTransfer,

UEContextRelease,

HandoverCancel,

NotificationControlIndication,

RANPaging,

RetrieveUEContextRequest,

RetrieveUEContextResponse,

RetrieveUEContextConfirm,

RetrieveUEContextFailure,

XnUAddressIndication,

SecondaryRATDataUsageReport,

SNodeAdditionRequest,

SNodeAdditionRequestAcknowledge,

SNodeAdditionRequestReject,

SNodeReconfigurationComplete,

SNodeModificationRequest,

SNodeModificationRequestAcknowledge,

SNodeModificationRequestReject,

SNodeModificationRequired,

SNodeModificationConfirm,

SNodeModificationRefuse,

SNodeReleaseRequest,

SNodeReleaseRequestAcknowledge,

SNodeReleaseReject,

SNodeReleaseRequired,

SNodeReleaseConfirm,

SNodeCounterCheckRequest,

SNodeChangeRequired,

SNodeChangeConfirm,

SNodeChangeRefuse,

RRCTransfer,

XnRemovalRequest,

XnRemovalResponse,

XnRemovalFailure,

XnSetupRequest,

XnSetupResponse,

XnSetupFailure,

NGRANNodeConfigurationUpdate,

NGRANNodeConfigurationUpdateAcknowledge,

NGRANNodeConfigurationUpdateFailure,

E-UTRA-NR-CellResourceCoordinationRequest,

E-UTRA-NR-CellResourceCoordinationResponse,

ActivityNotification,

CellActivationRequest,

CellActivationResponse,

CellActivationFailure,

ResetRequest,

ResetResponse,

ErrorIndication,

PrivateMessage,

DeactivateTrace,

TraceStart,

HandoverSuccess,

ConditionalHandoverCancel,

EarlyStatusTransfer,

FailureIndication,

HandoverReport,

ResourceStatusRequest,

ResourceStatusResponse,

ResourceStatusFailure,

ResourceStatusUpdate,

MobilityChangeRequest,

MobilityChangeAcknowledge,

MobilityChangeFailure,

AccessAndMobilityIndication,

CellTrafficTrace,

RANMulticastGroupPaging,

ScgFailureInformationReport,

ScgFailureTransfer,

F1CTrafficTransfer,

IABTransportMigrationManagementRequest,

IABTransportMigrationManagementResponse,

IABTransportMigrationManagementReject,

IABTransportMigrationModificationRequest,

IABTransportMigrationModificationResponse,

IABResourceCoordinationRequest,

IABResourceCoordinationResponse,

CPCCancel,

PartialUEContextTransfer,

PartialUEContextTransferAcknowledge,

PartialUEContextTransferFailure,

RachIndication,

DataCollectionRequest,

DataCollectionResponse,

DataCollectionFailure,

DataCollectionUpdate,

CLI-Indication

FROM XnAP-PDU-Contents

id-handoverPreparation,

id-sNStatusTransfer,

id-handoverCancel,

id-notificationControl,

id-retrieveUEContext,

id-rANPaging,

id-xnUAddressIndication,

id-uEContextRelease,

id-secondaryRATDataUsageReport,

id-sNGRANnodeAdditionPreparation,

id-sNGRANnodeReconfigurationCompletion,

id-mNGRANnodeinitiatedSNGRANnodeModificationPreparation,

id-sNGRANnodeinitiatedSNGRANnodeModificationPreparation,

id-mNGRANnodeinitiatedSNGRANnodeRelease,

id-sNGRANnodeinitiatedSNGRANnodeRelease,

id-sNGRANnodeCounterCheck,

id-sNGRANnodeChange,

id-activityNotification,

id-rRCTransfer,

id-xnRemoval,

id-xnSetup,

id-nGRANnodeConfigurationUpdate,

id-e-UTRA-NR-CellResourceCoordination,

id-cellActivation,

id-reset,

id-errorIndication,

id-privateMessage,

id-deactivateTrace,

id-traceStart,

id-handoverSuccess,

id-conditionalHandoverCancel,

id-earlyStatusTransfer,

id-failureIndication,

id-handoverReport,

id-resourceStatusReportingInitiation,

id-resourceStatusReporting,

id-mobilitySettingsChange,

id-accessAndMobilityIndication,

id-cellTrafficTrace,

id-RANMulticastGroupPaging,

id-scgFailureInformationReport,

id-scgFailureTransfer,

id-f1CTrafficTransfer,

id-iABTransportMigrationManagement,

id-iABTransportMigrationModification,

id-iABResourceCoordination,

id-retrieveUEContextConfirm,

id-cPCCancel,

id-partialUEContextTransfer,

id-rachIndication,

id-dataCollectionReportingInitiation,

id-dataCollectionReporting,

id-cLI-Indication

FROM XnAP-Constants;

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

--

-- Interface Elementary Procedure Class

--

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

XNAP-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

--

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

XnAP-PDU ::= CHOICE {

initiatingMessage InitiatingMessage,

successfulOutcome SuccessfulOutcome,

unsuccessfulOutcome UnsuccessfulOutcome,

...

}

InitiatingMessage ::= SEQUENCE {

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

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

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

}

SuccessfulOutcome ::= SEQUENCE {

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

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

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

}

UnsuccessfulOutcome ::= SEQUENCE {

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

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

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

}

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

--

-- Interface Elementary Procedure List

--

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

XNAP-ELEMENTARY-PROCEDURES XNAP-ELEMENTARY-PROCEDURE ::= {

XNAP-ELEMENTARY-PROCEDURES-CLASS-1 |

XNAP-ELEMENTARY-PROCEDURES-CLASS-2 ,

...

}

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

handoverPreparation |

retrieveUEContext |

sNGRANnodeAdditionPreparation |

mNGRANnodeinitiatedSNGRANnodeModificationPreparation |

sNGRANnodeinitiatedSNGRANnodeModificationPreparation |

mNGRANnodeinitiatedSNGRANnodeRelease |

sNGRANnodeinitiatedSNGRANnodeRelease |

sNGRANnodeChange |

xnRemoval |

xnSetup |

nGRANnodeConfigurationUpdate |

e-UTRA-NR-CellResourceCoordination |

cellActivation |

reset |

resourceStatusReportingInitiation |

mobilitySettingsChange |

iABTransportMigrationManagement |

iABTransportMigrationModification |

iABResourceCoordination |

partialUEContextTransfer |

dataCollectionReportingInitiation |

cLI-Indication,

...

}

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

sNStatusTransfer |

handoverCancel |

rANPaging |

xnUAddressIndication |

uEContextRelease |

sNGRANnodeReconfigurationCompletion |

sNGRANnodeCounterCheck |

rRCTransfer |

errorIndication |

privateMessage |

notificationControl |

activityNotification |

secondaryRATDataUsageReport |

deactivateTrace |

traceStart |

handoverSuccess |

conditionalHandoverCancel |

earlyStatusTransfer |

failureIndication |

handoverReport |

resourceStatusReporting |

accessAndMobilityIndication |

cellTrafficTrace |

rANMulticastGroupPaging |

scgFailureInformationReport |

scgFailureTransfer |

f1CTrafficTransfer |

retrieveUEContextConfirm |

cPCCancel |

rachIndication |

dataCollectionReporting,

...

}

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

--

-- Interface Elementary Procedures

--

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

handoverPreparation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverRequest

SUCCESSFUL OUTCOME HandoverRequestAcknowledge

UNSUCCESSFUL OUTCOME HandoverPreparationFailure

PROCEDURE CODE id-handoverPreparation

CRITICALITY reject

}

sNStatusTransfer XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNStatusTransfer

PROCEDURE CODE id-sNStatusTransfer

CRITICALITY ignore

}

handoverCancel XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverCancel

PROCEDURE CODE id-handoverCancel

CRITICALITY ignore

}

retrieveUEContext XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RetrieveUEContextRequest

SUCCESSFUL OUTCOME RetrieveUEContextResponse

UNSUCCESSFUL OUTCOME RetrieveUEContextFailure

PROCEDURE CODE id-retrieveUEContext

CRITICALITY reject

}

rANPaging XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RANPaging

PROCEDURE CODE id-rANPaging

CRITICALITY reject

}

xnUAddressIndication XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE XnUAddressIndication

PROCEDURE CODE id-xnUAddressIndication

CRITICALITY reject

}

uEContextRelease XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextRelease

PROCEDURE CODE id-uEContextRelease

CRITICALITY reject

}

sNGRANnodeAdditionPreparation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeAdditionRequest

SUCCESSFUL OUTCOME SNodeAdditionRequestAcknowledge

UNSUCCESSFUL OUTCOME SNodeAdditionRequestReject

PROCEDURE CODE id-sNGRANnodeAdditionPreparation

CRITICALITY reject

}

sNGRANnodeReconfigurationCompletion XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeReconfigurationComplete

PROCEDURE CODE id-sNGRANnodeReconfigurationCompletion

CRITICALITY reject

}

mNGRANnodeinitiatedSNGRANnodeModificationPreparation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeModificationRequest

SUCCESSFUL OUTCOME SNodeModificationRequestAcknowledge

UNSUCCESSFUL OUTCOME SNodeModificationRequestReject

PROCEDURE CODE id-mNGRANnodeinitiatedSNGRANnodeModificationPreparation

CRITICALITY reject

}

sNGRANnodeinitiatedSNGRANnodeModificationPreparation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeModificationRequired

SUCCESSFUL OUTCOME SNodeModificationConfirm

UNSUCCESSFUL OUTCOME SNodeModificationRefuse

PROCEDURE CODE id-sNGRANnodeinitiatedSNGRANnodeModificationPreparation

CRITICALITY reject

}

mNGRANnodeinitiatedSNGRANnodeRelease XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeReleaseRequest

SUCCESSFUL OUTCOME SNodeReleaseRequestAcknowledge

UNSUCCESSFUL OUTCOME SNodeReleaseReject

PROCEDURE CODE id-mNGRANnodeinitiatedSNGRANnodeRelease

CRITICALITY reject

}

sNGRANnodeinitiatedSNGRANnodeRelease XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeReleaseRequired

SUCCESSFUL OUTCOME SNodeReleaseConfirm

PROCEDURE CODE id-sNGRANnodeinitiatedSNGRANnodeRelease

CRITICALITY reject

}

sNGRANnodeCounterCheck XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeCounterCheckRequest

PROCEDURE CODE id-sNGRANnodeCounterCheck

CRITICALITY reject

}

sNGRANnodeChange XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SNodeChangeRequired

SUCCESSFUL OUTCOME SNodeChangeConfirm

UNSUCCESSFUL OUTCOME SNodeChangeRefuse

PROCEDURE CODE id-sNGRANnodeChange

CRITICALITY reject

}

rRCTransfer XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RRCTransfer

PROCEDURE CODE id-rRCTransfer

CRITICALITY reject

}

xnRemoval XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE XnRemovalRequest

SUCCESSFUL OUTCOME XnRemovalResponse

UNSUCCESSFUL OUTCOME XnRemovalFailure

PROCEDURE CODE id-xnRemoval

CRITICALITY reject

}

xnSetup XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE XnSetupRequest

SUCCESSFUL OUTCOME XnSetupResponse

UNSUCCESSFUL OUTCOME XnSetupFailure

PROCEDURE CODE id-xnSetup

CRITICALITY reject

}

nGRANnodeConfigurationUpdate XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NGRANNodeConfigurationUpdate

SUCCESSFUL OUTCOME NGRANNodeConfigurationUpdateAcknowledge

UNSUCCESSFUL OUTCOME NGRANNodeConfigurationUpdateFailure

PROCEDURE CODE id-nGRANnodeConfigurationUpdate

CRITICALITY reject

}

partialUEContextTransfer XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PartialUEContextTransfer

SUCCESSFUL OUTCOME PartialUEContextTransferAcknowledge

UNSUCCESSFUL OUTCOME PartialUEContextTransferFailure

PROCEDURE CODE id-partialUEContextTransfer

CRITICALITY reject

}

e-UTRA-NR-CellResourceCoordination XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE E-UTRA-NR-CellResourceCoordinationRequest

SUCCESSFUL OUTCOME E-UTRA-NR-CellResourceCoordinationResponse

PROCEDURE CODE id-e-UTRA-NR-CellResourceCoordination

CRITICALITY reject

}

cellActivation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CellActivationRequest

SUCCESSFUL OUTCOME CellActivationResponse

UNSUCCESSFUL OUTCOME CellActivationFailure

PROCEDURE CODE id-cellActivation

CRITICALITY reject

}

reset XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ResetRequest

SUCCESSFUL OUTCOME ResetResponse

PROCEDURE CODE id-reset

CRITICALITY reject

}

errorIndication XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ErrorIndication

PROCEDURE CODE id-errorIndication

CRITICALITY ignore

}

notificationControl XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NotificationControlIndication

PROCEDURE CODE id-notificationControl

CRITICALITY ignore

}

activityNotification XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ActivityNotification

PROCEDURE CODE id-activityNotification

CRITICALITY ignore

}

privateMessage XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PrivateMessage

PROCEDURE CODE id-privateMessage

CRITICALITY ignore

}

secondaryRATDataUsageReport XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SecondaryRATDataUsageReport

PROCEDURE CODE id-secondaryRATDataUsageReport

CRITICALITY reject

}

deactivateTrace XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DeactivateTrace

PROCEDURE CODE id-deactivateTrace

CRITICALITY ignore

}

traceStart XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TraceStart

PROCEDURE CODE id-traceStart

CRITICALITY ignore

}

handoverSuccess XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverSuccess

PROCEDURE CODE id-handoverSuccess

CRITICALITY ignore

}

conditionalHandoverCancel XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ConditionalHandoverCancel

PROCEDURE CODE id-conditionalHandoverCancel

CRITICALITY ignore

}

earlyStatusTransfer XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE EarlyStatusTransfer

PROCEDURE CODE id-earlyStatusTransfer

CRITICALITY ignore

}

failureIndication XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE FailureIndication

PROCEDURE CODE id-failureIndication

CRITICALITY ignore

}

handoverReport XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE HandoverReport

PROCEDURE CODE id-handoverReport

CRITICALITY ignore

}

resourceStatusReportingInitiation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ResourceStatusRequest

SUCCESSFUL OUTCOME ResourceStatusResponse

UNSUCCESSFUL OUTCOME ResourceStatusFailure

PROCEDURE CODE id-resourceStatusReportingInitiation

CRITICALITY reject

}

resourceStatusReporting XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ResourceStatusUpdate

PROCEDURE CODE id-resourceStatusReporting

CRITICALITY ignore

}

mobilitySettingsChange XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MobilityChangeRequest

SUCCESSFUL OUTCOME MobilityChangeAcknowledge

UNSUCCESSFUL OUTCOME MobilityChangeFailure

PROCEDURE CODE id-mobilitySettingsChange

CRITICALITY reject

}

accessAndMobilityIndication XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE AccessAndMobilityIndication

PROCEDURE CODE id-accessAndMobilityIndication

CRITICALITY ignore

}

cellTrafficTrace XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CellTrafficTrace

PROCEDURE CODE id-cellTrafficTrace

CRITICALITY ignore

}

rANMulticastGroupPaging XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE RANMulticastGroupPaging

PROCEDURE CODE id-RANMulticastGroupPaging

CRITICALITY reject

}

scgFailureInformationReport XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE ScgFailureInformationReport

PROCEDURE CODE id-scgFailureInformationReport

CRITICALITY ignore

}

scgFailureTransfer XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE ScgFailureTransfer

PROCEDURE CODE id-scgFailureTransfer

CRITICALITY ignore

}

f1CTrafficTransfer XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE F1CTrafficTransfer

PROCEDURE CODE id-f1CTrafficTransfer

CRITICALITY reject

}

iABTransportMigrationManagement XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE IABTransportMigrationManagementRequest

SUCCESSFUL OUTCOME IABTransportMigrationManagementResponse

UNSUCCESSFUL OUTCOME IABTransportMigrationManagementReject

PROCEDURE CODE id-iABTransportMigrationManagement

CRITICALITY reject

}

iABTransportMigrationModification XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE IABTransportMigrationModificationRequest

SUCCESSFUL OUTCOME IABTransportMigrationModificationResponse

PROCEDURE CODE id-iABTransportMigrationModification

CRITICALITY reject

}

iABResourceCoordination XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE IABResourceCoordinationRequest

SUCCESSFUL OUTCOME IABResourceCoordinationResponse

PROCEDURE CODE id-iABResourceCoordination

CRITICALITY reject

}

retrieveUEContextConfirm XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE RetrieveUEContextConfirm

PROCEDURE CODE id-retrieveUEContextConfirm

CRITICALITY reject

}

cPCCancel XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE CPCCancel

PROCEDURE CODE id-cPCCancel

CRITICALITY ignore

}

rachIndication XNAP-ELEMENTARY-PROCEDURE ::={

INITIATING MESSAGE RachIndication

PROCEDURE CODE id-rachIndication

CRITICALITY ignore

}

dataCollectionReportingInitiation XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DataCollectionRequest

SUCCESSFUL OUTCOME DataCollectionResponse

UNSUCCESSFUL OUTCOME DataCollectionFailure

PROCEDURE CODE id-dataCollectionReportingInitiation

CRITICALITY reject

}

dataCollectionReporting XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DataCollectionUpdate

PROCEDURE CODE id-dataCollectionReporting

CRITICALITY ignore

}

cLI-Indication XNAP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CLI-Indication

PROCEDURE CODE id-cLI-Indication

CRITICALITY ignore

}

END

-- ASN1STOP

9.3.4 PDU Definitions

-- ASN1START

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

--

-- PDU definitions for XnAP.

--

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

XnAP-PDU-Contents {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

ActivationIDforCellActivation,

AMF-Region-Information,

AMF-UE-NGAP-ID,

AS-SecurityInformation,

AssistanceDataForRANPaging,

AerialUESubscriptionInformation,

A2XPC5QoSParameters,

BitRate,

Cause,

CellAndCapacityAssistanceInfo-EUTRA,

CellAndCapacityAssistanceInfo-NR,

CellAssistanceInfo-EUTRA,

CellAssistanceInfo-NR,

CHOinformation-Req,

CHOinformation-Ack,

CHOinformation-AddReq,

CHOinformation-AddReqAck,

CHOinformation-ModReq,

CHO-MRDC-EarlyDataForwarding,

CHO-MRDC-Indicator,

CPTransportLayerInformation,

TNLA-To-Add-List,

TNLA-To-Update-List,

TNLA-To-Remove-List,

TNLA-Setup-List,

TNLA-Failed-To-Setup-List,

CriticalityDiagnostics,

XnUAddressInfoperPDUSession-List,

DAPSResponseInfo-List,

DataTrafficResourceIndication,

DeliveryStatus,

DesiredActNotificationLevel,

DRB-ID,

DRB-List,

DRB-Number,

DRBsSubjectToDLDiscarding-List,

DRBsSubjectToEarlyStatusTransfer-List,

DRBsSubjectToStatusTransfer-List,

DRBToQoSFlowMapping-List,

E-UTRA-CGI,

ExpectedUEActivityBehaviour,

ExpectedUEBehaviour,

ExtendedUEIdentityIndexValue,

FiveGCMobilityRestrictionListContainer,

GlobalCell-ID,

GlobalNG-RANNode-ID,

GlobalNG-RANCell-ID,

GUAMI,

InterfaceInstanceIndication,

I-RNTI,

Local-NG-RAN-Node-Identifier,

LocationInformationSNReporting,

LocationReportingInformation,

LowerLayerPresenceStatusChange,

LTEA2XServicesAuthorized,

LTEUESidelinkAggregateMaximumBitRate,

LTEV2XServicesAuthorized,

MR-DC-ResourceCoordinationInfo,

ServedCells-E-UTRA,

ServedCells-NR,

ServedCellsToUpdate-E-UTRA,

ServedCellsToUpdate-NR,

MAC-I,

MaskedIMEISV,

MDT-Configuration,

MDTPLMNList,

MobilityRestrictionList,

Neighbour-NG-RAN-Node-List,

NG-RAN-Cell-Identity,

NG-RANnodeUEXnAPID,

NR-CGI,

NE-DC-TDM-Pattern,

NRA2XServicesAuthorized,

NRUESidelinkAggregateMaximumBitRate,

NRV2XServicesAuthorized,

PagingDRX,

EUTRAPagingeDRXInformation,

PagingPriority,

PartialListIndicator,

PLMN-Identity,

PDCPChangeIndication,

PDUSessionAggregateMaximumBitRate,

PDUSession-ID,

PDUSession-List,

PDUSession-List-withCause,

PDUSession-List-withDataForwardingFromTarget,

PDUSession-List-withDataForwardingRequest,

PDUSessionResourcesAdmitted-List,

PDUSessionResourcesNotAdmitted-List,

PDUSessionResourcesToBeSetup-List,

PDUSessionResourceChangeRequiredInfo-SNterminated,

PDUSessionResourceChangeRequiredInfo-MNterminated,

PDUSessionResourceChangeConfirmInfo-SNterminated,

PDUSessionResourceChangeConfirmInfo-MNterminated,

PDUSessionResourceSecondaryRATUsageList,

PDUSessionResourceSetupInfo-SNterminated,

PDUSessionResourceSetupInfo-MNterminated,

PDUSessionResourceSetupResponseInfo-SNterminated,

PDUSessionResourceSetupResponseInfo-MNterminated,

PDUSessionResourceModificationInfo-SNterminated,

PDUSessionResourceModificationInfo-MNterminated,

PDUSessionResourceModificationResponseInfo-SNterminated,

PDUSessionResourceModificationResponseInfo-MNterminated,

PDUSessionResourceModConfirmInfo-SNterminated,

PDUSessionResourceModConfirmInfo-MNterminated,

PDUSessionResourceModRqdInfo-SNterminated,

PDUSessionResourceModRqdInfo-MNterminated,

PDUSessionType,

PC5QoSParameters,

QoSFlowIdentifier,

QoSFlowNotificationControlIndicationInfo,

QoSFlows-List,

RANPagingArea,

ResetRequestTypeInfo,

ResetResponseTypeInfo,

RFSP-Index,

RRCConfigIndication,

RRCResumeCause,

SCGConfigurationQuery,

SCGreconfigNotification,

SecurityIndication,

S-NG-RANnode-SecurityKey,

SpectrumSharingGroupID,

SplitSRBsTypes,

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

S-NSSAI,

TargetCellList,

TAISupport-List,

Target-CGI,

TimeToWait,

TraceActivation,

UEAggregateMaximumBitRate,

UEContextID,

UEContextInfoRetrUECtxtResp,

UEContextKeptIndicator,

UEHistoryInformation,

UEIdentityIndexValue,

UERadioCapabilityForPaging,

UERadioCapabilityID,

UERANPagingIdentity,

UESecurityCapabilities,

UPTransportLayerInformation,

UserPlaneTrafficActivityReport,

XnBenefitValue,

RANPagingFailure,

TNLConfigurationInfo,

MaximumCellListSize,

MessageOversizeNotification,

NG-RANTraceID,

MobilityInformation,

InitiatingCondition-FailureIndication,

HandoverReportType,

TargetCellinEUTRAN,

C-RNTI,

UERLFReportContainer,

Measurement-ID,

RegistrationRequest,

ReportCharacteristics,

CellToReport,

ReportingPeriodicity,

CellMeasurementResult,

UEHistoryInformationFromTheUE,

MobilityParametersInformation,

MobilityParametersModificationRange,

RAReport,

IABNodeIndication,

SNTriggered,

SCGIndicator,

UESpecificDRX,

DirectForwardingPathAvailability,

TransportLayerAddress,

PrivacyIndicator,

URIaddress,

MBS-Session-ID,

UEIdentityIndexList-MBSGroupPaging,

MBS-SessionInformation-List,

MBS-SessionInformationResponse-List,

SuccessfulHOReportInformation,

PSCellHistoryInformationRetrieve,

SSBOffsets-List,

NG-RANnode2SSBOffsetsModificationRange,

Coverage-Modification-List,

SCGFailureReportContainer,

SNMobilityInformation,

PSCellChangeHistory,

CHOConfiguration,

SCGUEHistoryInformation,

F1CTrafficContainer,

NoPDUSessionIndication,

IAB-TNL-Address-Request,

IAB-TNL-Address-Response,

TrafficIndex,

TrafficProfile,

TrafficToBeReleaseInformation,

F1-TerminatingTopologyBHInformation,

Non-F1-TerminatingTopologyBHInformation,

BHInfoList,

IABTNLAddress,

IABCellInformation,

IABTNLAddressException,

TimeSynchronizationAssistanceInformation,

SCGActivationRequest,

SCGActivationStatus,

CPAInformationRequest,

CPAInformationAck,

CPCInformationRequired,

CPCInformationConfirm,

CPAInformationModReq,

CPAInformationModReqAck,

CPC-DataForwarding-Indicator,

CPCInformationUpdate,

CPACInformationModRequired,

QMCConfigInfo,

FiveGProSeAuthorized,

FiveGProSePC5QoSParameters,

ServedCellSpecificInfoReq-NR,

NRPagingeDRXInformation,

NRPagingeDRXInformationforRRCINACTIVE,

SDTSupportRequest,

SDT-Termination-Request,

SDTPartialUEContextInfo,

SDTDataForwardingDRBList,

PEIPSassistanceInformation,

UESliceMaximumBitRateList,

PagingCause,

MDTPLMNModificationList,

F1-terminatingIAB-donorIndicator,

SRB-ID,

AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated,

HashedUEIdentityIndexValue,

MBS-DataForwarding-Indicator,

IABAuthorizationStatus,

NID,

MT-SDT-Information,

PosPartialUEContextInfo,

SRSConfiguration,

RaReportIndicationList,

SuccessfulPSCellChangeReportInformation,

CPACConfiguration,

TimeSinceFailure,

SPRAvailability,

DLLBTFailureInformationRequest,

DLLBTFailureInformationList,

CellBasedUETrajectoryPrediction,

DataCollectionID,

RequestedPredictionTime,

NodeMeasurementInitiationResult-List,

CellMeasurementInitiationResult-List,

UEAssociatedInfoResult-List,

UETrajectoryCollectionConfiguration,

UEPerformanceCollectionConfiguration,

CellMeasurementResultForDataCollection-List,

CellToReportForDataCollection-List,

CandidateRelayUEInfoList,

NRPagingLongeDRXInformationforRRCINACTIVE,

QMCCoordinationRequest,

QMCCoordinationResponse,

DirectForwardingPathAvailabilityWithSourceMN,

Conditional-Reconfig-List,

PDUSetbasedHandlingIndicator,

MobileIAB-AuthorizationStatus,

BAPAddress,

S-CPAC-Request,

SK-COUNTER,

RegistrationRequestForDataCollection,

ReportCharacteristicsForDataCollection,

ReportingPeriodicityForDataCollection,

NodeAssociatedInfoResult,

SLPositioning-Ranging-Services-Info,

PDUSessionsListToBeReleased-UPError,

UserPlaneFailureIndication,

SRSPositioningConfigOrActivationRequest,

NRPPaPositioningInformation,

CLI-MeasurementResult-List

FROM XnAP-IEs

PrivateIE-Container{},

ProtocolExtensionContainer{},

ProtocolIE-Container{},

ProtocolIE-ContainerList{},

ProtocolIE-ContainerPair{},

ProtocolIE-ContainerPairList{},

ProtocolIE-Single-Container{},

XNAP-PRIVATE-IES,

XNAP-PROTOCOL-EXTENSION,

XNAP-PROTOCOL-IES,

XNAP-PROTOCOL-IES-PAIR

FROM XnAP-Containers

id-A2XPC5QoSParameters,

id-ActivatedServedCells,

id-ActivationIDforCellActivation,

id-AdditionalDRBIDs,

id-AerialUESubscriptionInformation,

id-AMF-Region-Information,

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

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

id-AssistanceDataForRANPaging,

id-AvailableDRBIDs,

id-Cause,

id-cellAssistanceInfo-EUTRA,

id-cellAssistanceInfo-NR,

id-CellAndCapacityAssistanceInfo-EUTRA,

id-CellAndCapacityAssistanceInfo-NR,

id-ConfigurationUpdateInitiatingNodeChoice,

id-UEContextID,

id-CriticalityDiagnostics,

id-XnUAddressInfoperPDUSession-List,

id-DesiredActNotificationLevel,

id-DRBsSubjectToStatusTransfer-List,

id-ExpectedUEBehaviour,

id-ExtendedUEIdentityIndexValue,

id-FiveGCMobilityRestrictionListContainer,

id-GlobalNG-RAN-node-ID,

id-GUAMI,

id-indexToRatFrequSelectionPriority,

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

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

id-LocationInformationSN,

id-LocationInformationSNReporting,

id-LocationReportingInformation,

id-LTEA2XServicesAuthorized,

id-LTEA2XUEPC5AggregateMaximumBitRate,

id-LTEUESidelinkAggregateMaximumBitRate,

id-LTEV2XServicesAuthorized,

id-MAC-I,

id-MaskedIMEISV,

id-MDT-Configuration,

id-MDTPLMNList,

id-MN-to-SN-Container,

id-MobilityRestrictionList,

id-M-NG-RANnodeUEXnAPID,

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

id-newNG-RANnodeUEXnAPID,

id-NRA2XServicesAuthorized,

id-NRA2XUEPC5AggregateMaximumBitRate,

id-NRUESidelinkAggregateMaximumBitRate,

id-NRV2XServicesAuthorized,

id-oldNG-RANnodeUEXnAPID,

id-OldtoNewNG-RANnodeResumeContainer,

id-PagingCause,

id-PagingDRX,

id-EUTRAPagingeDRXInformation,

id-PagingPriority,

id-PartialListIndicator-EUTRA,

id-PartialListIndicator-NR,

id-PCellID,

id-PDUSessionResourceSecondaryRATUsageList,

id-PDUSessionResourcesActivityNotifyList,

id-PDUSessionResourcesAdmitted-List,

id-PDUSessionResourcesNotAdmitted-List,

id-PDUSessionResourcesNotifyList,

id-PDUSessionToBeAddedAddReq,

id-PDUSessionToBeReleased-RelReqAck,

id-procedureStage,

id-RANPagingArea,

id-requestedSplitSRB,

id-RequiredNumberOfDRBIDs,

id-ResetRequestTypeInfo,

id-ResetResponseTypeInfo,

id-RespondingNodeTypeConfigUpdateAck,

id-RRCResumeCause,

id-SCGreconfigNotification,

id-selectedPLMN,

id-ServedCellsToActivate,

id-servedCellsToUpdate-E-UTRA,

id-ServedCellsToUpdateInitiatingNodeChoice,

id-servedCellsToUpdate-NR,

id-sourceNG-RANnodeUEXnAPID,

id-SpareDRBIDs,

id-S-NG-RANnodeMaxIPDataRate-UL,

id-S-NG-RANnodeMaxIPDataRate-DL,

id-S-NG-RANnodeUEXnAPID,

id-TAISupport-list,

id-Target2SourceNG-RANnodeTranspContainer,

id-targetCellGlobalID,

id-targetNG-RANnodeUEXnAPID,

id-TimeToWait,

id-TNLA-To-Add-List,

id-TNLA-To-Update-List,

id-TNLA-To-Remove-List,

id-TNLA-Setup-List,

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

id-TraceActivation,

id-UEContextInfoHORequest,

id-UEContextInfoRetrUECtxtResp,

id-UEContextKeptIndicator,

id-UEContextRefAtSN-HORequest,

id-UEHistoryInformation,

id-UEIdentityIndexValue,

id-UERANPagingIdentity,

id-UESecurityCapabilities,

id-UserPlaneTrafficActivityReport,

id-XnRemovalThreshold,

id-PDUSessionAdmittedAddedAddReqAck,

id-PDUSessionNotAdmittedAddReqAck,

id-SN-to-MN-Container,

id-RRCConfigIndication,

id-SplitSRB-RRCTransfer,

id-UEReportRRCTransfer,

id-PDUSessionReleasedList-RelConf,

id-BearersSubjectToCounterCheck,

id-PDUSessionToBeReleasedList-RelRqd,

id-ResponseInfo-ReconfCompl,

id-initiatingNodeType-ResourceCoordRequest,

id-respondingNodeType-ResourceCoordResponse,

id-PDUSessionToBeReleased-RelReq,

id-PDUSession-SNChangeRequired-List,

id-PDUSession-SNChangeConfirm-List,

id-PDCPChangeIndication,

id-PC5QoSParameters,

id-SCGConfigurationQuery,

id-UEContextInfo-SNModRequest,

id-requestedSplitSRBrelease,

id-PDUSessionAdmitted-SNModResponse,

id-PDUSessionNotAdmitted-SNModResponse,

id-admittedSplitSRB,

id-admittedSplitSRBrelease,

id-PDUSessionAdmittedModSNModConfirm,

id-PDUSessionReleasedSNModConfirm,

id-s-ng-RANnode-SecurityKey,

id-PDUSessionToBeModifiedSNModRequired,

id-S-NG-RANnodeUE-AMBR,

id-PDUSessionToBeReleasedSNModRequired,

id-target-S-NG-RANnodeID,

id-S-NSSAI,

id-MR-DC-ResourceCoordinationInfo,

id-RANPagingFailure,

id-UERadioCapabilityForPaging,

id-PDUSessionDataForwarding-SNModResponse,

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

id-NE-DC-TDM-Pattern,

id-InterfaceInstanceIndication,

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

id-SNTriggered,

id-DRBs-transferred-to-MN,

id-TNLConfigurationInfo,

id-MessageOversizeNotification,

id-NG-RANTraceID,

id-FastMCGRecoveryRRCTransfer-SN-to-MN,

id-FastMCGRecoveryRRCTransfer-MN-to-SN,

id-RequestedFastMCGRecoveryViaSRB3,

id-AvailableFastMCGRecoveryViaSRB3,

id-RequestedFastMCGRecoveryViaSRB3Release,

id-ReleaseFastMCGRecoveryViaSRB3,

id-CHOinformation-Req,

id-CHOinformation-Ack,

id-targetCellsToCancel,

id-requestedTargetCellGlobalID,

id-DAPSResponseInfo-List,

id-CHO-MRDC-EarlyDataForwarding,

id-CHO-MRDC-Indicator,

id-MobilityInformation,

id-InitiatingCondition-FailureIndication,

id-UEHistoryInformationFromTheUE,

id-HandoverReportType,

id-HandoverCause,

id-SourceCellCGI,

id-TargetCellCGI,

id-ReEstablishmentCellCGI,

id-TargetCellinEUTRAN,

id-SourceCellCRNTI,

id-UERLFReportContainer,

id-NGRAN-Node1-Measurement-ID,

id-NGRAN-Node2-Measurement-ID,

id-RegistrationRequest,

id-ReportCharacteristics,

id-CellToReport,

id-ReportingPeriodicity,

id-CellMeasurementResult,

id-NG-RANnode1CellID,

id-NG-RANnode2CellID,

id-NG-RANnode1MobilityParameters,

id-NG-RANnode2ProposedMobilityParameters,

id-MobilityParametersModificationRange,

id-RAReport,

id-IABNodeIndication,

id-UERadioCapabilityID,

id-SCGIndicator,

id-UESpecificDRX,

id-PDUSessionExpectedUEActivityBehaviour,

id-DirectForwardingPathAvailability,

id-SourceNG-RAN-node-ID,

id-TargetNodeID,

id-ManagementBasedMDTPLMNList,

id-PrivacyIndicator,

id-TraceCollectionEntityIPAddress,

id-TraceCollectionEntityURI,

id-MBS-Session-ID,

id-UEIdentityIndexList-MBSGroupPaging,

id-MulticastRANPagingArea,

id-MBS-SessionInformation-List,

id-MBS-SessionInformationResponse-List,

id-SuccessfulHOReportInformation,

id-PSCellHistoryInformationRetrieve,

id-SSBOffsets-List,

id-NG-RANnode2SSBOffsetsModificationRange,

id-Coverage-Modification-List,

id-SourcePSCellCGI,

id-FailedPSCellCGI,

id-SCGFailureReportContainer,

id-SNMobilityInformation,

id-SourcePSCellID,

id-SuitablePSCellCGI,

id-PSCellChangeHistory,

id-CHOConfiguration,

id-SCGUEHistoryInformation,

id-F1CTrafficContainer,

id-NoPDUSessionIndication,

id-F1-Terminating-IAB-DonorUEXnAPID,

id-nonF1-Terminating-IAB-DonorUEXnAPID,

id-IAB-TNL-Address-Request,

id-IAB-TNL-Address-Response,

id-TrafficToBeAddedList,

id-TrafficToBeModifiedList,

id-TrafficToBeReleaseInformation,

id-TrafficAddedList,

id-TrafficModifiedList,

id-TrafficNotAddedList,

id-TrafficNotModifiedList,

id-TrafficRequiredToBeModifiedList,

id-TrafficRequiredModifiedList,

id-TrafficReleasedList,

id-IABTNLAddressToBeAdded,

id-IABTNLAddressToBeReleasedList,

id-BoundaryNodeCellsList,

id-ParentNodeCellsList,

id-IABTNLAddressException,

id-CHOinformation-AddReq,

id-CHOinformation-AddReqAck,

id-CHOinformation-ModReq,

id-TimeSynchronizationAssistanceInformation,

id-SCGActivationRequest,

id-SCGActivationStatus,

id-CPAInformationRequest,

id-CPAInformationAck,

id-CPCInformationRequired,

id-CPCInformationConfirm,

id-CPAInformationModReq,

id-CPAInformationModReqAck,

id-CPC-DataForwarding-Indicator,

id-CPCInformationUpdate,

id-CPACInformationModRequired,

id-QMCConfigInfo,

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

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

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

id-FiveGProSeAuthorized,

id-FiveGProSePC5QoSParameters,

id-FiveGProSeUEPC5AggregateMaximumBitRate,

id-ServedCellSpecificInfoReq-NR,

id-NRPagingeDRXInformation,

id-NRPagingeDRXInformationforRRCINACTIVE,

id-SDTSupportRequest,

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

id-SDT-Termination-Request,

id-SDTPartialUEContextInfo,

id-SDTDataForwardingDRBList,

id-PEIPSassistanceInformation,

id-UESliceMaximumBitRateList,

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

id-ManagementBasedMDTPLMNModificationList,

id-F1-terminatingIAB-donorIndicator,

id-AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated,

id-HashedUEIdentityIndexValue,

id-MBS-DataForwarding-Indicator,

id-IABAuthorizationStatus,

id-SelectedNID,

id-MT-SDT-Information,

id-PosPartialUEContextInfo,

id-SRSConfiguration,

id-RaReportIndicationList,

id-SuccessfulPSCellChangeReportInformation,

id-CPACConfiguration,

id-TargetCellCRNTI,

id-TimeSinceFailure,

id-SPRAvailability,

id-DLLBTFailureInformationRequest,

id-DLLBTFailureInformationList,

id-CellBasedUETrajectoryPrediction,

id-DataCollectionID,

id-RequestedPredictionTime,

id-NodeMeasurementInitiationResult-List,

id-CellMeasurementInitiationResult-List,

id-UEAssociatedInfoResult-List,

id-UETrajectoryCollectionConfiguration,

id-UEPerformanceCollectionConfiguration,

id-CellMeasurementResultForDataCollection-List,

id-CellToReportForDataCollection-List,

id-CandidateRelayUEInfoList,

id-NRCellsAndSSBsList,

id-ActivatedNRCellsAndSSBsList,

id-NRPagingLongeDRXInformationforRRCINACTIVE,

id-QMCCoordinationRequest,

id-QMCCoordinationResponse,

id-QoE-Measurement-Results,

id-Src-SN-to-Tgt-SNQMCInfoInquiry,

id-DirectForwardingPathAvailabilityWithSourceMN,

id-accessed-PSCellID,

id-conditional-Reconfig-ToCancel-List,

id-PDUSetbasedHandlingIndicator,

id-MobileIAB-AuthorizationStatus,

id-MIAB-MT-BAP-Address,

id-S-CPAC-Request,

id-sk-Counter,

id-Source-M-NG-RANnodeID,

id-SourceSN-to-TargetSN-QMCInfo,

id-RegistrationRequestForDataCollection,

id-ReportCharacteristicsForDataCollection,

id-ReportingPeriodicityForDataCollection,

id-NodeAssociatedInfoResult,

id-SLPositioning-Ranging-Services-Info,

id-PDUSessionsListToBeReleased-UPError,

id-UserPlaneFailureIndication,

id-SRSPositioningConfigOrActivationRequest,

id-NRPPaPositioningInformation,

id-CLI-MeasurementResult-List,

maxnoofCellsinNG-RANnode,

maxnoofDRBs,

maxnoofPDUSessions,

maxnoofQoSFlows,

maxnoofServedCellsIAB,

maxnoofTrafficIndexEntries,

maxnoofTLAsIAB,

maxnoofBAPControlPDURLCCHs,

maxnoofServingCells,

maxnoofSSBAreas

FROM XnAP-Constants;

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

--

-- HANDOVER REQUEST

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

HandoverRequest ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-targetCellGlobalID CRITICALITY reject TYPE Target-CGI PRESENCE mandatory}|

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

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

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

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

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

{ ID id-UEContextRefAtSN-HORequest CRITICALITY ignore TYPE UEContextRefAtSN-HORequest PRESENCE optional }|

{ ID id-CHOinformation-Req CRITICALITY reject TYPE CHOinformation-Req PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

{ ID id-FiveGProSePC5QoSParameters CRITICALITY ignore TYPE FiveGProSePC5QoSParameters PRESENCE optional }|

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

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

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

{ ID id-NRA2XServicesAuthorized CRITICALITY ignore TYPE NRA2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEA2XServicesAuthorized CRITICALITY ignore TYPE LTEA2XServicesAuthorized PRESENCE optional }|

{ ID id-A2XPC5QoSParameters CRITICALITY ignore TYPE A2XPC5QoSParameters PRESENCE optional }|

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

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

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

{ ID id-SourceSN-to-TargetSN-QMCInfo CRITICALITY ignore TYPE QMCConfigInfo PRESENCE optional }|

{ ID id-MobileIAB-AuthorizationStatus CRITICALITY reject TYPE MobileIAB-AuthorizationStatus PRESENCE optional }|

{ ID id-SLPositioning-Ranging-Services-Info CRITICALITY ignore TYPE SLPositioning-Ranging-Services-Info PRESENCE optional },

...

}

UEContextInfoHORequest ::= SEQUENCE {

ng-c-UE-reference AMF-UE-NGAP-ID,

cp-TNL-info-source CPTransportLayerInformation,

ueSecurityCapabilities UESecurityCapabilities,

securityInformation AS-SecurityInformation,

indexToRatFrequencySelectionPriority RFSP-Index OPTIONAL,

ue-AMBR UEAggregateMaximumBitRate,

pduSessionResourcesToBeSetup-List PDUSessionResourcesToBeSetup-List,

rrc-Context OCTET STRING,

locationReportingInformation LocationReportingInformation OPTIONAL,

mrl MobilityRestrictionList OPTIONAL,

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

...

}

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

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

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

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

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

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

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

{ ID id-FiveGProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION NRUESidelinkAggregateMaximumBitRate PRESENCE optional }|

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

{ ID id-NRA2XUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION NRUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-LTEA2XUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION LTEUESidelinkAggregateMaximumBitRate PRESENCE optional },

...

}

UEContextRefAtSN-HORequest ::= SEQUENCE {

globalNG-RANNode-ID GlobalNG-RANNode-ID,

sN-NG-RANnodeUEXnAPID NG-RANnodeUEXnAPID,

iE-Extensions ProtocolExtensionContainer { {UEContextRefAtSN-HORequest-ExtIEs} } OPTIONAL,

...

}

UEContextRefAtSN-HORequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

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

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-- HANDOVER REQUEST ACKNOWLEDGE

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

HandoverRequestAcknowledge ::= SEQUENCE {

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

...

}

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

{ ID id-sourceNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-targetNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-PDUSessionResourcesAdmitted-List CRITICALITY ignore TYPE PDUSessionResourcesAdmitted-List PRESENCE mandatory}|

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

{ ID id-Target2SourceNG-RANnodeTranspContainer CRITICALITY ignore TYPE OCTET STRING PRESENCE mandatory}|

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

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

{ ID id-DRBs-transferred-to-MN CRITICALITY ignore TYPE DRB-List PRESENCE optional }|

{ ID id-DAPSResponseInfo-List CRITICALITY reject TYPE DAPSResponseInfo-List PRESENCE optional }|

{ ID id-CHOinformation-Ack CRITICALITY reject TYPE CHOinformation-Ack PRESENCE optional }|

{ ID id-MBS-SessionInformationResponse-List CRITICALITY ignore TYPE MBS-SessionInformationResponse-List PRESENCE optional }|

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

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

...

}

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

--

-- HANDOVER PREPARATION FAILURE

--

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

HandoverPreparationFailure ::= SEQUENCE {

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

...

}

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

{ ID id-sourceNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

{ ID id-requestedTargetCellGlobalID CRITICALITY reject TYPE Target-CGI PRESENCE optional},

...

}

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

--

-- SN STATUS TRANSFER

--

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

SNStatusTransfer ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-DRBsSubjectToStatusTransfer-List CRITICALITY ignore TYPE DRBsSubjectToStatusTransfer-List PRESENCE mandatory}|

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

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

...

}

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

--

-- UE CONTEXT RELEASE

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

UEContextRelease ::= SEQUENCE {

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

...

}

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

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

{ ID id-targetNG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory},

...

}

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

--

-- HANDOVER CANCEL

--

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

HandoverCancel ::= SEQUENCE {

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

...

}

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

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

{ ID id-targetNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE optional }|

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

{ ID id-targetCellsToCancel CRITICALITY reject TYPE TargetCellList PRESENCE optional},

...

}

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

--

-- HANDOVER SUCCESS

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

HandoverSuccess ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-requestedTargetCellGlobalID CRITICALITY reject TYPE Target-CGI PRESENCE mandatory}|

{ ID id-accessed-PSCellID CRITICALITY ignore TYPE NR-CGI PRESENCE optional},

...

}

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

--

-- CONDITIONAL HANDOVER CANCEL

--

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

ConditionalHandoverCancel ::= SEQUENCE {

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

...

}

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

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

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

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

{ ID id-targetCellsToCancel CRITICALITY reject TYPE TargetCellList PRESENCE optional}|

{ ID id-conditional-Reconfig-ToCancel-List CRITICALITY reject TYPE Conditional-Reconfig-List PRESENCE optional},

...

}

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

--

-- EARLY STATUS TRANSFER

--

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

EarlyStatusTransfer ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-procedureStage CRITICALITY reject TYPE ProcedureStageChoice PRESENCE mandatory},

...

}

ProcedureStageChoice ::= CHOICE {

first-dl-count FirstDLCount,

dl-discarding DLDiscarding,

choice-extension ProtocolIE-Single-Container { {ProcedureStageChoice-ExtIEs} }

}

ProcedureStageChoice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

FirstDLCount ::= SEQUENCE {

dRBsSubjectToEarlyStatusTransfer DRBsSubjectToEarlyStatusTransfer-List,

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

...

}

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

...

}

DLDiscarding ::= SEQUENCE {

dRBsSubjectToDLDiscarding DRBsSubjectToDLDiscarding-List,

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

...

}

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

...

}

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

--

-- RAN PAGING

--

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

RANPaging ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-MT-SDT-Information CRITICALITY ignore TYPE MT-SDT-Information PRESENCE optional }|

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

...

}

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

--

-- RETRIEVE UE CONTEXT REQUEST

--

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

RetrieveUEContextRequest ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-MAC-I CRITICALITY reject TYPE MAC-I PRESENCE mandatory}|

{ ID id-new-NG-RAN-Cell-Identity CRITICALITY reject TYPE NG-RAN-Cell-Identity PRESENCE mandatory}|

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

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

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

...

}

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

--

-- RETRIEVE UE CONTEXT RESPONSE

--

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

RetrieveUEContextResponse ::= SEQUENCE {

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

...

}

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

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-UEContextRefAtSN-HORequest CRITICALITY ignore TYPE UEContextRefAtSN-HORequest PRESENCE optional }|

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

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

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

{ ID id-FiveGProSePC5QoSParameters CRITICALITY ignore TYPE FiveGProSePC5QoSParameters PRESENCE optional }|

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

{ ID id-NRA2XServicesAuthorized CRITICALITY ignore TYPE NRA2XServicesAuthorized PRESENCE optional }|

{ ID id-LTEA2XServicesAuthorized CRITICALITY ignore TYPE LTEA2XServicesAuthorized PRESENCE optional }|

{ ID id-A2XPC5QoSParameters CRITICALITY ignore TYPE A2XPC5QoSParameters PRESENCE optional }|

{ ID id-MobileIAB-AuthorizationStatus CRITICALITY reject TYPE MobileIAB-AuthorizationStatus PRESENCE optional }|

{ ID id-SLPositioning-Ranging-Services-Info CRITICALITY ignore TYPE SLPositioning-Ranging-Services-Info  PRESENCE optional },

...

}

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

--

-- RETRIEVE UE CONTEXT CONFIRM

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

RetrieveUEContextConfirm ::= SEQUENCE {

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

...

}

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

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

{ ID id-SDT-Termination-Request CRITICALITY ignore TYPE SDT-Termination-Request PRESENCE optional },

...

}

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

--

-- RETRIEVE UE CONTEXT FAILURE

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

RetrieveUEContextFailure ::= SEQUENCE {

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

...

}

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

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-OldtoNewNG-RANnodeResumeContainer CRITICALITY ignore TYPE OCTET STRING PRESENCE optional }|

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

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

...

}

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

--

-- XN-U ADDRESS INDICATION

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

XnUAddressIndication ::= SEQUENCE {

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

...

}

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

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-XnUAddressInfoperPDUSession-List CRITICALITY reject TYPE XnUAddressInfoperPDUSession-List PRESENCE mandatory}|

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

{ ID id-CHO-MRDC-EarlyDataForwarding CRITICALITY ignore TYPE CHO-MRDC-EarlyDataForwarding PRESENCE optional }|

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

{ ID id-MBS-DataForwarding-Indicator CRITICALITY ignore TYPE MBS-DataForwarding-Indicator PRESENCE optional }|

{ ID id-MBS-SessionInformationResponse-List CRITICALITY ignore TYPE MBS-SessionInformationResponse-List PRESENCE optional }|

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

...

}

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

--

-- S-NODE ADDITION REQUEST

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

SNodeAdditionRequest ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-s-ng-RANnode-SecurityKey CRITICALITY reject TYPE S-NG-RANnode-SecurityKey PRESENCE mandatory}|

{ ID id-S-NG-RANnodeUE-AMBR CRITICALITY reject TYPE UEAggregateMaximumBitRate PRESENCE mandatory}|

{ ID id-selectedPLMN CRITICALITY ignore TYPE PLMN-Identity PRESENCE optional }|

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

{ ID id-indexToRatFrequSelectionPriority CRITICALITY reject TYPE RFSP-Index PRESENCE optional }|

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

{ ID id-MN-to-SN-Container CRITICALITY reject TYPE OCTET STRING PRESENCE mandatory}|

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

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

{ ID id-requestedSplitSRB CRITICALITY reject TYPE SplitSRBsTypes PRESENCE optional }|

{ ID id-PCellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE optional }|

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

{ ID id-AvailableDRBIDs CRITICALITY reject TYPE DRB-List PRESENCE conditional}

-- This IE shall be present if there is at least one *PDU Session Resource Setup Info – SN terminated* in the *PDU Session Resources To Be Added List* IE. --|

{ ID id-S-NG-RANnodeMaxIPDataRate-UL CRITICALITY reject TYPE BitRate PRESENCE optional }|

{ ID id-S-NG-RANnodeMaxIPDataRate-DL CRITICALITY reject TYPE BitRate PRESENCE optional }|

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

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

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

{ ID id-NE-DC-TDM-Pattern CRITICALITY ignore TYPE NE-DC-TDM-Pattern PRESENCE optional }|

{ ID id-S-NG-RANnode-Addition-Trigger-Ind CRITICALITY reject TYPE S-NG-RANnode-Addition-Trigger-Ind PRESENCE optional }|

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

{ ID id-RequestedFastMCGRecoveryViaSRB3 CRITICALITY ignore TYPE RequestedFastMCGRecoveryViaSRB3 PRESENCE optional }|

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

{ ID id-SourceNG-RAN-node-ID CRITICALITY ignore TYPE GlobalNG-RANNode-ID PRESENCE optional }|

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

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

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

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

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

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

{ ID id-CHOinformation-AddReq CRITICALITY reject TYPE CHOinformation-AddReq PRESENCE optional }|

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

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

{ ID id-S-NG-RANnodeUE-Slice-MBR CRITICALITY reject TYPE UESliceMaximumBitRateList PRESENCE optional }|

{ ID id-F1-terminatingIAB-donorIndicator CRITICALITY reject TYPE F1-terminatingIAB-donorIndicator PRESENCE optional }|

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

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

{ ID id-SourceSN-to-TargetSN-QMCInfo CRITICALITY ignore TYPE QMCConfigInfo PRESENCE optional }|

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

{ ID id-Source-M-NG-RANnodeID CRITICALITY ignore TYPE GlobalNG-RANNode-ID PRESENCE optional },

...

}

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

PDUSessionToBeAddedAddReq-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

s-NSSAI S-NSSAI,

sN-PDUSessionAMBR PDUSessionAggregateMaximumBitRate OPTIONAL,

sn-terminated PDUSessionResourceSetupInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceSetupInfo-MNterminated OPTIONAL,

-- NOTE: If neither the PDU Session Resource Setup Info – SN terminated IE

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

-- abnormal conditions as specified in clause 8.3.1.4 apply.

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

...

}

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

...

}

RequestedFastMCGRecoveryViaSRB3 ::= ENUMERATED {true, ...}

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

--

-- S-NODE ADDITION REQUEST ACKNOWLEDGE

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

SNodeAdditionRequestAcknowledge ::= SEQUENCE {

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

...

}

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

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

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

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

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

{ ID id-SN-to-MN-Container CRITICALITY reject TYPE OCTET STRING PRESENCE mandatory}|

{ ID id-admittedSplitSRB CRITICALITY reject TYPE SplitSRBsTypes PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

{ ID id-CHOinformation-AddReqAck CRITICALITY reject TYPE CHOinformation-AddReqAck PRESENCE optional }|

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

...

}

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

PDUSessionAdmittedAddedAddReqAck-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceSetupResponseInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceSetupResponseInfo-MNterminated OPTIONAL,

-- NOTE: If neither the *PDU Session Resource Setup Response Info – SN terminated* IE

-- nor the *PDU Session Resource Setup Response Info – MN terminated* IE is present,

-- abnormal conditions as specified in clause 8.3.1.4 apply.

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

...

}

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

...

}

PDUSessionNotAdmittedAddReqAck ::= SEQUENCE {

pduSessionResourcesNotAdmitted-SNterminated PDUSessionResourcesNotAdmitted-List OPTIONAL,

pduSessionResourcesNotAdmitted-MNterminated PDUSessionResourcesNotAdmitted-List OPTIONAL,

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

...

}

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

...

}

AvailableFastMCGRecoveryViaSRB3 ::= ENUMERATED {true, ...}

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

--

-- S-NODE ADDITION REQUEST REJECT

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

SNodeAdditionRequestReject ::= SEQUENCE {

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

...

}

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

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

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

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

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

{ ID id-PCellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE optional },

...

}

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

--

-- S-NODE RECONFIGURATION COMPLETE

--

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

SNodeReconfigurationComplete ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-ResponseInfo-ReconfCompl CRITICALITY ignore TYPE ResponseInfo-ReconfCompl PRESENCE mandatory},

...

}

ResponseInfo-ReconfCompl ::= SEQUENCE {

responseType-ReconfComplete ResponseType-ReconfComplete,

iE-Extensions ProtocolExtensionContainer { {ResponseInfo-ReconfCompl-ExtIEs} } OPTIONAL,

...

}

ResponseInfo-ReconfCompl-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResponseType-ReconfComplete ::= CHOICE {

configuration-successfully-applied Configuration-successfully-applied,

configuration-rejected-by-M-NG-RANNode Configuration-rejected-by-M-NG-RANNode,

choice-extension ProtocolIE-Single-Container { {ResponseType-ReconfComplete-ExtIEs} }

}

ResponseType-ReconfComplete-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

Configuration-successfully-applied ::= SEQUENCE {

m-NG-RANNode-to-S-NG-RANNode-Container OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Configuration-successfully-applied-ExtIEs} } OPTIONAL,

...

}

Configuration-successfully-applied-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-sk-Counter CRITICALITY ignore EXTENSION SK-COUNTER PRESENCE optional},

...

}

Configuration-rejected-by-M-NG-RANNode ::= SEQUENCE {

cause Cause,

m-NG-RANNode-to-S-NG-RANNode-Container OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Configuration-rejected-by-M-NG-RANNode-ExtIEs} } OPTIONAL,

...

}

Configuration-rejected-by-M-NG-RANNode-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- S-NODE MODIFICATION REQUEST

--

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

SNodeModificationRequest ::= SEQUENCE {

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

...

}

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

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

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

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

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

{ ID id-selectedPLMN CRITICALITY ignore TYPE PLMN-Identity PRESENCE optional }|

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

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

{ ID id-UEContextInfo-SNModRequest CRITICALITY reject TYPE UEContextInfo-SNModRequest PRESENCE optional }|

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

{ ID id-requestedSplitSRB CRITICALITY ignore TYPE SplitSRBsTypes PRESENCE optional }|

{ ID id-requestedSplitSRBrelease CRITICALITY ignore TYPE SplitSRBsTypes PRESENCE optional }|

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

{ ID id-AdditionalDRBIDs CRITICALITY reject TYPE DRB-List PRESENCE optional }|

{ ID id-S-NG-RANnodeMaxIPDataRate-UL CRITICALITY reject TYPE BitRate PRESENCE optional }|

{ ID id-S-NG-RANnodeMaxIPDataRate-DL CRITICALITY reject TYPE BitRate PRESENCE optional }|

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

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

{ ID id-PCellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE optional }|

{ ID id-NE-DC-TDM-Pattern CRITICALITY ignore TYPE NE-DC-TDM-Pattern PRESENCE optional }|

{ ID id-RequestedFastMCGRecoveryViaSRB3 CRITICALITY ignore TYPE RequestedFastMCGRecoveryViaSRB3 PRESENCE optional }|

{ ID id-RequestedFastMCGRecoveryViaSRB3Release CRITICALITY ignore TYPE RequestedFastMCGRecoveryViaSRB3Release PRESENCE optional }|

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

{ ID id-TargetNodeID CRITICALITY ignore TYPE GlobalNG-RANNode-ID PRESENCE optional }|

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

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

{ ID id-CHOinformation-ModReq CRITICALITY ignore TYPE CHOinformation-ModReq PRESENCE optional }|

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

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

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

{ ID id-S-NG-RANnodeUE-Slice-MBR CRITICALITY ignore TYPE UESliceMaximumBitRateList PRESENCE optional }|

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

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

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

{ ID id-Src-SN-to-Tgt-SNQMCInfoInquiry CRITICALITY ignore TYPE Src-SN-to-Tgt-SNQMCInfoInquiry PRESENCE optional }|

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

...

}

UEContextInfo-SNModRequest ::= SEQUENCE {

ueSecurityCapabilities UESecurityCapabilities OPTIONAL,

s-ng-RANnode-SecurityKey S-NG-RANnode-SecurityKey OPTIONAL,

s-ng-RANnodeUE-AMBR UEAggregateMaximumBitRate OPTIONAL,

indexToRatFrequencySelectionPriority RFSP-Index OPTIONAL,

lowerLayerPresenceStatusChange LowerLayerPresenceStatusChange OPTIONAL,

pduSessionResourceToBeAdded PDUSessionsToBeAdded-SNModRequest-List OPTIONAL,

pduSessionResourceToBeModified PDUSessionsToBeModified-SNModRequest-List OPTIONAL,

pduSessionResourceToBeReleased PDUSessionsToBeReleased-SNModRequest-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { {UEContextInfo-SNModRequest-ExtIEs} } OPTIONAL,

...

}

UEContextInfo-SNModRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionsToBeAdded-SNModRequest-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionsToBeAdded-SNModRequest-Item

PDUSessionsToBeAdded-SNModRequest-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

s-NSSAI S-NSSAI,

sN-PDUSessionAMBR PDUSessionAggregateMaximumBitRate OPTIONAL,

sn-terminated PDUSessionResourceSetupInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceSetupInfo-MNterminated OPTIONAL,

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

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

-- abnormal conditions as specified in clause 8.3.3.4 apply.

iE-Extension ProtocolExtensionContainer { {PDUSessionsToBeAdded-SNModRequest-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionsToBeAdded-SNModRequest-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-PDUSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional},

...

}

PDUSessionsToBeModified-SNModRequest-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionsToBeModified-SNModRequest-Item

PDUSessionsToBeModified-SNModRequest-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sN-PDUSessionAMBR PDUSessionAggregateMaximumBitRate OPTIONAL,

sn-terminated PDUSessionResourceModificationInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceModificationInfo-MNterminated OPTIONAL,

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

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

-- abnormal conditions as specified in clause 8.3.3.4 apply.

iE-Extension ProtocolExtensionContainer { {PDUSessionsToBeModified-SNModRequest-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionsToBeModified-SNModRequest-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-NSSAI CRITICALITY reject EXTENSION S-NSSAI PRESENCE optional }|

{ ID id-PDUSessionExpectedUEActivityBehaviour CRITICALITY ignore EXTENSION ExpectedUEActivityBehaviour PRESENCE optional }|

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

...

}

PDUSessionsToBeReleased-SNModRequest-List ::= SEQUENCE {

pdu-session-list PDUSession-List-withCause OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSessionsToBeReleased-SNModRequest-List-ExtIEs} } OPTIONAL,

...

}

PDUSessionsToBeReleased-SNModRequest-List-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RequestedFastMCGRecoveryViaSRB3Release ::= ENUMERATED {true, ...}

Src-SN-to-Tgt-SNQMCInfoInquiry ::= ENUMERATED {true, ...}

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

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-- S-NODE MODIFICATION REQUEST ACKNOWLEDGE

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

SNodeModificationRequestAcknowledge ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSessionAdmitted-SNModResponse CRITICALITY ignore TYPE PDUSessionAdmitted-SNModResponse PRESENCE optional }|

{ ID id-PDUSessionNotAdmitted-SNModResponse CRITICALITY ignore TYPE PDUSessionNotAdmitted-SNModResponse PRESENCE optional }|

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

{ ID id-admittedSplitSRB CRITICALITY ignore TYPE SplitSRBsTypes PRESENCE optional }|

{ ID id-admittedSplitSRBrelease CRITICALITY ignore TYPE SplitSRBsTypes PRESENCE optional }|

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

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

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

{ ID id-PDUSessionDataForwarding-SNModResponse CRITICALITY ignore TYPE PDUSessionDataForwarding-SNModResponse PRESENCE optional }|

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

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

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

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

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

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

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

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

{ ID id-SourceSN-to-TargetSN-QMCInfo CRITICALITY ignore TYPE QMCConfigInfo PRESENCE optional },

...

}

PDUSessionAdmitted-SNModResponse ::= SEQUENCE {

pduSessionResourcesAdmittedToBeAdded PDUSessionAdmittedToBeAddedSNModResponse OPTIONAL,

pduSessionResourcesAdmittedToBeModified PDUSessionAdmittedToBeModifiedSNModResponse OPTIONAL,

pduSessionResourcesAdmittedToBeReleased PDUSessionAdmittedToBeReleasedSNModResponse OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSessionAdmitted-SNModResponse-ExtIEs} } OPTIONAL,

...

}

PDUSessionAdmitted-SNModResponse-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

PDUSessionAdmittedToBeAddedSNModResponse-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceSetupResponseInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceSetupResponseInfo-MNterminated OPTIONAL,

-- NOTE: If neither the *PDU Session Resource Setup Response Info – SN terminated* IE

-- nor the *PDU Session Resource Setup Response Info – MN terminated* IE is present,

-- abnormal conditions as specified in clause 8.3.3.4 apply.

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

...

}

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

...

}

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

PDUSessionAdmittedToBeModifiedSNModResponse-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceModificationResponseInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceModificationResponseInfo-MNterminated OPTIONAL,

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

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

-- abnormal conditions as specified in clause 8.3.3.4 apply.

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

...

}

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

...

}

PDUSessionAdmittedToBeReleasedSNModResponse ::= SEQUENCE {

sn-terminated PDUSession-List-withDataForwardingRequest OPTIONAL,

mn-terminated PDUSession-List-withCause OPTIONAL,

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

...

}

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

...

}

PDUSessionNotAdmitted-SNModResponse ::= SEQUENCE {

pdu-Session-List PDUSession-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSessionNotAdmitted-SNModResponse-ExtIEs} } OPTIONAL,

...

}

PDUSessionNotAdmitted-SNModResponse-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

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

...

}

PDUSessionDataForwarding-SNModResponse ::= SEQUENCE {

sn-terminated PDUSession-List-withDataForwardingRequest,

iE-Extensions ProtocolExtensionContainer { {PDUSessionDataForwarding-SNModResponse-ExtIEs} } OPTIONAL,

...

}

PDUSessionDataForwarding-SNModResponse-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ReleaseFastMCGRecoveryViaSRB3 ::= ENUMERATED {true, ...}

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

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-- S-NODE MODIFICATION REQUEST REJECT

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

SNodeModificationRequestReject ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

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

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-- S-NODE MODIFICATION REQUIRED

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

SNodeModificationRequired ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-S-CPAC-Request CRITICALITY reject TYPE S-CPAC-Request PRESENCE optional }|

{ ID id-PDUSessionsListToBeReleased-UPError CRITICALITY ignore TYPE PDUSessionsListToBeReleased-UPError PRESENCE optional },

...

}

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

PDUSessionToBeModifiedSNModRequired-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceModRqdInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceModRqdInfo-MNterminated OPTIONAL,

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

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

-- abnormal conditions as specified in clause 8.3.4.4 apply.

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

...

}

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

...

}

PDUSessionToBeReleasedSNModRequired ::= SEQUENCE {

sn-terminated PDUSession-List-withDataForwardingRequest OPTIONAL,

mn-terminated PDUSession-List-withCause OPTIONAL,

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

...

}

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

...

}

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

--

-- S-NODE MODIFICATION CONFIRM

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

SNodeModificationConfirm ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

{ ID id-AdditionalDRBIDs CRITICALITY reject TYPE DRB-List PRESENCE optional }|

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

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

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

...

}

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

PDUSessionAdmittedModSNModConfirm-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceModConfirmInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceModConfirmInfo-MNterminated OPTIONAL,

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

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

-- abnormal conditions as specified in clause 8.3.4.4 apply.

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

...

}

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

...

}

PDUSessionReleasedSNModConfirm ::= SEQUENCE {

sn-terminated PDUSession-List-withDataForwardingFromTarget OPTIONAL,

mn-terminated PDUSession-List OPTIONAL,

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

...

}

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

...

}

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

--

-- S-NODE MODIFICATION REFUSE

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

SNodeModificationRefuse ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

...

}

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

--

-- S-NODE RELEASE REQUEST

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

SNodeReleaseRequest ::= SEQUENCE {

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

...

}

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

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

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

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

{ ID id-PDUSessionToBeReleased-RelReq CRITICALITY ignore TYPE PDUSession-List-withCause PRESENCE optional }|

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

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

{ ID id-DRBs-transferred-to-MN CRITICALITY ignore TYPE DRB-List PRESENCE optional },

...

}

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

--

-- S-NODE RELEASE REQUEST ACKNOWLEDGE

--

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

SNodeReleaseRequestAcknowledge ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSessionToBeReleased-RelReqAck CRITICALITY ignore TYPE PDUSessionToBeReleasedList-RelReqAck PRESENCE optional }|

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

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

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

...

}

PDUSessionToBeReleasedList-RelReqAck ::= SEQUENCE {

pduSessionsToBeReleasedList-SNterminated PDUSession-List-withDataForwardingRequest OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionToBeReleasedList-RelReqAck-ExtIEs} } OPTIONAL,

...

}

PDUSessionToBeReleasedList-RelReqAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- S-NODE RELEASE REJECT

--

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

SNodeReleaseReject ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

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

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-- S-NODE RELEASE REQUIRED

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

SNodeReleaseRequired ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSessionToBeReleasedList-RelRqd CRITICALITY ignore TYPE PDUSessionToBeReleasedList-RelRqd PRESENCE optional }|

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

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

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

{ ID id-PDUSessionsListToBeReleased-UPError CRITICALITY ignore TYPE PDUSessionsListToBeReleased-UPError PRESENCE optional },

...

}

PDUSessionToBeReleasedList-RelRqd ::= SEQUENCE {

pduSessionsToBeReleasedList-SNterminated PDUSession-List-withDataForwardingRequest OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionToBeReleasedList-RelRqd-ExtIEs} } OPTIONAL,

...

}

PDUSessionToBeReleasedList-RelRqd-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

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-- S-NODE RELEASE CONFIRM

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

SNodeReleaseConfirm ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSessionReleasedList-RelConf CRITICALITY ignore TYPE PDUSessionReleasedList-RelConf PRESENCE optional }|

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

...

}

PDUSessionReleasedList-RelConf ::= SEQUENCE {

pduSessionsReleasedList-SNterminated PDUSession-List-withDataForwardingFromTarget OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionReleasedList-RelConf-ExtIEs} } OPTIONAL,

...

}

PDUSessionReleasedList-RelConf-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- S-NODE COUNTER CHECK REQUEST

--

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

SNodeCounterCheckRequest ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-BearersSubjectToCounterCheck CRITICALITY ignore TYPE BearersSubjectToCounterCheck-List PRESENCE mandatory},

...

}

BearersSubjectToCounterCheck-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF BearersSubjectToCounterCheck-Item

BearersSubjectToCounterCheck-Item ::= SEQUENCE {

drb-ID DRB-ID,

ul-count INTEGER (0.. 4294967295),

dl-count INTEGER (0.. 4294967295),

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

...

}

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

...

}

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

--

-- S-NODE CHANGE REQUIRED

--

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

SNodeChangeRequired ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-target-S-NG-RANnodeID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory}|

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

{ ID id-PDUSession-SNChangeRequired-List CRITICALITY ignore TYPE PDUSession-SNChangeRequired-List PRESENCE optional }|

{ ID id-SN-to-MN-Container CRITICALITY reject TYPE OCTET STRING PRESENCE mandatory}|

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

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

{ ID id-SourcePSCellID CRITICALITY ignore TYPE GlobalNG-RANCell-ID PRESENCE optional }|

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

{ ID id-SourceSN-to-TargetSN-QMCInfo CRITICALITY ignore TYPE QMCConfigInfo PRESENCE optional },

...

}

PDUSession-SNChangeRequired-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSession-SNChangeRequired-Item

PDUSession-SNChangeRequired-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceChangeRequiredInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceChangeRequiredInfo-MNterminated OPTIONAL,

-- NOTE: If the *PDU Session Resource Change Required Info – SN terminated* IE is not present,

-- abnormal conditions as specified in clause 8.3.5.4 apply.

iE-Extension ProtocolExtensionContainer { {PDUSession-SNChangeRequired-Item-ExtIEs} } OPTIONAL,

...

}

PDUSession-SNChangeRequired-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- S-NODE CHANGE CONFIRM

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

SNodeChangeConfirm ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSession-SNChangeConfirm-List CRITICALITY ignore TYPE PDUSession-SNChangeConfirm-List PRESENCE optional }|

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

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

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

...

}

PDUSession-SNChangeConfirm-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSession-SNChangeConfirm-Item

PDUSession-SNChangeConfirm-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

sn-terminated PDUSessionResourceChangeConfirmInfo-SNterminated OPTIONAL,

mn-terminated PDUSessionResourceChangeConfirmInfo-MNterminated OPTIONAL,

-- NOTE: If the *PDU Session Resource Change Confirm Info – SN terminated* IE is not present,

-- abnormal conditions as specified in clause 8.3.5.4 apply.

iE-Extension ProtocolExtensionContainer { {PDUSession-SNChangeConfirm-Item-ExtIEs} } OPTIONAL,

...

}

PDUSession-SNChangeConfirm-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated CRITICALITY ignore EXTENSION AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated PRESENCE optional},

...

}

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

--

-- S-NODE CHANGE REFUSE

--

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

SNodeChangeRefuse ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

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

--

-- RRC TRANSFER

--

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

RRCTransfer ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-SplitSRB-RRCTransfer CRITICALITY reject TYPE SplitSRB-RRCTransfer PRESENCE optional }|

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

{ ID id-FastMCGRecoveryRRCTransfer-SN-to-MN CRITICALITY ignore TYPE FastMCGRecoveryRRCTransfer PRESENCE optional }|

{ ID id-FastMCGRecoveryRRCTransfer-MN-to-SN CRITICALITY ignore TYPE FastMCGRecoveryRRCTransfer PRESENCE optional }|

{ ID id-SDT-SRB-between-NewNode-OldNode CRITICALITY ignore TYPE SDT-SRB-between-NewNode-OldNode PRESENCE optional }|

{ ID id-QoE-Measurement-Results CRITICALITY ignore TYPE QoE-Measurement-Results PRESENCE optional },

...

}

SplitSRB-RRCTransfer ::= SEQUENCE {

rrcContainer OCTET STRING OPTIONAL,

srbType ENUMERATED {srb1, srb2, ...},

deliveryStatus DeliveryStatus OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SplitSRB-RRCTransfer-ExtIEs} } OPTIONAL,

...

}

SplitSRB-RRCTransfer-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEReportRRCTransfer::= SEQUENCE {

rrcContainer OCTET STRING,

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

...

}

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

...

}

FastMCGRecoveryRRCTransfer::= SEQUENCE {

rrcContainer OCTET STRING,

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

...

}

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

...

}

SDT-SRB-between-NewNode-OldNode::= SEQUENCE {

rrcContainer OCTET STRING,

srb-ID SRB-ID,

iE-Extensions ProtocolExtensionContainer { { SDT-SRB-between-NewNode-OldNode-ExtIEs} } OPTIONAL,

...

}

SDT-SRB-between-NewNode-OldNode-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoE-Measurement-Results ::= SEQUENCE {

qOEReference OCTET STRING (SIZE(6)),

rrcContainerForRVQoEReport OCTET STRING OPTIONAL,

rrcContainerForQoEReport OCTET STRING OPTIONAL,

appLayerSessionStatus ENUMERATED {started, stopped, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoE-Measurement-Results-ExtIEs} } OPTIONAL,

...

}

QoE-Measurement-Results-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- NOTIFICATION CONTROL INDICATION

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

NotificationControlIndication ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-PDUSessionResourcesNotifyList CRITICALITY reject TYPE PDUSessionResourcesNotifyList PRESENCE optional },

...

}

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

PDUSessionResourcesNotify-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

qosFlowsNotificationContrIndInfo QoSFlowNotificationControlIndicationInfo,

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

...

}

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

...

}

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

--

-- ACTIVITY NOTIFICATION

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

ActivityNotification ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

...

}

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

PDUSessionResourcesActivityNotify-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

pduSessionLevelUPactivityreport UserPlaneTrafficActivityReport OPTIONAL,

qosFlowsActivityNotifyList QoSFlowsActivityNotifyList OPTIONAL,

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

...

}

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

...

}

QoSFlowsActivityNotifyList ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsActivityNotifyItem

QoSFlowsActivityNotifyItem ::= SEQUENCE {

qosFlowIdentifier QoSFlowIdentifier,

pduSessionLevelUPactivityreport UserPlaneTrafficActivityReport,

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

...

}

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

...

}

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

--

-- XN SETUP REQUEST

--

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

XnSetupRequest ::= SEQUENCE {

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

...

}

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

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory}|

{ ID id-TAISupport-list CRITICALITY reject TYPE TAISupport-List PRESENCE mandatory}|

{ ID id-AMF-Region-Information CRITICALITY reject TYPE AMF-Region-Information PRESENCE mandatory}|

{ ID id-List-of-served-cells-NR CRITICALITY reject TYPE ServedCells-NR PRESENCE optional }|

{ ID id-List-of-served-cells-E-UTRA CRITICALITY reject TYPE ServedCells-E-UTRA PRESENCE optional }|

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

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

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

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

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

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

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional },

...

}

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

--

-- XN SETUP RESPONSE

--

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

XnSetupResponse ::= SEQUENCE {

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

...

}

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

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory}|

{ ID id-TAISupport-list CRITICALITY reject TYPE TAISupport-List PRESENCE mandatory}|

{ ID id-List-of-served-cells-NR CRITICALITY reject TYPE ServedCells-NR PRESENCE optional }|

{ ID id-List-of-served-cells-E-UTRA CRITICALITY reject TYPE ServedCells-E-UTRA PRESENCE optional }|

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

{ ID id-AMF-Region-Information CRITICALITY reject TYPE AMF-Region-Information PRESENCE optional }|

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

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

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

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

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

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

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional },

...

}

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

--

-- XN SETUP FAILURE

--

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

XnSetupFailure ::= SEQUENCE {

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

...

}

XnSetupFailure-IEs XNAP-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 }|

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

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

...

}

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

--

-- NG-RAN NODE CONFIGURATION UPDATE

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

NGRANNodeConfigurationUpdate ::= SEQUENCE {

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

...

}

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

{ ID id-TAISupport-list CRITICALITY reject TYPE TAISupport-List PRESENCE optional }|

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

{ ID id-TNLA-To-Add-List CRITICALITY ignore TYPE TNLA-To-Add-List PRESENCE optional }|

{ ID id-TNLA-To-Remove-List CRITICALITY ignore TYPE TNLA-To-Remove-List PRESENCE optional }|

{ ID id-TNLA-To-Update-List CRITICALITY ignore TYPE TNLA-To-Update-List PRESENCE optional }|

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE optional }|

{ ID id-AMF-Region-Information-To-Add CRITICALITY reject TYPE AMF-Region-Information PRESENCE optional }|

{ ID id-AMF-Region-Information-To-Delete CRITICALITY reject TYPE AMF-Region-Information PRESENCE optional }|

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

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

{ ID id-Coverage-Modification-List CRITICALITY reject TYPE Coverage-Modification-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier-Removal CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional },

...

}

ConfigurationUpdateInitiatingNodeChoice ::= CHOICE {

gNB ProtocolIE-Container { {ConfigurationUpdate-gNB} },

ng-eNB ProtocolIE-Container { {ConfigurationUpdate-ng-eNB} },

choice-extension ProtocolIE-Single-Container { {ServedCellsToUpdateInitiatingNodeChoice-ExtIEs} }

}

ServedCellsToUpdateInitiatingNodeChoice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ConfigurationUpdate-gNB XNAP-PROTOCOL-IES ::= {

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

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

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

{ ID id-ServedCellSpecificInfoReq-NR CRITICALITY ignore TYPE ServedCellSpecificInfoReq-NR PRESENCE optional},

...

}

ConfigurationUpdate-ng-eNB XNAP-PROTOCOL-IES ::= {

{ ID id-servedCellsToUpdate-E-UTRA CRITICALITY ignore TYPE ServedCellsToUpdate-E-UTRA PRESENCE optional }|

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

{ ID id-cellAssistanceInfo-EUTRA CRITICALITY ignore TYPE CellAssistanceInfo-EUTRA PRESENCE optional },

...

}

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

--

-- NG-RAN NODE CONFIGURATION UPDATE ACKNOWLEDGE

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

NGRANNodeConfigurationUpdateAcknowledge ::= SEQUENCE {

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

...

}

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

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

{ ID id-TNLA-Setup-List CRITICALITY ignore TYPE TNLA-Setup-List PRESENCE optional }|

{ ID id-TNLA-Failed-To-Setup-List CRITICALITY ignore TYPE TNLA-Failed-To-Setup-List PRESENCE optional }|

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

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

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

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier-Removal CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional },

...

}

RespondingNodeTypeConfigUpdateAck ::= CHOICE {

ng-eNB RespondingNodeTypeConfigUpdateAck-ng-eNB,

gNB RespondingNodeTypeConfigUpdateAck-gNB,

choice-extension ProtocolIE-Single-Container { {RespondingNodeTypeConfigUpdateAck-ExtIEs} }

}

RespondingNodeTypeConfigUpdateAck-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

RespondingNodeTypeConfigUpdateAck-ng-eNB ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {RespondingNodeTypeConfigUpdateAck-ng-eNB-ExtIEs} } OPTIONAL,

...

}

RespondingNodeTypeConfigUpdateAck-ng-eNB-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-List-of-served-cells-E-UTRA CRITICALITY ignore EXTENSION ServedCells-E-UTRA PRESENCE optional }|

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

{ ID id-CellAndCapacityAssistanceInfo-EUTRA CRITICALITY ignore EXTENSION CellAndCapacityAssistanceInfo-EUTRA PRESENCE optional },

...

}

RespondingNodeTypeConfigUpdateAck-gNB ::= SEQUENCE {

served-NR-Cells ServedCells-NR OPTIONAL,

iE-Extension ProtocolExtensionContainer { {RespondingNodeTypeConfigUpdateAck-gNB-ExtIEs} } OPTIONAL,

...

}

RespondingNodeTypeConfigUpdateAck-gNB-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

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

{ ID id-CellAndCapacityAssistanceInfo-NR CRITICALITY ignore EXTENSION CellAndCapacityAssistanceInfo-NR PRESENCE optional },

...

}

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

--

-- NG-RAN NODE CONFIGURATION UPDATE FAILURE

--

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

NGRANNodeConfigurationUpdateFailure ::= SEQUENCE {

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

...

}

NGRANNodeConfigurationUpdateFailure-IEs XNAP-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 }|

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

...

}

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

--

-- E-UTRA - NR CELL RESOURCE COORDINATION REQUEST

--

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

E-UTRA-NR-CellResourceCoordinationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-UTRA-NR-CellResourceCoordinationRequest-IEs}},

...

}

E-UTRA-NR-CellResourceCoordinationRequest-IEs XNAP-PROTOCOL-IES ::= {

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

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

...

}

InitiatingNodeType-ResourceCoordRequest ::= CHOICE {

ng-eNB ResourceCoordRequest-ng-eNB-initiated,

gNB ResourceCoordRequest-gNB-initiated,

choice-extension ProtocolIE-Single-Container { {InitiatingNodeType-ResourceCoordRequest-ExtIEs} }

}

InitiatingNodeType-ResourceCoordRequest-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ResourceCoordRequest-ng-eNB-initiated ::= SEQUENCE {

dataTrafficResourceIndication DataTrafficResourceIndication,

spectrumSharingGroupID SpectrumSharingGroupID,

listofE-UTRACells SEQUENCE (SIZE(1.. maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResourceCoordRequest-ng-eNB-initiated-ExtIEs} } OPTIONAL,

...

}

ResourceCoordRequest-ng-eNB-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResourceCoordRequest-gNB-initiated ::= SEQUENCE {

dataTrafficResourceIndication DataTrafficResourceIndication,

listofE-UTRACells SEQUENCE (SIZE(1.. maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI OPTIONAL,

spectrumSharingGroupID SpectrumSharingGroupID,

listofNRCells SEQUENCE (SIZE(1.. maxnoofCellsinNG-RANnode)) OF NR-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResourceCoordRequest-gNB-initiated-ExtIEs} } OPTIONAL,

...

}

ResourceCoordRequest-gNB-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- E-UTRA - NR CELL RESOURCE COORDINATION RESPONSE

--

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

E-UTRA-NR-CellResourceCoordinationResponse::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-UTRA-NR-CellResourceCoordinationResponse-IEs}},

...

}

E-UTRA-NR-CellResourceCoordinationResponse-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-respondingNodeType-ResourceCoordResponse CRITICALITY reject TYPE RespondingNodeType-ResourceCoordResponse PRESENCE mandatory}|

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

...

}

RespondingNodeType-ResourceCoordResponse ::= CHOICE {

ng-eNB ResourceCoordResponse-ng-eNB-initiated,

gNB ResourceCoordResponse-gNB-initiated,

choice-extension ProtocolIE-Single-Container { {RespondingNodeType-ResourceCoordResponse-ExtIEs} }

}

RespondingNodeType-ResourceCoordResponse-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ResourceCoordResponse-ng-eNB-initiated ::= SEQUENCE {

dataTrafficResourceIndication DataTrafficResourceIndication,

spectrumSharingGroupID SpectrumSharingGroupID,

listofE-UTRACells SEQUENCE (SIZE(1.. maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResourceCoordResponse-ng-eNB-initiated-ExtIEs} } OPTIONAL,

...

}

ResourceCoordResponse-ng-eNB-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResourceCoordResponse-gNB-initiated ::= SEQUENCE {

dataTrafficResourceIndication DataTrafficResourceIndication,

spectrumSharingGroupID SpectrumSharingGroupID,

listofNRCells SEQUENCE (SIZE(1.. maxnoofCellsinNG-RANnode)) OF NR-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResourceCoordResponse-gNB-initiated-ExtIEs} } OPTIONAL,

...

}

ResourceCoordResponse-gNB-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

--

-- SECONDARY RAT DATA USAGE REPORT

--

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

SecondaryRATDataUsageReport ::= SEQUENCE {

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

...

}

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

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

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

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

...

}

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

--

-- XN REMOVAL REQUEST

--

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

XnRemovalRequest ::= SEQUENCE {

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

...

}

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

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory}|

{ ID id-XnRemovalThreshold CRITICALITY reject TYPE XnBenefitValue PRESENCE optional }|

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

...

}

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

--

-- XN REMOVAL RESPONSE

--

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

XnRemovalResponse ::= SEQUENCE {

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

...

}

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

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory}|

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

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

...

}

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

--

-- XN REMOVAL FAILURE

--

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

XnRemovalFailure ::= SEQUENCE {

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

...

}

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

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

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

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

...

}

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

--

-- CELL ACTIVATION REQUEST

--

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

CellActivationRequest ::= SEQUENCE {

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

...

}

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

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

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

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

...

}

ServedCellsToActivate ::= CHOICE {

nr-cells SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF NR-CGI,

e-utra-cells SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI,

choice-extension ProtocolIE-Single-Container { {ServedCellsToActivate-ExtIEs} }

}

ServedCellsToActivate-ExtIEs XNAP-PROTOCOL-IES ::= {

{ ID id-NRCellsAndSSBsList CRITICALITY ignore TYPE ToBeActivatedNRCellsAndSSBsList PRESENCE mandatory},

...

}

ToBeActivatedNRCellsAndSSBsList ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF ToBeActivatedNRCellsAndSSBs-Item

ToBeActivatedNRCellsAndSSBs-Item ::= SEQUENCE {

nrCGI NR-CGI,

sSBstobeActivatedList SEQUENCE (SIZE(1.. maxnoofSSBAreas)) OF SSBsToBeActivated-Item OPTIONAL,

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

...

}

ToBeActivatedNRCellsAndSSBs-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {  
 ...

}

SSBsToBeActivated-Item ::= SEQUENCE {

ssbIndex INTEGER(0..63),

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

...

}

SSBsToBeActivated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {  
 ...

}

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

--

-- CELL ACTIVATION RESPONSE

--

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

CellActivationResponse ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

ActivatedServedCells ::= CHOICE {

nr-cells SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF NR-CGI,

e-utra-cells SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI,

choice-extension ProtocolIE-Single-Container { {ActivatedServedCells-ExtIEs} }

}

ActivatedServedCells-ExtIEs XNAP-PROTOCOL-IES ::= {

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

...

}

ActivatedNRCellsAndSSBsList ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF ActivatedNRCellsAndSSBs-Item

ActivatedNRCellsAndSSBs-Item ::= SEQUENCE {

nrCGI NR-CGI,

sSBsActivatedList SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBsActivated-Item OPTIONAL,

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

...

}

ActivatedNRCellsAndSSBs-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {  
 ...

}

SSBsActivated-Item ::= SEQUENCE {

ssbIndex INTEGER(0..63),

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

...

}

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

...

}

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

--

-- CELL ACTIVATION FAILURE

--

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

CellActivationFailure ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

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

--

-- RESET REQUEST

--

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

ResetRequest ::= SEQUENCE {

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

...

}

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

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

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

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

...

}

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

--

-- RESET RESPONSE

--

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

ResetResponse ::= SEQUENCE {

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

...

}

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

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

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

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

...

}

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

--

-- ERROR INDICATION

--

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

ErrorIndication ::= SEQUENCE {

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

...

}

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

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE optional }|

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE optional }|

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

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

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

...

}

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

--

-- PRIVATE MESSAGE

--

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

PrivateMessage ::= SEQUENCE {

privateIEs PrivateIE-Container {{PrivateMessage-IEs}},

...

}

PrivateMessage-IEs XNAP-PRIVATE-IES ::= {

...

}

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

--

-- TRACE START

--

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

TraceStart ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TraceStartIEs} },

...

}

TraceStartIEs XNAP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- DEACTIVATE TRACE

--

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

DeactivateTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DeactivateTraceIEs} },

...

}

DeactivateTraceIEs XNAP-PROTOCOL-IES ::= {

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

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

{ ID id-NG-RANTraceID CRITICALITY ignore TYPE NG-RANTraceID PRESENCE mandatory},

...

}

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

--

-- FAILURE INDICATION

--

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

FailureIndication ::= SEQUENCE {

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

...

}

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

{ ID id-InitiatingCondition-FailureIndication CRITICALITY reject TYPE InitiatingCondition-FailureIndication PRESENCE mandatory},

...

}

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

--

-- HANDOVER REPORT

--

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

HandoverReport ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-SourceCellCGI CRITICALITY ignore TYPE GlobalNG-RANCell-ID PRESENCE mandatory }|

{ ID id-TargetCellCGI CRITICALITY ignore TYPE GlobalNG-RANCell-ID PRESENCE mandatory }|

{ ID id-ReEstablishmentCellCGI CRITICALITY ignore TYPE GlobalCell-ID PRESENCE conditional }|

-- This IE shall be present if the *Handover Report Type* IE is set to the value "HO to wrong cell"

{ ID id-TargetCellinEUTRAN CRITICALITY ignore TYPE TargetCellinEUTRAN PRESENCE conditional }|

-- This IE shall be present if the *Handover Report Type* IE is set to the value "Inter-system ping-pong"

{ ID id-SourceCellCRNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional }|

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

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

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

{ ID id-TargetCellCRNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional}|

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

...

}

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

--

-- RESOURCE STATUS REQUEST

--

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

ResourceStatusRequest ::= SEQUENCE {

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

...

}

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

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY ignore TYPE Measurement-ID PRESENCE conditional}|

-- This IE shall be present if the *Registration Request* IE is set to the value "stop" or "add".

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

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

-- This IE shall be present if the *Registration Request* IE is set to the value "start".

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

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

...

}

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

--

-- RESOURCE STATUS RESPONSE

--

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

ResourceStatusResponse ::= SEQUENCE {

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

...

}

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

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

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

...

}

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

--

-- RESOURCE STATUS FAILURE

--

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

ResourceStatusFailure ::= SEQUENCE {

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

...

}

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

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

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

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

...

}

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

--

-- RESOURCE STATUS UPDATE

--

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

ResourceStatusUpdate ::= SEQUENCE {

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

...

}

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

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

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

...

}

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

--

-- MOBILITY CHANGE REQUEST

--

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

MobilityChangeRequest ::= SEQUENCE {

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

...

}

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

{ ID id-NG-RANnode1CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

{ ID id-NG-RANnode2CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

{ ID id-NG-RANnode1MobilityParameters CRITICALITY ignore TYPE MobilityParametersInformation PRESENCE optional}|

{ ID id-NG-RANnode2ProposedMobilityParameters CRITICALITY reject TYPE MobilityParametersInformation PRESENCE mandatory}|

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

{ ID id-SSBOffsets-List CRITICALITY ignore TYPE SSBOffsets-List PRESENCE optional},

...

}

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

--

-- MOBILITY CHANGE ACKNOWLEDGE

--

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

MobilityChangeAcknowledge ::= SEQUENCE {

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

...

}

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

{ ID id-NG-RANnode1CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

{ ID id-NG-RANnode2CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

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

...

}

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

--

-- MOBILITY CHANGE FAILURE

--

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

MobilityChangeFailure ::= SEQUENCE {

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

...

}

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

{ ID id-NG-RANnode1CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

{ ID id-NG-RANnode2CellID CRITICALITY reject TYPE GlobalNG-RANCell-ID PRESENCE mandatory}|

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

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

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

{ ID id-NG-RANnode2SSBOffsetsModificationRange CRITICALITY ignore TYPE NG-RANnode2SSBOffsetsModificationRange PRESENCE optional},

...

}

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

--

-- ACCESS AND MOBILITY INDICATION

--

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

AccessAndMobilityIndication ::= SEQUENCE {

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

...

}

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

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

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

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

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

...

}

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

--

-- CELL TRAFFIC TRACE

--

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

CellTrafficTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CellTrafficTraceIEs} },

...

}

CellTrafficTraceIEs XNAP-PROTOCOL-IES ::= {

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

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

{ ID id-NG-RANTraceID CRITICALITY ignore TYPE NG-RANTraceID 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 URIaddress PRESENCE optional },

...

}

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

--

-- RAN MULTICAST GROUP PAGING

--

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

RANMulticastGroupPaging ::= SEQUENCE {

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

...

}

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

{ ID id-MBS-Session-ID CRITICALITY reject TYPE MBS-Session-ID PRESENCE mandatory}|

{ ID id-UEIdentityIndexList-MBSGroupPaging CRITICALITY reject TYPE UEIdentityIndexList-MBSGroupPaging PRESENCE mandatory}|

{ ID id-MulticastRANPagingArea CRITICALITY reject TYPE RANPagingArea PRESENCE mandatory},

...

}

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

--

-- SCG FAILURE INFORMATION REPORT

--

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

ScgFailureInformationReport ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-SourcePSCellCGI CRITICALITY ignore TYPE GlobalNG-RANCell-ID PRESENCE optional }|

{ ID id-FailedPSCellCGI CRITICALITY ignore TYPE GlobalNG-RANCell-ID PRESENCE optional }|

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

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

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

...

}

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

--

-- SCG FAILURE TRANSFER

--

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

ScgFailureTransfer ::= SEQUENCE {

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

...

}

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

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

{ ID id-S-NG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory},

...

}

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

--

-- F1-C TRAFFIC TRANSFER

--

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

F1CTrafficTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ F1CTrafficTransfer-IEs}},

...

}

F1CTrafficTransfer-IEs XNAP-PROTOCOL-IES ::= {

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

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

{ ID id-F1CTrafficContainer CRITICALITY reject TYPE F1CTrafficContainer PRESENCE mandatory},

...

}

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

--

-- IAB TRANSPORT MIGRATION MANAGEMENT REQUEST

--

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

IABTransportMigrationManagementRequest ::= SEQUENCE {

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

...

}

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

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

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

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

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

{ ID id-MIAB-MT-BAP-Address CRITICALITY reject TYPE BAPAddress PRESENCE optional },

...

}

TrafficToBeAddedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficToBeAdded-Item

TrafficToBeAdded-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

trafficProfile TrafficProfile,

f1-TerminatingTopologyBHInformation F1-TerminatingTopologyBHInformation OPTIONAL,

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

...

}

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

...

}

TrafficToBeModifiedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficToBeModified-Item

TrafficToBeModified-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

trafficProfile TrafficProfile OPTIONAL,

f1-TerminatingTopologyBHInformation F1-TerminatingTopologyBHInformation OPTIONAL,

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

...

}

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

...

}

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

--

-- IAB TRANSPORT MIGRATION MANAGEMENT RESPONSE

--

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

IABTransportMigrationManagementResponse ::= SEQUENCE {

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

...

}

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

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

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

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

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

{ ID id-TrafficReleasedList CRITICALITY reject TYPE TrafficReleasedList PRESENCE optional },

...

}

TrafficAddedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficAdded-Item

TrafficAdded-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

non-F1-TerminatingTopologyBHInformation Non-F1-TerminatingTopologyBHInformation,

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

...

}

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

...

}

TrafficModifiedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficModified-Item

TrafficModified-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

non-F1-TerminatingTopologyBHInformation Non-F1-TerminatingTopologyBHInformation,

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

...

}

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

...

}

TrafficNotAddedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficNotAdded-Item

TrafficNotAdded-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

casue Cause OPTIONAL,

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

...

}

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

...

}

TrafficNotModifiedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficNotModified-Item

TrafficNotModified-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

cause Cause OPTIONAL,

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

...

}

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

...

}

TrafficReleasedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficReleased-Item

TrafficReleased-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

bHInfoList BHInfoList OPTIONAL,

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

...

}

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

...

}

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

--

-- IAB TRANSPORT MIGRATION MANAGEMENT REJECT

--

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

IABTransportMigrationManagementReject ::= SEQUENCE {

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

...

}

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

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

...

}

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

--

-- IAB TRANSPORT MIGRATION MODIFICATION REQUEST

--

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

IABTransportMigrationModificationRequest ::= SEQUENCE {

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

...

}

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

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

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

{ ID id-IABTNLAddressToBeAdded CRITICALITY reject TYPE IAB-TNL-Address-Response PRESENCE optional }|

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

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

{ ID id-MobileIAB-AuthorizationStatus CRITICALITY ignore TYPE MobileIAB-AuthorizationStatus PRESENCE optional },

...

}

TrafficRequiredToBeModifiedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficRequiredToBeModified-Item

TrafficRequiredToBeModified-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

non-f1-TerminatingTopologyBHInformation Non-F1-TerminatingTopologyBHInformation,

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

...

}

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

...

}

IABTNLAddressToBeReleasedList ::= SEQUENCE (SIZE(1..maxnoofTLAsIAB)) OF IABTNLAddressToBeReleased-Item

IABTNLAddressToBeReleased-Item ::= SEQUENCE {

iabTNLAddress IABTNLAddress,

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

...

}

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

...

}

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

--

-- IAB TRANSPORT MIGRATION MODIFICATION RESPONSE

--

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

IABTransportMigrationModificationResponse ::= SEQUENCE {

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

...

}

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

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

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

{ ID id-TrafficReleasedList CRITICALITY reject TYPE TrafficReleasedList PRESENCE optional },

...

}

TrafficRequiredModifiedList ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficRequiredModified-Item

TrafficRequiredModified-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

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

...

}

TrafficRequiredModified-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IAB RESOURCE COORDINATION REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IABResourceCoordinationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ IABResourceCoordinationRequest-IEs}},

...

}

IABResourceCoordinationRequest-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-BoundaryNodeCellsList CRITICALITY reject TYPE BoundaryNodeCellsList PRESENCE optional }|

{ ID id-ParentNodeCellsList CRITICALITY reject TYPE ParentNodeCellsList PRESENCE optional },

...

}

BoundaryNodeCellsList ::= SEQUENCE (SIZE(1..maxnoofServedCellsIAB)) OF BoundaryNodeCellsList-Item

BoundaryNodeCellsList-Item ::= SEQUENCE {

boundaryNodeCellInformation IABCellInformation,

iE-Extensions ProtocolExtensionContainer { {BoundaryNodeCellsList-Item-ExtIEs} } OPTIONAL,

...

}

BoundaryNodeCellsList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ParentNodeCellsList ::= SEQUENCE (SIZE(1..maxnoofServingCells)) OF ParentNodeCellsList-Item

ParentNodeCellsList-Item ::= SEQUENCE {

parentNodeCellInformation IABCellInformation,

iE-Extensions ProtocolExtensionContainer { {ParentNodeCellsList-Item-ExtIEs} } OPTIONAL,

...

}

ParentNodeCellsList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IAB RESOURCE COORDINATION RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IABResourceCoordinationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ IABResourceCoordinationResponse-IEs}},

...

}

IABResourceCoordinationResponse-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-F1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-nonF1-Terminating-IAB-DonorUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-BoundaryNodeCellsList CRITICALITY reject TYPE BoundaryNodeCellsList PRESENCE optional }|

{ ID id-ParentNodeCellsList CRITICALITY reject TYPE ParentNodeCellsList PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- CONDITIONAL PSCELL CHANGE CANCEL

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CPCCancel ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ CPCCancel-IEs}},

...

}

CPCCancel-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-M-NG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-S-NG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional }|

{ ID id-target-S-NG-RANnodeID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PARTIAL UE CONTEXT TRANSFER

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PartialUEContextTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PartialUEContextTransfer-IEs}},

...

}

PartialUEContextTransfer-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY reject TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-SDTPartialUEContextInfo CRITICALITY ignore TYPE SDTPartialUEContextInfo PRESENCE mandatory}|

{ ID id-PosPartialUEContextInfo CRITICALITY ignore TYPE PosPartialUEContextInfo PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PARTIAL UE CONTEXT TRANSFER ACKNOWLEDGE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PartialUEContextTransferAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PartialUEContextTransferAcknowledge-IEs}},

...

}

PartialUEContextTransferAcknowledge-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-SDTDataForwardingDRBList CRITICALITY ignore TYPE SDTDataForwardingDRBList PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }|

{ ID id-SRSConfiguration CRITICALITY ignore TYPE SRSConfiguration PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PARTIAL UE CONTEXT TRANSFER FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PartialUEContextTransferFailure::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PartialUEContextTransferFailure-IEs}},

...

}

PartialUEContextTransferFailure-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-newNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-oldNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- RACH INDICATION

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

RachIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ RachIndication-IEs}},

...

}

RachIndication-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-RaReportIndicationList CRITICALITY reject TYPE RaReportIndicationList PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DATA COLLECTION REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataCollectionRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{DataCollectionRequest-IEs}},

...

}

DataCollectionRequest-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY ignore TYPE Measurement-ID PRESENCE conditional}|

-- This IE shall be present if the *Registration Request for Data Collection* IE is set to the value "stop".

{ ID id-RegistrationRequestForDataCollection CRITICALITY reject TYPE RegistrationRequestForDataCollection PRESENCE mandatory}|

{ ID id-ReportCharacteristicsForDataCollection CRITICALITY reject TYPE ReportCharacteristicsForDataCollection PRESENCE conditional}|

-- This IE shall be present if the *Registration Request for Data Collection* IE is set to the value "start".

{ ID id-CellToReportForDataCollection-List CRITICALITY ignore TYPE CellToReportForDataCollection-List PRESENCE optional}|

{ ID id-ReportingPeriodicityForDataCollection CRITICALITY ignore TYPE ReportingPeriodicityForDataCollection PRESENCE optional}|

{ ID id-RequestedPredictionTime CRITICALITY ignore TYPE RequestedPredictionTime PRESENCE optional}|

{ ID id-UETrajectoryCollectionConfiguration CRITICALITY ignore TYPE UETrajectoryCollectionConfiguration PRESENCE optional}|

{ ID id-UEPerformanceCollectionConfiguration CRITICALITY ignore TYPE UEPerformanceCollectionConfiguration PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DATA COLLECTION RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataCollectionResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{DataCollectionResponse-IEs}},

...

}

DataCollectionResponse-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NodeMeasurementInitiationResult-List CRITICALITY reject TYPE NodeMeasurementInitiationResult-List PRESENCE optional}|

{ ID id-CellMeasurementInitiationResult-List CRITICALITY reject TYPE CellMeasurementInitiationResult-List PRESENCE optional}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DATA COLLECTION FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataCollectionFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{DataCollectionFailure-IEs}},

...

}

DataCollectionFailure-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DATA COLLECTION UPDATE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataCollectionUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{DataCollectionUpdate-IEs}},

...

}

DataCollectionUpdate-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-NGRAN-Node1-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-NGRAN-Node2-Measurement-ID CRITICALITY reject TYPE Measurement-ID PRESENCE mandatory}|

{ ID id-CellMeasurementResultForDataCollection-List CRITICALITY ignore TYPE CellMeasurementResultForDataCollection-List PRESENCE optional }|

{ ID id-UEAssociatedInfoResult-List CRITICALITY ignore TYPE UEAssociatedInfoResult-List PRESENCE optional }|

{ ID id-NodeAssociatedInfoResult CRITICALITY ignore TYPE NodeAssociatedInfoResult PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- CLI Indication

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CLI-Indication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{CLI-Indication-IEs}},

...

}

CLI-Indication-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-CLI-MeasurementResult-List CRITICALITY ignore TYPE CLI-MeasurementResult-List PRESENCE mandatory },

...

}

END

-- ASN1STOP

9.3.5 Information Element definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Information Element Definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XnAP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) xnap (2) version1 (1) xnap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-CNTypeRestrictionsForEquivalent,

id-CNTypeRestrictionsForServing,

id-Additional-UL-NG-U-TNLatUPF-List,

id-ConfiguredTACIndication,

id-AlternativeQoSParaSetList,

id-CurrentQoSParaSetIndex,

id-DefaultDRB-Allowed,

id-DLCarrierList,

id-EndpointIPAddressAndPort,

id-ExtendedReportIntervalMDT,

id-ExtendedTAISliceSupportList,

id-FiveGCMobilityRestrictionListContainer,

id-SecondarydataForwardingInfoFromTarget-List,

id-LastE-UTRANPLMNIdentity,

id-LTEA2XUEPC5AggregateMaximumBitRate,

id-IntendedTDD-DL-ULConfiguration-NR,

id-MaxIPrate-DL,

id-SecurityResult,

id-OldQoSFlowMap-ULendmarkerexpected,

id-PDUSessionCommonNetworkInstance,

id-PDUSession-PairID,

id-BPLMN-ID-Info-EUTRA,

id-BPLMN-ID-Info-NR,

id-DRBsNotAdmittedSetupModifyList,

id-Secondary-MN-Xn-U-TNLInfoatM,

id-ULForwardingProposal,

id-DRB-IDs-takenintouse,

id-SplitSessionIndicator,

id-NonGBRResources-Offered,

id-MDT-Configuration,

id-TraceCollectionEntityURI,

id-NPN-Broadcast-Information,

id-NPNPagingAssistanceInformation,

id-NPNMobilityInformation,

id-NPN-Support,

id-LTEUESidelinkAggregateMaximumBitRate,

id-NRA2XUEPC5AggregateMaximumBitRate,

id-NRUESidelinkAggregateMaximumBitRate,

id-ExtendedRATRestrictionInformation,

id-QoSMonitoringRequest,

id-QoSMonitoringDisabled,

id-QosMonitoringReportingFrequency,

id-DAPSRequestInfo,

id-OffsetOfNbiotChannelNumberToDL-EARFCN,

id-OffsetOfNbiotChannelNumberToUL-EARFCN,

id-NBIoT-UL-DL-AlignmentOffset,

id-TDDULDLConfigurationCommonNR,

id-CarrierList,

id-ULCarrierList,

id-FrequencyShift7p5khz,

id-SSB-PositionsInBurst,

id-NRCellPRACHConfig,

id-Redundant-UL-NG-U-TNLatUPF,

id-Redundant-DL-NG-U-TNLatNG-RAN,

id-CNPacketDelayBudgetDownlink,

id-CNPacketDelayBudgetUplink,

id-ExtendedPacketDelayBudget,

id-Additional-Redundant-UL-NG-U-TNLatUPF-List,

id-RedundantCommonNetworkInstance,

id-TSCTrafficCharacteristics,

id-RedundantQoSFlowIndicator,

id-Additional-PDCP-Duplication-TNL-List,

id-RedundantPDUSessionInformation,

id-UsedRSNInformation,

id-RLCDuplicationInformation,

id-CSI-RSTransmissionIndication,

id-UERadioCapabilityID,

id-secondary-SN-UL-PDCP-UP-TNLInfo,

id-pdcpDuplicationConfiguration,

id-duplicationActivation,

id-NPRACHConfiguration,

id-QoSFlowsMappedtoDRB-SetupResponse-MNterminated,

id-DL-scheduling-PDCCH-CCE-usage,

id-UL-scheduling-PDCCH-CCE-usage,

id-SFN-Offset,

id-QoS-Mapping-Information,

id-AdditionLocationInformation,

id-dataForwardingInfoFromTargetE-UTRANnode,

id-Cause,

id-SecurityIndication,

id-RRCConnReestab-Indicator,

id-SourceDLForwardingIPAddress,

id-SourceNodeDLForwardingIPAddress,

id-M4ReportAmount,

id-M5ReportAmount,

id-M6ReportAmount,

id-M7ReportAmount,

id-BeamMeasurementIndicationM1,

id-Supported-MBS-FSA-ID-List,

id-MBS-AssistanceInformation,

id-MBS-SessionAssociatedInformation,

id-MBS-SessionInformation-List,

id-SliceRadioResourceStatus-List,

id-CompositeAvailableCapacitySupplementaryUplink,

id-SSBOffsets-List,

id-NG-RANnode2SSBOffsetsModificationRange,

id-NR-U-Channel-List,

id-NR-U-ChannelInfo-List,

id-MIMOPRBusageInformation,

id-UEAssistantIdentifier,

id-IAB-MT-Cell-List,

id-NoPDUSessionIndication,

id-permutation,

id-UL-GNB-DU-Cell-Resource-Configuration,

id-DL-GNB-DU-Cell-Resource-Configuration,

id-tdd-GNB-DU-Cell-Resource-Configuration,

id-Additional-Measurement-Timing-Configuration-List,

id-SurvivalTime,

id-Local-NG-RAN-Node-Identifier,

id-Neighbour-NG-RAN-Node-List,

id-FiveGProSeUEPC5AggregateMaximumBitRate,

id-Redcap-Bcast-Information,

id-UESliceMaximumBitRateList,

id-PositioningInformation,

id-ServedCellSpecificInfoReq-NR,

id-TAINSAGSupportList,

id-earlyMeasurement,

id-BeamMeasurementsReportConfiguration,

id-CoverageModificationCause,

id-UERLFReportContainerLTEExtension,

id-ExcessPacketDelayThresholdConfiguration,

id-Full-and-Short-I-RNTI-Profile-List,

id-QosFlowMappingIndication,

id-EquivalentSNPNs,

id-CHOTimeBasedInformation,

id-ChannelOccupancyTimePercentageUL,

id-EnergyDetectionThresholdUL,

id-PSCellListContainer,

id-RadioResourceStatusNR-U,

id-FiveGProSeLayer2Multipath,

id-FiveGProSeLayer2UEtoUERelay,

id-FiveGProSeLayer2UEtoUERemote,

id-ClockQualityReportingControlInfo,

id-CapabilityForBATAdaptation,

id-PNI-NPNBasedMDT,

id-PNI-NPN-AreaScopeofMDT,

id-SNPN-CellBasedMDT,

id-SNPN-TAIBasedMDT,

id-SNPN-BasedMDT,

id-S-CPAC-Request,

id-S-CPAC-Request-Info,

id-S-CPAC-ReferenceConfigRequest,

id-S-CPAC-InterSN-ExecutionNotify,

id-S-CPAC-dataforwardinginfofromSource,

id-CPACcandidatePSCells-wotherInfo-list,

id-eRedcap-Bcast-Information,

id-NRPagingLongeDRXInformationforRRCINACTIVE,

id-MBSCommServiceType,

id-AssistanceInformationQoE-Meas,

id-QoERVQoEReportingPaths,

id-DirectForwardingPathAvailability,

id-CHO-CPAC-Info,

id-CHO-Maxnoof-CondReconfig,

id-PDUSetQoSParameters,

id-N6JitterInformation,

id-ECNMarkingorCongestionInformationReportingRequest,

id-TAISliceUnavailableCellList,

id-MobileIABCell,

id-XR-Bcast-Information,

id-MaximumDataBurstVolume,

id-CPAC-Preparation-Type,

id-MN-only-MDT-collection,

id-BarringExemptionforEmerCallInfo,

id-Transmission-Bandwidth-asymmetric,

id-NRPPaPositioningInformation,

id-SBFD-Frequency-Configuration,

id-NZP-CSI-RS-Resources-Config, maxEARFCN,

maxnoofAllowedAreas,

maxnoofAMFRegions,

maxnoofAoIs,

maxnoofBPLMNs,

maxnoofCAGs,

maxnoofCAGsperPLMN,

maxnoofCellsinAoI,

maxnoofCellsinNG-RANnode,

maxnoofCellsinRNA,

maxnoofCellsinUEHistoryInfo,

maxnoofCellsUEMovingTrajectory,

maxnoofDRBs,

maxnoofEPLMNs,

maxnoofEPLMNsplus1,

maxnoofEUTRABands,

maxnoofEUTRABPLMNs,

maxnoofForbiddenTACs,

maxnoofMBSFNEUTRA,

maxnoofMultiConnectivityMinusOne,

maxnoofNeighbours,

maxnoofNIDs,

maxnoofNRCellBands,

maxnoofPDUSessions,

maxnoofPLMNs,

maxnoofProtectedResourcePatterns,

maxnoofQoSFlows,

maxnoofQoSParaSets,

maxnoofRANAreaCodes,

maxnoofRANAreasinRNA,

maxnoofSCellGroups,

maxnoofSCellGroupsplus1,

maxnoofSliceItems,

maxnoofExtSliceItems,

maxnoofSNPNIDs,

maxnoofsupportedTACs,

maxnoofsupportedPLMNs,

maxnoofTAI,

maxnoofTAIsinAoI,

maxnoofTNLAssociations,

maxnoofUEContexts,

maxNRARFCN,

maxNrOfErrors,

maxnoofRANNodesinAoI,

maxnooftimeperiods,

maxnoofslots,

maxnoofExtTLAs,

maxnoofGTPTLAs,

maxnoofCHOcells,

maxnoofPC5QoSFlows,

maxnoofSSBAreas,

maxnoofNRSCSs,

maxnoofPhysicalResourceBlocks,

maxnoofRAReports,

maxnoofAdditionalPDCPDuplicationTNL,

maxnoofRLCDuplicationstate,

maxnoofBluetoothName,

maxnoofCellIDforMDT,

maxnoofMDTPLMNs,

maxnoofTAforMDT,

maxnoofWLANName,

maxnoofSensorName,

maxnoofNeighPCIforMDT,

maxnoofFreqforMDT,

maxnoofNonAnchorCarrierFreqConfig,

maxnoofDataForwardingTunneltoE-UTRAN,

maxnoofUEIDIndicesforMBSPaging,

maxnoofMBSFSAs,

maxnoofMBSQoSFlows,

maxnoofMRBs,

maxnoofCellsforMBS,

maxnoofMBSServiceAreaInformation,

maxnoofTAIforMBS,

maxnoofAssociatedMBSSessions,

maxnoofMBSSessions,

maxnoofSuccessfulHOReports,

maxnoofPSCellsPerSN,

maxnoofNR-UChannelIDs,

maxnoofCellsinCHO,

maxnoofCHOexecutioncond,

maxnoofServingCells,

maxnoofBHInfo,

maxnoofTLAsIAB,

maxnoofTrafficIndexEntries,

maxnoofBAPControlPDURLCCHs,

maxnoofServedCellsIAB,

maxnoofDUFSlots,

maxnoofSymbols,

maxnoofHSNASlots,

maxnoofRBsetsPerCell,

maxnoofChildIABNodes,

maxnoofIABSTCInfo,

maxnoofPSCellCandidates,

maxnoofTargetSNs,

maxnoofUEAppLayerMeas,

maxnoofSNSSAIforQMC,

maxnoofCellIDforQMC,

maxnoofPLMNforQMC,

maxnoofTAforQMC,

maxnoofMTCItems,

maxnoofCSIRSconfigurations,

maxnoofCSIRSneighbourCells,

maxnoofCSIRSneighbourCellsInMTC,

maxnoofNeighbour-NG-RAN-Nodes,

maxnoofSRBs,

maxnoofSMBR,

maxnoofNSAGs,

maxnoofRBsetsPerCell1,

maxnoofTargetSNsMinusOne,

maxnoofThresholdsForExcessPacketDelay,

maxnoofESNPNs,

maxnoofSuccessfulPSCellChangeReports,

maxnoofUEsforRAReportIndications,

maxnoofPSCellsinCPAC,

maxnoofCPACexecutioncond,

maxnoofLBTFailureInformation,

maxnoofCellsTrajectoryPredict,

maxnoofCellsTrajectory,

maxFailedCellMeasObjects,

maxFailedMeasPerNode,

maxnoofUEReports,

maxnoofCandidateRelayUEs,

maxnoofCAGforMDT,

maxnoofMDTSNPNs,

maxnoofSecurityConfigurations,

maxnoofRSPPQoSFlows,

maxnoofNZP-CSI-RS-ResourcesPerSet

FROM XnAP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

FROM XnAP-CommonDataTypes

ProtocolExtensionContainer{},

ProtocolIE-Single-Container{},

XNAP-PROTOCOL-EXTENSION,

XNAP-PROTOCOL-IES

FROM XnAP-Containers;

-- A

A2XPC5QoSParameters ::= SEQUENCE {

a2XPC5QoSFlowList A2XPC5QoSFlowList,

aA2XPC5LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { A2XPC5QoSParameters-ExtIEs} } OPTIONAL,

...

}

A2XPC5QoSParameters-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

A2XPC5QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofPC5QoSFlows)) OF A2XPC5QoSFlowItem

A2XPC5QoSFlowItem ::= SEQUENCE {

a2XpQI FiveQI,

a2Xpc5FlowBitRates A2XPC5FlowBitRates OPTIONAL,

a2Xrange Range OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { A2XPC5QoSFlowItem-ExtIEs} } OPTIONAL,

...

}

A2XPC5QoSFlowItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

A2XPC5FlowBitRates ::= SEQUENCE {

a2XguaranteedFlowBitRate BitRate,

a2XmaximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { A2XPC5FlowBitRates-ExtIEs} } OPTIONAL,

...

}

A2XPC5FlowBitRates-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated ::= SEQUENCE (SIZE(1..maxnoofTargetSNsMinusOne)) OF AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated-Item

AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated-Item ::= SEQUENCE {

pDUSessionResourceChangeConfirmInfo-SNterminated PDUSessionResourceChangeConfirmInfo-SNterminated,

iE-Extensions ProtocolExtensionContainer { { AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AveragePacketDelay ::= SEQUENCE {

uL-AveragePacketDelay AveragePacketDelayValue,

dL-AveragePacketDelay AveragePacketDelayValue,

iE-Extensions ProtocolExtensionContainer { {AveragePacketDelay-ExtIEs} } OPTIONAL,

...

}

AveragePacketDelay-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AveragePacketDelayValue ::= INTEGER (0..10000)

AdditionLocationInformation ::= ENUMERATED {

includePSCell,

...

}

Additional-PDCP-Duplication-TNL-List ::= SEQUENCE (SIZE(1..maxnoofAdditionalPDCPDuplicationTNL)) OF Additional-PDCP-Duplication-TNL-Item

Additional-PDCP-Duplication-TNL-Item ::= SEQUENCE {  
 additional-PDCP-Duplication-UP-TNL-Information UPTransportLayerInformation,  
 iE-Extensions ProtocolExtensionContainer { { Additional-PDCP-Duplication-TNL-ExtIEs} } OPTIONAL,  
 ...  
}

Additional-PDCP-Duplication-TNL-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

Additional-UL-NG-U-TNLatUPF-Item ::= SEQUENCE {

additional-UL-NG-U-TNLatUPF UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { { Additional-UL-NG-U-TNLatUPF-Item-ExtIEs} } OPTIONAL,

...

}

Additional-UL-NG-U-TNLatUPF-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-PDUSessionCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional},

...

}

Additional-UL-NG-U-TNLatUPF-List ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF Additional-UL-NG-U-TNLatUPF-Item

Additional-Measurement-Timing-Configuration-List ::= SEQUENCE (SIZE(1.. maxnoofMTCItems)) OF Additional-Measurement-Timing-Configuration-Item

Additional-Measurement-Timing-Configuration-Item ::= SEQUENCE {

additionalMeasurementTimingConfigurationIndex INTEGER (0..16),

csi-RS-MTC-Configuration-List CSI-RS-MTC-Configuration-List,

iE-Extensions ProtocolExtensionContainer { { Additional-Measurement-Timing-Configuration-Item-ExtIEs} } OPTIONAL,

...

}

Additional-Measurement-Timing-Configuration-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ActivationIDforCellActivation ::= INTEGER (0..255)

Active-MBS-SessionInformation ::= SEQUENCE {

mBS-QoSFlowsToAdd-List MBS-QoSFlowsToAdd-List,

mBS-ServiceArea MBS-ServiceArea OPTIONAL,

mBS-MappingandDataForwardingRequestInfofromSource MBS-MappingandDataForwardingRequestInfofromSource OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Active-MBS-SessionInformation-ExtIEs} } OPTIONAL,

...

}

Active-MBS-SessionInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DataCollectionID ::= SEQUENCE {

nGRAN-Node1-Measurement-ID Measurement-ID,

nGRAN-Node2-Measurement-ID Measurement-ID,

iE-Extensions ProtocolExtensionContainer { { DataCollectionID-ExtIEs} } OPTIONAL,

...

}

DataCollectionID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AerialControllerUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

AerialUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

AerialUESubscriptionInformation ::= ENUMERATED {

allowed,

not-allowed,

...

}

AllocationandRetentionPriority ::= SEQUENCE {

priorityLevel INTEGER (0..15,...),

pre-emption-capability ENUMERATED {shall-not-trigger-preemption, may-trigger-preemption, ...},

pre-emption-vulnerability ENUMERATED {not-preemptable, preemptable, ...},

iE-Extensions ProtocolExtensionContainer { {AllocationandRetentionPriority-ExtIEs} } OPTIONAL,

...

}

AllocationandRetentionPriority-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ActivationSFN ::= INTEGER (0..1023)

AllowedCAG-ID-List-perPLMN ::= SEQUENCE (SIZE(1..maxnoofCAGsperPLMN)) OF CAG-Identifier

AllowedPNI-NPN-ID-List ::= SEQUENCE (SIZE(1..maxnoofEPLMNsplus1)) OF AllowedPNI-NPN-ID-Item

AllowedPNI-NPN-ID-Item ::= SEQUENCE {

plmn-id PLMN-Identity,

pni-npn-restricted-information PNI-NPN-Restricted-Information,

allowed-CAG-id-list-per-plmn AllowedCAG-ID-List-perPLMN,

iE-Extensions ProtocolExtensionContainer { {AllowedPNI-NPN-ID-Item-ExtIEs} } OPTIONAL,

...

}

AllowedPNI-NPN-ID-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AllTrafficIndication ::= ENUMERATED {true,...}

AlternativeQoSParaSetList ::= SEQUENCE (SIZE(1..maxnoofQoSParaSets)) OF AlternativeQoSParaSetItem

AlternativeQoSParaSetItem ::= SEQUENCE {

alternativeQoSParaSetIndex QoSParaSetIndex,

guaranteedFlowBitRateDL BitRate OPTIONAL,

guaranteedFlowBitRateUL BitRate OPTIONAL,

packetDelayBudget PacketDelayBudget OPTIONAL,

packetErrorRate PacketErrorRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AlternativeQoSParaSetItem-ExtIEs} } OPTIONAL,

...

}

AlternativeQoSParaSetItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-MaximumDataBurstVolume CRITICALITY ignore EXTENSION MaximumDataBurstVolume PRESENCE optional },

...

}

AMF-Region-Information ::= SEQUENCE (SIZE (1..maxnoofAMFRegions)) OF GlobalAMF-Region-Information

GlobalAMF-Region-Information ::= SEQUENCE {

plmn-ID PLMN-Identity,

amf-region-id BIT STRING (SIZE (8)),

iE-Extensions ProtocolExtensionContainer { {GlobalAMF-Region-Information-ExtIEs} } OPTIONAL,

...

}

GlobalAMF-Region-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AMF-UE-NGAP-ID ::= INTEGER (0..1099511627775)

AreaOfInterestInformation ::= SEQUENCE (SIZE(1..maxnoofAoIs)) OF AreaOfInterest-Item

AreaOfInterest-Item ::= SEQUENCE {

listOfTAIsinAoI ListOfTAIsinAoI OPTIONAL,

listOfCellsinAoI ListOfCells OPTIONAL,

listOfRANNodesinAoI ListOfRANNodesinAoI OPTIONAL,

requestReferenceID RequestReferenceID,

iE-Extensions ProtocolExtensionContainer { {AreaOfInterest-Item-ExtIEs} } OPTIONAL,

...

}

AreaOfInterest-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AreaScopeOfMDT-NR ::= CHOICE {

cellBased CellBasedMDT-NR,

tABased TABasedMDT,

tAIBased TAIBasedMDT,

...,

choice-extension ProtocolIE-Single-Container { {AreaScopeOfMDT-NR-ExtIEs} }

}

AreaScopeOfMDT-NR-ExtIEs XNAP-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,

tAIBased TAIBasedMDT,

...,

choice-extension ProtocolIE-Single-Container { {AreaScopeOfMDT-EUTRA-ExtIEs} }

}

AreaScopeOfMDT-EUTRA-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

AreaScopeOfNeighCellsList ::= SEQUENCE (SIZE(1..maxnoofFreqforMDT)) OF AreaScopeOfNeighCellsItem

AreaScopeOfNeighCellsItem ::= SEQUENCE {

nrFrequencyInfo NRFrequencyInfo,

pciListForMDT PCIListForMDT OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { AreaScopeOfNeighCellsItem-ExtIEs} } OPTIONAL,

...

}

AreaScopeOfNeighCellsItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AreaScopeOfQMC ::= CHOICE {

cellBased CellBasedQMC,

tABased TABasedQMC,

tAIBased TAIBasedQMC,

pLMNAreaBased PLMNAreaBasedQMC,

choice-extension ProtocolIE-Single-Container { {AreaScopeOfQMC-ExtIEs} }

}

AreaScopeOfQMC-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

AS-SecurityInformation ::= SEQUENCE {

key-NG-RAN-Star BIT STRING (SIZE(256)),

ncc INTEGER (0..7),

iE-Extensions ProtocolExtensionContainer { {AS-SecurityInformation-ExtIEs} } OPTIONAL,

...

}

AS-SecurityInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AssistanceDataForRANPaging ::= SEQUENCE {

ran-paging-attempt-info RANPagingAttemptInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AssistanceDataForRANPaging-ExtIEs} } OPTIONAL,

...

}

AssistanceDataForRANPaging-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-NPNPagingAssistanceInformation CRITICALITY ignore EXTENSION NPNPagingAssistanceInformation PRESENCE optional },

...

}

AssistanceInformationQoE-Meas ::= INTEGER (1..16, ...)

Associated-QoSFlowInfo-List ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF Associated-QoSFlowInfo-Item

Associated-QoSFlowInfo-Item ::= SEQUENCE {

mBS-QoSFlowIdentifier QoSFlowIdentifier,

associatedUnicastQoSFlowIdentifier QoSFlowIdentifier,

iE-Extensions ProtocolExtensionContainer { { Associated-QoSFlowInfo-Item-ExtIEs} } OPTIONAL,

...

}

Associated-QoSFlowInfo-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AvailableCapacity ::= INTEGER (1.. 100,...)

AvailableRRCConnectionCapacityValue ::= INTEGER (0..100)

AvailableRVQoEMetrics ::= SEQUENCE {

applicationLayerBufferLevelList ENUMERATED {true, ...} OPTIONAL,

playoutDelayForMediaStartup ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AvailableRVQoEMetrics-ExtIEs} } OPTIONAL,

...

}

AvailableRVQoEMetrics-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AveragingWindow ::= INTEGER (0..4095, ...)

-- B

BAPAddress ::= BIT STRING (SIZE(10))

BAPPathID ::= BIT STRING (SIZE(10))

BAPRoutingID ::= SEQUENCE {

bAPAddress BAPAddress,

bAPPathID BAPPathID,

iE-Extensions ProtocolExtensionContainer { {BAPRoutingID-ExtIEs} } OPTIONAL,

...

}

BAPRoutingID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BeamMeasurementIndicationM1 ::= ENUMERATED {true, ...}

BeamMeasurementsReportConfiguration ::= SEQUENCE {

beamMeasurementsReportQuantity BeamMeasurementsReportQuantity OPTIONAL,

maxNrofRS-IndexesToReport MaxNrofRS-IndexesToReport OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BeamMeasurementsReportConfiguration-ExtIEs} } OPTIONAL,

...

}

BeamMeasurementsReportConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BeamMeasurementsReportQuantity ::= SEQUENCE {

rSRP ENUMERATED {true, ...},

rSRQ ENUMERATED {true, ...},

sINR ENUMERATED {true, ...},

iE-Extensions ProtocolExtensionContainer { { BeamMeasurementsReportQuantity-ExtIEs} } OPTIONAL,

...

}

BeamMeasurementsReportQuantity-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BHInfoIndex ::= INTEGER (1..maxnoofBHInfo)

BHInfoList ::= SEQUENCE (SIZE(1.. maxnoofBHInfo)) OF BHInfo-Item

BHInfo-Item ::= SEQUENCE {

bHInfoIndex BHInfoIndex,

iE-Extensions ProtocolExtensionContainer { { BHInfo-Item-ExtIEs} } OPTIONAL,

...

}

BHInfo-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BHRLCChannelID ::= BIT STRING (SIZE(16))

BAPControlPDURLCCH-List ::= SEQUENCE (SIZE(1.. maxnoofBAPControlPDURLCCHs)) OF BAPControlPDURLCCH-Item

BAPControlPDURLCCH-Item ::= SEQUENCE {

bHRLCCHID BHRLCChannelID,

nexthopBAPAddress BAPAddress,

iE-Extensions ProtocolExtensionContainer { { BAPControlPDURLCCH-Item-ExtIEs} } OPTIONAL,

...

}

BAPControlPDURLCCH-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BarringExemptionforEmerCallInfo::= ENUMERATED {true,...}

BluetoothMeasurementConfiguration ::= SEQUENCE {

bluetoothMeasConfig BluetoothMeasConfig,

bluetoothMeasConfigNameList BluetoothMeasConfigNameList OPTIONAL,

bt-rssi ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { BluetoothMeasurementConfiguration-ExtIEs } } OPTIONAL,

...

}

BluetoothMeasurementConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BluetoothMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofBluetoothName)) OF BluetoothName

BluetoothMeasConfig::= ENUMERATED {setup,...}

BluetoothName ::= OCTET STRING (SIZE (1..248))

BPLMN-ID-Info-EUTRA ::= SEQUENCE (SIZE(1..maxnoofEUTRABPLMNs)) OF BPLMN-ID-Info-EUTRA-Item

BPLMN-ID-Info-EUTRA-Item ::= SEQUENCE {

broadcastPLMNs BroadcastEUTRAPLMNs,

tac TAC,

e-utraCI E-UTRA-Cell-Identity,

ranac RANAC OPTIONAL,

iE-Extension ProtocolExtensionContainer { {BPLMN-ID-Info-EUTRA-Item-ExtIEs} } OPTIONAL,

...

}

BPLMN-ID-Info-EUTRA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BPLMN-ID-Info-NR ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF BPLMN-ID-Info-NR-Item

BPLMN-ID-Info-NR-Item ::= SEQUENCE {

broadcastPLMNs BroadcastPLMNs,

tac TAC,

nr-CI NR-Cell-Identity,

ranac RANAC OPTIONAL,

iE-Extension ProtocolExtensionContainer { {BPLMN-ID-Info-NR-Item-ExtIEs} } OPTIONAL,

...

}

BPLMN-ID-Info-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ConfiguredTACIndication CRITICALITY ignore EXTENSION ConfiguredTACIndication PRESENCE optional }|

{ ID id-NPN-Broadcast-Information CRITICALITY reject EXTENSION NPN-Broadcast-Information PRESENCE optional },

...

}

BitRate ::= INTEGER (0..4000000000000,...)

BroadcastCAG-Identifier-List ::= SEQUENCE (SIZE(1..maxnoofCAGs)) OF BroadcastCAG-Identifier-Item

BroadcastCAG-Identifier-Item ::= SEQUENCE {

cag-Identifier CAG-Identifier,

iE-Extension ProtocolExtensionContainer { {BroadcastCAG-Identifier-Item-ExtIEs} } OPTIONAL,

...

}

BroadcastCAG-Identifier-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BroadcastNID-List ::= SEQUENCE (SIZE(1..maxnoofNIDs)) OF BroadcastNID-Item

BroadcastNID-Item ::= SEQUENCE {

nid NID,

iE-Extension ProtocolExtensionContainer { {BroadcastNID-Item-ExtIEs} } OPTIONAL,

...

}

BroadcastNID-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BroadcastPLMNs ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF PLMN-Identity

BroadcastEUTRAPLMNs ::= SEQUENCE (SIZE(1..maxnoofEUTRABPLMNs)) OF PLMN-Identity

BroadcastPLMNinTAISupport-Item ::= SEQUENCE {

plmn-id PLMN-Identity,

tAISliceSupport-List SliceSupport-List,

iE-Extension ProtocolExtensionContainer { {BroadcastPLMNinTAISupport-Item-ExtIEs} } OPTIONAL,

...

}

BroadcastPLMNinTAISupport-Item-ExtIEs XNAP-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}|

{ ID id-TAISliceUnavailableCellList CRITICALITY ignore EXTENSION TAISliceUnavailableCellList PRESENCE optional},

...

}

BroadcastPNI-NPN-ID-Information ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF BroadcastPNI-NPN-ID-Information-Item

BroadcastPNI-NPN-ID-Information-Item ::= SEQUENCE {

plmn-id PLMN-Identity,

broadcastCAG-Identifier-List BroadcastCAG-Identifier-List,

iE-Extension ProtocolExtensionContainer { {BroadcastPNI-NPN-ID-Information-Item-ExtIEs} } OPTIONAL,

...

}

BroadcastPNI-NPN-ID-Information-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

BroadcastSNPNID-List ::= SEQUENCE (SIZE(1..maxnoofSNPNIDs)) OF BroadcastSNPNID

BroadcastSNPNID ::= SEQUENCE {

plmn-id PLMN-Identity,

broadcastNID-List BroadcastNID-List,

iE-Extension ProtocolExtensionContainer { {BroadcastSNPNID-ExtIEs} } OPTIONAL,

...

}

BroadcastSNPNID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- C

CAG-Identifier ::= BIT STRING (SIZE (32))

CandidateRelayUEInfoList ::= SEQUENCE (SIZE(1..maxnoofCandidateRelayUEs)) OF CandidateRelayUEInfoItem

CandidateRelayUEInfoItem ::= SEQUENCE {

candidateRelayUEID BIT STRING(SIZE(24)),

iE-Extensions ProtocolExtensionContainer { { CandidateRelayUEInfoItem-ExtIEs } } OPTIONAL,

...

}

CandidateRelayUEInfoItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CapacityValue ::= INTEGER (0..100)

CapacityValueInfo ::= SEQUENCE {

capacityValue CapacityValue,

ssbAreaCapacityValueList SSBAreaCapacityValue-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { {CapacityValueInfo-ExtIEs} } OPTIONAL,

...

}

CapacityValueInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Cause ::= CHOICE {

radioNetwork CauseRadioNetworkLayer,

transport CauseTransportLayer,

protocol CauseProtocol,

misc CauseMisc,

choice-extension ProtocolIE-Single-Container { {Cause-ExtIEs} }

}

Cause-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CauseRadioNetworkLayer ::= ENUMERATED {

cell-not-available,

handover-desirable-for-radio-reasons,

handover-target-not-allowed,

invalid-AMF-Set-ID,

no-radio-resources-available-in-target-cell,

partial-handover,

reduce-load-in-serving-cell,

resource-optimisation-handover,

time-critical-handover,

tXnRELOCoverall-expiry,

tXnRELOCprep-expiry,

unknown-GUAMI-ID,

unknown-local-NG-RAN-node-UE-XnAP-ID,

inconsistent-remote-NG-RAN-node-UE-XnAP-ID,

encryption-and-or-integrity-protection-algorithms-not-supported,

not-used-causes-value-1,

multiple-PDU-session-ID-instances,

unknown-PDU-session-ID,

unknown-QoS-Flow-ID,

multiple-QoS-Flow-ID-instances,

switch-off-ongoing,

not-supported-5QI-value,

tXnDCoverall-expiry,

tXnDCprep-expiry,

action-desirable-for-radio-reasons,

reduce-load,

resource-optimisation,

time-critical-action,

target-not-allowed,

no-radio-resources-available,

invalid-QoS-combination,

encryption-algorithms-not-supported,

procedure-cancelled,

rRM-purpose,

improve-user-bit-rate,

user-inactivity,

radio-connection-with-UE-lost,

failure-in-the-radio-interface-procedure,

bearer-option-not-supported,

up-integrity-protection-not-possible,

up-confidentiality-protection-not-possible,

resources-not-available-for-the-slice-s,

ue-max-IP-data-rate-reason,

cP-integrity-protection-failure,

uP-integrity-protection-failure,

slice-not-supported-by-NG-RAN,

mN-Mobility,

sN-Mobility,

count-reaches-max-value,

unknown-old-NG-RAN-node-UE-XnAP-ID,

pDCP-Overload,

drb-id-not-available,

unspecified,

...,

ue-context-id-not-known,

non-relocation-of-context,

cho-cpc-resources-tobechanged,

rSN-not-available-for-the-UP,

npn-access-denied,

report-characteristics-empty,

existing-measurement-ID,

measurement-temporarily-not-available,

measurement-not-supported-for-the-object,

ue-power-saving,

not-existing-NG-RAN-node2-Measurement-ID,

insufficient-ue-capabilities,

normal-release,

value-out-of-allowed-range,

scg-activation-deactivation-failure,

scg-deactivation-failure-due-to-data-transmission,

ssb-not-available,

lTM-triggered,

no-Backhaul-Resource,

mIAB-node-not-authorized,

iAB-not-authorized

}

CauseTransportLayer ::= ENUMERATED {

transport-resource-unavailable,

unspecified,

...

}

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,

...

}

CauseMisc ::= ENUMERATED {

control-processing-overload,

hardware-failure,

o-and-M-intervention,

not-enough-user-plane-processing-resources,

unspecified,

...

}

CellAssistanceInfo-NR ::= CHOICE {

limitedNR-List SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF NR-CGI,

full-List ENUMERATED {all-served-cells-NR, ...},

choice-extension ProtocolIE-Single-Container { {CellAssistanceInfo-NR-ExtIEs} }

}

CellAssistanceInfo-NR-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellAndCapacityAssistanceInfo-NR ::= SEQUENCE {

maximumCellListSize MaximumCellListSize OPTIONAL,

cellAssistanceInfo-NR CellAssistanceInfo-NR OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellAndCapacityAssistanceInfo-NR-ExtIEs} } OPTIONAL,

...

}

CellAndCapacityAssistanceInfo-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellAndCapacityAssistanceInfo-EUTRA ::= SEQUENCE {

maximumCellListSize MaximumCellListSize OPTIONAL,

cellAssistanceInfo-EUTRA CellAssistanceInfo-EUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellAndCapacityAssistanceInfo-EUTRA-ExtIEs} } OPTIONAL,

...

}

CellAndCapacityAssistanceInfo-EUTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellAssistanceInfo-EUTRA ::= CHOICE {

limitedEUTRA-List SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI,

full-List ENUMERATED {all-served-cells-E-UTRA, ...},

choice-extension ProtocolIE-Single-Container { {CellAssistanceInfo-EUTRA-ExtIEs} }

}

CellAssistanceInfo-EUTRA-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellBasedMDT-NR::= SEQUENCE {

cellIdListforMDT-NR CellIdListforMDT-NR,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-NR-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-NR ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF NR-CGI

CellBasedQMC::= SEQUENCE {

cellIdListforQMC CellIdListforQMC,

iE-Extensions ProtocolExtensionContainer { {CellBasedQMC-ExtIEs} } OPTIONAL,

...

}

CellBasedQMC-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforQMC ::= SEQUENCE (SIZE(1..maxnoofCellIDforQMC)) OF GlobalNG-RANCell-ID

CellBasedMDT-EUTRA::= SEQUENCE {

cellIdListforMDT-EUTRA CellIdListforMDT-EUTRA,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-EUTRA-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-EUTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF E-UTRA-CGI

CellCapacityClassValue ::= INTEGER (1..100,...)

CellDeploymentStatusIndicator ::= ENUMERATED {pre-change-notification, ...}

CellGroupID ::= INTEGER (0..maxnoofSCellGroups)

CellMeasurementResult ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellMeasurementResult-Item

CellMeasurementResult-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

radioResourceStatus RadioResourceStatus OPTIONAL,

tNLCapacityIndicator TNLCapacityIndicator OPTIONAL,

compositeAvailableCapacityGroup CompositeAvailableCapacityGroup OPTIONAL,

sliceAvailableCapacity SliceAvailableCapacity OPTIONAL,

numberofActiveUEs NumberofActiveUEs OPTIONAL,

rRCConnections RRCConnections OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellMeasurementResult-Item-ExtIEs} } OPTIONAL,

...

}

CellMeasurementResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-NR-U-Channel-List CRITICALITY ignore EXTENSION NR-U-Channel-List PRESENCE optional },

...

}

CellReplacingInfo ::= SEQUENCE {

replacingCells ReplacingCells,

iE-Extensions ProtocolExtensionContainer { {CellReplacingInfo-ExtIEs}} OPTIONAL,

...

}

CellReplacingInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellToReport ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellToReport-Item

CellToReport-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

sSBToReport-List SSBToReport-List OPTIONAL,

sliceToReport-List SliceToReport-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellToReport-Item-ExtIEs} } OPTIONAL,

...

}

CellToReport-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellToReportForDataCollection-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellToReportForDataCollection-Item

CellToReportForDataCollection-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

iE-Extensions ProtocolExtensionContainer { { CellToReportForDataCollection-Item-ExtIEs} } OPTIONAL,

...

}

CellToReportForDataCollection-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellBasedUETrajectoryPrediction ::= SEQUENCE (SIZE(1..maxnoofCellsTrajectoryPredict)) OF PredictedUETrajectory-Item

CellMeasurementInitiationResult-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellMeasurementInitiationResult-Item

CellMeasurementInitiationResult-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

cellMeasurementFailureCause-List CellMeasurementFailureCause-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellMeasurementInitiationResult-Item-ExtIEs} } OPTIONAL,

...

}

CellMeasurementInitiationResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CLI-MeasurementResult-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CLI-MeasurementResult-Item

CLI-MeasurementResult-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

ssbIndex INTEGER(0..63,...) OPTIONAL,

nZP-CSI-RS-ResourceIndication INTEGER(1..64,...) OPTIONAL,

cLI-MitigationIndication CLI-MitigationIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CLI-MeasurementResult-Item-ExtIEs} } OPTIONAL,

...

}

CLI-MeasurementResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CLI-MitigationIndication ::= ENUMERATED {true,...}

CellMeasurementResultForDataCollection-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellInfoResultForDataCollection-Item

CellInfoResultForDataCollection-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

predictedRadioResourceStatus RadioResourceStatus OPTIONAL,

predictedNumberofActiveUEs NumberofActiveUEs OPTIONAL,

predictedRRCConnections RRCConnections OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CellInfoResultForDataCollection-Item-ExtIEs} } OPTIONAL,

...

}

CellInfoResultForDataCollection-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Cell-Type-Choice ::= CHOICE {

ng-ran-e-utra E-UTRA-Cell-Identity,

ng-ran-nr NR-Cell-Identity,

e-utran E-UTRA-Cell-Identity,

choice-extension ProtocolIE-Single-Container { { Cell-Type-Choice-ExtIEs} }

}

Cell-Type-Choice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellMeasurementFailureCause-List ::= SEQUENCE (SIZE(1..maxFailedCellMeasObjects)) OF CellMeasurementFailureCause-Item

CellMeasurementFailureCause-Item ::= SEQUENCE {

cellmeasurementFailedReportCharacteristics BIT STRING(SIZE(32)),

cause Cause,

iE-Extensions ProtocolExtensionContainer { { CellMeasurementFailureCause-Item-ExtIEs} } OPTIONAL,

...

}

CellMeasurementFailureCause-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOConfiguration ::= SEQUENCE {

choCandidateCell-List CHOCandidateCell-List,

iE-Extensions ProtocolExtensionContainer { { CHOConfiguration-ExtIEs} } OPTIONAL,

...

}

CHOConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOCandidateCell-List ::= SEQUENCE (SIZE(1..maxnoofCellsinCHO)) OF CHOCandidateCell-Item

CHOCandidateCell-Item ::= SEQUENCE {

choCandidateCellID GlobalNG-RANCell-ID,

choExecutionCondition-List CHOExecutionCondition-List,

iE-Extensions ProtocolExtensionContainer { { CHOCandidateCell-Item-ExtIEs} } OPTIONAL,

...

}

CHOCandidateCell-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOExecutionCondition-List ::= SEQUENCE (SIZE(1..maxnoofCHOexecutioncond)) OF CHOExecutionCondition-Item

CHOExecutionCondition-Item ::= SEQUENCE { measObjectContainer MeasObjectContainer,

reportConfigContainer ReportConfigContainer,

iE-Extensions ProtocolExtensionContainer { { CHOExecutionCondition-Item-ExtIEs} } OPTIONAL,

...

}

CHOExecutionCondition-Item-ExtIEs XNAP-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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityReportingControlInfo ::= SEQUENCE {

clockQualityDetailLevel ClockQualityDetailLevel,

iE-Extensions ProtocolExtensionContainer { {ClockQualityReportingControlInfo-ExtIEs} } OPTIONAL,

...

}

ClockQualityReportingControlInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityDetailLevel ::= CHOICE {

clockQualityMetrics NULL,

acceptanceIndication ClockQualityAcceptanceCriteria,

choice-extension ProtocolIE-Single-Container { {ClockQualityDetailLevel-ExtIEs} }

}

ClockQualityDetailLevel-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CapabilityForBATAdaptation ::= ENUMERATED {true, ...}

CompositeAvailableCapacityGroup ::= SEQUENCE {

compositeAvailableCapacityDownlink CompositeAvailableCapacity,

compositeAvailableCapacityUplink CompositeAvailableCapacity,

iE-Extensions ProtocolExtensionContainer { { CompositeAvailableCapacityGroup-ExtIEs} } OPTIONAL,

...

}

CompositeAvailableCapacityGroup-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CompositeAvailableCapacitySupplementaryUplink CRITICALITY ignore EXTENSION CompositeAvailableCapacity PRESENCE optional },

...

}

CompositeAvailableCapacity ::= SEQUENCE {

cellCapacityClassValue CellCapacityClassValue OPTIONAL,

capacityValueInfo CapacityValueInfo, -- this IE represents the IE "CapacityValue" in 9.2.2.52, it’s used to distinguish the "CapacityValue" in 9.2.2.54

iE-Extensions ProtocolExtensionContainer { { CompositeAvailableCapacity-ExtIEs} }OPTIONAL,

...

}

CompositeAvailableCapacity-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ControlPlaneTrafficType ::= INTEGER (1..3, ...)

CHO-MRDC-EarlyDataForwarding ::= ENUMERATED {stop, ...}

CHO-MRDC-Indicator ::= ENUMERATED {true, ..., coordination-only }

CHOtrigger ::= ENUMERATED {

cho-initiation,

cho-replace,

...

}

CHOinformation-Req ::= SEQUENCE {

cho-trigger CHOtrigger,

targetNG-RANnodeUEXnAPID NG-RANnodeUEXnAPID OPTIONAL

-- This IE shall be present if the *CHO Trigger* IE is present and set to "CHO-replace" --,

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-Req-ExtIEs} } OPTIONAL,

...

}

CHOinformation-Req-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ID id-CHOTimeBasedInformation CRITICALITY reject EXTENSION CHOTimeBasedInformation PRESENCE optional}|

{ ID id-CHO-Maxnoof-CondReconfig CRITICALITY reject EXTENSION CHO-Maxnoof-CondReconfig PRESENCE optional },

...

}

CHOTimeBasedInformation ::= SEQUENCE {

cHO-HOWindowStart CHO-HandoverWindowStart,

cHO-HOWindowDuration CHO-HandoverWindowDuration,

iE-Extensions ProtocolExtensionContainer { {CHOTimeBasedInformation-ExtIEs} } OPTIONAL,

...

}

CHOTimeBasedInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOinformation-Ack ::= SEQUENCE {

requestedTargetCellGlobalID Target-CGI,

maxCHOoperations MaxCHOpreparations OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-Ack-ExtIEs} } OPTIONAL,

...

}

CHOinformation-Ack-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-CHO-CPAC-Info CRITICALITY reject EXTENSION CHO-CPAC-Information PRESENCE optional },

...

}

CHOinformation-AddReq ::= SEQUENCE {

source-M-NGRAN-node-ID GlobalNG-RANNode-ID,

source-M-NGRAN-node-UE-XnAP-ID NG-RANnodeUEXnAPID,

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-AddReq-ExtIEs} } OPTIONAL,

...

}

CHOinformation-AddReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHOinformation-AddReqAck ::= SEQUENCE {

pCell-ID GlobalNG-RANCell-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-AddReqAck-ExtIEs} } OPTIONAL,

...

}

CHOinformation-AddReqAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHOinformation-ModReq ::= SEQUENCE {

conditionalReconfig ENUMERATED {intra-mn-cho, ...},

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-ModReq-ExtIEs} } OPTIONAL,

...

}

CHOinformation-ModReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-Maxnoof-CondReconfig ::= INTEGER (1..8,...)

CHO-CPAC-Information ::= SEQUENCE {

cHO-CPAC-config-indicator CHO-CPAC-Config-Indicator OPTIONAL,

cHO-target-SN-node-list CHO-target-SN-node-list,

iE-Extensions ProtocolExtensionContainer { {CHO-CPAC-Information-ExtIEs}} OPTIONAL,

...

}

CHO-CPAC-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-CPAC-Config-Indicator ::= ENUMERATED {

cho-only-not-prepared,

...

}

CHO-Probability ::= INTEGER (1..100)

CHO-HandoverWindowStart ::= INTEGER (0.. 549755813887)

CHO-HandoverWindowDuration ::= INTEGER (1..6000)

CHO-target-SN-node-list ::= SEQUENCE (SIZE(1.. maxnoofTargetSNs)) OF CHO-target-SN-node-Item

CHO-target-SN-node-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

pduSessionResourcesAdmittedList PDUSessionResourcesAdmitted-List,

cho-Candidate-PSCells-list CHO-Candidate-PSCells-list,

iE-Extensions ProtocolExtensionContainer { {CHO-target-SN-node-Item-ExtIEs}} OPTIONAL,

...

}

CHO-target-SN-node-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-Candidate-PSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CHO-Candidate-PSCells-Item

CHO-Candidate-PSCells-Item ::= SEQUENCE {

pscell-id NR-CGI,

target2source-NG-RANNode-Container OCTET STRING,

iE-Extensions ProtocolExtensionContainer { {CHO-Candidate-PSCells-Item-ExtIEs}} OPTIONAL,

...

}

CHO-Candidate-PSCells-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CNsubgroupID ::= INTEGER (0..7, ...)

CompleteCandidateConfig-Indicator ::= ENUMERATED {complete-candidate-config, ...}

Conditional-Reconfig-List ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF Conditional-Reconfig-Item

Conditional-Reconfig-Item ::= SEQUENCE {

pCell-ID Target-CGI,

pSCell-ID NR-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Conditional-Reconfig-Item-ExtIEs} } OPTIONAL,

...

}

Conditional-Reconfig-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ConfiguredTACIndication ::= ENUMERATED {

true,

...

}

Connectivity-Support ::= SEQUENCE {

eNDC-Support ENUMERATED {supported, not-supported, ...},

iE-Extensions ProtocolExtensionContainer { {Connectivity-Support-ExtIEs} } OPTIONAL,

...

}

Connectivity-Support-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ContainerAppLayerMeasConfig ::= OCTET STRING (SIZE (1..8000))

COUNT-PDCP-SN12 ::= SEQUENCE {

pdcp-SN12 INTEGER (0..4095),

hfn-PDCP-SN12 INTEGER (0..1048575),

iE-Extensions ProtocolExtensionContainer { {COUNT-PDCP-SN12-ExtIEs} } OPTIONAL,

...

}

COUNT-PDCP-SN12-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

COUNT-PDCP-SN18 ::= SEQUENCE {

pdcp-SN18 INTEGER (0..262143),

hfn-PDCP-SN18 INTEGER (0..16383),

iE-Extensions ProtocolExtensionContainer { {COUNT-PDCP-SN18-ExtIEs} } OPTIONAL,

...

}

COUNT-PDCP-SN18-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CoverageModificationCause ::= ENUMERATED {

coverage,

cell-edge-capacity,

...,

network-energy-saving}

Coverage-Modification-List ::= SEQUENCE (SIZE (0..maxnoofCellsinNG-RANnode)) OF Coverage-Modification-List-Item

Coverage-Modification-List-Item ::= SEQUENCE {

globalNG-RANCell-ID GlobalCell-ID,

cellCoverageState INTEGER (0..63, ...),

cellDeploymentStatusIndicator CellDeploymentStatusIndicator OPTIONAL,

cellReplacingInfo CellReplacingInfo OPTIONAL,

-- This IE shall be present if the *Cell Deployment Status Indicator* IE is present.

sSB-Coverage-Modification-List SSB-Coverage-Modification-List,

iE-Extension ProtocolExtensionContainer { { Coverage-Modification-List-Item-ExtIEs} } OPTIONAL,

...

}

Coverage-Modification-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CoverageModificationCause CRITICALITY ignore EXTENSION CoverageModificationCause PRESENCE optional},

...

}

CPTransportLayerInformation ::= CHOICE {

endpointIPAddress TransportLayerAddress,

choice-extension ProtocolIE-Single-Container { {CPTransportLayerInformation-ExtIEs} }

}

CPTransportLayerInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

{ ID id-EndpointIPAddressAndPort CRITICALITY reject TYPE EndpointIPAddressAndPort PRESENCE mandatory},

...

}

CPACcandidatePSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPACcandidatePSCells-item

CPACcandidatePSCells-item ::= SEQUENCE {

pscell-id NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CPACcandidatePSCells-item-ExtIEs}} OPTIONAL,

...

}

CPACcandidatePSCells-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACcandidatePSCells-wotherInfo-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPACcandidatePSCells-wotherInfo-item

CPACcandidatePSCells-wotherInfo-item ::= SEQUENCE {

pscell-id NR-CGI,

s-CPAC-CompleteCandidateConfig-Indicator CompleteCandidateConfig-Indicator OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CPACcandidatePSCells-wotherInfo-item-ExtIEs}} OPTIONAL,

...

}

CPACcandidatePSCells-wotherInfo-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACConfiguration ::= SEQUENCE {

cpacCandidateCell-List CPACCandidateCell-List,

iE-Extensions ProtocolExtensionContainer { { CPACConfiguration-ExtIEs} } OPTIONAL,

...

}

CPACConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACCandidateCell-List ::= SEQUENCE (SIZE(1..maxnoofPSCellsinCPAC)) OF CPACCandidateCell-Item

CPACCandidateCell-Item ::= SEQUENCE {

cpacCandidateCellID GlobalNG-RANCell-ID,

cpacExecutionCondition-List CPACExecutionCondition-List,

iE-Extensions ProtocolExtensionContainer { { CPACCandidateCell-Item-ExtIEs} } OPTIONAL,

...

}

CPACCandidateCell-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACExecutionCondition-List ::= SEQUENCE (SIZE(1..maxnoofCPACexecutioncond)) OF CPACExecutionCondition-Item

CPACExecutionCondition-Item ::= SEQUENCE {

measObjectContainer MeasObjectContainer,

reportConfigContainer ReportConfigContainer,

iE-Extensions ProtocolExtensionContainer { { CPACExecutionCondition-Item-ExtIEs} } OPTIONAL,

...

}

CPACExecutionCondition-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCindicator ::= ENUMERATED {cpc-initiation, cpc-modification, cpc-cancellation, ...}

CPAInformationRequest ::= SEQUENCE {

max-no-of-pscells INTEGER (1..maxnoofPSCellCandidates, ...),

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CPAInformationRequest-ExtIEs} } OPTIONAL,

...

}

CPAInformationRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-CPAC-Request-Info CRITICALITY reject EXTENSION S-CPAC-Request-Info PRESENCE optional}|

{ ID id-S-CPAC-ReferenceConfigRequest CRITICALITY ignore EXTENSION S-CPAC-ReferenceConfig-Request PRESENCE optional},

...

}

CPAInformationAck ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

iE-Extensions ProtocolExtensionContainer { { CPAInformationAck-ExtIEs} } OPTIONAL,

...

}

CPAInformationAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPCInformationRequired::= SEQUENCE {

cpc-target-sn-required-list CPC-target-SN-required-list,

iE-Extensions ProtocolExtensionContainer { {CPCInformationRequired-ExtIEs} } OPTIONAL,

...

}

CPCInformationRequired-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-CPAC-Request CRITICALITY reject EXTENSION S-CPAC-Request PRESENCE optional},

...

}

CPC-target-SN-required-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-required-list-Item

CPC-target-SN-required-list-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

cpc-indicator CPCindicator,

max-no-of-pscells INTEGER (1..maxnoofPSCellCandidates, ...),

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

sN-to-MN-Container OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { CPC-target-SN-required-list-Item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-required-list-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCInformationConfirm ::= SEQUENCE {

cpc-target-sn-confirm-list CPC-target-SN-confirm-list,

iE-Extensions ProtocolExtensionContainer { { CPCInformationConfirm-ExtIEs} } OPTIONAL,

...

}

CPCInformationConfirm-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPC-target-SN-confirm-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-confirm-list-Item

CPC-target-SN-confirm-list-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

candidate-pscells CPACcandidatePSCells-list,

iE-Extensions ProtocolExtensionContainer { { CPC-target-SN-confirm-list-Item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-confirm-list-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPAC-Preparation-Type CRITICALITY ignore EXTENSION CPAC-Preparation-Type PRESENCE optional},

...

}

CPAInformationModReq ::= SEQUENCE {

max-no-of-pscells INTEGER (1..8, ...) OPTIONAL,

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CPAInformationModReq-ExtIEs} } OPTIONAL,

...

}

CPAInformationModReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-CPAC-Request-Info CRITICALITY reject EXTENSION S-CPAC-Request-Info PRESENCE optional}|

{ ID id-S-CPAC-ReferenceConfigRequest CRITICALITY ignore EXTENSION S-CPAC-ReferenceConfig-Request PRESENCE optional}|

{ ID id-S-CPAC-InterSN-ExecutionNotify CRITICALITY reject EXTENSION S-CPAC-InterSN-ExecutionNotify PRESENCE optional},

...

}

CPAInformationModReqAck ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

iE-Extensions ProtocolExtensionContainer { { CPAInformationModReqAck-ExtIEs} } OPTIONAL,

...

}

CPAInformationModReqAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPC-DataForwarding-Indicator ::= ENUMERATED {triggered, early-data-transmission-stop, ..., coordination-only}

CPAC-Preparation-Type ::= ENUMERATED {s-cpac, ...}

CPACInformationModRequired ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

iE-Extensions ProtocolExtensionContainer { { CPACInformationModRequired-ExtIEs} } OPTIONAL,

...

}

CPACInformationModRequired-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPCInformationUpdate::= SEQUENCE {

cpc-target-sn-list CPC-target-SN-mod-list,

iE-Extensions ProtocolExtensionContainer { { CPCInformationUpdate-ExtIEs} } OPTIONAL,

...

}

CPCInformationUpdate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPC-target-SN-mod-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-mod-item

CPC-target-SN-mod-item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

candidate-pscells CPCInformationUpdatePSCells-list,

iE-Extensions ProtocolExtensionContainer { {CPC-target-SN-mod-item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-mod-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCInformationUpdatePSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPCInformationUpdatePSCells-item

CPCInformationUpdatePSCells-item ::= SEQUENCE {

pscell-id NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CPCInformationUpdatePSCells-item-ExtIEs}} OPTIONAL,

...

}

CPCInformationUpdatePSCells-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CriticalityDiagnostics ::= SEQUENCE {

procedureCode ProcedureCode OPTIONAL,

triggeringMessage TriggeringMessage OPTIONAL,

procedureCriticality Criticality OPTIONAL,

iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,

...

}

CriticalityDiagnostics-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF

SEQUENCE {

iECriticality Criticality,

iE-ID ProtocolIE-ID,

typeOfError TypeOfError,

iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,

...

}

CriticalityDiagnostics-IE-List-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

C-RNTI ::= BIT STRING (SIZE(16))

CSI-RS-MTC-Configuration-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSconfigurations)) OF CSI-RS-MTC-Configuration-Item

CSI-RS-MTC-Configuration-Item ::= SEQUENCE {

csi-RS-Index INTEGER(0..95),

csi-RS-Status ENUMERATED {activated, deactivated, ...},

csi-RS-Neighbour-List CSI-RS-Neighbour-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-RS-MTC-Configuration-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-MTC-Configuration-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RS-Neighbour-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSneighbourCells)) OF CSI-RS-Neighbour-Item

CSI-RS-Neighbour-Item ::= SEQUENCE {

nr-cgi NR-CGI,

csi-RS-MTC-Neighbour-List CSI-RS-MTC-Neighbour-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-RS-Neighbour-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-Neighbour-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RS-MTC-Neighbour-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSneighbourCellsInMTC)) OF CSI-RS-MTC-Neighbour-Item

CSI-RS-MTC-Neighbour-Item ::= SEQUENCE {

csi-RS-Index INTEGER(0..95),

iE-Extensions ProtocolExtensionContainer { { CSI-RS-MTC-Neighbour-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-MTC-Neighbour-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CyclicPrefix-E-UTRA-DL ::= ENUMERATED {

normal,

extended,

...

}

CyclicPrefix-E-UTRA-UL ::= ENUMERATED {

normal,

extended,

...

}

CSI-RSTransmissionIndication ::= ENUMERATED {

activated,

deactivated,

...

}

CAGListforMDT ::= SEQUENCE (SIZE(1.. maxnoofCAGforMDT))OF CAGListforMDTItem

CAGListforMDTItem ::= SEQUENCE {

plmnID PLMN-Identity,

cAGID CAG-Identifier,

iE-Extensions ProtocolExtensionContainer { {CAGListforMDTItem-ExtIEs} } OPTIONAL,

...

}

CAGListforMDTItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

-- D

XnUAddressInfoperPDUSession-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF XnUAddressInfoperPDUSession-Item

XnUAddressInfoperPDUSession-Item ::= SEQUENCE {

pduSession-ID PDUSession-ID,

dataForwardingInfoFromTargetNGRANnode DataForwardingInfoFromTargetNGRANnode OPTIONAL,

pduSessionResourceSetupCompleteInfo-SNterm PDUSessionResourceBearerSetupCompleteInfo-SNterminated OPTIONAL,

iE-Extension ProtocolExtensionContainer { { XnUAddressInfoperPDUSession-Item-ExtIEs} } OPTIONAL,

...

}

XnUAddressInfoperPDUSession-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondarydataForwardingInfoFromTarget-List CRITICALITY ignore EXTENSION SecondarydataForwardingInfoFromTarget-List PRESENCE optional}|

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional}|

{ ID id-dataForwardingInfoFromTargetE-UTRANnode CRITICALITY ignore EXTENSION DataForwardingInfoFromTargetE-UTRANnode PRESENCE optional},

...

}

DataForwardingInfoFromTargetE-UTRANnode ::= SEQUENCE {

dataForwardingInfoFromTargetE-UTRANnode-List DataForwardingInfoFromTargetE-UTRANnode-List,

iE-Extension ProtocolExtensionContainer { { DataForwardingInfoFromTargetE-UTRANnode-ExtIEs} } OPTIONAL,

...

}

DataForwardingInfoFromTargetE-UTRANnode-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DataForwardingInfoFromTargetE-UTRANnode-List ::= SEQUENCE (SIZE(1.. maxnoofDataForwardingTunneltoE-UTRAN)) OF DataForwardingInfoFromTargetE-UTRANnode-Item

DataForwardingInfoFromTargetE-UTRANnode-Item ::= SEQUENCE {

dlForwardingUPTNLInformation UPTransportLayerInformation,

qosFlowsToBeForwarded-List QoSFlowsToBeForwarded-List,

iE-Extension ProtocolExtensionContainer { { DataForwardingInfoFromTargetE-UTRANnode-Item-ExtIEs} } OPTIONAL,

...

}

DataForwardingInfoFromTargetE-UTRANnode-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoSFlowsToBeForwarded-List ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsToBeForwarded-Item

QoSFlowsToBeForwarded-Item ::= SEQUENCE {

qosFlowIdentifier QoSFlowIdentifier,

iE-Extension ProtocolExtensionContainer { { QoSFlowsToBeForwarded-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsToBeForwarded-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DataForwardingInfoFromTargetNGRANnode ::= SEQUENCE {

qosFlowsAcceptedForDataForwarding-List QoSFLowsAcceptedToBeForwarded-List,

pduSessionLevelDLDataForwardingInfo UPTransportLayerInformation OPTIONAL,

pduSessionLevelULDataForwardingInfo UPTransportLayerInformation OPTIONAL,

dataForwardingResponseDRBItemList DataForwardingResponseDRBItemList OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DataForwardingInfoFromTargetNGRANnode-ExtIEs} } OPTIONAL,

...

}

DataForwardingInfoFromTargetNGRANnode-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DirectForwardingPathAvailability CRITICALITY ignore EXTENSION DirectForwardingPathAvailability PRESENCE optional },

...

}

QoSFLowsAcceptedToBeForwarded-List ::= SEQUENCE (SIZE(1.. maxnoofQoSFlows)) OF QoSFLowsAcceptedToBeForwarded-Item

QoSFLowsAcceptedToBeForwarded-Item ::= SEQUENCE {

qosFlowIdentifier QoSFlowIdentifier,

iE-Extension ProtocolExtensionContainer { {QoSFLowsAcceptedToBeForwarded-Item-ExtIEs} } OPTIONAL,

...

}

QoSFLowsAcceptedToBeForwarded-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DataforwardingandOffloadingInfofromSource ::= SEQUENCE {

qosFlowsToBeForwarded QoSFLowsToBeForwarded-List,

sourceDRBtoQoSFlowMapping DRBToQoSFlowMapping-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DataforwardingandOffloadingInfofromSource-ExtIEs} } OPTIONAL,

...

}

DataforwardingandOffloadingInfofromSource-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoSFLowsToBeForwarded-List ::= SEQUENCE (SIZE(1.. maxnoofQoSFlows)) OF QoSFLowsToBeForwarded-Item

QoSFLowsToBeForwarded-Item ::= SEQUENCE {

qosFlowIdentifier QoSFlowIdentifier,

dl-dataforwarding DLForwarding,

ul-dataforwarding ULForwarding,

iE-Extension ProtocolExtensionContainer { {QoSFLowsToBeForwarded-Item-ExtIEs} } OPTIONAL,

...

}

QoSFLowsToBeForwarded-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ULForwardingProposal CRITICALITY ignore EXTENSION ULForwardingProposal PRESENCE optional }|

{ ID id-SourceDLForwardingIPAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional}|

{ ID id-SourceNodeDLForwardingIPAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional},

...

}

DataForwardingResponseDRBItemList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DataForwardingResponseDRBItem

DataForwardingResponseDRBItem ::= SEQUENCE {

drb-ID DRB-ID,

dlForwardingUPTNL UPTransportLayerInformation OPTIONAL,

ulForwardingUPTNL UPTransportLayerInformation OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DataForwardingResponseDRBItem-ExtIEs} } OPTIONAL,

...

}

DataForwardingResponseDRBItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DataTrafficResources ::= BIT STRING (SIZE(6..17600))

DataTrafficResourceIndication ::= SEQUENCE {

activationSFN ActivationSFN,

sharedResourceType SharedResourceType,

reservedSubframePattern ReservedSubframePattern OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DataTrafficResourceIndication-ExtIEs} } OPTIONAL,

...

}

DataTrafficResourceIndication-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DAPSRequestInfo ::= SEQUENCE {

dapsIndicator ENUMERATED {daps-HO-required, ...},

iE-Extensions ProtocolExtensionContainer { {DAPSRequestInfo-ExtIEs} } OPTIONAL,

...

}

DAPSRequestInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DAPSResponseInfo-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DAPSResponseInfo-Item

DAPSResponseInfo-Item ::= SEQUENCE {

drbID DRB-ID,

dapsResponseIndicator ENUMERATED {daps-HO-accepted, daps-HO-not-accepted, ...},

iE-Extensions ProtocolExtensionContainer { {DAPSResponseInfo-Item-ExtIEs} } OPTIONAL,

...

}

DAPSResponseInfo-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DeliveryStatus ::= INTEGER (0..4095, ...)

DesiredActNotificationLevel ::= ENUMERATED {none, qos-flow, pdu-session, ue-level, ...}

DefaultDRB-Allowed ::= ENUMERATED {true, false, ...}

DirectForwardingPathAvailability ::= ENUMERATED {direct-path-available, ...}

DirectForwardingPathAvailabilityWithSourceMN ::= ENUMERATED {direct-path-available, ...}

DLCountChoice ::= CHOICE {

count12bits COUNT-PDCP-SN12,

count18bits COUNT-PDCP-SN18,

choice-extension ProtocolIE-Single-Container { {DLCountChoice-ExtIEs} }

}

DLCountChoice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

DLForwarding ::= ENUMERATED {dl-forwarding-proposed, ...}

DL-GBR-PRB-usage::= INTEGER (0..100)

DL-GBR-PRB-usage-for-MIMO::= INTEGER (0..100)

DL-non-GBR-PRB-usage::= INTEGER (0..100)

DL-non-GBR-PRB-usage-for-MIMO::= INTEGER (0..100)

DLF1Terminating-BHInfo ::= SEQUENCE {

egressBAPRoutingID BAPRoutingID,

egressBHRLCCHID BHRLCChannelID,

iE-Extensions ProtocolExtensionContainer { { DLF1Terminating-BHInfo-ExtIEs} } OPTIONAL,

...

}

DLF1Terminating-BHInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DLLBTFailureInformationRequest ::= ENUMERATED {inquiry, ...}

DLLBTFailureInformationList ::= SEQUENCE (SIZE(1.. maxnoofLBTFailureInformation)) OF DLLBTFailureInformationList-Item

DLLBTFailureInformationList-Item::= SEQUENCE {

uEAssistantIdentifier NG-RANnodeUEXnAPID,

numberOfDLLBTFailures INTEGER (1..1000,...) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DLLBTFailureInformationList-Item-ExtIEs} } OPTIONAL,

...

}

DLLBTFailureInformationList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DLNonF1Terminating-BHInfo ::= SEQUENCE {

ingressBAPRoutingID BAPRoutingID,

ingressBHRLCCHID BHRLCChannelID,

priorhopBAPAddress BAPAddress,

iabqosMappingInformation IAB-QoS-Mapping-Information,

iE-Extensions ProtocolExtensionContainer { { DLNonF1Terminating-BHInfo-ExtIEs} } OPTIONAL,

...

}

DLNonF1Terminating-BHInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DL-Total-PRB-usage::= INTEGER (0..100)

DL-Total-PRB-usage-for-MIMO::= INTEGER (0..100)

DRB-ID ::= INTEGER (1..32, ...)

DRB-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRB-ID

DRB-List-withCause ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRB-List-withCause-Item

DRB-List-withCause-Item ::= SEQUENCE {

drb-id DRB-ID,

cause Cause,

rLC-Mode RLCMode OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DRB-List-withCause-Item-ExtIEs} } OPTIONAL,

...

}

DRB-List-withCause-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRB-Number ::= INTEGER (1..32, ...)

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsSubjectToEarlyStatusTransfer-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRBsSubjectToEarlyStatusTransfer-Item

DRBsSubjectToEarlyStatusTransfer-Item ::= SEQUENCE {

drbID DRB-ID,

dlCount DLCountChoice,

iE-Extension ProtocolExtensionContainer { { DRBsSubjectToEarlyStatusTransfer-Item-ExtIEs} } OPTIONAL,

...

}

DRBsSubjectToEarlyStatusTransfer-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsSubjectToStatusTransfer-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRBsSubjectToStatusTransfer-Item

DRBsSubjectToStatusTransfer-Item ::= SEQUENCE {

drbID DRB-ID,

pdcpStatusTransfer-UL DRBBStatusTransferChoice,

pdcpStatusTransfer-DL DRBBStatusTransferChoice,

iE-Extension ProtocolExtensionContainer { {DRBsSubjectToStatusTransfer-Item-ExtIEs} } OPTIONAL,

...

}

DRBsSubjectToStatusTransfer-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-OldQoSFlowMap-ULendmarkerexpected CRITICALITY reject EXTENSION QoSFlows-List PRESENCE optional },

...

}

DRBBStatusTransferChoice ::= CHOICE {

pdcp-sn-12bits DRBBStatusTransfer12bitsSN,

pdcp-sn-18bits DRBBStatusTransfer18bitsSN,

choice-extension ProtocolIE-Single-Container { {DRBBStatusTransferChoice-ExtIEs} }

}

DRBBStatusTransferChoice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

DRBBStatusTransfer12bitsSN ::= SEQUENCE {

receiveStatusofPDCPSDU BIT STRING (SIZE(1..2048)) OPTIONAL,

cOUNTValue COUNT-PDCP-SN12,

iE-Extension ProtocolExtensionContainer { {DRBBStatusTransfer12bitsSN-ExtIEs} } OPTIONAL,

...

}

DRBBStatusTransfer12bitsSN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBBStatusTransfer18bitsSN ::= SEQUENCE {

receiveStatusofPDCPSDU BIT STRING (SIZE(1..131072)) OPTIONAL,

cOUNTValue COUNT-PDCP-SN18,

iE-Extension ProtocolExtensionContainer { {DRBBStatusTransfer18bitsSN-ExtIEs} } OPTIONAL,

...

}

DRBBStatusTransfer18bitsSN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBToQoSFlowMapping-List ::= SEQUENCE (SIZE (1..maxnoofDRBs)) OF DRBToQoSFlowMapping-Item

DRBToQoSFlowMapping-Item ::= SEQUENCE {

drb-ID DRB-ID,

qosFlows-List QoSFlows-List,

rLC-Mode RLCMode OPTIONAL,

iE-Extension ProtocolExtensionContainer { {DRBToQoSFlowMapping-Item-ExtIEs} } OPTIONAL,

...

}

DRBToQoSFlowMapping-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DAPSRequestInfo CRITICALITY ignore EXTENSION DAPSRequestInfo PRESENCE optional },

...

}

DUF-Slot-Config-List ::= SEQUENCE (SIZE(1..maxnoofDUFSlots)) OF DUF-Slot-Config-Item

DUF-Slot-Config-Item ::= CHOICE {

explicitFormat ExplicitFormat,

implicitFormat ImplicitFormat,

choice-extension ProtocolIE-Single-Container { { DUF-Slot-Config-Item-ExtIEs} }

}

DUF-Slot-Config-Item-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

DUFSlotformatIndex ::= INTEGER(0..254)

DUFTransmissionPeriodicity ::= ENUMERATED { ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms5, ms10, ...}

DU-RX-MT-RX ::= ENUMERATED {supported, not-supported, supported-FDM-required, ...}

DU-TX-MT-TX ::= ENUMERATED {supported, not-supported, supported-FDM-required, ...}

DU-RX-MT-TX ::= ENUMERATED {supported, not-supported, supported-FDM-required, ...}

DU-TX-MT-RX ::= ENUMERATED {supported, not-supported, supported-FDM-required, ...}

DuplicationActivation ::= ENUMERATED {active, inactive, ...}

Dynamic5QIDescriptor ::= SEQUENCE {

priorityLevelQoS PriorityLevelQoS,

packetDelayBudget PacketDelayBudget,

packetErrorRate PacketErrorRate,

fiveQI FiveQI OPTIONAL,

delayCritical ENUMERATED {delay-critical, non-delay-critical, ...} OPTIONAL,

-- This IE shall be present if the *GBR QoS Flow Information* IE is present in the *QoS Flow Level QoS Parameters* IE.

averagingWindow AveragingWindow OPTIONAL,

-- This IE shall be present if the *GBR QoS Flow Information* IE is present in the *QoS Flow Level QoS Parameters* IE.

maximumDataBurstVolume MaximumDataBurstVolume OPTIONAL,

iE-Extension ProtocolExtensionContainer { {Dynamic5QIDescriptor-ExtIEs } } OPTIONAL,

...

}

Dynamic5QIDescriptor-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ExtendedPacketDelayBudget CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional}|

{ ID id-CNPacketDelayBudgetDownlink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional}|

{ ID id-CNPacketDelayBudgetUplink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional},

...

}

-- E

EarlyMeasurement ::= ENUMERATED {true, ...}

ECNMarkingorCongestionInformationReportingRequest ::= CHOICE {

eCNMarkingAtRANRequest ECNMarkingAtRANRequest,

eCNMarkingAtUPFRequest ECNMarkingAtUPFRequest,

congestionInformationRequest CongestionInformationRequest,

choice-Extensions ProtocolIE-Single-Container { {ECNMarkingorCongestionInformationReportingRequest-ExtIEs} }

}

ECNMarkingorCongestionInformationReportingRequest-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ECNMarkingAtRANRequest ::= ENUMERATED {ul, dl, both, stop,...}

ECNMarkingAtUPFRequest ::= ENUMERATED {ul, dl, both, stop,...}

CongestionInformationRequest ::= ENUMERATED {ul, dl, both, stop, ...}

EnergyCost ::= INTEGER (0..10000, ...)

EquivalentSNPNs ::= SEQUENCE (SIZE(1..maxnoofESNPNs)) OF SNPNIdentity

E-RAB-ID ::= INTEGER (0..15, ...)

E-UTRAARFCN ::= INTEGER (0..maxEARFCN)

E-UTRA-Cell-Identity ::= BIT STRING (SIZE(28))

ERedcap-Bcast-Information ::= BIT STRING(SIZE(8))

E-UTRA-CGI ::= SEQUENCE {

plmn-id PLMN-Identity,

e-utra-CI E-UTRA-Cell-Identity,

iE-Extension ProtocolExtensionContainer { {E-UTRA-CGI-ExtIEs} } OPTIONAL,

...

}

E-UTRA-CGI-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

E-UTRAFrequencyBandIndicator ::= INTEGER (1..256, ...)

E-UTRAMultibandInfoList ::= SEQUENCE (SIZE(1..maxnoofEUTRABands)) OF E-UTRAFrequencyBandIndicator

EUTRAPagingeDRXInformation ::= SEQUENCE {

eutrapaging-eDRX-Cycle EUTRAPaging-eDRX-Cycle,

eutrapaging-Time-Window EUTRAPaging-Time-Window OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {EUTRAPagingeDRXInformation-ExtIEs} } OPTIONAL,

...

}

EUTRAPagingeDRXInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

EUTRAPaging-eDRX-Cycle ::= ENUMERATED {

hfhalf, hf1, hf2, hf4, hf6,

hf8, hf10, hf12, hf14, hf16,

hf32, hf64, hf128, hf256,

...

}

EUTRAPaging-Time-Window ::= ENUMERATED {

s1, s2, s3, s4, s5,

s6, s7, s8, s9, s10,

s11, s12, s13, s14, s15, s16,

...

}

E-UTRAPCI ::= INTEGER (0..503, ...)

E-UTRAPRACHConfiguration ::= SEQUENCE {

rootSequenceIndex INTEGER (0..837),

zeroCorrelationIndex INTEGER (0..15),

highSpeedFlag ENUMERATED {true, false, ...},

prach-FreqOffset INTEGER (0..94),

prach-ConfigIndex INTEGER (0..63) OPTIONAL,

-- C-ifTDD: This IE shall be present if the *EUTRA-Mode-Info* IE in the *Served Cell Information E-UTRA* IE is set to the value "TDD" --

iE-Extensions ProtocolExtensionContainer { {E-UTRAPRACHConfiguration-ExtIEs} } OPTIONAL,

...

}

E-UTRAPRACHConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

E-UTRATransmissionBandwidth ::= ENUMERATED {bw6, bw15, bw25, bw50, bw75, bw100, ..., bw1}

EndpointIPAddressAndPort ::=SEQUENCE {

endpointIPAddress TransportLayerAddress,

portNumber PortNumber,

iE-Extensions ProtocolExtensionContainer { { EndpointIPAddressAndPort-ExtIEs} } OPTIONAL

}

EndpointIPAddressAndPort-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

EventTriggered ::= SEQUENCE {

loggedEventTriggeredConfig LoggedEventTriggeredConfig,

iE-Extensions ProtocolExtensionContainer { { EventTriggered-ExtIEs} } OPTIONAL,

...

}

EventTriggered-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

EventType ::= ENUMERATED {

report-upon-change-of-serving-cell,

report-UE-moving-presence-into-or-out-of-the-Area-of-Interest,

...,

report-upon-change-of-serving-cell-and-Area-of-Interest

}

EventTypeTrigger ::= CHOICE {

outOfCoverage ENUMERATED {true, ...},

eventL1 EventL1,

choice-Extensions ProtocolIE-Single-Container { {EventTypeTrigger-ExtIEs} }

}

EventTypeTrigger-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

EventL1 ::= SEQUENCE {

l1Threshold MeasurementThresholdL1LoggedMDT,

hysteresis Hysteresis,

timeToTrigger TimeToTrigger,

iE-Extensions ProtocolExtensionContainer { { EventL1-ExtIEs} } OPTIONAL,

...

}

EventL1-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MeasurementThresholdL1LoggedMDT ::= CHOICE {

threshold-RSRP Threshold-RSRP,

threshold-RSRQ Threshold-RSRQ,

...,

choice-extension ProtocolIE-Single-Container { {MeasurementThresholdL1LoggedMDT-ExtIEs} }

}

MeasurementThresholdL1LoggedMDT-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ExcessPacketDelayThresholdConfiguration ::= SEQUENCE (SIZE(1..maxnoofThresholdsForExcessPacketDelay)) OF ExcessPacketDelayThresholdItem

ExcessPacketDelayThresholdItem ::= SEQUENCE {

fiveQI FiveQI,

excessPacketDelayThresholdValue ExcessPacketDelayThresholdValue,

iE-Extensions ProtocolExtensionContainer { { ExcessPacketDelayThresholdItem-ExtIEs } } OPTIONAL,

...

}

ExcessPacketDelayThresholdItem-ExtIEs XNAP-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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

ExpectedUEBehaviour ::= SEQUENCE {

expectedUEActivityBehaviour ExpectedUEActivityBehaviour OPTIONAL,

expectedHOInterval ExpectedHOInterval OPTIONAL,

expectedUEMobility ExpectedUEMobility OPTIONAL,

expectedUEMovingTrajectory ExpectedUEMovingTrajectory OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExpectedUEBehaviour-ExtIEs} } OPTIONAL,

...

}

ExpectedUEBehaviour-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ExpectedUEMobility ::= ENUMERATED {

stationary,

mobile,

...

}

ExpectedUEMovingTrajectory ::= SEQUENCE (SIZE(1..maxnoofCellsUEMovingTrajectory)) OF ExpectedUEMovingTrajectoryItem

ExpectedUEMovingTrajectoryItem ::= SEQUENCE {

nGRAN-CGI GlobalNG-RANCell-ID,

timeStayedInCell INTEGER (0..4095) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExpectedUEMovingTrajectoryItem-ExtIEs} } OPTIONAL,

...

}

ExpectedUEMovingTrajectoryItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SourceOfUEActivityBehaviourInformation ::= ENUMERATED {

subscription-information,

statistics,

...

}

ExplicitFormat ::= SEQUENCE {

permutation Permutation,

noofDownlinkSymbols INTEGER(0..14) OPTIONAL,

noofUplinkSymbols INTEGER(0..14) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ExplicitFormat-ExtIEs} } OPTIONAL,

...

}

ExplicitFormat-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ExtendedRATRestrictionInformation ::= SEQUENCE {

primaryRATRestriction BIT STRING (SIZE(8, ..., 16)),

secondaryRATRestriction BIT STRING (SIZE(8, ...)),

iE-Extensions ProtocolExtensionContainer { {ExtendedRATRestrictionInformation-ExtIEs} } OPTIONAL,

...

}

ExtendedRATRestrictionInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ExtendedPacketDelayBudget ::= INTEGER (0..65535, ..., 65536..109999)

ExtendedSliceSupportList ::= SEQUENCE (SIZE(1..maxnoofExtSliceItems)) OF S-NSSAI

ExtendedUEIdentityIndexValue ::= BIT STRING (SIZE(16))

ExtTLAs ::= SEQUENCE (SIZE(1..maxnoofExtTLAs)) OF ExtTLA-Item

ExtTLA-Item ::= SEQUENCE {

iPsecTLA TransportLayerAddress OPTIONAL,

gTPTransportLayerAddresses GTPTLAs OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ExtTLA-Item-ExtIEs} } OPTIONAL,

...

}

ExtTLA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

GTPTLAs ::= SEQUENCE (SIZE(1.. maxnoofGTPTLAs)) OF GTPTLA-Item

GTPTLA-Item ::= SEQUENCE {

gTPTransportLayerAddresses TransportLayerAddress,

iE-Extensions ProtocolExtensionContainer { { GTPTLA-Item-ExtIEs } } OPTIONAL,

...

}

GTPTLA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- F

F1CTrafficContainer ::= OCTET STRING

F1-terminatingIAB-donorIndicator ::= ENUMERATED {true, ...}

F1-TerminatingTopologyBHInformation ::= SEQUENCE {

f1TerminatingBHInformation-List F1TerminatingBHInformation-List,

iE-Extensions ProtocolExtensionContainer { {F1-TerminatingTopologyBHInformation-ExtIEs} } OPTIONAL,

...

}

F1-TerminatingTopologyBHInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

F1TerminatingBHInformation-List ::= SEQUENCE (SIZE(1..maxnoofBHInfo)) OF F1TerminatingBHInformation-Item

F1TerminatingBHInformation-Item ::= SEQUENCE {

bHInfoIndex BHInfoIndex,

dLTNLAddress IABTNLAddress,

dlF1TerminatingBHInfo DLF1Terminating-BHInfo OPTIONAL,

ulF1TerminatingBHInfo ULF1Terminating-BHInfo OPTIONAL,

iE-Extension ProtocolExtensionContainer { { F1TerminatingBHInformation-Item-ExtIEs} } OPTIONAL,

...

}

F1TerminatingBHInformation-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FiveGCMobilityRestrictionListContainer ::= OCTET STRING

-- This octets of the OCTET STRING contain the Mobility Restriction List IE as specified in TS 38.413 [5]. --

FiveGProSeAuthorized ::= SEQUENCE {

fiveGproSeDirectDiscovery FiveGProSeDirectDiscovery OPTIONAL,

fiveGproSeDirectCommunication FiveGProSeDirectCommunication OPTIONAL,

fiveGnrProSeLayer2UEtoNetworkRelay FiveGProSeLayer2UEtoNetworkRelay OPTIONAL,

fiveGnrProSeLayer3UEtoNetworkRelay FiveGProSeLayer3UEtoNetworkRelay OPTIONAL,

fiveGnrProSeLayer2RemoteUE FiveGProSeLayer2RemoteUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {FiveGProSeAuthorized-ExtIEs} } OPTIONAL,

...

}

FiveGProSeAuthorized-ExtIEs XNAP-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,

...

}

FiveGProSePC5QoSParameters ::= SEQUENCE {

fiveGProSepc5QoSFlowList FiveGProSePC5QoSFlowList,

fiveGproSepc5LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { FiveGProSePC5QoSParameters-ExtIEs} } OPTIONAL,

...

}

FiveGProSePC5QoSParameters-ExtIEs XNAP-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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

FiveGProSePC5FlowBitRates ::= SEQUENCE {

fiveGproSeguaranteedFlowBitRate BitRate,

fiveGproSemaximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { FiveGProSePC5FlowBitRates-ExtIEs} } OPTIONAL,

...

}

FiveGProSePC5FlowBitRates-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FiveQI ::= INTEGER (0..255, ...)

Flows-Mapped-To-DRB-List ::= SEQUENCE (SIZE(1.. maxnoofQoSFlows)) OF Flows-Mapped-To-DRB-Item

Flows-Mapped-To-DRB-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

qoSFlowLevelQoSParameters QoSFlowLevelQoSParameters,

qoSFlowMappingIndication QoSFlowMappingIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Flows-Mapped-To-DRB-Item-ExtIEs} } OPTIONAL

}

Flows-Mapped-To-DRB-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FreqDomainHSNAconfiguration-List ::= SEQUENCE (SIZE(1.. maxnoofHSNASlots)) OF FreqDomainHSNAconfiguration-List-Item

FreqDomainHSNAconfiguration-List-Item ::= SEQUENCE {

rBsetIndex INTEGER(0.. maxnoofRBsetsPerCell1, ...),

freqDomainSlotHSNAconfiguration-List FreqDomainSlotHSNAconfiguration-List,

iE-Extensions ProtocolExtensionContainer { { FreqDomainHSNAconfiguration-List-Item-ExtIEs} } OPTIONAL,

...

}

FreqDomainHSNAconfiguration-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FreqDomainSlotHSNAconfiguration-List ::= SEQUENCE (SIZE(1.. maxnoofHSNASlots)) OF FreqDomainSlotHSNAconfiguration-List-Item

FreqDomainSlotHSNAconfiguration-List-Item ::= SEQUENCE {

slotIndex INTEGER(1..maxnoofHSNASlots),

hSNADownlink HSNADownlink OPTIONAL,

hSNAUplink HSNAUplink OPTIONAL,

hSNAFlexible HSNAFlexible OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { FreqDomainSlotHSNAconfiguration-List-Item-ExtIEs} } OPTIONAL,

...

}

FreqDomainSlotHSNAconfiguration-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FrequencyShift7p5khz ::= ENUMERATED {false, true, ...}

-- G

GBRQoSFlowInfo ::= SEQUENCE {

maxFlowBitRateDL BitRate,

maxFlowBitRateUL BitRate,

guaranteedFlowBitRateDL BitRate,

guaranteedFlowBitRateUL BitRate,

notificationControl ENUMERATED {notification-requested, ...} OPTIONAL,

maxPacketLossRateDL PacketLossRate OPTIONAL,

maxPacketLossRateUL PacketLossRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {GBRQoSFlowInfo-ExtIEs} } OPTIONAL,

...

}

GBRQoSFlowInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-AlternativeQoSParaSetList CRITICALITY ignore EXTENSION AlternativeQoSParaSetList PRESENCE optional },

...

}

GlobalgNB-ID ::= SEQUENCE {

plmn-id PLMN-Identity,

gnb-id GNB-ID-Choice,

iE-Extensions ProtocolExtensionContainer { {GlobalgNB-ID-ExtIEs} } OPTIONAL,

...

}

GlobalgNB-ID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

GNB-DU-Cell-Resource-Configuration ::= SEQUENCE {

subcarrierSpacing SubcarrierSpacing,

dUFTransmissionPeriodicity DUFTransmissionPeriodicity OPTIONAL,

dUF-Slot-Config-List DUF-Slot-Config-List OPTIONAL,

hSNATransmissionPeriodicity HSNATransmissionPeriodicity,

hNSASlotConfigList HSNASlotConfigList OPTIONAL,

rBsetConfiguration RBsetConfiguration OPTIONAL,

freqDomainHSNAconfiguration-List FreqDomainHSNAconfiguration-List OPTIONAL,

nACellResourceConfigurationList NACellResourceConfigurationList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { GNB-DU-Cell-Resource-Configuration-ExtIEs } } OPTIONAL,

...

}

GNB-DU-Cell-Resource-Configuration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

GNB-ID-Choice ::= CHOICE {

gnb-ID BIT STRING (SIZE(22..32)),

choice-extension ProtocolIE-Single-Container { {GNB-ID-Choice-ExtIEs} }

}

GNB-ID-Choice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

GNB-RadioResourceStatus ::= SEQUENCE {

ssbAreaRadioResourceStatus-List SSBAreaRadioResourceStatus-List,

iE-Extensions ProtocolExtensionContainer { { GNB-RadioResourceStatus-ExtIEs} } OPTIONAL,

...

}

GNB-RadioResourceStatus-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SliceRadioResourceStatus-List CRITICALITY ignore EXTENSION SliceRadioResourceStatus-List PRESENCE optional }|

{ ID id-MIMOPRBusageInformation CRITICALITY ignore EXTENSION MIMOPRBusageInformation PRESENCE optional },

...

}

GlobalCell-ID ::= SEQUENCE {

plmn-id PLMN-Identity,

cell-type Cell-Type-Choice,

iE-Extensions ProtocolExtensionContainer { { GlobalCell-ID-ExtIEs} } OPTIONAL,

...

}

GlobalCell-ID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalngeNB-ID ::= SEQUENCE {

plmn-id PLMN-Identity,

enb-id ENB-ID-Choice,

iE-Extensions ProtocolExtensionContainer { {GlobaleNB-ID-ExtIEs} } OPTIONAL,

...

}

GlobaleNB-ID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ENB-ID-Choice ::= CHOICE {

enb-ID-macro BIT STRING (SIZE(20)),

enb-ID-shortmacro BIT STRING (SIZE(18)),

enb-ID-longmacro BIT STRING (SIZE(21)),

choice-extension ProtocolIE-Single-Container { {ENB-ID-Choice-ExtIEs} }

}

ENB-ID-Choice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

GlobalNG-RANCell-ID ::= SEQUENCE {

plmn-id PLMN-Identity,

ng-RAN-Cell-id NG-RAN-Cell-Identity,

iE-Extensions ProtocolExtensionContainer { {GlobalNG-RANCell-ID-ExtIEs} } OPTIONAL,

...

}

GlobalNG-RANCell-ID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

GlobalNG-RANNode-ID ::= CHOICE {

gNB GlobalgNB-ID,

ng-eNB GlobalngeNB-ID,

choice-extension ProtocolIE-Single-Container { {GlobalNG-RANNode-ID-ExtIEs} }

}

GlobalNG-RANNode-ID-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

GTP-TEID ::= OCTET STRING (SIZE(4))

GTPtunnelTransportLayerInformation ::= SEQUENCE {

tnl-address TransportLayerAddress,

gtp-teid GTP-TEID,

iE-Extensions ProtocolExtensionContainer { {GTPtunnelTransportLayerInformation-ExtIEs} } OPTIONAL,

...

}

GTPtunnelTransportLayerInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-QoS-Mapping-Information CRITICALITY reject EXTENSION QoS-Mapping-Information PRESENCE optional },

...

}

GUAMI ::= SEQUENCE {

plmn-ID PLMN-Identity,

amf-region-id BIT STRING (SIZE (8)),

amf-set-id BIT STRING (SIZE (10)),

amf-pointer BIT STRING (SIZE (6)),

iE-Extensions ProtocolExtensionContainer { {GUAMI-ExtIEs} } OPTIONAL,

...

}

GUAMI-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- H

HandoverReportType ::= ENUMERATED {

hoTooEarly,

hoToWrongCell,

intersystempingpong,

...

}

HashedUEIdentityIndexValue ::= BIT STRING (SIZE(13, ...))

HSNASlotConfigList ::= SEQUENCE (SIZE(1..maxnoofHSNASlots)) OF HSNASlotConfigItem

HSNASlotConfigItem ::= SEQUENCE {

hSNADownlink HSNADownlink OPTIONAL,

hSNAUplink HSNAUplink OPTIONAL,

hSNAFlexible HSNAFlexible OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { HSNASlotConfigItem-ExtIEs } } OPTIONAL,

...

}

HSNASlotConfigItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

HSNADownlink ::= ENUMERATED { hard, soft, notavailable }

HSNAFlexible ::= ENUMERATED { hard, soft, notavailable }

HSNAUplink ::= ENUMERATED { hard, soft, notavailable }

HSNATransmissionPeriodicity ::= ENUMERATED { ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms5, ms10, ms20, ms40, ms80, ms160, ...}

Hysteresis ::= INTEGER (0..30)

-- I

IABCellInformation::= SEQUENCE{

nRCGI NR-CGI,

iAB-DU-Cell-Resource-Configuration-Mode-Info IAB-DU-Cell-Resource-Configuration-Mode-Info OPTIONAL,

iAB-STC-Info IAB-STC-Info OPTIONAL,

rACH-Config-Common RACH-Config-Common OPTIONAL,

rACH-Config-Common-IAB RACH-Config-Common-IAB OPTIONAL,

cSI-RS-Configuration OCTET STRING OPTIONAL,

sR-Configuration OCTET STRING OPTIONAL,

pDCCH-ConfigSIB1 OCTET STRING OPTIONAL,

sCS-Common OCTET STRING OPTIONAL,

multiplexingInfo MultiplexingInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { IABCellInformation-ExtIEs} } OPTIONAL,

...

}

IABCellInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-DU-Cell-Resource-Configuration-Mode-Info ::= CHOICE {

tDD IAB-DU-Cell-Resource-Configuration-TDD-Info,

fDD IAB-DU-Cell-Resource-Configuration-FDD-Info,

choice-extension ProtocolIE-Single-Container { { IAB-DU-Cell-Resource-Configuration-Mode-Info-ExtIEs} }

}

IAB-DU-Cell-Resource-Configuration-Mode-Info-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

IAB-DU-Cell-Resource-Configuration-FDD-Info ::= SEQUENCE {

gNB-DU-Cell-Resource-Configuration-FDD-UL GNB-DU-Cell-Resource-Configuration,

gNB-DU-Cell-Resource-Configuration-FDD-DL GNB-DU-Cell-Resource-Configuration,

uLFrequencyInfo NRFrequencyInfo OPTIONAL,

dLFrequencyInfo NRFrequencyInfo OPTIONAL,

uLTransmissionBandwidth NRTransmissionBandwidth OPTIONAL,

dlTransmissionBandwidth NRTransmissionBandwidth OPTIONAL,

uLCarrierList NRCarrierList OPTIONAL,

dlCarrierList NRCarrierList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-DU-Cell-Resource-Configuration-FDD-Info-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-DU-Cell-Resource-Configuration-TDD-Info ::= SEQUENCE {

gNB-DU-Cell-Resource-Configuration-TDD GNB-DU-Cell-Resource-Configuration,

frequencyInfo NRFrequencyInfo OPTIONAL,

transmissionBandwidth NRTransmissionBandwidth OPTIONAL,

carrierList NRCarrierList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IAB-DU-Cell-Resource-Configuration-TDD-Info-ExtIEs} } OPTIONAL,

...

}

IAB-DU-Cell-Resource-Configuration-TDD-Info-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-MT-Cell-List ::= SEQUENCE (SIZE(1..maxnoofServingCells)) OF IAB-MT-Cell-List-Item

IAB-MT-Cell-List-Item ::= SEQUENCE {

nRCellIdentity NR-Cell-Identity,

dU-RX-MT-RX DU-RX-MT-RX,

dU-TX-MT-TX DU-TX-MT-TX,

dU-RX-MT-TX DU-RX-MT-TX,

dU-TX-MT-RX DU-TX-MT-RX,

iE-Extensions ProtocolExtensionContainer { { IAB-MT-Cell-List-Item-ExtIEs } } OPTIONAL,

...

}

IAB-MT-Cell-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABNodeIndication ::= ENUMERATED {true,...}

IAB-QoS-Mapping-Information ::= SEQUENCE {

dscp BIT STRING (SIZE(6)) OPTIONAL,

flow-label BIT STRING (SIZE(20)) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IAB-QoS-Mapping-Information-ExtIEs} } OPTIONAL,

...

}

IAB-QoS-Mapping-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-STC-Info ::= SEQUENCE{

iAB-STC-Info-List IAB-STC-Info-List,

iE-Extensions ProtocolExtensionContainer { { IAB-STC-Info-ExtIEs } } OPTIONAL,

...

}

IAB-STC-Info-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-STC-Info-List ::= SEQUENCE (SIZE(1..maxnoofIABSTCInfo)) OF IAB-STC-Info-Item

IAB-STC-Info-Item::= SEQUENCE {

sSB-freqInfo SSB-freqInfo,

sSB-subcarrierSpacing SSB-subcarrierSpacing,

sSB-transmissionPeriodicity SSB-transmissionPeriodicity,

sSB-transmissionTimingOffset SSB-transmissionTimingOffset,

sSB-transmissionBitmap SSB-transmissionBitmap,

iE-Extensions ProtocolExtensionContainer { { IAB-STC-Info-Item-ExtIEs } } OPTIONAL,

...

}

IAB-STC-Info-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IAB-TNL-Address-Request ::= SEQUENCE {

iABIPv4AddressesRequested IABTNLAddressesRequested,

iABIPv6RequestType IABIPv6RequestType,

iABTNLAddressToRemove-List IABTNLAddressToRemove-List,

iE-Extensions ProtocolExtensionContainer { {IAB-TNL-Address-Request-ExtIEs} } OPTIONAL,

...

}

IAB-TNL-Address-Request-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABIPv6RequestType ::= CHOICE {

iPv6Address IABTNLAddressesRequested,

iPv6Prefix IABTNLAddressesRequested,

choice-extension ProtocolIE-Single-Container { {IABIPv6RequestType-ExtIEs} }

}

IABIPv6RequestType-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

IAB-TNL-Address-Response ::= SEQUENCE {

iABAllocatedTNLAddress-List IABAllocatedTNLAddress-List,

iE-Extensions ProtocolExtensionContainer { {IAB-TNL-Address-Response-ExtIEs} } OPTIONAL,

...

}

IAB-TNL-Address-Response-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABAllocatedTNLAddress-List ::= SEQUENCE (SIZE(1..maxnoofTLAsIAB)) OF IABAllocatedTNLAddress-Item

IABAllocatedTNLAddress-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress,

iABTNLAddressUsage IABTNLAddressUsage OPTIONAL,

associatedDonorDUAddress BAPAddress OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IABAllocatedTNLAddress-Item-ExtIEs} } OPTIONAL,

...

}

IABAllocatedTNLAddress-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABTNLAddress ::= CHOICE {

iPv4Address BIT STRING (SIZE(32)),

iPv6Address BIT STRING (SIZE(128)),

iPv6Prefix BIT STRING (SIZE(64)),

choice-extension ProtocolIE-Single-Container { {IABTNLAddress-ExtIEs} }

}

IABTNLAddress-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

IABTNLAddressesRequested ::= SEQUENCE {

tNLAddressesOrPrefixesRequestedAllTraffic INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedF1-C INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedF1-U INTEGER (1..256) OPTIONAL,

tNLAddressesOrPrefixesRequestedNoNF1 INTEGER (1..256) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {IABTNLAddressesRequested-ExtIEs} } OPTIONAL

}

IABTNLAddressesRequested-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABTNLAddressToRemove-List ::= SEQUENCE (SIZE(1..maxnoofTLAsIAB)) OF IABTNLAddressToRemove-Item

IABTNLAddressToRemove-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress,

iE-Extension ProtocolExtensionContainer { {IABTNLAddressToRemove-Item-ExtIEs} } OPTIONAL,

...

}

IABTNLAddressToRemove-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

IABTNLAddressUsage ::= ENUMERATED {

f1-c,

f1-u,

non-f1,

...,

all

}

IABTNLAddressException ::= SEQUENCE (SIZE(1..maxnoofTLAsIAB)) OF IABTNLAddress-Item

IABTNLAddress-Item ::= SEQUENCE {

iABTNLAddress IABTNLAddress,

iE-Extensions ProtocolExtensionContainer { { IABTNLAddress-ItemExtIEs } } OPTIONAL,

...}

IABTNLAddress-ItemExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ImmediateMDT-NR ::= SEQUENCE {

measurementsToActivate MeasurementsToActivate,

m1Configuration M1Configuration OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the first bit set to "1".--

m4Configuration M4Configuration OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the fourth bit set to "1".--

m5Configuration M5Configuration OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the fifth bit set to "1".--

mDT-Location-Info MDT-Location-Info OPTIONAL,

m6Configuration M6Configuration OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the seventh bit set to "1".--

m7Configuration M7Configuration OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the eighth bit set to "1".--

bluetoothMeasurementConfiguration BluetoothMeasurementConfiguration OPTIONAL,

wLANMeasurementConfiguration WLANMeasurementConfiguration OPTIONAL,

sensorMeasurementConfiguration SensorMeasurementConfiguration OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ImmediateMDT-NR-ExtIEs} } OPTIONAL,

...

}

ImmediateMDT-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ImplicitFormat ::= SEQUENCE {

dUFSlotformatIndex DUFSlotformatIndex,

iE-Extensions ProtocolExtensionContainer { { ImplicitFormat-ExtIEs } } OPTIONAL,

...

}

ImplicitFormat-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

InitiatingCondition-FailureIndication ::= CHOICE {

rRCReestab RRCReestab-initiated,

rRCSetup RRCSetup-initiated,

choice-extension ProtocolIE-Single-Container { {InitiatingCondition-FailureIndication-ExtIEs} }

}

InitiatingCondition-FailureIndication-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

IntendedTDD-DL-ULConfiguration-NR ::= SEQUENCE {

nrscs NRSCS,

nrCyclicPrefix NRCyclicPrefix,

nrDL-ULTransmissionPeriodicity NRDL-ULTransmissionPeriodicity,

slotConfiguration-List SlotConfiguration-List,

iE-Extensions ProtocolExtensionContainer { {IntendedTDD-DL-ULConfiguration-NR-ExtIEs} } OPTIONAL,

...

}

IntendedTDD-DL-ULConfiguration-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

InterfaceInstanceIndication ::= INTEGER (0..255, ...)

I-RNTI ::= CHOICE {

i-RNTI-full BIT STRING (SIZE(40)),

i-RNTI-short BIT STRING (SIZE(24)),

choice-extension ProtocolIE-Single-Container { {I-RNTI-ExtIEs} }

}

I-RNTI-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

IABAuthorizationStatus ::= ENUMERATED {

authorized,

not-authorized,

...

}

-- J

-- K

-- L

Local-NG-RAN-Node-Identifier ::= CHOICE {

full-I-RNTI-Profile-List Full-I-RNTI-Profile-List,

short-I-RNTI-Profile-List Short-I-RNTI-Profile-List,

choice-extension ProtocolIE-Single-Container { { Local-NG-RAN-Node-Identifier-ExtIEs} }

}

Local-NG-RAN-Node-Identifier-ExtIEs XNAP-PROTOCOL-IES ::= {

{ ID id-Full-and-Short-I-RNTI-Profile-List CRITICALITY ignore TYPE Full-and-Short-I-RNTI-Profile-List PRESENCE mandatory},

...

}

Full-and-Short-I-RNTI-Profile-List::= SEQUENCE {

full-I-RNTI-Profile-List Full-I-RNTI-Profile-List,

short-I-RNTI-Profile-List Short-I-RNTI-Profile-List,

iE-Extensions ProtocolExtensionContainer { { Full-and-Short-I-RNTI-Profile-List-ExtIEs} } OPTIONAL,

...

}

Full-and-Short-I-RNTI-Profile-List-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Full-I-RNTI-Profile-List ::= CHOICE {

full-I-RNTI-Profile-0 BIT STRING (SIZE (21)),

full-I-RNTI-Profile-1 BIT STRING (SIZE (18)),

full-I-RNTI-Profile-2 BIT STRING (SIZE (15)),

full-I-RNTI-Profile-3 BIT STRING (SIZE (12)),

choice-extension ProtocolIE-Single-Container { { Full-I-RNTI-Profile-List-ExtIEs} }

}

Full-I-RNTI-Profile-List-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

Short-I-RNTI-Profile-List ::= CHOICE {

short-I-RNTI-Profile-0 BIT STRING (SIZE (8)),

short-I-RNTI-Profile-1 BIT STRING (SIZE (6)),

choice-extension ProtocolIE-Single-Container { { Short-I-RNTI-Profile-List-ExtIEs} }

}

Short-I-RNTI-Profile-List-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

LastVisitedCell-Item ::= CHOICE {

nG-RAN-Cell LastVisitedNGRANCellInformation,

e-UTRAN-Cell LastVisitedEUTRANCellInformation,

uTRAN-Cell LastVisitedUTRANCellInformation,

gERAN-Cell LastVisitedGERANCellInformation,

choice-extension ProtocolIE-Single-Container { { LastVisitedCell-Item-ExtIEs} }

}

LastVisitedCell-Item-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

LastVisitedEUTRANCellInformation ::= OCTET STRING

LastVisitedGERANCellInformation ::= OCTET STRING

LastVisitedNGRANCellInformation ::= OCTET STRING

LastVisitedUTRANCellInformation ::= OCTET STRING

LastVisitedPSCellInformation ::= OCTET STRING

LastVisitedPSCellList ::= SEQUENCE (SIZE(1..maxnoofPSCellsPerSN)) OF LastVisitedPSCellList-Item

LastVisitedPSCellList-Item ::= SEQUENCE {

lastVisitedPSCellInformation LastVisitedPSCellInformation,

iE-Extensions ProtocolExtensionContainer { { LastVisitedPSCellList-Item-ExtIEs} } OPTIONAL,

...

}

LastVisitedPSCellList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SCGUEHistoryInformation ::= SEQUENCE {

lastVisitedPSCellList LastVisitedPSCellList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SCGUEHistoryInformation-ExtIEs} } OPTIONAL,

...

}

SCGUEHistoryInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

LCID ::= INTEGER (1..32, ...)

Links-to-log ::= ENUMERATED {uplink, downlink, both-uplink-and-downlink, ...}

ListOfCells ::= SEQUENCE (SIZE(1..maxnoofCellsinAoI)) OF CellsinAoI-Item

CellsinAoI-Item ::= SEQUENCE {

pLMN-Identity PLMN-Identity,

ng-ran-cell-id NG-RAN-Cell-Identity,

iE-Extensions ProtocolExtensionContainer { {CellsinAoI-Item-ExtIEs} } OPTIONAL,

...

}

CellsinAoI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ListOfRANNodesinAoI ::= SEQUENCE (SIZE(1.. maxnoofRANNodesinAoI)) OF GlobalNG-RANNodesinAoI-Item

GlobalNG-RANNodesinAoI-Item ::= SEQUENCE {

global-NG-RAN-Node-ID GlobalNG-RANNode-ID,

iE-Extensions ProtocolExtensionContainer { {GlobalNG-RANNodesinAoI-Item-ExtIEs} } OPTIONAL,

...

}

GlobalNG-RANNodesinAoI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ListOfTAIsinAoI ::= SEQUENCE (SIZE(1..maxnoofTAIsinAoI)) OF TAIsinAoI-Item

TAIsinAoI-Item ::= SEQUENCE {

pLMN-Identity PLMN-Identity,

tAC TAC,

iE-Extensions ProtocolExtensionContainer { {TAIsinAoI-Item-ExtIEs} } OPTIONAL,

...

}

TAIsinAoI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

LocationInformationSNReporting ::= ENUMERATED {

pSCell,

...

}

LocationReportingInformation ::= SEQUENCE {

eventType EventType,

reportArea ReportArea,

areaOfInterest AreaOfInterestInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LocationReportingInformation-ExtIEs} } OPTIONAL,

...

}

LocationReportingInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-AdditionLocationInformation CRITICALITY ignore EXTENSION AdditionLocationInformation PRESENCE optional},

...

}

LoggedEventTriggeredConfig ::= SEQUENCE {

eventTypeTrigger EventTypeTrigger,

iE-Extensions ProtocolExtensionContainer { { LoggedEventTriggeredConfig-ExtIEs} } OPTIONAL,

...

}

LoggedEventTriggeredConfig-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

LoggedMDT-NR ::= SEQUENCE {

loggingInterval LoggingInterval,

loggingDuration LoggingDuration,

reportType ReportType,

bluetoothMeasurementConfiguration BluetoothMeasurementConfiguration OPTIONAL,

wLANMeasurementConfiguration WLANMeasurementConfiguration OPTIONAL,

sensorMeasurementConfiguration SensorMeasurementConfiguration OPTIONAL,

areaScopeOfNeighCellsList AreaScopeOfNeighCellsList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LoggedMDT-NR-ExtIEs} } OPTIONAL,

...

}

LoggedMDT-NR-ExtIEs XNAP-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}

LowerLayerPresenceStatusChange ::= ENUMERATED {

release-lower-layers,

re-establish-lower-layers,

...,

suspend-lower-layers,

resume-lower-layers

}

LTEA2XServicesAuthorized ::= SEQUENCE {

aerialUE AerialUE OPTIONAL,

aerialControllerUE AerialControllerUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LTEA2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

LTEA2XServicesAuthorized-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

LTEV2XServicesAuthorized ::= SEQUENCE {

vehicleUE VehicleUE OPTIONAL,

pedestrianUE PedestrianUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {LTEV2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

LTEV2XServicesAuthorized-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

LTEUESidelinkAggregateMaximumBitRate ::= SEQUENCE {

uESidelinkAggregateMaximumBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { {LTEUESidelinkAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

LTEUESidelinkAggregateMaximumBitRate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- M

MaxNrofRS-IndexesToReport::= INTEGER (1..64, ...)

MBSCommServiceType ::= ENUMERATED {multicast, broadcast, ...}

MDTAlignmentInfo ::= CHOICE {

s-BasedMDT S-BasedMDT,

choice-extension ProtocolIE-Single-Container { {MDTAlignmentInfo-ExtIEs} }

}

MDTAlignmentInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

MeasCollectionEntityIPAddress ::= TransportLayerAddress

M1Configuration ::= SEQUENCE {

m1reportingTrigger M1ReportingTrigger,

m1thresholdeventA2 M1ThresholdEventA2 OPTIONAL,

-- This IE shall be present if the *Measurements to Activate* IE has the first bit set to "1" and the *M1* *Reporting Trigger* IE is set to "A2event-triggered" or to "A2event-triggered periodic".

m1periodicReporting M1PeriodicReporting OPTIONAL,

-- This IE shall be present if the *M1* *Reporting Trigger* IE is set to "periodic", or to "A2event-triggered periodic".

iE-Extensions ProtocolExtensionContainer { { M1Configuration-ExtIEs} } OPTIONAL,

...

}

M1Configuration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-BeamMeasurementIndicationM1 CRITICALITY ignore EXTENSION BeamMeasurementIndicationM1 PRESENCE optional }|

{ID id-BeamMeasurementsReportConfiguration CRITICALITY ignore EXTENSION BeamMeasurementsReportConfiguration PRESENCE conditional },

-- This IE shall be present if the *Include Beam Measurements Indication* IE is set to "true".

...

}

M1PeriodicReporting ::= SEQUENCE {

reportInterval ReportIntervalMDT,

reportAmount ReportAmountMDT,

iE-Extensions ProtocolExtensionContainer { { M1PeriodicReporting-ExtIEs} } OPTIONAL,

...

}

M1PeriodicReporting-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-ExtendedReportIntervalMDT CRITICALITY ignore EXTENSION ExtendedReportIntervalMDT PRESENCE optional},

...

}

M1ReportingTrigger ::= ENUMERATED{

periodic,

a2eventtriggered,

a2eventtriggered-periodic,

...

}

M1ThresholdEventA2 ::= SEQUENCE {

measurementThreshold MeasurementThresholdA2,

iE-Extensions ProtocolExtensionContainer { { M1ThresholdEventA2-ExtIEs} } OPTIONAL,

...

}

M1ThresholdEventA2-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

M4Configuration ::= SEQUENCE {

m4period M4period,

m4-links-to-log Links-to-log,

iE-Extensions ProtocolExtensionContainer { { M4Configuration-ExtIEs} } OPTIONAL,

...

}

M4Configuration-ExtIEs XNAP-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 XNAP-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 XNAP-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 XNAP-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, ...)

MAC-I ::= BIT STRING (SIZE(16))

MaskedIMEISV ::= BIT STRING (SIZE(64))

MaxCHOpreparations ::= INTEGER (1..8, ...)

MaximumDataBurstVolume ::= INTEGER (0..4095, ..., 4096.. 2000000)

MaximumIPdatarate ::= SEQUENCE {

maxIPrate-UL MaxIPrate,

iE-Extensions ProtocolExtensionContainer { {MaximumIPdatarate-ExtIEs} } OPTIONAL,

...

}

MaximumIPdatarate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-MaxIPrate-DL CRITICALITY ignore EXTENSION MaxIPrate PRESENCE optional},

...

}

MaxIPrate ::= ENUMERATED {

bitrate64kbs,

max-UErate,

...

}

MBSFNControlRegionLength ::= INTEGER (0..3)

MBSFNSubframeAllocation-E-UTRA ::= CHOICE {

oneframe BIT STRING (SIZE(6)),

fourframes BIT STRING (SIZE(24)),

choice-extension ProtocolIE-Single-Container { {MBSFNSubframeAllocation-E-UTRA-ExtIEs} }

}

MBSFNSubframeAllocation-E-UTRA-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

MBSFNSubframeInfo-E-UTRA ::= SEQUENCE (SIZE(1..maxnoofMBSFNEUTRA)) OF MBSFNSubframeInfo-E-UTRA-Item

MBSFNSubframeInfo-E-UTRA-Item ::= SEQUENCE {

radioframeAllocationPeriod ENUMERATED{n1,n2,n4,n8,n16,n32,...},

radioframeAllocationOffset INTEGER (0..7, ...),

subframeAllocation MBSFNSubframeAllocation-E-UTRA,

iE-Extensions ProtocolExtensionContainer { {MBSFNSubframeInfo-E-UTRA-Item-ExtIEs} } OPTIONAL,

...

}

MBSFNSubframeInfo-E-UTRA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

MBS-FrequencySelectionArea-Identity ::= OCTET STRING (SIZE(3))

MBS-Area-Session-ID ::= INTEGER (0..65535, ...)

MBS-MappingandDataForwardingRequestInfofromSource ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF MBS-MappingandDataForwardingRequestInfofromSource-Item

MBS-MappingandDataForwardingRequestInfofromSource-Item ::= SEQUENCE {

mRB-ID MRB-ID,

mBS-QoSFlow-List MBS-QoSFlow-List,

mRB-ProgressInformation MRB-ProgressInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-MappingandDataForwardingRequestInfofromSource-Item-ExtIEs} } OPTIONAL,

...

}

MBS-MappingandDataForwardingRequestInfofromSource-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-DataForwarding-Indicator ::= ENUMERATED{mbs-only, ...}

MBS-DataForwardingResponseInfofromTarget ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF MBS-DataForwardingResponseInfofromTarget-Item

MBS-DataForwardingResponseInfofromTarget-Item ::= SEQUENCE {

mRB-ID MRB-ID,

dlForwardingUPTNL UPTransportLayerInformation,

mRB-ProgressInformation MRB-ProgressInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-DataForwardingResponseInfofromTarget-Item-ExtIEs} } OPTIONAL,

...

}

MBS-DataForwardingResponseInfofromTarget-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-QoSFlow-List ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF QoSFlowIdentifier

MBS-QoSFlowsToAdd-List ::= SEQUENCE (SIZE(1..maxnoofMBSQoSFlows)) OF MBS-QoSFlowsToAdd-Item

MBS-QoSFlowsToAdd-Item ::= SEQUENCE {

mBS-QosFlowIdentifier QoSFlowIdentifier,

mBS-QosFlowLevelQosParameters QoSFlowLevelQoSParameters,

iE-Extensions ProtocolExtensionContainer { { MBS-QoSFlowsToAdd-Item-ExtIEs} } OPTIONAL,

...

}

MBS-QoSFlowsToAdd-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceArea ::= CHOICE {

locationindependent MBS-ServiceAreaInformation,

locationdependent MBS-ServiceAreaInformationList,

choice-extension ProtocolIE-Single-Container { {MBS-ServiceArea-ExtIEs} }

}

MBS-ServiceArea-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

MBS-ServiceAreaCell-List ::= SEQUENCE (SIZE(1.. maxnoofCellsforMBS)) OF NR-CGI

MBS-ServiceAreaInformation ::= SEQUENCE {

mBS-ServiceAreaCell-List MBS-ServiceAreaCell-List OPTIONAL,

mBS-ServiceAreaTAI-List MBS-ServiceAreaTAI-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-ServiceAreaInformation-ExtIEs} } OPTIONAL,

...

}

MBS-ServiceAreaInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceAreaInformationList ::= SEQUENCE (SIZE(1..maxnoofMBSServiceAreaInformation)) OF MBS-ServiceAreaInformation-Item

MBS-ServiceAreaInformation-Item ::= SEQUENCE { mBS-Area-Session-ID MBS-Area-Session-ID,

mBS-ServiceAreaInformation MBS-ServiceAreaInformation,

iE-Extensions ProtocolExtensionContainer { { MBS-ServiceAreaInformation-Item-ExtIEs} } OPTIONAL,

...

}

MBS-ServiceAreaInformation-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-ServiceAreaTAI-List ::= SEQUENCE (SIZE(1.. maxnoofTAIforMBS)) OF MBS-ServiceAreaTAI-Item

MBS-ServiceAreaTAI-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

tAC TAC,

iE-Extensions ProtocolExtensionContainer { {MBS-ServiceAreaTAI-Item-ExtIEs} } OPTIONAL,

...

}

MBS-ServiceAreaTAI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-Session-ID ::= SEQUENCE {

tMGI TMGI,

nID NID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MBS-Session-ID-ExtIEs} } OPTIONAL,

...

}

MBS-Session-ID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-AssistanceInformation ::= ENUMERATED {true, ...}

MBS-SessionAssociatedInformation ::= SEQUENCE (SIZE(1..maxnoofAssociatedMBSSessions)) OF MBS-SessionAssociatedInformation-Item

MBS-SessionAssociatedInformation-Item ::= SEQUENCE {

mBS-Session-ID MBS-Session-ID,

associated-QoSFlowInfo-List Associated-QoSFlowInfo-List,

iE-Extensions ProtocolExtensionContainer { { MBS-SessionAssociatedInformation-Item-ExtIEs} } OPTIONAL,

...

}

MBS-SessionAssociatedInformation-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MBS-SessionInformation-List ::= SEQUENCE (SIZE(1..maxnoofMBSSessions)) OF MBS-SessionInformation-Item

MBS-SessionInformation-Item ::= SEQUENCE {

mBS-Session-ID MBS-Session-ID,

mBS-Area-Session-ID MBS-Area-Session-ID OPTIONAL,

active-MBS-SessioInformation Active-MBS-SessionInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-SessionInformation-Item-ExtIEs} } OPTIONAL,

...

}

MBS-SessionInformation-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-MBS-AssistanceInformation CRITICALITY ignore EXTENSION MBS-AssistanceInformation PRESENCE optional },

...

}

MBS-SessionInformationResponse-List ::= SEQUENCE (SIZE(1..maxnoofMBSSessions)) OF MBS-SessionInformationResponse-Item

MBS-SessionInformationResponse-Item ::= SEQUENCE {

mBS-Session-ID MBS-Session-ID,

mBS-DataForwardingResponseInfofromTarget MBS-DataForwardingResponseInfofromTarget OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MBS-SessionInformationResponse-Item-ExtIEs} } OPTIONAL,

...

}

MBS-SessionInformationResponse-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MRB-ID ::= INTEGER (1..512, ...)

MRB-ProgressInformation ::= CHOICE {

pdcp-SN12 INTEGER (0..4095),

pdcp-SN18 INTEGER (0..262143),

choice-extension ProtocolIE-Single-Container { { MRB-ProgressInformation-ExtIEs} }

}

MRB-ProgressInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

MDT-Activation ::= ENUMERATED {

immediate-MDT-only,

immediate-MDT-and-Trace,

logged-MDT-only,

...

}

MDT-Configuration ::= SEQUENCE {

mDT-Configuration-NR MDT-Configuration-NR OPTIONAL,

mDT-Configuration-EUTRA MDT-Configuration-EUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-ExtIEs XNAP-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-NR AreaScopeOfMDT-NR OPTIONAL,

mDTMode-NR MDTMode-NR,

signallingBasedMDTPLMNList MDTPLMNList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-NR-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-PNI-NPN-AreaScopeofMDT CRITICALITY ignore EXTENSION PNI-NPN-AreaScopeofMDT PRESENCE optional },

...

}

MDT-Configuration-EUTRA ::= SEQUENCE {

mdt-Activation MDT-Activation,

areaScopeOfMDT-EUTRA AreaScopeOfMDT-EUTRA OPTIONAL,

mDTMode-EUTRA MDTMode-EUTRA,

signallingBasedMDTPLMNList MDTPLMNList,

iE-Extensions ProtocolExtensionContainer { { MDT-Configuration-EUTRA-ExtIEs} } OPTIONAL,

...

}

MDT-Configuration-EUTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MDT-Location-Info ::= BIT STRING (SIZE (8))

MDTPLMNList ::= SEQUENCE (SIZE(1..maxnoofMDTPLMNs)) OF PLMN-Identity

MDTPLMNModificationList ::= SEQUENCE (SIZE(0..maxnoofMDTPLMNs)) OF PLMN-Identity

MDTMode-NR ::= CHOICE {

immediateMDT ImmediateMDT-NR,

loggedMDT LoggedMDT-NR,

...,

mDTMode-NR-Extension MDTMode-NR-Extension

}

MDTMode-NR-Extension ::= ProtocolIE-Single-Container {{ MDTMode-NR-ExtensionIE }}

MDTMode-NR-ExtensionIE XNAP-PROTOCOL-IES ::= {

...

}

MDTMode-EUTRA ::= OCTET STRING

MeasObjectContainer ::= OCTET STRING

MeasurementsToActivate ::= BIT STRING (SIZE (8))

MeasurementThresholdA2 ::= CHOICE {

threshold-RSRP Threshold-RSRP,

threshold-RSRQ Threshold-RSRQ,

threshold-SINR Threshold-SINR,

choice-extension ProtocolIE-Single-Container { { MeasurementThresholdA2-ExtIEs} }

}

MeasurementThresholdA2-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

Measurement-ID ::= INTEGER (1..4095,...)

MIMOPRBusageInformation ::= SEQUENCE {

dl-GBR-PRB-usage-for-MIMO DL-GBR-PRB-usage-for-MIMO,

ul-GBR-PRB-usage-for-MIMO UL-GBR-PRB-usage-for-MIMO,

dl-non-GBR-PRB-usage-for-MIMO DL-non-GBR-PRB-usage-for-MIMO,

ul-non-GBR-PRB-usage-for-MIMO UL-non-GBR-PRB-usage-for-MIMO,

dl-Total-PRB-usage-for-MIMO DL-Total-PRB-usage-for-MIMO,

ul-Total-PRB-usage-for-MIMO UL-Total-PRB-usage-for-MIMO,

iE-Extensions ProtocolExtensionContainer { { MIMOPRBusageInformation-ExtIEs} } OPTIONAL,

...

}

MIMOPRBusageInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MobileIAB-AuthorizationStatus ::= ENUMERATED {authorized, not-authorized,...}

MobileIABCell ::= ENUMERATED {

true,

...

}

MobilityInformation ::= BIT STRING (SIZE(32))

MobilityParametersModificationRange ::= SEQUENCE {

handoverTriggerChangeLowerLimit INTEGER (-20..20),

handoverTriggerChangeUpperLimit INTEGER (-20..20),

...

}

MobilityParametersInformation ::= SEQUENCE {

handoverTriggerChange INTEGER (-20..20),

...

}

MobilityRestrictionList ::= SEQUENCE {

serving-PLMN PLMN-Identity,

equivalent-PLMNs SEQUENCE (SIZE(1..maxnoofEPLMNs)) OF PLMN-Identity OPTIONAL,

rat-Restrictions RAT-RestrictionsList OPTIONAL,

forbiddenAreaInformation ForbiddenAreaList OPTIONAL,

serviceAreaInformation ServiceAreaList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {MobilityRestrictionList-ExtIEs} } OPTIONAL,

...

}

MobilityRestrictionList-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-LastE-UTRANPLMNIdentity CRITICALITY ignore EXTENSION PLMN-Identity PRESENCE optional }|

{ ID id-CNTypeRestrictionsForServing CRITICALITY ignore EXTENSION CNTypeRestrictionsForServing PRESENCE optional }|

{ ID id-CNTypeRestrictionsForEquivalent CRITICALITY ignore EXTENSION CNTypeRestrictionsForEquivalent PRESENCE optional }|

{ ID id-NPNMobilityInformation CRITICALITY reject EXTENSION NPNMobilityInformation PRESENCE optional },

...

}

CNTypeRestrictionsForEquivalent ::= SEQUENCE (SIZE(1..maxnoofEPLMNs)) OF CNTypeRestrictionsForEquivalentItem

CNTypeRestrictionsForEquivalentItem ::= SEQUENCE {

plmn-Identity PLMN-Identity,

cn-Type ENUMERATED {epc-forbidden, fiveGC-forbidden, ...},

iE-Extensions ProtocolExtensionContainer { {CNTypeRestrictionsForEquivalentItem-ExtIEs} } OPTIONAL,

...

}

CNTypeRestrictionsForEquivalentItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CNTypeRestrictionsForServing ::= ENUMERATED {

epc-forbidden,

...

}

RAT-RestrictionsList ::= SEQUENCE (SIZE(1..maxnoofPLMNs)) OF RAT-RestrictionsItem

RAT-RestrictionsItem ::= SEQUENCE {

plmn-Identity PLMN-Identity,

rat-RestrictionInformation RAT-RestrictionInformation,

iE-Extensions ProtocolExtensionContainer { {RAT-RestrictionsItem-ExtIEs} } OPTIONAL,

...

}

RAT-RestrictionsItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-ExtendedRATRestrictionInformation CRITICALITY ignore EXTENSION ExtendedRATRestrictionInformation PRESENCE optional},

...

}

RAT-RestrictionInformation ::= BIT STRING {e-UTRA (0),nR (1), nR-unlicensed (2), nR-LEO (3), nR-MEO (4), nR-GEO (5), nR-OTHERSAT (6)} (SIZE(8, ...))

ForbiddenAreaList ::= SEQUENCE (SIZE(1..maxnoofPLMNs)) OF ForbiddenAreaItem

ForbiddenAreaItem ::= SEQUENCE {

plmn-Identity PLMN-Identity,

forbidden-TACs SEQUENCE (SIZE(1..maxnoofForbiddenTACs)) OF TAC,

iE-Extensions ProtocolExtensionContainer { {ForbiddenAreaItem-ExtIEs} } OPTIONAL,

...

}

ForbiddenAreaItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

ServiceAreaList ::= SEQUENCE (SIZE(1..maxnoofPLMNs)) OF ServiceAreaItem

ServiceAreaItem ::= SEQUENCE {

plmn-Identity PLMN-Identity,

allowed-TACs-ServiceArea SEQUENCE (SIZE(1..maxnoofAllowedAreas)) OF TAC OPTIONAL,

not-allowed-TACs-ServiceArea SEQUENCE (SIZE(1..maxnoofAllowedAreas)) OF TAC OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServiceAreaItem-ExtIEs} } OPTIONAL,

...

}

ServiceAreaItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

MR-DC-ResourceCoordinationInfo ::= SEQUENCE {

ng-RAN-Node-ResourceCoordinationInfo NG-RAN-Node-ResourceCoordinationInfo,

iE-Extension ProtocolExtensionContainer { {MR-DC-ResourceCoordinationInfo-ExtIEs}} OPTIONAL,

...

}

MR-DC-ResourceCoordinationInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NG-RAN-Node-ResourceCoordinationInfo ::= CHOICE {

eutra-resource-coordination-info E-UTRA-ResourceCoordinationInfo,

nr-resource-coordination-info NR-ResourceCoordinationInfo

}

E-UTRA-ResourceCoordinationInfo ::= SEQUENCE {

e-utra-cell E-UTRA-CGI,

ul-coordination-info BIT STRING (SIZE (6..4400)),

dl-coordination-info BIT STRING (SIZE (6..4400)) OPTIONAL,

nr-cell NR-CGI OPTIONAL,

e-utra-coordination-assistance-info E-UTRA-CoordinationAssistanceInfo OPTIONAL,

iE-Extension ProtocolExtensionContainer { {E-UTRA-ResourceCoordinationInfo-ExtIEs} } OPTIONAL,

...

}

E-UTRA-ResourceCoordinationInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

E-UTRA-CoordinationAssistanceInfo ::= ENUMERATED {coordination-not-required, ...}

NR-ResourceCoordinationInfo ::= SEQUENCE {

nr-cell NR-CGI,

ul-coordination-info BIT STRING (SIZE (6..4400)),

dl-coordination-info BIT STRING (SIZE (6..4400)) OPTIONAL,

e-utra-cell E-UTRA-CGI OPTIONAL,

nr-coordination-assistance-info NR-CoordinationAssistanceInfo OPTIONAL,

iE-Extension ProtocolExtensionContainer { {NR-ResourceCoordinationInfo-ExtIEs} } OPTIONAL,

...

}

NR-ResourceCoordinationInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NR-CoordinationAssistanceInfo ::= ENUMERATED {coordination-not-required, ...}

MessageOversizeNotification ::= SEQUENCE {

maximumCellListSize MaximumCellListSize,

iE-Extension ProtocolExtensionContainer { {MessageOversizeNotification-ExtIEs}} OPTIONAL,

...

}

MessageOversizeNotification-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MaximumCellListSize ::= INTEGER(1..16384, ...)

MT-SDT-Information ::= SEQUENCE {

mT-SDT-Indicator MT-SDT-Indicator,

mT-SDT-DataSize MT-SDT-DataSize,

iE-Extensions ProtocolExtensionContainer { { MT-SDT-Information-ExtIEs} } OPTIONAL,

...

}

MT-SDT-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MT-SDT-DataSize ::= INTEGER (1..96000, ...)

MT-SDT-Indicator ::= ENUMERATED {true, ...}

MultiplexingInfo ::= SEQUENCE{

iAB-MT-Cell-List IAB-MT-Cell-List,

iE-Extensions ProtocolExtensionContainer { {MultiplexingInfo-ExtIEs} } OPTIONAL,

...

}

MultiplexingInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MeasuredUETrajectory ::= SEQUENCE (SIZE(1..maxnoofCellsTrajectory)) OF MeasuredUETrajectory-Item

MeasuredUETrajectory-Item ::= SEQUENCE{

measuredtrajectoryCellInfo MeasuredTrajectoryCellInfo,

iE-Extensions ProtocolExtensionContainer { { MeasuredUETrajectory-Item-ExtIEs} } OPTIONAL,

...

}

MeasuredUETrajectory-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MeasuredTrajectoryCellInfo ::= CHOICE {

nG-RAN-Cell MeasuredTrajectoryNGRANCellInfo,

choice-extension ProtocolIE-Single-Container { { MeasuredTrajectoryCellInfo-ExtIEs} }

}

MeasuredTrajectoryCellInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

MeasuredTrajectoryNGRANCellInfo ::= SEQUENCE {

globalNG-RANCell-ID GlobalNG-RANCell-ID,

timeUEStaysInCell INTEGER (0..4095),

iE-Extensions ProtocolExtensionContainer { { MeasuredTrajectoryNGRANCellInfo-ExtIEs} } OPTIONAL,

...

}

MeasuredTrajectoryNGRANCellInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- N

N6JitterInformation ::= SEQUENCE {

n6JitterLowerBound INTEGER (-127..127),

n6JitterUpperBound INTEGER (-127..127),

iE-Extensions ProtocolExtensionContainer { { N6JitterInformationExtIEs } } OPTIONAL,

...

}

N6JitterInformationExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NACellResourceConfigurationList ::= SEQUENCE (SIZE(1..maxnoofHSNASlots)) OF NACellResourceConfiguration-Item

NACellResourceConfiguration-Item ::= SEQUENCE {

nAdownlink ENUMERATED {true, false, ...} OPTIONAL,

nAuplink ENUMERATED {true, false, ...} OPTIONAL,

nAflexible ENUMERATED {true, false, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NACellResourceConfiguration-Item-ExtIEs} } OPTIONAL,

...

}

NACellResourceConfiguration-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NBIoT-UL-DL-AlignmentOffset ::= ENUMERATED {

khz-7dot5,

khz0,

khz7dot5,

...

}

NE-DC-TDM-Pattern ::= SEQUENCE {

subframeAssignment ENUMERATED {sa0,sa1,sa2,sa3,sa4,sa5,sa6},

harqOffset INTEGER (0..9),

iE-Extension ProtocolExtensionContainer { {NE-DC-TDM-Pattern-ExtIEs}} OPTIONAL,

...

}

NE-DC-TDM-Pattern-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NeighbourInformation-E-UTRA ::= SEQUENCE (SIZE(1..maxnoofNeighbours)) OF NeighbourInformation-E-UTRA-Item

NeighbourInformation-E-UTRA-Item ::= SEQUENCE {

e-utra-PCI E-UTRAPCI,

e-utra-cgi E-UTRA-CGI,

earfcn E-UTRAARFCN,

tac TAC,

ranac RANAC OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NeighbourInformation-E-UTRA-Item-ExtIEs} } OPTIONAL,

...

}

NeighbourInformation-E-UTRA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

NeighbourInformation-NR ::= SEQUENCE (SIZE(1..maxnoofNeighbours)) OF NeighbourInformation-NR-Item

NeighbourInformation-NR-Item ::= SEQUENCE {

nr-PCI NRPCI,

nr-cgi NR-CGI,

tac TAC,

ranac RANAC OPTIONAL,

nr-mode-info NeighbourInformation-NR-ModeInfo,

connectivitySupport Connectivity-Support,

measurementTimingConfiguration OCTET STRING,

iE-Extensions ProtocolExtensionContainer { {NeighbourInformation-NR-Item-ExtIEs} } OPTIONAL,

...

}

NeighbourInformation-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-MobileIABCell CRITICALITY ignore EXTENSION MobileIABCell PRESENCE optional},

...

}

NeighbourInformation-NR-ModeInfo ::= CHOICE {

fdd-info NeighbourInformation-NR-ModeFDDInfo,

tdd-info NeighbourInformation-NR-ModeTDDInfo,

choice-extension ProtocolIE-Single-Container { {NeighbourInformation-NR-ModeInfo-ExtIEs} }

}

NeighbourInformation-NR-ModeInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NeighbourInformation-NR-ModeFDDInfo ::= SEQUENCE {

ul-NR-FreqInfo NRFrequencyInfo,

dl-NR-FequInfo NRFrequencyInfo,

ie-Extensions ProtocolExtensionContainer { {NeighbourInformation-NR-ModeFDDInfo-ExtIEs} } OPTIONAL,

...

}

NeighbourInformation-NR-ModeFDDInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NeighbourInformation-NR-ModeTDDInfo ::= SEQUENCE {

nr-FreqInfo NRFrequencyInfo,

ie-Extensions ProtocolExtensionContainer { {NeighbourInformation-NR-ModeTDDInfo-ExtIEs} } OPTIONAL,

...

}

NeighbourInformation-NR-ModeTDDInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Neighbour-NG-RAN-Node-List ::= SEQUENCE (SIZE(0..maxnoofNeighbour-NG-RAN-Nodes)) OF Neighbour-NG-RAN-Node-Item

Neighbour-NG-RAN-Node-Item ::= SEQUENCE {

globalNG-RANNodeID GlobalNG-RANNode-ID,

local-NG-RAN-Node-Identifier Local-NG-RAN-Node-Identifier,

ie-Extensions ProtocolExtensionContainer { {Neighbour-NG-RAN-Node-Item-ExtIEs} } OPTIONAL,

...

}

Neighbour-NG-RAN-Node-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NID ::= BIT STRING (SIZE(44))

NRCarrierList ::= SEQUENCE (SIZE(1..maxnoofNRSCSs)) OF NRCarrierItem

NRCarrierItem ::= SEQUENCE {

carrierSCS NRSCS,

offsetToCarrier INTEGER (0..2199, ...),

carrierBandwidth INTEGER (0..maxnoofPhysicalResourceBlocks, ...),

iE-Extension ProtocolExtensionContainer { {NRCarrierItem-ExtIEs} } OPTIONAL,

...

}

NRCarrierItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRCellPRACHConfig ::= OCTET STRING

NG-RAN-Cell-Identity ::= CHOICE {

nr NR-Cell-Identity,

e-utra E-UTRA-Cell-Identity,

choice-extension ProtocolIE-Single-Container { {NG-RAN-Cell-Identity-ExtIEs} }

}

NG-RAN-Cell-Identity-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NG-RAN-CellPCI ::= CHOICE {

nr NRPCI,

e-utra E-UTRAPCI,

choice-extension ProtocolIE-Single-Container { {NG-RAN-CellPCI-ExtIEs} }

}

NG-RAN-CellPCI-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NG-RANnode2SSBOffsetsModificationRange ::= SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBOffsetModificationRange

NG-RANnodeUEXnAPID ::= INTEGER (0.. 4294967295)

NumberofActiveUEs::= INTEGER(0..16777215, ...)

NodeAssociatedInfoResult ::= SEQUENCE {

energyCost EnergyCost OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NodeAssociatedInfoResult-ExtIEs} } OPTIONAL,

...

}

NodeAssociatedInfoResult-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NodeMeasurementInitiationResult-List ::= SEQUENCE (SIZE(1..maxFailedMeasPerNode)) OF NodeMeasurementInitiationResult-Item

NodeMeasurementInitiationResult-Item ::= SEQUENCE {

nodemeasurementFailedReportCharacteristics BIT STRING(SIZE(32)),

cause Cause,

iE-Extensions ProtocolExtensionContainer { { NodeMeasurementInitiationResult-Item-ExtIEs} } OPTIONAL,

...

}

NodeMeasurementInitiationResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NoofRRCConnections ::= INTEGER (1..65536,...)

NonDynamic5QIDescriptor ::= SEQUENCE {

fiveQI FiveQI,

priorityLevelQoS PriorityLevelQoS OPTIONAL,

averagingWindow AveragingWindow OPTIONAL,

maximumDataBurstVolume MaximumDataBurstVolume OPTIONAL,

iE-Extension ProtocolExtensionContainer { {NonDynamic5QIDescriptor-ExtIEs } } OPTIONAL,

...

}

NonDynamic5QIDescriptor-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CNPacketDelayBudgetDownlink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional}|

{ ID id-CNPacketDelayBudgetUplink CRITICALITY ignore EXTENSION ExtendedPacketDelayBudget PRESENCE optional},

...

}

NRARFCN ::= INTEGER (0.. maxNRARFCN)

NG-eNB-RadioResourceStatus ::= SEQUENCE {

dL-GBR-PRB-usage DL-GBR-PRB-usage,

uL-GBR-PRB-usage UL-GBR-PRB-usage,

dL-non-GBR-PRB-usage DL-non-GBR-PRB-usage,

uL-non-GBR-PRB-usage UL-non-GBR-PRB-usage,

dL-Total-PRB-usage DL-Total-PRB-usage,

uL-Total-PRB-usage UL-Total-PRB-usage,

iE-Extensions ProtocolExtensionContainer { { NG-eNB-RadioResourceStatus-ExtIEs} } OPTIONAL,

...

}

NG-eNB-RadioResourceStatus-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DL-scheduling-PDCCH-CCE-usage CRITICALITY ignore EXTENSION DL-scheduling-PDCCH-CCE-usage PRESENCE optional}|

{ ID id-UL-scheduling-PDCCH-CCE-usage CRITICALITY ignore EXTENSION UL-scheduling-PDCCH-CCE-usage PRESENCE optional},

...

}

DL-scheduling-PDCCH-CCE-usage ::= INTEGER (0.. 100)

UL-scheduling-PDCCH-CCE-usage ::= INTEGER (0.. 100)

TNLCapacityIndicator ::= SEQUENCE {

dLTNLOfferedCapacity OfferedCapacity,

dLTNLAvailableCapacity AvailableCapacity,

uLTNLOfferedCapacity OfferedCapacity,

uLTNLAvailableCapacity AvailableCapacity,

iE-Extensions ProtocolExtensionContainer { { TNLCapacityIndicator-ExtIEs} } OPTIONAL,

...

}

TNLCapacityIndicator-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Non-F1-TerminatingTopologyBHInformation ::= SEQUENCE {

nonF1TerminatingBHInformation-List NonF1TerminatingBHInformation-List,

bAPControlPDURLCCH-List BAPControlPDURLCCH-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Non-F1-TerminatingTopologyBHInformation-ExtIEs} } OPTIONAL,

...

}

Non-F1-TerminatingTopologyBHInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NonF1TerminatingBHInformation-List ::= SEQUENCE (SIZE(1..maxnoofBHInfo)) OF NonF1TerminatingBHInformation-Item

NonF1TerminatingBHInformation-Item ::= SEQUENCE {

bHInfoIndex BHInfoIndex,

dlNon-F1TerminatingBHInfo DLNonF1Terminating-BHInfo OPTIONAL,

ulNon-F1TerminatingBHInfo ULNonF1Terminating-BHInfo OPTIONAL,

iE-Extension ProtocolExtensionContainer { { NonF1TerminatingBHInformation-Item-ExtIEs} } OPTIONAL,

...

}

NonF1TerminatingBHInformation-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NonUPTraffic ::= CHOICE {

nonUPTrafficType NonUPTrafficType,

controlPlaneTrafficType ControlPlaneTrafficType,

choice-extension ProtocolIE-Single-Container { { NonUPTraffic-ExtIEs} }

}

NonUPTraffic-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NonUPTrafficType ::= ENUMERATED {ueassociatedf1ap, nonueassociatedf1ap, nonf1, ...}

NoPDUSessionIndication ::= ENUMERATED {true, ...}

NPN-Broadcast-Information ::= CHOICE {

snpn-Information NPN-Broadcast-Information-SNPN,

pni-npn-Information NPN-Broadcast-Information-PNI-NPN,

choice-extension ProtocolIE-Single-Container { {NPN-Broadcast-Information-ExtIEs} }

}

NPN-Broadcast-Information-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NPN-Broadcast-Information-SNPN ::= SEQUENCE {

broadcastSNPNID-List BroadcastSNPNID-List,

iE-Extension ProtocolExtensionContainer { {NPN-Broadcast-Information-SNPN-ExtIEs} } OPTIONAL,

...

}

NPN-Broadcast-Information-SNPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPN-Broadcast-Information-PNI-NPN ::= SEQUENCE {

broadcastPNI-NPN-ID-Information BroadcastPNI-NPN-ID-Information,

iE-Extension ProtocolExtensionContainer { {NPN-Broadcast-Information-PNI-NPN-ExtIEs} } OPTIONAL,

...

}

NPN-Broadcast-Information-PNI-NPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPNMobilityInformation::= CHOICE {

snpn-mobility-information NPNMobilityInformation-SNPN,

pni-npn-mobility-information NPNMobilityInformation-PNI-NPN,

choice-extension ProtocolIE-Single-Container { {NPNMobilityInformation-ExtIEs} }

}

NPNMobilityInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NPNMobilityInformation-SNPN ::= SEQUENCE {

serving-NID NID,

iE-Extension ProtocolExtensionContainer { {NPNMobilityInformation-SNPN-ExtIEs} } OPTIONAL,

...

}

NPNMobilityInformation-SNPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-EquivalentSNPNs CRITICALITY reject EXTENSION EquivalentSNPNs PRESENCE optional},

...

}

NPNMobilityInformation-PNI-NPN ::= SEQUENCE {

allowedPNI-NPN-ID-List AllowedPNI-NPN-ID-List,

iE-Extension ProtocolExtensionContainer { {NPNMobilityInformation-PNI-NPN-ExtIEs} } OPTIONAL,

...

}

NPNMobilityInformation-PNI-NPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPNPagingAssistanceInformation ::= CHOICE {

pni-npn-Information NPNPagingAssistanceInformation-PNI-NPN,

choice-extension ProtocolIE-Single-Container { {NPNPagingAssistanceInformation-ExtIEs} }

}

NPNPagingAssistanceInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NPNPagingAssistanceInformation-PNI-NPN ::= SEQUENCE {

allowedPNI-NPN-ID-List AllowedPNI-NPN-ID-List,

iE-Extension ProtocolExtensionContainer { {NPNPagingAssistanceInformation-PNI-NPN-ExtIEs} } OPTIONAL,

...

}

NPNPagingAssistanceInformation-PNI-NPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPN-Support ::= CHOICE {

sNPN NPN-Support-SNPN,

choice-Extensions ProtocolIE-Single-Container { {NPN-Support-ExtIEs} }

}

NPN-Support-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NPN-Support-SNPN ::= SEQUENCE {

nid NID,

ie-Extension ProtocolExtensionContainer { {NPN-Support-SNPN-ExtIEs} } OPTIONAL,

...

}

NPN-Support-SNPN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPRACHConfiguration::= SEQUENCE {

fdd-or-tdd CHOICE {

fdd NPRACHConfiguration-FDD,

tdd NPRACHConfiguration-TDD,

choice-extension ProtocolIE-Single-Container { { FDD-or-TDD-in-NPRACHConfiguration-Choice-ExtIEs} }

},

iE-Extensions ProtocolExtensionContainer { { NPRACHConfiguration-ExtIEs} } OPTIONAL,

...

}

NPRACHConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

FDD-or-TDD-in-NPRACHConfiguration-Choice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NPRACHConfiguration-FDD::= SEQUENCE {

nprach-CP-length NPRACH-CP-Length,

anchorCarrier-NPRACHConfig OCTET STRING,

anchorCarrier-EDT-NPRACHConfig OCTET STRING OPTIONAL,

anchorCarrier-Format2-NPRACHConfig OCTET STRING OPTIONAL,

anchorCarrier-Format2-EDT-NPRACHConfig OCTET STRING OPTIONAL,

non-anchorCarrier-NPRACHConfig OCTET STRING OPTIONAL,

non-anchorCarrier-Format2-NPRACHConfig OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NPRACHConfiguration-FDD-ExtIEs} } OPTIONAL,

...

}

NPRACHConfiguration-FDD-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPRACHConfiguration-TDD::= SEQUENCE {

nprach-preambleFormat NPRACH-preambleFormat,

anchorCarrier-NPRACHConfigTDD OCTET STRING,

non-anchorCarrierFequencyConfiglist Non-AnchorCarrierFrequencylist OPTIONAL,

non-anchorCarrier-NPRACHConfigTDD OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NPRACHConfiguration-TDD-ExtIEs} } OPTIONAL,

...

}

NPRACHConfiguration-TDD-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NPRACH-CP-Length::= ENUMERATED {

us66dot7,

us266dot7,

...

}

NPRACH-preambleFormat::= ENUMERATED {fmt0,fmt1,fmt2,fmt0a,fmt1a,...}

Non-AnchorCarrierFrequencylist ::= SEQUENCE (SIZE(1..maxnoofNonAnchorCarrierFreqConfig)) OF

SEQUENCE {

non-anchorCarrierFrquency OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { Non-AnchorCarrierFrequencylist-ExtIEs} } OPTIONAL,

...

}

Non-AnchorCarrierFrequencylist-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NR-Cell-Identity ::= BIT STRING (SIZE (36))

NG-RAN-Cell-Identity-ListinRANPagingArea ::= SEQUENCE (SIZE (1..maxnoofCellsinRNA)) OF NG-RAN-Cell-Identity

NR-CGI ::= SEQUENCE {

plmn-id PLMN-Identity,

nr-CI NR-Cell-Identity,

iE-Extension ProtocolExtensionContainer { {NR-CGI-ExtIEs} } OPTIONAL,

...

}

NR-CGI-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NR-U-Channel-List ::= SEQUENCE (SIZE (1..maxnoofNR-UChannelIDs)) OF NR-U-Channel-Item

NR-U-Channel-Item ::= SEQUENCE {

nR-U-ChannelID NR-U-ChannelID,

channelOccupancyTimePercentageDL ChannelOccupancyTimePercentage,

energyDetectionThresholdDL EnergyDetectionThreshold,

iE-Extension ProtocolExtensionContainer { {NR-U-Channel-Item-ExtIEs} } OPTIONAL,

...

}

NR-U-Channel-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ChannelOccupancyTimePercentageUL CRITICALITY ignore EXTENSION ChannelOccupancyTimePercentage PRESENCE optional}|

{ ID id-EnergyDetectionThresholdUL CRITICALITY ignore EXTENSION EnergyDetectionThreshold PRESENCE optional}|

{ ID id-RadioResourceStatusNR-U CRITICALITY ignore EXTENSION RadioResourceStatusNR-U PRESENCE optional},

...

}

NR-U-ChannelID ::= INTEGER (1..maxnoofNR-UChannelIDs, ...)

ChannelOccupancyTimePercentage ::= INTEGER (0..100,...)

EnergyDetectionThreshold ::= INTEGER (-100..-50, ...)

NR-U-ChannelInfo-List ::= SEQUENCE (SIZE (1..maxnoofNR-UChannelIDs)) OF NR-U-ChannelInfo-Item

NR-U-ChannelInfo-Item ::= SEQUENCE {

nR-U-ChannelID NR-U-ChannelID,

nRARFCN NRARFCN,

bandwidth Bandwidth,

iE-Extension ProtocolExtensionContainer { {NR-U-ChannelInfo-Item-ExtIEs} } OPTIONAL,

...

}

NR-U-ChannelInfo-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Bandwidth ::= ENUMERATED{mhz10, mhz20, mhz40, mhz60, mhz80, ...,mhz100}

NRA2XServicesAuthorized ::= SEQUENCE {

aerialUE AerialUE OPTIONAL,

aerialControllerUE AerialControllerUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NRA2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

NRA2XServicesAuthorized-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRCyclicPrefix ::= ENUMERATED {normal, extended, ...}

NRDL-ULTransmissionPeriodicity ::= ENUMERATED {ms0p5, ms0p625, ms1, ms1p25, ms2, ms2p5, ms3, ms4, ms5, ms10, ms20, ms40, ms60, ms80, ms100, ms120, ms140, ms160, ...}

NRFrequencyBand ::= INTEGER (1..1024, ...)

NRFrequencyBand-List ::= SEQUENCE (SIZE(1..maxnoofNRCellBands)) OF NRFrequencyBandItem

NRFrequencyBandItem ::= SEQUENCE {

nr-frequency-band NRFrequencyBand,

supported-SUL-Band-List SupportedSULBandList OPTIONAL,

iE-Extension ProtocolExtensionContainer { {NRFrequencyBandItem-ExtIEs} } OPTIONAL,

...

}

NRFrequencyBandItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRFrequencyInfo ::= SEQUENCE {

nrARFCN NRARFCN,

sul-information SUL-Information OPTIONAL,

frequencyBand-List NRFrequencyBand-List,

iE-Extension ProtocolExtensionContainer { {NRFrequencyInfo-ExtIEs} } OPTIONAL,

...

}

NRFrequencyInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-FrequencyShift7p5khz CRITICALITY ignore EXTENSION FrequencyShift7p5khz PRESENCE optional },...

}

NRMobilityHistoryReport ::= OCTET STRING

NRModeInfo ::= CHOICE {

fdd NRModeInfoFDD,

tdd NRModeInfoTDD,

choice-extension ProtocolIE-Single-Container { {NRModeInfo-ExtIEs} }

}

NRModeInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

NRModeInfoFDD ::= SEQUENCE {

ulNRFrequencyInfo NRFrequencyInfo,

dlNRFrequencyInfo NRFrequencyInfo,

ulNRTransmissonBandwidth NRTransmissionBandwidth,

dlNRTransmissonBandwidth NRTransmissionBandwidth,

iE-Extension ProtocolExtensionContainer { {NRModeInfoFDD-ExtIEs} } OPTIONAL,

...

}

NRModeInfoFDD-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ULCarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

{ ID id-DLCarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

{ ID id-UL-GNB-DU-Cell-Resource-Configuration CRITICALITY ignore EXTENSION GNB-DU-Cell-Resource-Configuration PRESENCE optional }|

{ ID id-DL-GNB-DU-Cell-Resource-Configuration CRITICALITY ignore EXTENSION GNB-DU-Cell-Resource-Configuration PRESENCE optional },

...

}

NRModeInfoTDD ::= SEQUENCE {

nrFrequencyInfo NRFrequencyInfo,

nrTransmissonBandwidth NRTransmissionBandwidth,

iE-Extension ProtocolExtensionContainer { {NRModeInfoTDD-ExtIEs} } OPTIONAL,

...

}

NRModeInfoTDD-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-IntendedTDD-DL-ULConfiguration-NR CRITICALITY ignore EXTENSION IntendedTDD-DL-ULConfiguration-NR PRESENCE optional }|

{ ID id-TDDULDLConfigurationCommonNR CRITICALITY ignore EXTENSION TDDULDLConfigurationCommonNR PRESENCE optional }|

{ ID id-CarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

{ ID id-tdd-GNB-DU-Cell-Resource-Configuration CRITICALITY ignore EXTENSION GNB-DU-Cell-Resource-Configuration PRESENCE optional }|

{ ID id-Transmission-Bandwidth-asymmetric CRITICALITY ignore EXTENSION Transmission-Bandwidth-asymmetric PRESENCE optional }|

{ ID id-SBFD-Frequency-Configuration CRITICALITY ignore EXTENSION SBFD-Frequency-Configuration PRESENCE optional },

...

}

NRNRB ::= ENUMERATED { nrb11, nrb18, nrb24, nrb25, nrb31, nrb32, nrb38, nrb51, nrb52, nrb65, nrb66, nrb78, nrb79, nrb93, nrb106, nrb107, nrb121, nrb132, nrb133, nrb135, nrb160, nrb162, nrb189, nrb216, nrb217, nrb245, nrb264, nrb270, nrb273, ..., nrb33, nrb62, nrb124, nrb148, nrb248, nrb44, nrb58, nrb92, nrb119, nrb188, nrb242, nrb15}

NRPagingeDRXInformation ::= SEQUENCE {

nRPaging-eDRX-Cycle NRPaging-eDRX-Cycle,

nRPaging-Time-Window NRPaging-Time-Window OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NRPagingeDRXInformation-ExtIEs} } OPTIONAL,

...

}

NRPagingeDRXInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRPaging-eDRX-Cycle ::= ENUMERATED {

hfquarter, hfhalf, hf1, hf2, hf4,

hf8, hf16,

hf32, hf64, hf128, hf256,

hf512, hf1024,

...

}

NRPaging-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

}

NRPagingeDRXInformationforRRCINACTIVE ::= SEQUENCE {

nRPaging-eDRX-Cycle-Inactive NRPaging-eDRX-Cycle-Inactive,

iE-Extensions ProtocolExtensionContainer { { NRPagingeDRXInformationforRRCINACTIVE-ExtIEs} } OPTIONAL,

...

}

NRPagingeDRXInformationforRRCINACTIVE-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRPaging-eDRX-Cycle-Inactive ::= ENUMERATED {

hfquarter, hfhalf, hf1,

...

}

NRPagingLongeDRXInformationforRRCINACTIVE ::= SEQUENCE {

nRPaging-long-eDRX-Cycle-Inactive NRPaging-long-eDRX-Cycle-Inactive,

nRPaging-Time-Window-Inactive NRPaging-Time-Window-Inactive,

iE-Extensions ProtocolExtensionContainer { {NRPagingLongeDRXInformationforRRCINACTIVE-ExtIEs} } OPTIONAL,

...

}

NRPagingLongeDRXInformationforRRCINACTIVE-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRPaging-long-eDRX-Cycle-Inactive ::= ENUMERATED {

hf2, hf4, hf8, hf16,

hf32, hf64, hf128, hf256,

hf512, hf1024,

...

}

NRPaging-Time-Window-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, ...

}

NRPCI ::= INTEGER (0..1007, ...)

NRSCS ::= ENUMERATED { scs15, scs30, scs60, scs120, ..., scs480, scs960}

NRTransmissionBandwidth ::= SEQUENCE {

nRSCS NRSCS,

nRNRB NRNRB,

iE-Extensions ProtocolExtensionContainer { {NRTransmissionBandwidth-ExtIEs} } OPTIONAL,

...

}

NRPPaPositioningInformation ::= SEQUENCE {

routingID RoutingID,

nRPPaTransactionID INTEGER (0..32767),

iE-Extension ProtocolExtensionContainer { { NRPPaPositioningInformation-ExtIEs} } OPTIONAL,

...

}

NRPPaPositioningInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRTransmissionBandwidth-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Transmission-Bandwidth-asymmetric ::= SEQUENCE {

ul-Transmission-Bandwidth NRTransmissionBandwidth,

dl-Transmission-Bandwidth NRTransmissionBandwidth,

iE-Extensions ProtocolExtensionContainer { { Transmission-Bandwidth-asymmetric-ExtIEs} } OPTIONAL,

...

}

Transmission-Bandwidth-asymmetric-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NumberOfAntennaPorts-E-UTRA ::= ENUMERATED {an1, an2, an4, ...}

NG-RANTraceID ::=OCTET STRING (SIZE (8))

NonGBRResources-Offered ::= ENUMERATED {true, ...}

NRV2XServicesAuthorized ::= SEQUENCE {

vehicleUE VehicleUE OPTIONAL,

pedestrianUE PedestrianUE OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {NRV2XServicesAuthorized-ExtIEs} } OPTIONAL,

...

}

NRV2XServicesAuthorized-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NRUESidelinkAggregateMaximumBitRate ::= SEQUENCE {

uESidelinkAggregateMaximumBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { {NRUESidelinkAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

NRUESidelinkAggregateMaximumBitRate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NSAG-ID ::= INTEGER (0..255, ...)

NZP-CSI-RS-Resources-Config ::= SEQUENCE {

nZP-CSI-RS-ResourceSet OCTET STRING,

nZP-CSI-RS-Resource-List NZP-CSI-RS-Resource-List,

iE-Extensions ProtocolExtensionContainer { {NZP-CSI-RS-Resources-Config-ExtIEs} } OPTIONAL,

...

}

NZP-CSI-RS-Resources-Config-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NZP-CSI-RS-Resource-List ::= SEQUENCE (SIZE(1..maxnoofNZP-CSI-RS-ResourcesPerSet)) OF NZP-CSI-RS-Resource-Item

NZP-CSI-RS-Resource-Item ::= SEQUENCE {

nZP-CSI-RS-Resource OCTET STRING,

iE-Extensions ProtocolExtensionContainer { {NZP-CSI-RS-Resource-Item-ExtIEs} } OPTIONAL,

...

}

NZP-CSI-RS-Resource-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- O

OfferedCapacity ::= INTEGER (1.. 16777216,...)

OffsetOfNbiotChannelNumberToEARFCN ::= ENUMERATED {

minusTen,

minusNine,

minusEightDotFive,

minusEight,

minusSeven,

minusSix,

minusFive,

minusFourDotFive,

minusFour,

minusThree,

minusTwo,

minusOne,

minusZeroDotFive,

zero,

one,

two,

three,

threeDotFive,

four,

five,

six,

seven,

sevenDotFive,

eight,

nine,

...

}

-- P

PositioningInformation ::= SEQUENCE {

requestedSRSTransmissionCharacteristics RequestedSRSTransmissionCharacteristics,

routingID RoutingID,

nRPPaTransactionID INTEGER (0..32767),

iE-Extension ProtocolExtensionContainer { { PositioningInformation-ExtIEs} } OPTIONAL,

...

}

PositioningInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PacketDelayBudget ::= INTEGER (0..1023, ...)

PacketErrorRate ::= SEQUENCE {

pER-Scalar PER-Scalar,

pER-Exponent PER-Exponent,

iE-Extensions ProtocolExtensionContainer { {PacketErrorRate-ExtIEs} } OPTIONAL,

...

}

PacketErrorRate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PagingCause ::= ENUMERATED {

voice,

...

}

PedestrianUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

PER-Scalar ::= INTEGER (0..9, ...)

PER-Exponent ::= INTEGER (0..9, ...)

PEIPSassistanceInformation ::= SEQUENCE {

cNsubgroupID CNsubgroupID,

iE-Extensions ProtocolExtensionContainer { {PEIPSassistanceInformation-ExtIEs} } OPTIONAL,

...

}

PEIPSassistanceInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PacketLossRate ::= INTEGER (0..1000, ...)

PagingDRX ::= ENUMERATED {

v32,

v64,

v128,

v256,

... ,

v512,

v1024

}

PagingPriority ::= ENUMERATED {

priolevel1,

priolevel2,

priolevel3,

priolevel4,

priolevel5,

priolevel6,

priolevel7,

priolevel8,

...

}

PartialListIndicator ::= ENUMERATED {partial, ...}

PC5QoSParameters ::= SEQUENCE {

pc5QoSFlowList PC5QoSFlowList,

pc5LinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PC5QoSParameters-ExtIEs} } OPTIONAL,

...

}

PC5QoSParameters-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PC5QoSFlowList ::= SEQUENCE (SIZE(1..maxnoofPC5QoSFlows)) OF PC5QoSFlowItem

-- The size of the PC5 QoS Flow List shall not exceed 2048 items.

PC5QoSFlowItem::= SEQUENCE {

pQI FiveQI,

pc5FlowBitRates PC5FlowBitRates OPTIONAL,

range Range OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PC5QoSFlowItem-ExtIEs} } OPTIONAL,

...

}

PC5QoSFlowItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PC5FlowBitRates ::= SEQUENCE {

guaranteedFlowBitRate BitRate,

maximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { PC5FlowBitRates-ExtIEs} } OPTIONAL,

...

}

PC5FlowBitRates-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDCPChangeIndication ::= CHOICE {

from-S-NG-RAN-node ENUMERATED {s-ng-ran-node-key-update-required, pdcp-data-recovery-required, ...},

from-M-NG-RAN-node ENUMERATED {pdcp-data-recovery-required, ...},

choice-extension ProtocolIE-Single-Container { {PDCPChangeIndication-ExtIEs} }

}

PDCPChangeIndication-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

PDCPDuplicationConfiguration ::= ENUMERATED {

configured,

de-configured,

...

}

PDCPSNLength ::= SEQUENCE {

ulPDCPSNLength ENUMERATED {v12bits, v18bits, ...},

dlPDCPSNLength ENUMERATED {v12bits, v18bits, ...},

iE-Extension ProtocolExtensionContainer { {PDCPSNLength-ExtIEs} } OPTIONAL,

...

}

PDCPSNLength-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSetQoSParameters ::= SEQUENCE {

ulPDUSetQoSInformation PDUSetQoSInformation OPTIONAL,

dlPDUSetQoSInformation PDUSetQoSInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PDUSetQoSParameters-ExtIEs } } OPTIONAL

}

PDUSetQoSParameters-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSetQoSInformation ::= SEQUENCE {

pduSetDelayBudget ExtendedPacketDelayBudget OPTIONAL,

pduSetErrorRate PacketErrorRate OPTIONAL,

pduSetIntegratedHandlingInformation ENUMERATED {true, false, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PDUSetQoSInformation-ExtIEs } } OPTIONAL

}

PDUSetQoSInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSetbasedHandlingIndicator ::= ENUMERATED {

supported,

...

}

PDUSessionAggregateMaximumBitRate ::= SEQUENCE {

downlink-session-AMBR BitRate,

uplink-session-AMBR BitRate,

iE-Extensions ProtocolExtensionContainer { {PDUSessionAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

PDUSessionAggregateMaximumBitRate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSession-List ::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF PDUSession-ID

PDUSession-List-withCause ::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF PDUSession-List-withCause-Item

PDUSession-List-withCause-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

cause Cause OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSession-List-withCause-Item-ExtIEs} } OPTIONAL,

...

}

PDUSession-List-withCause-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSession-List-withDataForwardingFromTarget ::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF

PDUSession-List-withDataForwardingFromTarget-Item

PDUSession-List-withDataForwardingFromTarget-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

dataforwardinginfoTarget DataForwardingInfoFromTargetNGRANnode,

iE-Extension ProtocolExtensionContainer { {PDUSession-List-withDataForwardingFromTarget-Item-ExtIEs} } OPTIONAL,

...

}

PDUSession-List-withDataForwardingFromTarget-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional},

...

}

PDUSession-List-withDataForwardingRequest ::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF

PDUSession-List-withDataForwardingRequest-Item

PDUSession-List-withDataForwardingRequest-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

dataforwardingInfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

dRBtoBeReleasedList DRBToQoSFlowMapping-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSession-List-withDataForwardingRequest-Item-ExtIEs} } OPTIONAL,

...

}

PDUSession-List-withDataForwardingRequest-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-Cause CRITICALITY ignore EXTENSION Cause PRESENCE optional},

...

}

PDUSessionsListToBeReleased-UPError ::= SEQUENCE (SIZE (1.. maxnoofPDUSessions)) OF PDUSessionsListToBeReleased-UPError-Item

PDUSessionsListToBeReleased-UPError-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

userPlaneErrorIndicator UserPlaneErrorIndicator,

iE-Extension ProtocolExtensionContainer { {PDUSessionsListToBeReleased-UPError-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionsListToBeReleased-UPError-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- PDU Session related message level IEs BEGIN

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- PDU Session Resources Admitted List

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourcesAdmitted-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourcesAdmitted-Item

PDUSessionResourcesAdmitted-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

pduSessionResourceAdmittedInfo PDUSessionResourceAdmittedInfo,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourcesAdmitted-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourcesAdmitted-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionResourceAdmittedInfo ::= SEQUENCE {

dL-NG-U-TNL-Information-Unchanged ENUMERATED {true, ...} OPTIONAL,

qosFlowsAdmitted-List QoSFlowsAdmitted-List,

qosFlowsNotAdmitted-List QoSFlows-List-withCause OPTIONAL,

dataForwardingInfoFromTarget DataForwardingInfoFromTargetNGRANnode OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceAdmittedInfo-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceAdmittedInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecondarydataForwardingInfoFromTarget-List CRITICALITY ignore EXTENSION SecondarydataForwardingInfoFromTarget-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resources Not Admitted List

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourcesNotAdmitted-List ::= SEQUENCE (SIZE (1..maxnoofPDUSessions)) OF PDUSessionResourcesNotAdmitted-Item

PDUSessionResourcesNotAdmitted-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

cause Cause OPTIONAL,

iE-Extension ProtocolExtensionContainer { {PDUSessionResourcesNotAdmitted-Item-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourcesNotAdmitted-Item-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resources To Be Setup List

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourcesToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourcesToBeSetup-Item

PDUSessionResourcesToBeSetup-Item ::= SEQUENCE {

pduSessionId PDUSession-ID,

s-NSSAI S-NSSAI,

pduSessionAMBR PDUSessionAggregateMaximumBitRate OPTIONAL,

uL-NG-U-TNLatUPF UPTransportLayerInformation,

source-DL-NG-U-TNL-Information UPTransportLayerInformation OPTIONAL,

securityIndication SecurityIndication OPTIONAL,

pduSessionType PDUSessionType,

pduSessionNetworkInstance PDUSessionNetworkInstance OPTIONAL,

qosFlowsToBeSetup-List QoSFlowsToBeSetup-List,

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourcesToBeSetup-Item-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourcesToBeSetup-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-UL-NG-U-TNLatUPF-List CRITICALITY ignore EXTENSION Additional-UL-NG-U-TNLatUPF-List PRESENCE optional}|

{ ID id-PDUSessionCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ ID id-Redundant-UL-NG-U-TNLatUPF CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional}|

{ ID id-Additional-Redundant-UL-NG-U-TNLatUPF-List CRITICALITY ignore EXTENSION Additional-UL-NG-U-TNLatUPF-List PRESENCE optional}|

{ ID id-RedundantCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ ID id-RedundantPDUSessionInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional}|

{ ID id-MBS-SessionAssociatedInformation CRITICALITY ignore EXTENSION MBS-SessionAssociatedInformation PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Setup Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceSetupInfo-SNterminated ::= SEQUENCE {

uL-NG-U-TNLatUPF UPTransportLayerInformation,

pduSessionType PDUSessionType,

pduSessionNetworkInstance PDUSessionNetworkInstance OPTIONAL,

qosFlowsToBeSetup-List QoSFlowsToBeSetup-List-Setup-SNterminated,

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

securityIndication SecurityIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SecurityResult CRITICALITY reject EXTENSION SecurityResult PRESENCE optional}|

{ ID id-PDUSessionCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ ID id-DefaultDRB-Allowed CRITICALITY ignore EXTENSION DefaultDRB-Allowed PRESENCE optional}|

{ ID id-SplitSessionIndicator CRITICALITY reject EXTENSION SplitSessionIndicator PRESENCE optional}|

{ ID id-NonGBRResources-Offered CRITICALITY ignore EXTENSION NonGBRResources-Offered PRESENCE optional}|

{ ID id-Redundant-UL-NG-U-TNLatUPF CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional}|

{ ID id-RedundantCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ ID id-RedundantPDUSessionInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional},

...

}

QoSFlowsToBeSetup-List-Setup-SNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsToBeSetup-List-Setup-SNterminated-Item

QoSFlowsToBeSetup-List-Setup-SNterminated-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

qosFlowLevelQoSParameters QoSFlowLevelQoSParameters,

offeredGBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsToBeSetup-List-Setup-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsToBeSetup-List-Setup-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-TSCTrafficCharacteristics CRITICALITY ignore EXTENSION TSCTrafficCharacteristics PRESENCE optional}|

{ ID id-RedundantQoSFlowIndicator CRITICALITY ignore EXTENSION RedundantQoSFlowIndicator PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Setup Response Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceSetupResponseInfo-SNterminated ::= SEQUENCE {

dL-NG-U-TNLatNG-RAN UPTransportLayerInformation,

dRBsToBeSetup DRBsToBeSetupList-SetupResponse-SNterminated OPTIONAL,

dataforwardinginfoTarget DataForwardingInfoFromTargetNGRANnode OPTIONAL,

qosFlowsNotAdmittedList QoSFlows-List-withCause OPTIONAL,

securityResult SecurityResult OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupResponseInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupResponseInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional}|

{ ID id-Redundant-DL-NG-U-TNLatNG-RAN CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional}|

{ ID id-UsedRSNInformation CRITICALITY ignore EXTENSION RedundantPDUSessionInformation PRESENCE optional}|

{ ID id-S-CPAC-dataforwardinginfofromSource CRITICALITY ignore EXTENSION DataforwardingandOffloadingInfofromSource PRESENCE optional},

...

}

DRBsToBeSetupList-SetupResponse-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeSetupList-SetupResponse-SNterminated-Item

DRBsToBeSetupList-SetupResponse-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-UL-PDCP-UP-TNLInfo UPTransportParameters,

dRB-QoS QoSFlowLevelQoSParameters,

pDCP-SNLength PDCPSNLength OPTIONAL,

rLC-Mode RLCMode,

uL-Configuration ULConfiguration OPTIONAL,

secondary-SN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

qoSFlowsMappedtoDRB-SetupResponse-SNterminated QoSFlowsMappedtoDRB-SetupResponse-SNterminated,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeSetupList-SetupResponse-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeSetupList-SetupResponse-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional},

...

}

QoSFlowsMappedtoDRB-SetupResponse-SNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF

QoSFlowsMappedtoDRB-SetupResponse-SNterminated-Item

QoSFlowsMappedtoDRB-SetupResponse-SNterminated-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

mCGRequestedGBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

qosFlowMappingIndication QoSFlowMappingIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsMappedtoDRB-SetupResponse-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsMappedtoDRB-SetupResponse-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetIndex PRESENCE optional }|

{ ID id-SourceDLForwardingIPAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Setup Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceSetupInfo-MNterminated ::= SEQUENCE {

pduSessionType PDUSessionType,

dRBsToBeSetup DRBsToBeSetupList-Setup-MNterminated,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToBeSetupList-Setup-MNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeSetupList-Setup-MNterminated-Item

DRBsToBeSetupList-Setup-MNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

mN-UL-PDCP-UP-TNLInfo UPTransportParameters,

rLC-Mode RLCMode,

uL-Configuration ULConfiguration OPTIONAL,

dRB-QoS QoSFlowLevelQoSParameters,

pDCP-SNLength PDCPSNLength OPTIONAL,

secondary-MN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

qoSFlowsMappedtoDRB-Setup-MNterminated QoSFlowsMappedtoDRB-Setup-MNterminated,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeSetupList-Setup-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeSetupList-Setup-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional},

...

}

QoSFlowsMappedtoDRB-Setup-MNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsMappedtoDRB-Setup-MNterminated-Item

QoSFlowsMappedtoDRB-Setup-MNterminated-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

qoSFlowLevelQoSParameters QoSFlowLevelQoSParameters,

qosFlowMappingIndication QoSFlowMappingIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsMappedtoDRB-Setup-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsMappedtoDRB-Setup-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-TSCTrafficCharacteristics CRITICALITY ignore EXTENSION TSCTrafficCharacteristics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Setup Response Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceSetupResponseInfo-MNterminated ::= SEQUENCE {

dRBsAdmittedList DRBsAdmittedList-SetupResponse-MNterminated,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSetupResponseInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSetupResponseInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-DRBsNotAdmittedSetupModifyList CRITICALITY ignore EXTENSION DRB-List-withCause PRESENCE optional},

...

}

DRBsAdmittedList-SetupResponse-MNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsAdmittedList-SetupResponse-MNterminated-Item

DRBsAdmittedList-SetupResponse-MNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-DL-SCG-UP-TNLInfo UPTransportParameters,

secondary-SN-DL-SCG-UP-TNLInfo UPTransportParameters OPTIONAL,

lCID LCID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsAdmittedList-SetupResponse-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsAdmittedList-SetupResponse-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-QoSFlowsMappedtoDRB-SetupResponse-MNterminated CRITICALITY ignore EXTENSION QoSFlowsMappedtoDRB-SetupResponse-MNterminated PRESENCE optional},

...

}

QoSFlowsMappedtoDRB-SetupResponse-MNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsMappedtoDRB-SetupResponse-MNterminated-Item

QoSFlowsMappedtoDRB-SetupResponse-MNterminated-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

currentQoSParaSetIndex QoSParaSetIndex,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsMappedtoDRB-SetupResponse-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsMappedtoDRB-SetupResponse-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModificationInfo-SNterminated ::= SEQUENCE {

uL-NG-U-TNLatUPF UPTransportLayerInformation OPTIONAL,

pduSessionNetworkInstance PDUSessionNetworkInstance OPTIONAL,

qosFlowsToBeSetup-List QoSFlowsToBeSetup-List-Setup-SNterminated OPTIONAL,

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

qosFlowsToBeModified-List QoSFlowsToBeSetup-List-Modified-SNterminated OPTIONAL,

qoSFlowsToBeReleased-List QoSFlows-List-withCause OPTIONAL,

drbsToBeModifiedList DRBsToBeModified-List-Modified-SNterminated OPTIONAL,

dRBsToBeReleased DRB-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModificationInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModificationInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-PDUSessionCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ID id-DefaultDRB-Allowed CRITICALITY ignore EXTENSION DefaultDRB-Allowed PRESENCE optional}|

{ID id-NonGBRResources-Offered CRITICALITY ignore EXTENSION NonGBRResources-Offered PRESENCE optional}|

{ID id-Redundant-UL-NG-U-TNLatUPF CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional}|

{ID id-RedundantCommonNetworkInstance CRITICALITY ignore EXTENSION PDUSessionCommonNetworkInstance PRESENCE optional}|

{ID id-SecurityIndication CRITICALITY ignore EXTENSION SecurityIndication PRESENCE optional},

...

}

QoSFlowsToBeSetup-List-Modified-SNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF QoSFlowsToBeSetup-List-Modified-SNterminated-Item

QoSFlowsToBeSetup-List-Modified-SNterminated-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

qosFlowLevelQoSParameters QoSFlowLevelQoSParameters OPTIONAL,

offeredGBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

qosFlowMappingIndication QoSFlowMappingIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsToBeSetup-List-Modified-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsToBeSetup-List-Modified-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-TSCTrafficCharacteristics CRITICALITY ignore EXTENSION TSCTrafficCharacteristics PRESENCE optional}|

{ ID id-RedundantQoSFlowIndicator CRITICALITY ignore EXTENSION RedundantQoSFlowIndicator PRESENCE optional},

...

}

DRBsToBeModified-List-Modified-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeModified-List-Modified-SNterminated-Item

DRBsToBeModified-List-Modified-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

mN-DL-SCG-UP-TNLInfo UPTransportParameters OPTIONAL,

secondary-MN-DL-SCG-UP-TNLInfo UPTransportParameters OPTIONAL,

lCID LCID OPTIONAL,

rlc-status RLC-Status OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeModified-List-Modified-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeModified-List-Modified-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Response Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModificationResponseInfo-SNterminated ::= SEQUENCE {

dL-NG-U-TNLatNG-RAN UPTransportLayerInformation OPTIONAL,

dRBsToBeSetup DRBsToBeSetupList-SetupResponse-SNterminated OPTIONAL,

dataforwardinginfoTarget DataForwardingInfoFromTargetNGRANnode OPTIONAL,

dRBsToBeModified DRBsToBeModifiedList-ModificationResponse-SNterminated OPTIONAL,

dRBsToBeReleased DRB-List-withCause OPTIONAL,

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

qosFlowsNotAdmittedTBAdded QoSFlows-List-withCause OPTIONAL,

qosFlowsReleased QoSFlows-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModificationResponseInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModificationResponseInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional}|

{ ID id-Redundant-DL-NG-U-TNLatNG-RAN CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional}|

{ ID id-SecurityResult CRITICALITY ignore EXTENSION SecurityResult PRESENCE optional},

...

}

DRBsToBeModifiedList-ModificationResponse-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF

DRBsToBeModifiedList-ModificationResponse-SNterminated-Item

DRBsToBeModifiedList-ModificationResponse-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

dRB-QoS QoSFlowLevelQoSParameters OPTIONAL,

qoSFlowsMappedtoDRB-SetupResponse-SNterminated QoSFlowsMappedtoDRB-SetupResponse-SNterminated OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeModifiedList-ModificationResponse-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeModifiedList-ModificationResponse-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional}|

{ ID id-secondary-SN-UL-PDCP-UP-TNLInfo CRITICALITY ignore EXTENSION UPTransportParameters PRESENCE optional}|

{ ID id-pdcpDuplicationConfiguration CRITICALITY ignore EXTENSION PDCPDuplicationConfiguration PRESENCE optional}|

{ ID id-duplicationActivation CRITICALITY ignore EXTENSION DuplicationActivation PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModificationInfo-MNterminated ::= SEQUENCE {

pduSessionType PDUSessionType,

dRBsToBeSetup DRBsToBeSetupList-Setup-MNterminated OPTIONAL,

dRBsToBeModified DRBsToBeModifiedList-Modification-MNterminated OPTIONAL,

dRBsToBeReleased DRB-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModificationInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModificationInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToBeModifiedList-Modification-MNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF

DRBsToBeModifiedList-Modification-MNterminated-Item

DRBsToBeModifiedList-Modification-MNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

mN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

dRB-QoS QoSFlowLevelQoSParameters OPTIONAL,

secondary-MN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

uL-Configuration ULConfiguration OPTIONAL,

pdcpDuplicationConfiguration PDCPDuplicationConfiguration OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

qoSFlowsMappedtoDRB-Setup-MNterminated QoSFlowsMappedtoDRB-Setup-MNterminated OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeModifiedList-Modification-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeModifiedList-Modification-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Response Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModificationResponseInfo-MNterminated ::= SEQUENCE {

dRBsAdmittedList DRBsAdmittedList-ModificationResponse-MNterminated,

dRBsReleasedList DRB-List OPTIONAL,

dRBsNotAdmittedSetupModifyList DRB-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModificationResponseInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModificationResponseInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsAdmittedList-ModificationResponse-MNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsAdmittedList-ModificationResponse-MNterminated-Item

DRBsAdmittedList-ModificationResponse-MNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-DL-SCG-UP-TNLInfo UPTransportParameters OPTIONAL,

secondary-SN-DL-SCG-UP-TNLInfo UPTransportParameters OPTIONAL,

lCID LCID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsAdmittedList-ModificationResponse-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsAdmittedList-ModificationResponse-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-QoSFlowsMappedtoDRB-SetupResponse-MNterminated CRITICALITY ignore EXTENSION QoSFlowsMappedtoDRB-SetupResponse-MNterminated PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Change Required Info - SN terminated

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PDUSessionResourceChangeRequiredInfo-SNterminated ::= SEQUENCE {

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceChangeRequiredInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceChangeRequiredInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Change Confirm Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceChangeConfirmInfo-SNterminated ::= SEQUENCE {

dataforwardinginfoTarget DataForwardingInfoFromTargetNGRANnode OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceChangeConfirmInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceChangeConfirmInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Change Required Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceChangeRequiredInfo-MNterminated ::= SEQUENCE {

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceChangeRequiredInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceChangeRequiredInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Change Confirm Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceChangeConfirmInfo-MNterminated ::= SEQUENCE {

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceChangeConfirmInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceChangeConfirmInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Required Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModRqdInfo-SNterminated ::= SEQUENCE {

dL-NG-U-TNLatNG-RAN UPTransportLayerInformation OPTIONAL,

qoSFlowsToBeReleased-List QoSFlows-List-withCause OPTIONAL,

dataforwardinginfofromSource DataforwardingandOffloadingInfofromSource OPTIONAL,

drbsToBeSetupList DRBsToBeSetup-List-ModRqd-SNterminated OPTIONAL,

drbsToBeModifiedList DRBsToBeModified-List-ModRqd-SNterminated OPTIONAL,

dRBsToBeReleased DRB-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModRqdInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModRqdInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToBeSetup-List-ModRqd-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeSetup-List-ModRqd-SNterminated-Item

DRBsToBeSetup-List-ModRqd-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

pDCP-SNLength PDCPSNLength OPTIONAL,

sn-UL-PDCP-UPTNLinfo UPTransportParameters,

dRB-QoS QoSFlowLevelQoSParameters,

secondary-SN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

uL-Configuration ULConfiguration OPTIONAL,

qoSFlowsMappedtoDRB-ModRqd-SNterminated QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated,

rLC-Mode RLCMode,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeSetup-List-ModRqd-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeSetup-List-ModRqd-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional},

...

}

QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF

QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated-Item

QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

mCGRequestedGBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsSetupMappedtoDRB-ModRqd-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-QosFlowMappingIndication CRITICALITY ignore EXTENSION QoSFlowMappingIndication PRESENCE optional},

...

}

DRBsToBeModified-List-ModRqd-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeModified-List-ModRqd-SNterminated-Item

DRBsToBeModified-List-ModRqd-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

dRB-QoS QoSFlowLevelQoSParameters OPTIONAL,

secondary-SN-UL-PDCP-UP-TNLInfo UPTransportParameters OPTIONAL,

uL-Configuration ULConfiguration OPTIONAL,

pdcpDuplicationConfiguration PDCPDuplicationConfiguration OPTIONAL,

duplicationActivation DuplicationActivation OPTIONAL,

qoSFlowsMappedtoDRB-ModRqd-SNterminated QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeModified-List-ModRqd-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeModified-List-ModRqd-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional}|

{ ID id-RLCDuplicationInformation CRITICALITY ignore EXTENSION RLCDuplicationInformation PRESENCE optional},

...

}

QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated ::= SEQUENCE (SIZE(1..maxnoofQoSFlows)) OF

QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated-Item

QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated-Item ::= SEQUENCE {

qoSFlowIdentifier QoSFlowIdentifier,

mCGRequestedGBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsModifiedMappedtoDRB-ModRqd-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-QosFlowMappingIndication CRITICALITY ignore EXTENSION QoSFlowMappingIndication PRESENCE optional},

...

}

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-- PDU Session Resource Modification Confirm Info - SN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModConfirmInfo-SNterminated ::= SEQUENCE {

uL-NG-U-TNLatUPF UPTransportLayerInformation OPTIONAL,

dRBsAdmittedList DRBsAdmittedList-ModConfirm-SNterminated,

dRBsNotAdmittedSetupModifyList DRB-List-withCause OPTIONAL,

dataforwardinginfoTarget DataForwardingInfoFromTargetNGRANnode OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModConfirmInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModConfirmInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DRB-IDs-takenintouse CRITICALITY reject EXTENSION DRB-List PRESENCE optional},

...

}

DRBsAdmittedList-ModConfirm-SNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF

DRBsAdmittedList-ModConfirm-SNterminated-Item

DRBsAdmittedList-ModConfirm-SNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

mN-DL-CG-UP-TNLInfo UPTransportParameters OPTIONAL,

secondary-MN-DL-CG-UP-TNLInfo UPTransportParameters OPTIONAL,

lCID LCID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsAdmittedList-ModConfirm-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsAdmittedList-ModConfirm-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Required Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModRqdInfo-MNterminated ::= SEQUENCE {

dRBsToBeModified DRBsToBeModified-List-ModRqd-MNterminated OPTIONAL,

dRBsToBeReleased DRB-List-withCause OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModRqdInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModRqdInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToBeModified-List-ModRqd-MNterminated ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeModified-List-ModRqd-MNterminated-Item

DRBsToBeModified-List-ModRqd-MNterminated-Item ::= SEQUENCE {

drb-ID DRB-ID,

sN-DL-SCG-UP-TNLInfo UPTransportLayerInformation,

secondary-SN-DL-SCG-UP-TNLInfo UPTransportLayerInformation OPTIONAL,

lCID LCID OPTIONAL,

rlc-status RLC-Status OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeModified-List-ModRqd-MNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeModified-List-ModRqd-MNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-Additional-PDCP-Duplication-TNL-List CRITICALITY ignore EXTENSION Additional-PDCP-Duplication-TNL-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Modification Confirm Info - MN terminated

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceModConfirmInfo-MNterminated ::= SEQUENCE {

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceModConfirmInfo-MNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceModConfirmInfo-MNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session Resource Setup Complete Info - SN terminated

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PDUSessionResourceBearerSetupCompleteInfo-SNterminated ::= SEQUENCE {

dRBsToBeSetupList SEQUENCE (SIZE(1..maxnoofDRBs)) OF DRBsToBeSetupList-BearerSetupComplete-SNterminated-Item,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceBearerSetupCompleteInfo-SNterminated-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceBearerSetupCompleteInfo-SNterminated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

DRBsToBeSetupList-BearerSetupComplete-SNterminated-Item ::= SEQUENCE {

dRB-ID DRB-ID,

mN-Xn-U-TNLInfoatM UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { {DRBsToBeSetupList-BearerSetupComplete-SNterminated-Item-ExtIEs} } OPTIONAL,

...

}

DRBsToBeSetupList-BearerSetupComplete-SNterminated-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-Secondary-MN-Xn-U-TNLInfoatM CRITICALITY ignore EXTENSION UPTransportLayerInformation PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU Session related message level IEs END

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDUSessionResourceSecondaryRATUsageList ::= SEQUENCE (SIZE(1..maxnoofPDUSessions)) OF PDUSessionResourceSecondaryRATUsageItem

PDUSessionResourceSecondaryRATUsageItem ::= SEQUENCE {

pDUSessionID PDUSession-ID,

secondaryRATUsageInformation SecondaryRATUsageInformation,

iE-Extensions ProtocolExtensionContainer { {PDUSessionResourceSecondaryRATUsageItem-ExtIEs} } OPTIONAL,

...

}

PDUSessionResourceSecondaryRATUsageItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionUsageReport ::= SEQUENCE {

rATType ENUMERATED {nr, eutra, ..., nr-unlicensed, e-utra-unlicensed},

pDUSessionTimedReportList VolumeTimedReportList,

iE-Extensions ProtocolExtensionContainer { {PDUSessionUsageReport-ExtIEs} } OPTIONAL,

...

}

PDUSessionUsageReport-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PDUSessionType ::= ENUMERATED {ipv4, ipv6, ipv4v6, ethernet, unstructured, ...}

PDUSession-ID ::= INTEGER (0..255)

PDUSessionNetworkInstance ::= INTEGER (1..256, ...)

PDUSessionCommonNetworkInstance ::= OCTET STRING

PDUSession-PairID ::= INTEGER (0..255, ...)

Periodical ::= SEQUENCE {

iE-Extensions ProtocolExtensionContainer { { Periodical-ExtIEs} } OPTIONAL,

...

}

Periodical-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Permutation ::= ENUMERATED {dfu, ufd, ...}

PLMN-Identity ::= OCTET STRING (SIZE(3))

PLMNAreaBasedQMC ::= SEQUENCE {

plmnListforQMC PLMNListforQMC,

iE-Extensions ProtocolExtensionContainer { {PLMNAreaBasedQMC-ExtIEs} } OPTIONAL,

...

}

PLMNAreaBasedQMC-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PLMNListforQMC ::= SEQUENCE (SIZE(1..maxnoofPLMNforQMC)) OF PLMN-Identity

PCIListForMDT ::= SEQUENCE (SIZE(1.. maxnoofNeighPCIforMDT)) OF NRPCI

PNI-NPN-Restricted-Information ::= ENUMERATED { restriced, not-restricted, ...}

PortNumber ::= BIT STRING (SIZE (16))

PosPartialUEContextInfo ::= SEQUENCE {

requestedSRSTransmissionCharacteristics RequestedSRSTransmissionCharacteristics OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PosPartialUEContextInfo-ExtIEs} } OPTIONAL,

...

}

PosPartialUEContextInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PredictedUETrajectory-Item ::= SEQUENCE{

predictedtrajectoryCellInfo PredictedTrajectoryCellInfo,

iE-Extensions ProtocolExtensionContainer { { PredictedUETrajectory-Item-ExtIEs} } OPTIONAL,

...

}

PredictedUETrajectory-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PredictedTrajectoryCellInfo::= CHOICE {

nG-RAN-Cell-Predicted PredictedTrajectoryNGRANCellInfo,

choice-extension ProtocolIE-Single-Container { { PredictedTrajectoryCellInfo-ExtIEs} }

}

PredictedTrajectoryCellInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

PredictedTrajectoryNGRANCellInfo ::= SEQUENCE {

globalNG-RANCell-ID GlobalNG-RANCell-ID,

predictedTimeUEStaysInCell INTEGER (0..4095) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PredictedTrajectoryNGRANCellInfo-ExtIEs} } OPTIONAL,

...

}

PredictedTrajectoryNGRANCellInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PriorityLevelQoS ::= INTEGER (1..127, ...)

ProtectedE-UTRAResourceIndication ::= SEQUENCE {

activationSFN ActivationSFN,

protectedResourceList ProtectedE-UTRAResourceList,

mbsfnControlRegionLength MBSFNControlRegionLength OPTIONAL,

pDCCHRegionLength INTEGER (1..3),

iE-Extensions ProtocolExtensionContainer { {ProtectedE-UTRAResourceIndication-ExtIEs} } OPTIONAL,

...

}

ProtectedE-UTRAResourceIndication-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ProtectedE-UTRAResourceList ::= SEQUENCE (SIZE (1.. maxnoofProtectedResourcePatterns)) OF ProtectedE-UTRAResource-Item

ProtectedE-UTRAResource-Item ::= SEQUENCE {

resourceType ENUMERATED {downlinknonCRS, cRS, uplink, ...},

intra-PRBProtectedResourceFootprint BIT STRING (SIZE(84, ...)),

protectedFootprintFrequencyPattern BIT STRING (SIZE(6..110, ...)),

protectedFootprintTimePattern ProtectedE-UTRAFootprintTimePattern,

iE-Extensions ProtocolExtensionContainer { {ProtectedE-UTRAResource-Item-ExtIEs} } OPTIONAL,

...

}

ProtectedE-UTRAResource-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ProtectedE-UTRAFootprintTimePattern ::= SEQUENCE {

protectedFootprintTimeperiodicity INTEGER (1..320, ...),

protectedFootrpintStartTime INTEGER (1..20, ...),

iE-Extensions ProtocolExtensionContainer { {ProtectedE-UTRAFootprintTimePattern-ExtIEs} } OPTIONAL,

...

}

ProtectedE-UTRAFootprintTimePattern-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PrivacyIndicator ::= ENUMERATED {

immediate-MDT,

logged-MDT,

...

}

PSCellChangeHistory ::= ENUMERATED {reporting-full-history, ...}

PSCellHistoryInformationRetrieve ::= ENUMERATED {query, ...}

PSCellListContainer ::= OCTET STRING

PNI-NPN-AreaScopeofMDT ::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPN-AreaScopeofMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPN-AreaScopeofMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PNI-NPNBasedMDT::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPNBasedMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPNBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- Q

QMCConfigInfo ::= SEQUENCE {

uEAppLayerMeasInfoList UEAppLayerMeasInfoList,

iE-Extensions ProtocolExtensionContainer { {QMCConfigInfo-ExtIEs} } OPTIONAL,

...

}

QMCConfigInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEAppLayerMeasInfoList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF UEAppLayerMeasInfo-Item

UEAppLayerMeasInfo-Item ::= SEQUENCE {

uEAppLayerMeasConfigInfo UEAppLayerMeasConfigInfo,

iE-Extensions ProtocolExtensionContainer { { UEAppLayerMeasInfo-Item-ExtIEs} } OPTIONAL,

...

}

UEAppLayerMeasInfo-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QMCCoordinationRequest ::= SEQUENCE {

mN-to-SN-QMCCoordRequestList MN-to-SN-QMCCoordRequestList OPTIONAL,

sN-to-MN-QMCCoordRequestList SN-to-MN-QMCCoordRequestList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QMCCoordinationRequest-ExtIEs} } OPTIONAL,

...

}

QMCCoordinationRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MN-to-SN-QMCCoordRequestList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF MN-to-SN-QMCCoordRequestList-Item

MN-to-SN-QMCCoordRequestList-Item ::= SEQUENCE {

qOEReference QOEReference,

qOEMeasConfigAppLayerID QOEMeasConfAppLayerID OPTIONAL,

measCollectionEntityIPAddress MeasCollectionEntityIPAddress OPTIONAL,

qoEReportingPathRequest ENUMERATED{srb4, srb5, ...} OPTIONAL,

rVQoEReportingPathRequest ENUMERATED{srb4, srb5, ...} OPTIONAL,

furtherRVQoEInterestInquiry ENUMERATED{true, ...} OPTIONAL,

furtherRVQoEReportingPathInquiry ENUMERATED{true, ...} OPTIONAL,

currentRVQoEConfig RVQoEConfig OPTIONAL,

availableRVQoEMetrics AvailableRVQoEMetrics OPTIONAL,

configReleaseIndication ENUMERATED{rvqoe,qoe-and-rvqoe, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MN-to-SN-QMCCoordRequestList-Item-ExtIEs} } OPTIONAL,

...

}

MN-to-SN-QMCCoordRequestList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SN-to-MN-QMCCoordRequestList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF SN-to-MN-QMCCoordRequestList-Item

SN-to-MN-QMCCoordRequestList-Item ::= SEQUENCE {

qOEReference QOEReference,

measCollectionEntityIPAddress MeasCollectionEntityIPAddress OPTIONAL,

qoEReportingPathRequest ENUMERATED{srb4, srb5, ...} OPTIONAL,

rVQoEReportingPathRequest ENUMERATED{srb4, srb5, ...} OPTIONAL,

furtherRVQoEInterestInquiry ENUMERATED{true, ...} OPTIONAL,

furtherRVQoEReportingPathInquiry ENUMERATED{true, ...} OPTIONAL,

currentRVQoEConfig RVQoEConfig OPTIONAL,

availableRVQoEMetrics AvailableRVQoEMetrics OPTIONAL,

configReleaseIndication ENUMERATED{rvqoe,qoe-and-rvqoe, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SN-to-MN-QMCCoordRequestList-Item-ExtIEs} } OPTIONAL,

...

}

SN-to-MN-QMCCoordRequestList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QMCCoordinationResponse ::= SEQUENCE {

mN-to-SN-QMCCoordResponseList MN-to-SN-QMCCoordResponseList OPTIONAL,

sN-to-MN-QMCCoordResponseList SN-to-MN-QMCCoordResponseList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QMCCoordinationResponse-ExtIEs} } OPTIONAL,

...

}

QMCCoordinationResponse-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

MN-to-SN-QMCCoordResponseList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF MN-to-SN-QMCCoordResponseList-Item

MN-to-SN-QMCCoordResponseList-Item ::= SEQUENCE {

qOEReference QOEReference,

qOEMeasConfigAppLayerID QOEMeasConfAppLayerID OPTIONAL,

qoEConfigSendingPath ENUMERATED{mn, sn, ...} OPTIONAL,

qoEReportingPathResponse ENUMERATED{accepted, rejected, ...} OPTIONAL,

rVQoEReportingPathResponse ENUMERATED{accepted, rejected, ...} OPTIONAL,

furtherRVQoEInterestResponse ENUMERATED{interested, not-interested, ...} OPTIONAL,

furtherRVQoEReportingPathResponse ENUMERATED{srb4, srb5, ...} OPTIONAL,

preferredRVQoEConfig RVQoEConfig OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { MN-to-SN-QMCCoordResponseList-Item-ExtIEs} } OPTIONAL,

...

}

MN-to-SN-QMCCoordResponseList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SN-to-MN-QMCCoordResponseList ::= SEQUENCE (SIZE(1..maxnoofUEAppLayerMeas)) OF SN-to-MN-QMCCoordResponseList-Item

SN-to-MN-QMCCoordResponseList-Item ::= SEQUENCE {

qOEReference QOEReference,

qoEReportingPathResponse ENUMERATED{accepted, rejected, ...} OPTIONAL,

rVQoEReportingPathResponse ENUMERATED{accepted, rejected, ...} OPTIONAL,

furtherRVQoEInterestResponse ENUMERATED{interested, not-interested, ...} OPTIONAL,

furtherRVQoEReportingPathResponse ENUMERATED{srb4, srb5, ...} OPTIONAL,

preferredRVQoEConfig RVQoEConfig OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SN-to-MN-QMCCoordResponseList-Item-ExtIEs} } OPTIONAL,

...

}

SN-to-MN-QMCCoordResponseList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoERVQoEReportingPaths ::= SEQUENCE {

qoEReportingPath ENUMERATED{srb4, srb5, ...} OPTIONAL,

rVQoEReportingPath ENUMERATED{srb4, srb5, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoERVQoEReportingPaths-ExtIEs} } OPTIONAL,

...

}

QoERVQoEReportingPaths-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RVQoEConfig ::= SEQUENCE {

availableRANVisibleQoEMetrics AvailableRVQoEMetrics OPTIONAL,

reportingPeriodicity RVQoEReportingPeriodicity OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RVQoEConfig-ExtIEs} } OPTIONAL,

...

}

RVQoEConfig-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RVQoEReportingPeriodicity ::= ENUMERATED {

ms120,

ms240,

ms480,

ms640,

ms1024,

...

}

QOEMeasConfAppLayerID ::= INTEGER (0..15, ...)

QOEMeasStatus ::= ENUMERATED {ongoing, ...}

QOEReference ::= OCTET STRING (SIZE (6))

QoSCharacteristics ::= CHOICE {

non-dynamic NonDynamic5QIDescriptor,

dynamic Dynamic5QIDescriptor,

choice-extension ProtocolIE-Single-Container { {QoSCharacteristics-ExtIEs} }

}

QoSCharacteristics-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

QoSFlowIdentifier ::= INTEGER (0..63, ...)

QoSFlowLevelQoSParameters ::= SEQUENCE {

qos-characteristics QoSCharacteristics,

allocationAndRetentionPrio AllocationandRetentionPriority,

gBRQoSFlowInfo GBRQoSFlowInfo OPTIONAL,

reflectiveQoS ReflectiveQoSAttribute OPTIONAL,

additionalQoSflowInfo ENUMERATED {more-likely, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoSFlowLevelQoSParameters-ExtIEs} } OPTIONAL,

...

}

QoSFlowLevelQoSParameters-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ID id-QoSMonitoringRequest CRITICALITY ignore EXTENSION QosMonitoringRequest PRESENCE optional}|

{ID id-QosMonitoringReportingFrequency CRITICALITY ignore EXTENSION QosMonitoringReportingFrequency PRESENCE optional}|

{ID id-QoSMonitoringDisabled CRITICALITY ignore EXTENSION QoSMonitoringDisabled PRESENCE optional}|

{ID id-PDUSetQoSParameters CRITICALITY ignore EXTENSION PDUSetQoSParameters PRESENCE optional},

...

}

QoSFlowMappingIndication ::= ENUMERATED {

ul,

dl,

...

}

QoSFlowNotificationControlIndicationInfo ::= SEQUENCE (SIZE (1..maxnoofQoSFlows)) OF QoSFlowNotify-Item

QoSFlowNotify-Item ::= SEQUENCE {

qosFlowIdentifier QoSFlowIdentifier,

notificationInformation ENUMERATED {fulfilled, not-fulfilled, ...},

iE-Extensions ProtocolExtensionContainer { {QoSFlowNotificationControlIndicationInfo-ExtIEs} } OPTIONAL,

...

}

QoSFlowNotificationControlIndicationInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetNotifyIndex PRESENCE optional },

...

}

QoSFlows-List ::= SEQUENCE (SIZE (1..maxnoofQoSFlows)) OF QoSFlow-Item

QoSFlow-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

qosFlowMappingIndication QoSFlowMappingIndication OPTIONAL,

iE-Extension ProtocolExtensionContainer { {QoSFlow-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlow-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoSFlows-List-withCause ::= SEQUENCE (SIZE (1..maxnoofQoSFlows)) OF QoSFlowwithCause-Item

QoSFlowwithCause-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

cause Cause OPTIONAL,

iE-Extension ProtocolExtensionContainer { {QoSFlowwithCause-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowwithCause-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoS-Mapping-Information ::= SEQUENCE {

dscp BIT STRING (SIZE(6)) OPTIONAL,

flow-label BIT STRING (SIZE(20)) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {QoS-Mapping-Information-ExtIEs} } OPTIONAL,

...

}

QoS-Mapping-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

QoSParaSetIndex ::= INTEGER (1..8,...)

QoSParaSetNotifyIndex ::= INTEGER (0..8,...)

QoSFlowsAdmitted-List ::= SEQUENCE (SIZE (1..maxnoofQoSFlows)) OF QoSFlowsAdmitted-Item

QoSFlowsAdmitted-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

iE-Extension ProtocolExtensionContainer { {QoSFlowsAdmitted-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsAdmitted-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CurrentQoSParaSetIndex CRITICALITY ignore EXTENSION QoSParaSetIndex PRESENCE optional },

...

}

QoSFlowsToBeSetup-List ::= SEQUENCE (SIZE (1..maxnoofQoSFlows)) OF QoSFlowsToBeSetup-Item

QoSFlowsToBeSetup-Item ::= SEQUENCE {

qfi QoSFlowIdentifier,

qosFlowLevelQoSParameters QoSFlowLevelQoSParameters,

e-RAB-ID E-RAB-ID OPTIONAL,

iE-Extension ProtocolExtensionContainer { {QoSFlowsToBeSetup-Item-ExtIEs} } OPTIONAL,

...

}

QoSFlowsToBeSetup-Item-ExtIEs XNAP-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},

...

}

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

QosMonitoringRequest ::= ENUMERATED {ul, dl, both}

QoSMonitoringDisabled ::= ENUMERATED {true, ...}

QosMonitoringReportingFrequency ::= INTEGER (1..1800, ...)

-- R

RACH-Config-Common ::= OCTET STRING

RACH-Config-Common-IAB ::= OCTET STRING

RAReport ::= SEQUENCE (SIZE(1.. maxnoofRAReports)) OF RAReportList-Item

RAReportList-Item ::= SEQUENCE {

rAReport RAReportContainer,

iE-Extensions ProtocolExtensionContainer { { RAReportList-Item-ExtIEs} } OPTIONAL,

...

}

RAReportList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-UEAssistantIdentifier CRITICALITY ignore EXTENSION NG-RANnodeUEXnAPID PRESENCE optional}|

{ ID id-PSCellListContainer CRITICALITY ignore EXTENSION PSCellListContainer PRESENCE optional},

...

}

RAReportContainer ::= OCTET STRING

RadioResourceStatus ::= CHOICE {

ng-eNB-RadioResourceStatus NG-eNB-RadioResourceStatus,

gNB-RadioResourceStatus GNB-RadioResourceStatus,

choice-extension ProtocolIE-Single-Container { { RadioResourceStatus-ExtIEs} }

}

RadioResourceStatus-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

RANAC ::= INTEGER (0..255)

RANAreaID ::= SEQUENCE {

tAC TAC,

rANAC RANAC OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RANAreaID-ExtIEs} } OPTIONAL,

...

}

RANAreaID-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RANAreaID-List ::= SEQUENCE (SIZE(1..maxnoofRANAreasinRNA)) OF RANAreaID

Range ::= ENUMERATED {m50, m80, m180, m200, m350, m400, m500, m700, m1000, ...}

RANPagingArea ::= SEQUENCE {

pLMN-Identity PLMN-Identity,

rANPagingAreaChoice RANPagingAreaChoice,

iE-Extensions ProtocolExtensionContainer { {RANPagingArea-ExtIEs} } OPTIONAL,

...

}

RANPagingArea-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RANPagingAreaChoice ::= CHOICE {

cell-List NG-RAN-Cell-Identity-ListinRANPagingArea,

rANAreaID-List RANAreaID-List,

choice-extension ProtocolIE-Single-Container { {RANPagingAreaChoice-ExtIEs} }

}

RANPagingAreaChoice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

RANPagingAttemptInfo ::= SEQUENCE {

pagingAttemptCount INTEGER (1..16, ...),

intendedNumberOfPagingAttempts INTEGER (1..16, ...),

nextPagingAreaScope ENUMERATED {same, changed, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RANPagingAttemptInfo-ExtIEs} } OPTIONAL,

...

}

RANPagingAttemptInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RANPagingFailure ::= ENUMERATED {

true,

...

}

RBsetConfiguration ::= SEQUENCE {

subcarrierSpacing SubcarrierSpacing,

rBsetSize ENUMERATED {rb2, rb4, rb8, rb16, rb32, rb64},

numberofRBSets INTEGER(1.. maxnoofRBsetsPerCell),

iE-Extensions ProtocolExtensionContainer { { RBsetConfiguration-ExtIEs} } OPTIONAL,

...

}

RBsetConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Redcap-Bcast-Information ::= BIT STRING(SIZE(8))

RedundantQoSFlowIndicator ::= ENUMERATED {true, false}

RedundantPDUSessionInformation ::= SEQUENCE {

rSN RSN,

iE-Extensions ProtocolExtensionContainer { {RedundantPDUSessionInformation-ExtIEs} } OPTIONAL,

...

}

RedundantPDUSessionInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-PDUSession-PairID CRITICALITY ignore EXTENSION PDUSession-PairID PRESENCE optional },

...

}

RSN ::= ENUMERATED {v1, v2, ...}

ReflectiveQoSAttribute ::= ENUMERATED {subject-to-reflective-QoS, ...}

RequestedSRSTransmissionCharacteristics ::= OCTET STRING

RoutingID ::= OCTET STRING

ReplacingCells ::= SEQUENCE (SIZE(0.. maxnoofCellsinNG-RANnode)) OF ReplacingCells-Item

ReplacingCells-Item ::= SEQUENCE {

globalNG-RANCell-ID GlobalCell-ID,

iE-Extensions ProtocolExtensionContainer { {ReplacingCells-Item-ExtIEs} } OPTIONAL,

...

}

ReplacingCells-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ReportAmountMDT ::= ENUMERATED{r1, r2, r4, r8, r16, r32, r64, infinity, ...}

ReportArea ::= ENUMERATED {

cell,

...

}

ReportConfigContainer ::= OCTET STRING

ReportIntervalMDT ::= ENUMERATED {ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, min1, min6, min12, min30, min60, ...}

ReportType ::= CHOICE {

periodical Periodical,

eventTriggered EventTriggered,

...,

choice-extension ProtocolIE-Single-Container { {ReportType-ExtIEs} }

}

ReportType-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ExtendedReportIntervalMDT ::= ENUMERATED {

ms20480,

ms40960,

...

}

ReportCharacteristics ::= BIT STRING(SIZE(32))

ReportCharacteristicsForDataCollection ::= BIT STRING(SIZE(32))

ReportingPeriodicity ::= ENUMERATED {

half-thousand-ms,

one-thousand-ms,

two-thousand-ms,

five-thousand-ms,

ten-thousand-ms,

...

}

ReportingPeriodicityForDataCollection ::= ENUMERATED {

half-thousand-ms,

one-thousand-ms,

two-thousand-ms,

five-thousand-ms,

ten-thousand-ms,

...

}

RequestedPredictionTime ::= INTEGER (1..60, ...)

RegistrationRequest ::= ENUMERATED {start, stop, add, ... }

RegistrationRequestForDataCollection ::= ENUMERATED {start, stop, ... }

RequestReferenceID ::= INTEGER (1..64, ...)

ReservedSubframePattern ::= SEQUENCE {

subframeType ENUMERATED {mbsfn, non-mbsfn, ...},

reservedSubframePattern BIT STRING (SIZE(10..160)),

mbsfnControlRegionLength MBSFNControlRegionLength OPTIONAL,

iE-Extension ProtocolExtensionContainer { {ReservedSubframePattern-ExtIEs} } OPTIONAL,

...

}

ReservedSubframePattern-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetRequestTypeInfo ::= CHOICE {

fullReset ResetRequestTypeInfo-Full,

partialReset ResetRequestTypeInfo-Partial,

choice-extension ProtocolIE-Single-Container { {ResetRequestTypeInfo-ExtIEs} }

}

ResetRequestTypeInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ResetRequestTypeInfo-Full ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {ResetRequestTypeInfo-Full-ExtIEs} } OPTIONAL,

...

}

ResetRequestTypeInfo-Full-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetRequestTypeInfo-Partial ::= SEQUENCE {

ue-contexts-ToBeReleasedList ResetRequestPartialReleaseList,

iE-Extension ProtocolExtensionContainer { {ResetRequestTypeInfo-Partial-ExtIEs} } OPTIONAL,

...

}

ResetRequestTypeInfo-Partial-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetRequestPartialReleaseList ::= SEQUENCE (SIZE(1..maxnoofUEContexts)) OF ResetRequestPartialReleaseItem

ResetRequestPartialReleaseItem ::= SEQUENCE {

ng-ran-node1UEXnAPID NG-RANnodeUEXnAPID OPTIONAL,

ng-ran-node2UEXnAPID NG-RANnodeUEXnAPID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResetRequestPartialReleaseItem-ExtIEs} } OPTIONAL,

...

}

ResetRequestPartialReleaseItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetResponseTypeInfo ::= CHOICE {

fullReset ResetResponseTypeInfo-Full,

partialReset ResetResponseTypeInfo-Partial,

choice-extension ProtocolIE-Single-Container { {ResetResponseTypeInfo-ExtIEs} }

}

ResetResponseTypeInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ResetResponseTypeInfo-Full ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {ResetResponseTypeInfo-Full-ExtIEs} } OPTIONAL,

...

}

ResetResponseTypeInfo-Full-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetResponseTypeInfo-Partial ::= SEQUENCE {

ue-contexts-AdmittedToBeReleasedList ResetResponsePartialReleaseList,

iE-Extension ProtocolExtensionContainer { {ResetResponseTypeInfo-Partial-ExtIEs} } OPTIONAL,

...

}

ResetResponseTypeInfo-Partial-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ResetResponsePartialReleaseList ::= SEQUENCE (SIZE(1..maxnoofUEContexts)) OF ResetResponsePartialReleaseItem

ResetResponsePartialReleaseItem ::= SEQUENCE {

ng-ran-node1UEXnAPID NG-RANnodeUEXnAPID OPTIONAL,

ng-ran-node2UEXnAPID NG-RANnodeUEXnAPID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ResetResponsePartialReleaseItem-ExtIEs} } OPTIONAL,

...

}

ResetResponsePartialReleaseItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RLCMode ::= ENUMERATED {

rlc-am,

rlc-um-bidirectional,

rlc-um-unidirectional-ul,

rlc-um-unidirectional-dl,

...

}

RLC-Status ::= SEQUENCE {

reestablishment-Indication Reestablishment-Indication,

iE-Extensions ProtocolExtensionContainer { {RLC-Status-ExtIEs} } OPTIONAL,

...

}

RLC-Status-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RLCDuplicationInformation ::= SEQUENCE {

rLCDuplicationStateList RLCDuplicationStateList,

rLC-PrimaryIndicator ENUMERATED {true, false} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {RLCDuplicationInformation-ItemExtIEs} } OPTIONAL

}

RLCDuplicationInformation-ItemExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RLCDuplicationStateList ::= SEQUENCE (SIZE(1..maxnoofRLCDuplicationstate)) OF RLCDuplicationState-Item

RLCDuplicationState-Item ::= SEQUENCE {

duplicationState ENUMERATED {active,inactive, ...},

iE-Extensions ProtocolExtensionContainer { {RLCDuplicationState-ItemExtIEs } } OPTIONAL,

...

}

RLCDuplicationState-ItemExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Reestablishment-Indication ::= ENUMERATED {

reestablished,

...

}

RFSP-Index ::= INTEGER (1..256)

RRCConfigIndication ::= ENUMERATED {

full-config,

delta-config,

...

}

RRCConnections::= SEQUENCE {

noofRRCConnections NoofRRCConnections,

availableRRCConnectionCapacityValue AvailableRRCConnectionCapacityValue,

iE-Extensions ProtocolExtensionContainer { { RRCConnections-ExtIEs} } OPTIONAL,

...

}

RRCConnections-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RRCConnReestab-Indicator ::= ENUMERATED { reconfigurationFailure, handoverFailure, otherFailure, ...}

RRCReestab-initiated ::= SEQUENCE {

rRRCReestab-initiated-reporting RRCReestab-Initiated-Reporting,

iE-Extensions ProtocolExtensionContainer { { RRCReestab-initiated-ExtIEs} } OPTIONAL,

...

}

RRCReestab-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RRCReestab-Initiated-Reporting ::= CHOICE {

rRCReestab-reporting-wo-UERLFReport RRCReestab-Initiated-Reporting-wo-UERLFReport,

rRCReestab-reporting-with-UERLFReport RRCReestab-Initiated-Reporting-with-UERLFReport,

choice-extension ProtocolIE-Single-Container { {RRCReestab-Initiated-Reporting-ExtIEs} }

}

RRCReestab-Initiated-Reporting-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

RRCReestab-Initiated-Reporting-wo-UERLFReport ::= SEQUENCE {

failureCellPCI NG-RAN-CellPCI,

reestabCellCGI GlobalNG-RANCell-ID,

c-RNTI C-RNTI,

shortMAC-I MAC-I,

iE-Extensions ProtocolExtensionContainer { { RRCReestab-Initiated-Reporting-wo-UERLFReport-ExtIEs} } OPTIONAL,

...

}

RRCReestab-Initiated-Reporting-wo-UERLFReport-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-RRCConnReestab-Indicator CRITICALITY ignore EXTENSION RRCConnReestab-Indicator PRESENCE optional },

...

}

RRCReestab-Initiated-Reporting-with-UERLFReport ::= SEQUENCE {

uERLFReportContainer UERLFReportContainer,

iE-Extensions ProtocolExtensionContainer { {RRCReestab-Initiated-Reporting-with-UERLFReport-ExtIEs} } OPTIONAL,

...

}

RRCReestab-Initiated-Reporting-with-UERLFReport-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RRCSetup-initiated ::= SEQUENCE {

rRRCSetup-Initiated-Reporting RRCSetup-Initiated-Reporting,

uERLFReportContainer UERLFReportContainer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RRCSetup-initiated-ExtIEs} } OPTIONAL,

...

}

RRCSetup-initiated-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RRCSetup-Initiated-Reporting ::= CHOICE {

rRCSetup-reporting-with-UERLFReport RRCSetup-Initiated-Reporting-with-UERLFReport,

choice-extension ProtocolIE-Single-Container { {RRCSetup-Initiated-Reporting-ExtIEs} }

}

RRCSetup-Initiated-Reporting-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

RRCSetup-Initiated-Reporting-with-UERLFReport ::= SEQUENCE {

uERLFReportContainer UERLFReportContainer,

iE-Extensions ProtocolExtensionContainer { {RRCSetup-Initiated-Reporting-with-UERLFReport-ExtIEs} } OPTIONAL,

...

}

RRCSetup-Initiated-Reporting-with-UERLFReport-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RRCResumeCause ::= ENUMERATED {

rna-Update,

...

}

RaReportIndicationList ::= SEQUENCE (SIZE(1..maxnoofUEsforRAReportIndications)) OF RaReportIndicationList-Item

RaReportIndicationList-Item ::= SEQUENCE {

m-NG-RAN-node-UE-XnAP-ID NG-RANnodeUEXnAPID,

iE-Extensions ProtocolExtensionContainer { { RaReportIndicationList-Item-ExtIEs} } OPTIONAL,

...

}

RaReportIndicationList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

RadioResourceStatusNR-U ::= SEQUENCE {

dL-Total-PRB-usage INTEGER (0..100),

uL-Total-PRB-usage INTEGER (0..100),

iE-Extensions ProtocolExtensionContainer {{ RadioResourceStatusNR-U-ExtIEs}} OPTIONAL,

...

}

RadioResourceStatusNR-U-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- S

SCGreconfigNotification ::= ENUMERATED {executed, ... , executed-deleted, deleted }

S-NSSAIListQoE ::= SEQUENCE (SIZE(1..maxnoofSNSSAIforQMC)) OF S-NSSAI

S-BasedMDT ::= SEQUENCE {

ng-ran-TraceID NG-RANTraceID,

iE-Extension ProtocolExtensionContainer { {S-BasedMDT-ExtIEs} } OPTIONAL,

...

}

S-BasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

S-CPAC-Request ::= ENUMERATED {initiation, ...}

S-CPAC-Request-Info ::= SEQUENCE {

s-CPAC-Security-Config-List S-CPAC-SecurityConfig-List,

s-CPAC-MultiTargetSN-List S-CPAC-MultiTargetSN-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {S-CPAC-Request-Info-ExtIEs} } OPTIONAL,

...

}

S-CPAC-Request-Info-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

S-CPAC-ReferenceConfig-Request ::= ENUMERATED {request, ...}

S-CPAC-SecurityConfig-List ::= SEQUENCE (SIZE(1..maxnoofSecurityConfigurations)) OF S-CPAC-SecurityConfig-Item

S-CPAC-SecurityConfig-Item ::= SEQUENCE {

s-ng-RANnode-SecurityKey S-NG-RANnode-SecurityKey,

sk-counter SK-COUNTER,

iE-Extensions ProtocolExtensionContainer { {S-CPAC-SecurityConfig-Item-ExtIEs} } OPTIONAL,

...

}

S-CPAC-SecurityConfig-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

S-CPAC-MultiTargetSN-List ::= SEQUENCE (SIZE(1..maxnoofTargetSNsMinusOne)) OF S-CPAC-MultiTargetSN-Item

S-CPAC-MultiTargetSN-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

recommendedCandidatePSCells OCTET STRING,

iE-Extensions ProtocolExtensionContainer { {S-CPAC-MultiTargetSN-Item-ExtIEs} } OPTIONAL,

...

}

S-CPAC-MultiTargetSN-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

S-CPAC-InterSN-ExecutionNotify ::= ENUMERATED {executed, ...}

SBFD-Frequency-Configuration ::= OCTET STRING

ServiceType ::= ENUMERATED{

qMC-for-streaming-service,

qMC-for-MTSI-service,

qMC-for-VR-service,

...

}

SecondarydataForwardingInfoFromTarget-Item::= SEQUENCE {

secondarydataForwardingInfoFromTarget DataForwardingInfoFromTargetNGRANnode,

iE-Extensions ProtocolExtensionContainer { { SecondarydataForwardingInfoFromTarget-Item-ExtIEs} } OPTIONAL,

...

}

SecondarydataForwardingInfoFromTarget-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SecondarydataForwardingInfoFromTarget-List ::= SEQUENCE (SIZE(1..maxnoofMultiConnectivityMinusOne)) OF SecondarydataForwardingInfoFromTarget-Item

SCGActivationRequest ::= ENUMERATED {activate-scg, deactivate-scg, ...}

SCGActivationStatus ::= ENUMERATED {scg-activated, scg-deactivated, ...}

SCGConfigurationQuery ::= ENUMERATED {true, ...}

SCGIndicator ::= ENUMERATED{released, ...}

SCGFailureReportContainer ::= OCTET STRING

SDTSupportRequest ::= SEQUENCE {

sdtindicator SDTIndicator,

sdtAssistantInfo SDTAssistantInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SDTSupportRequest-ExtIEs} } OPTIONAL,

...

}

SDTSupportRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SDTIndicator ::= ENUMERATED {true, ...}

SDTAssistantInfo ::= ENUMERATED {single-packet, multiple-packets, ...}

SDT-Termination-Request ::= ENUMERATED {radio-link-problem, normal, ..., large-sdt-volume-from-BSR}

SDTPartialUEContextInfo ::= SEQUENCE {

dRBsToBeSetup SDT-DRBsToBeSetupList OPTIONAL,

sRBsToBeSetup SDT-SRBsToBeSetupList,

iE-Extensions ProtocolExtensionContainer { { SDTPartialUEContextInfo-ExtIEs} } OPTIONAL,

...

}

SDTPartialUEContextInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SDT-DRBsToBeSetupList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF SDT-DRBsToBeSetupList-Item

SDT-DRBsToBeSetupList-Item ::= SEQUENCE {

drb-ID DRB-ID,

uL-TNLInfo UPTransportLayerInformation,

dRB-RLC-Bearer-Configuration OCTET STRING,

dRB-QoS QoSFlowLevelQoSParameters,

rLC-Mode RLCMode,

s-nssai S-NSSAI,

pDCP-SNLength PDCPSNLength,

flows-Mapped-To-DRB-List Flows-Mapped-To-DRB-List,

iE-Extensions ProtocolExtensionContainer { { SDT-DRBsToBeSetupList-Item-ExtIEs} } OPTIONAL,

...

}

SDT-DRBsToBeSetupList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SDT-SRBsToBeSetupList ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF SDT-SRBsToBeSetupList-Item

SDT-SRBsToBeSetupList-Item ::= SEQUENCE {

srb-ID SRB-ID,

sRB-RLC-Bearer-Configuration OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { SDT-SRBsToBeSetupList-Item-ExtIEs} } OPTIONAL,

...

}

SDT-SRBsToBeSetupList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SRB-ID ::= INTEGER (0..4, ...)

SDTDataForwardingDRBList ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF SDTDataForwardingDRBList-Item

SDTDataForwardingDRBList-Item ::= SEQUENCE {

drb-ID DRB-ID,

dL-TNLInfo UPTransportLayerInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SDTDataForwardingDRBList-Item-ExtIEs} } OPTIONAL,

...

}

SDTDataForwardingDRBList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SecondaryRATUsageInformation ::= SEQUENCE {

pDUSessionUsageReport PDUSessionUsageReport OPTIONAL,

qosFlowsUsageReportList QoSFlowsUsageReportList OPTIONAL,

iE-Extension ProtocolExtensionContainer { {SecondaryRATUsageInformation-ExtIEs} } OPTIONAL,

...

}

SecondaryRATUsageInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SecurityIndication ::= SEQUENCE {

integrityProtectionIndication ENUMERATED {required, preferred, not-needed, ...},

confidentialityProtectionIndication ENUMERATED {required, preferred, not-needed, ...},

maximumIPdatarate MaximumIPdatarate OPTIONAL,

-- This IE shall be present if the *Integrity Protection* IE within the *Security Indication* IE is present and set to "required" or "preferred". --

iE-Extensions ProtocolExtensionContainer { {SecurityIndication-ExtIEs} } OPTIONAL,

...

}

SecurityIndication-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SecurityResult ::= SEQUENCE {

integrityProtectionResult ENUMERATED {performed, not-performed, ...},

confidentialityProtectionResult ENUMERATED {performed, not-performed, ...},

iE-Extensions ProtocolExtensionContainer { {SecurityResult-ExtIEs} } OPTIONAL,

...

}

SecurityResult-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SensorMeasurementConfiguration ::= SEQUENCE {

sensorMeasConfig SensorMeasConfig,

sensorMeasConfigNameList SensorMeasConfigNameList OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SensorMeasurementConfiguration-ExtIEs } } OPTIONAL,

...

}

SensorMeasurementConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SensorMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofSensorName)) OF SensorName

SensorMeasConfig::= ENUMERATED {setup,...}

SensorName ::= SEQUENCE {

uncompensatedBarometricConfig ENUMERATED {true, ...} OPTIONAL,

ueSpeedConfig ENUMERATED {true, ...} OPTIONAL,

ueOrientationConfig ENUMERATED {true, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {SensorNameConfig-ExtIEs} } OPTIONAL,

...

}

SensorNameConfig-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- Served Cells E-UTRA IEs

ServedCellInformation-E-UTRA ::= SEQUENCE {

e-utra-pci E-UTRAPCI,

e-utra-cgi E-UTRA-CGI,

tac TAC,

ranac RANAC OPTIONAL,

broadcastPLMNs SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF ServedCellInformation-E-UTRA-perBPLMN,

e-utra-mode-info ServedCellInformation-E-UTRA-ModeInfo,

numberofAntennaPorts NumberOfAntennaPorts-E-UTRA OPTIONAL,

prach-configuration E-UTRAPRACHConfiguration OPTIONAL,

mBSFNsubframeInfo MBSFNSubframeInfo-E-UTRA OPTIONAL,

multibandInfo E-UTRAMultibandInfoList OPTIONAL,

freqBandIndicatorPriority ENUMERATED {not-broadcast, broadcast, ...} OPTIONAL,

bandwidthReducedSI ENUMERATED {scheduled, ...} OPTIONAL,

protectedE-UTRAResourceIndication ProtectedE-UTRAResourceIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCellInformation-E-UTRA-ExtIEs} } OPTIONAL,

...

}

ServedCellInformation-E-UTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-BPLMN-ID-Info-EUTRA CRITICALITY ignore EXTENSION BPLMN-ID-Info-EUTRA PRESENCE optional }|

{ ID id-NPRACHConfiguration CRITICALITY ignore EXTENSION NPRACHConfiguration PRESENCE optional},

...

}

ServedCellInformation-E-UTRA-perBPLMN ::= SEQUENCE {

plmn-id PLMN-Identity,

iE-Extensions ProtocolExtensionContainer { {ServedCellInformation-E-UTRA-perBPLMN-ExtIEs} } OPTIONAL,

...

}

ServedCellInformation-E-UTRA-perBPLMN-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCellInformation-E-UTRA-ModeInfo ::= CHOICE {

fdd ServedCellInformation-E-UTRA-FDDInfo,

tdd ServedCellInformation-E-UTRA-TDDInfo,

choice-extension ProtocolIE-Single-Container{ {ServedCellInformation-E-UTRA-ModeInfo-ExtIEs} }

}

ServedCellInformation-E-UTRA-ModeInfo-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

ServedCellInformation-E-UTRA-FDDInfo ::= SEQUENCE {

ul-earfcn E-UTRAARFCN,

dl-earfcn E-UTRAARFCN,

ul-e-utraTxBW E-UTRATransmissionBandwidth,

dl-e-utraTxBW E-UTRATransmissionBandwidth,

iE-Extensions ProtocolExtensionContainer { {ServedCellInformation-E-UTRA-FDDInfo-ExtIEs} } OPTIONAL,

...

}

ServedCellInformation-E-UTRA-FDDInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-OffsetOfNbiotChannelNumberToDL-EARFCN CRITICALITY reject EXTENSION OffsetOfNbiotChannelNumberToEARFCN PRESENCE optional}|

{ ID id-OffsetOfNbiotChannelNumberToUL-EARFCN CRITICALITY reject EXTENSION OffsetOfNbiotChannelNumberToEARFCN PRESENCE optional},

...

}

ServedCellInformation-E-UTRA-TDDInfo ::= SEQUENCE {

earfcn E-UTRAARFCN,

e-utraTxBW E-UTRATransmissionBandwidth,

subframeAssignmnet ENUMERATED {sa0,sa1,sa2,sa3,sa4,sa5,sa6,...},

specialSubframeInfo SpecialSubframeInfo-E-UTRA,

iE-Extensions ProtocolExtensionContainer { {ServedCellInformation-E-UTRA-TDDInfo-ExtIEs} } OPTIONAL,

...

}

ServedCellInformation-E-UTRA-TDDInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-OffsetOfNbiotChannelNumberToDL-EARFCN CRITICALITY reject EXTENSION OffsetOfNbiotChannelNumberToEARFCN PRESENCE optional}|

{ ID id-NBIoT-UL-DL-AlignmentOffset CRITICALITY reject EXTENSION NBIoT-UL-DL-AlignmentOffset PRESENCE optional},

...

}

ServedCells-E-UTRA ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF ServedCells-E-UTRA-Item

ServedCells-E-UTRA-Item ::= SEQUENCE {

served-cell-info-E-UTRA ServedCellInformation-E-UTRA,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCells-E-UTRA-Item-ExtIEs} } OPTIONAL,

...

}

ServedCells-E-UTRA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SFN-Offset CRITICALITY ignore EXTENSION SFN-Offset PRESENCE optional },

...

}

ServedCellsToUpdate-E-UTRA ::= SEQUENCE {

served-Cells-ToAdd-E-UTRA ServedCells-E-UTRA OPTIONAL,

served-Cells-ToModify-E-UTRA ServedCells-ToModify-E-UTRA OPTIONAL,

served-Cells-ToDelete-E-UTRA SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCellsToUpdate-E-UTRA-ExtIEs} } OPTIONAL,

...

}

ServedCellsToUpdate-E-UTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCells-ToModify-E-UTRA ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF ServedCells-ToModify-E-UTRA-Item

ServedCells-ToModify-E-UTRA-Item ::= SEQUENCE {

old-ECGI E-UTRA-CGI,

served-cell-info-E-UTRA ServedCellInformation-E-UTRA,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

deactivation-indication ENUMERATED {deactivated, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Served-cells-ToModify-E-UTRA-Item-ExtIEs} } OPTIONAL,

...

}

Served-cells-ToModify-E-UTRA-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SFN-Offset CRITICALITY ignore EXTENSION SFN-Offset PRESENCE optional },

...

}

-- Served Cells NR IEs

ServedCellInformation-NR ::= SEQUENCE {

nrPCI NRPCI,

cellID NR-CGI,

tac TAC,

ranac RANAC OPTIONAL,

broadcastPLMN BroadcastPLMNs,

nrModeInfo NRModeInfo,

measurementTimingConfiguration OCTET STRING,

connectivitySupport Connectivity-Support,

iE-Extensions ProtocolExtensionContainer { {ServedCellInformation-NR-ExtIEs} } OPTIONAL,

...

}

ServedCellInformation-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-BPLMN-ID-Info-NR CRITICALITY ignore EXTENSION BPLMN-ID-Info-NR PRESENCE optional }|

{ ID id-ConfiguredTACIndication CRITICALITY ignore EXTENSION ConfiguredTACIndication PRESENCE optional }|

{ ID id-SSB-PositionsInBurst CRITICALITY ignore EXTENSION SSB-PositionsInBurst PRESENCE optional }|

{ ID id-NRCellPRACHConfig CRITICALITY ignore EXTENSION NRCellPRACHConfig PRESENCE optional }|

{ ID id-NPN-Broadcast-Information CRITICALITY reject EXTENSION NPN-Broadcast-Information PRESENCE optional }|

{ ID id-CSI-RSTransmissionIndication CRITICALITY ignore EXTENSION CSI-RSTransmissionIndication PRESENCE optional }|

{ ID id-SFN-Offset CRITICALITY ignore EXTENSION SFN-Offset PRESENCE optional }|

{ ID id-Supported-MBS-FSA-ID-List CRITICALITY ignore EXTENSION Supported-MBS-FSA-ID-List PRESENCE optional }|

{ ID id-NR-U-ChannelInfo-List CRITICALITY ignore EXTENSION NR-U-ChannelInfo-List PRESENCE optional }|

{ ID id-Additional-Measurement-Timing-Configuration-List CRITICALITY ignore EXTENSION Additional-Measurement-Timing-Configuration-List PRESENCE optional }|

{ ID id-Redcap-Bcast-Information CRITICALITY ignore EXTENSION Redcap-Bcast-Information PRESENCE optional }|

{ ID id-eRedcap-Bcast-Information CRITICALITY ignore EXTENSION ERedcap-Bcast-Information PRESENCE optional }|

{ ID id-MobileIABCell CRITICALITY ignore EXTENSION MobileIABCell PRESENCE optional }|

{ ID id-XR-Bcast-Information CRITICALITY ignore EXTENSION XR-Bcast-Information PRESENCE optional }|

{ ID id-BarringExemptionforEmerCallInfo CRITICALITY ignore EXTENSION BarringExemptionforEmerCallInfo PRESENCE optional }|

{ ID id-NZP-CSI-RS-Resources-Config CRITICALITY ignore EXTENSION NZP-CSI-RS-Resources-Config PRESENCE optional },

...

}

SFN-Offset ::= SEQUENCE {

sFN-Time-Offset BIT STRING (SIZE(24)),

iE-Extensions ProtocolExtensionContainer { {SFN-Offset-ExtIEs} } OPTIONAL,

...

}

SFN-Offset-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCells-NR ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF ServedCells-NR-Item

ServedCells-NR-Item ::= SEQUENCE {

served-cell-info-NR ServedCellInformation-NR,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCells-NR-Item-ExtIEs} } OPTIONAL,

...

}

ServedCells-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ServedCellSpecificInfoReq-NR CRITICALITY ignore EXTENSION ServedCellSpecificInfoReq-NR PRESENCE optional },

...

}

ServedCells-ToModify-NR ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF ServedCells-ToModify-NR-Item

ServedCells-ToModify-NR-Item ::= SEQUENCE {

old-NR-CGI NR-CGI,

served-cell-info-NR ServedCellInformation-NR,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

deactivation-indication ENUMERATED {deactivated, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Served-cells-ToModify-NR-Item-ExtIEs} } OPTIONAL,

...

}

Served-cells-ToModify-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCellSpecificInfoReq-NR ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF ServedCellSpecificInfoReq-NR-Item

ServedCellSpecificInfoReq-NR-Item ::= SEQUENCE {

nRCGI NR-CGI,

additionalMTCListRequestIndicator ENUMERATED {additionalMTCListRequested, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ServedCellSpecificInfoReq-NR-Item-ExtIEs} } OPTIONAL,

...

}

ServedCellSpecificInfoReq-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCellsToUpdate-NR ::= SEQUENCE {

served-Cells-ToAdd-NR ServedCells-NR OPTIONAL,

served-Cells-ToModify-NR ServedCells-ToModify-NR OPTIONAL,

served-Cells-ToDelete-NR SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF NR-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCellsToUpdate-NR-ExtIEs} } OPTIONAL,

...

}

ServedCellsToUpdate-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SharedResourceType ::= CHOICE {

ul-onlySharing SharedResourceType-UL-OnlySharing,

ul-and-dl-Sharing SharedResourceType-ULDL-Sharing,

choice-extension ProtocolIE-Single-Container { {SharedResourceType-ExtIEs} }

}

SharedResourceType-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SharedResourceType-UL-OnlySharing ::= SEQUENCE {

ul-resourceBitmap DataTrafficResources,

iE-Extensions ProtocolExtensionContainer { {SharedResourceType-UL-OnlySharing-ExtIEs} } OPTIONAL,

...

}

SharedResourceType-UL-OnlySharing-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SharedResourceType-ULDL-Sharing ::= CHOICE {

ul-resources SharedResourceType-ULDL-Sharing-UL-Resources,

dl-resources SharedResourceType-ULDL-Sharing-DL-Resources,

choice-extension ProtocolIE-Single-Container { {SharedResourceType-ULDL-Sharing-ExtIEs} }

}

SharedResourceType-ULDL-Sharing-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SharedResourceType-ULDL-Sharing-UL-Resources ::= CHOICE {

unchanged NULL,

changed SharedResourceType-ULDL-Sharing-UL-ResourcesChanged,

choice-extension ProtocolIE-Single-Container { {SharedResourceType-ULDL-Sharing-UL-Resources-ExtIEs} }

}

SharedResourceType-ULDL-Sharing-UL-Resources-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SharedResourceType-ULDL-Sharing-UL-ResourcesChanged ::= SEQUENCE {

ul-resourceBitmap DataTrafficResources,

iE-Extensions ProtocolExtensionContainer { {SharedResourceType-ULDL-Sharing-UL-ResourcesChanged-ExtIEs} } OPTIONAL,

...

}

SharedResourceType-ULDL-Sharing-UL-ResourcesChanged-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SharedResourceType-ULDL-Sharing-DL-Resources ::= CHOICE {

unchanged NULL,

changed SharedResourceType-ULDL-Sharing-DL-ResourcesChanged,

choice-extension ProtocolIE-Single-Container { {SharedResourceType-ULDL-Sharing-DL-Resources-ExtIEs} }

}

SharedResourceType-ULDL-Sharing-DL-Resources-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SharedResourceType-ULDL-Sharing-DL-ResourcesChanged ::= SEQUENCE {

dl-resourceBitmap DataTrafficResources,

iE-Extensions ProtocolExtensionContainer { {SharedResourceType-ULDL-Sharing-DL-ResourcesChanged-ExtIEs} } OPTIONAL,

...

}

SharedResourceType-ULDL-Sharing-DL-ResourcesChanged-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SK-COUNTER ::= INTEGER (0..65535)

SliceAvailableCapacity ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF SliceAvailableCapacity-Item

SliceAvailableCapacity-Item ::= SEQUENCE {

pLMNIdentity PLMN-Identity,

sNSSAIAvailableCapacity-List SNSSAIAvailableCapacity-List,

iE-Extensions ProtocolExtensionContainer { { SliceAvailableCapacity-Item-ExtIEs} } OPTIONAL,

...

}

SliceAvailableCapacity-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNSSAIAvailableCapacity-List ::= SEQUENCE (SIZE(1.. maxnoofSliceItems)) OF SNSSAIAvailableCapacity-Item

SNSSAIAvailableCapacity-Item ::= SEQUENCE {

sNSSAI S-NSSAI,

sliceAvailableCapacityValueDownlink INTEGER (0..100),

sliceAvailableCapacityValueUplink INTEGER (0..100),

iE-Extensions ProtocolExtensionContainer { { SNSSAIAvailableCapacity-Item-ExtIEs } } OPTIONAL

}

SNSSAIAvailableCapacity-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SliceRadioResourceStatus-List ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF SliceRadioResourceStatus-Item

SliceRadioResourceStatus-Item ::= SEQUENCE {

plmn-Identity PLMN-Identity,

sNSSAIRadioResourceStatus-List SNSSAIRadioResourceStatus-List,

iE-Extensions ProtocolExtensionContainer { { SliceRadioResourceStatus-Item-ExtIEs} } OPTIONAL,

...

}

SliceRadioResourceStatus-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SLPositioning-Ranging-Services-Info::= SEQUENCE{

sLPositioning-Ranging-Authorized SLPositioning-Ranging-Authorized,

rSPP-transport-QoS-parameters RSPP-transport-QoS-parameters OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SLPositioning-Ranging-Services-Info-ExtIEs} } OPTIONAL

}

SLPositioning-Ranging-Services-Info-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SLPositioning-Ranging-Authorized ::= ENUMERATED {

authorized,

not-authorized,

...

}

RSPP-transport-QoS-parameters ::= SEQUENCE {

rSPPQoSFlowList RSPPQoSFlowList,

rSPPLinkAggregateBitRates BitRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RSPP-transport-QoS-parameters-ExtIEs} } OPTIONAL,

...

}

RSPP-transport-QoS-parameters-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

RSPPFlowBitRates ::= SEQUENCE {

guaranteedFlowBitRate BitRate,

maximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { RSPPFlowBitRates-ExtIEs} } OPTIONAL,

...

}

RSPPFlowBitRates-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNSSAIRadioResourceStatus-List ::= SEQUENCE (SIZE(1..maxnoofSliceItems)) OF SNSSAIRadioResourceStatus-Item

SNSSAIRadioResourceStatus-Item ::= SEQUENCE {

sNSSAI S-NSSAI,

slice-DL-GBR-PRB-Usage Slice-DL-GBR-PRB-Usage,

slice-UL-GBR-PRB-Usage Slice-UL-GBR-PRB-Usage,

slice-DL-non-GBR-PRB-Usage Slice-DL-non-GBR-PRB-Usage,

slice-UL-non-GBR-PRB-Usage Slice-UL-non-GBR-PRB-Usage,

slice-DL-Total-PRB-Allocation Slice-DL-Total-PRB-Allocation,

slice-UL-Total-PRB-Allocation Slice-UL-Total-PRB-Allocation,

iE-Extensions ProtocolExtensionContainer { { SNSSAIRadioResourceStatus-Item-ExtIEs} } OPTIONAL,

...

}

SNSSAIRadioResourceStatus-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Slice-DL-GBR-PRB-Usage ::= INTEGER (0..100)

Slice-UL-GBR-PRB-Usage ::= INTEGER (0..100)

Slice-DL-non-GBR-PRB-Usage ::= INTEGER (0..100)

Slice-UL-non-GBR-PRB-Usage ::= INTEGER (0..100)

Slice-DL-Total-PRB-Allocation ::= INTEGER (0..100)

Slice-UL-Total-PRB-Allocation ::= INTEGER (0..100)

SliceSupport-List ::= SEQUENCE (SIZE(1..maxnoofSliceItems)) OF S-NSSAI

SliceToReport-List ::= SEQUENCE (SIZE(1..maxnoofBPLMNs)) OF SliceToReport-List-Item

SliceToReport-List-Item ::= SEQUENCE {

pLMNIdentity PLMN-Identity,

sNSSAIlist SNSSAI-list,

iE-Extensions ProtocolExtensionContainer { { SliceToReport-List-Item-ExtIEs} } OPTIONAL,

...

}

SliceToReport-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNSSAI-list ::= SEQUENCE (SIZE(1.. maxnoofSliceItems)) OF SNSSAI-Item

SNSSAI-Item ::= SEQUENCE {

sNSSAI S-NSSAI,

iE-Extensions ProtocolExtensionContainer { { SNSSAI-Item-ExtIEs } } OPTIONAL

}

SNSSAI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SlotConfiguration-List ::= SEQUENCE (SIZE (1..maxnoofslots)) OF SlotConfiguration-List-Item

SlotConfiguration-List-Item ::= SEQUENCE {

slotIndex INTEGER (0..5119),

symbolAllocation-in-Slot SymbolAllocation-in-Slot,

iE-Extensions ProtocolExtensionContainer { {SlotConfiguration-List-Item-ExtIEs} } OPTIONAL,

...

}

SlotConfiguration-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

S-NG-RANnode-SecurityKey ::= BIT STRING (SIZE(256))

S-NG-RANnode-Addition-Trigger-Ind ::= ENUMERATED {

sn-change,

inter-MN-HO,

intra-MN-HO,

...

}

S-NSSAI ::= SEQUENCE {

sst OCTET STRING (SIZE(1)),

sd OCTET STRING (SIZE(3)) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {S-NSSAI-ExtIEs} } OPTIONAL,

...

}

S-NSSAI-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNMobilityInformation ::= BIT STRING (SIZE(32))

SNPNIdentity ::= SEQUENCE {

plmnID PLMN-Identity,

nid NID,

iE-Extensions ProtocolExtensionContainer { {SNPNIdentity-ExtIEs} } OPTIONAL,

...

}

SNPNIdentity-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNTriggered ::=ENUMERATED{

true,

...

}

SpecialSubframeInfo-E-UTRA ::= SEQUENCE {

specialSubframePattern SpecialSubframePatterns-E-UTRA,

cyclicPrefixDL CyclicPrefix-E-UTRA-DL,

cyclicPrefixUL CyclicPrefix-E-UTRA-UL,

iE-Extensions ProtocolExtensionContainer { {SpecialSubframeInfo-E-UTRA-ExtIEs} } OPTIONAL,

...

}

SpecialSubframeInfo-E-UTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SpecialSubframePatterns-E-UTRA ::= ENUMERATED {

ssp0,

ssp1,

ssp2,

ssp3,

ssp4,

ssp5,

ssp6,

ssp7,

ssp8,

ssp9,

ssp10,

...

}

SpectrumSharingGroupID ::= INTEGER (1..maxnoofCellsinNG-RANnode)

SplitSessionIndicator ::= ENUMERATED {

split,

...

}

SplitSRBsTypes ::= ENUMERATED {srb1, srb2, srb1and2, ...}

SPRAvailability ::= ENUMERATED {spr-available, ...}

SRSPositioningConfigOrActivationRequest::= ENUMERATED {true, ...}

SRSConfiguration ::= OCTET STRING

SSBAreaCapacityValue-List ::= SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBAreaCapacityValue-List-Item

SSBAreaCapacityValue-List-Item ::= SEQUENCE {

sSBIndex INTEGER(0..63),

ssbAreaCapacityValue INTEGER (0..100),

iE-Extensions ProtocolExtensionContainer { { SSBAreaCapacityValue-List-Item-ExtIEs} } OPTIONAL,

...

}

SSBAreaCapacityValue-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSBAreaRadioResourceStatus-List ::= SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBAreaRadioResourceStatus-List-Item

SSBAreaRadioResourceStatus-List-Item ::= SEQUENCE {

sSBIndex INTEGER(0..63),

ssb-Area-DL-GBR-PRB-usage DL-GBR-PRB-usage,

ssb-Area-UL-GBR-PRB-usage UL-GBR-PRB-usage,

ssb-Area-dL-non-GBR-PRB-usage DL-non-GBR-PRB-usage,

ssb-Area-uL-non-GBR-PRB-usage UL-non-GBR-PRB-usage,

ssb-Area-dL-Total-PRB-usage DL-Total-PRB-usage,

ssb-Area-uL-Total-PRB-usage UL-Total-PRB-usage,

iE-Extensions ProtocolExtensionContainer { { SSBAreaRadioResourceStatus-List-Item-ExtIEs} } OPTIONAL,

...

}

SSBAreaRadioResourceStatus-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-DL-scheduling-PDCCH-CCE-usage CRITICALITY ignore EXTENSION DL-scheduling-PDCCH-CCE-usage PRESENCE optional}|

{ ID id-UL-scheduling-PDCCH-CCE-usage CRITICALITY ignore EXTENSION UL-scheduling-PDCCH-CCE-usage PRESENCE optional},

...

}

SSB-Coverage-Modification-List ::= SEQUENCE (SIZE (0..maxnoofSSBAreas)) OF SSB-Coverage-Modification-List-Item

SSB-Coverage-Modification-List-Item ::= SEQUENCE {

sSBIndex INTEGER(0..63),

sSBCoverageState INTEGER (0..15, ...),

iE-Extension ProtocolExtensionContainer { { SSB-Coverage-Modification-List-Item-ExtIEs} } OPTIONAL,

...

}

SSB-Coverage-Modification-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSB-PositionsInBurst ::= CHOICE {

shortBitmap BIT STRING (SIZE (4)),

mediumBitmap BIT STRING (SIZE (8)),

longBitmap BIT STRING (SIZE (64)),

choice-extension ProtocolIE-Single-Container { {SSB-PositionsInBurst-ExtIEs} }

}

SSB-PositionsInBurst-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SSB-freqInfo ::= INTEGER (0..maxNRARFCN)

SSB-subcarrierSpacing ::= ENUMERATED {kHz15, kHz30, kHz120, kHz240, spare3, spare2, spare1, ...}

SSBOffsets-List ::= SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBOffsets-Item

SSBOffsets-Item ::= SEQUENCE {

nG-RANnode1SSBOffsets SSBOffsetInformation OPTIONAL,

nG-RANnode2ProposedSSBOffsets SSBOffsetInformation,

iE-Extensions ProtocolExtensionContainer { { SSBOffsets-Item-ExtIEs} } OPTIONAL,

...

}

SSBOffsets-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSBOffsetInformation ::= SEQUENCE {

sSBIndex INTEGER(0..63),

sSBTriggeringOffset MobilityParametersInformation,

iE-Extensions ProtocolExtensionContainer { { SSBOffsetInformation-ExtIEs} } OPTIONAL,

...

}

SSBOffsetInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSBOffsetModificationRange ::= SEQUENCE {

sSBIndex INTEGER(0..63),

sSBobilityParametersModificationRange MobilityParametersModificationRange,

iE-Extensions ProtocolExtensionContainer { { SSBOffsetModificationRange-ExtIEs} } OPTIONAL,

...

}

SSBOffsetModificationRange-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSBToReport-List ::= SEQUENCE (SIZE(1..maxnoofSSBAreas)) OF SSBToReport-List-Item

SSBToReport-List-Item ::= SEQUENCE {

sSBIndex INTEGER(0..63),

iE-Extensions ProtocolExtensionContainer { { SSBToReport-List-Item-ExtIEs} } OPTIONAL,

...

}

SSBToReport-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SSB-transmissionPeriodicity ::= ENUMERATED {sf10, sf20, sf40, sf80, sf160, sf320, sf640, ..., sf5}

SSB-transmissionTimingOffset ::= INTEGER (0..127, ...)

SSB-transmissionBitmap ::= CHOICE {

shortBitmap BIT STRING (SIZE (4)),

mediumBitmap BIT STRING (SIZE (8)),

longBitmap BIT STRING (SIZE (64)),

choice-extension ProtocolIE-Single-Container { { SSB-transmisisonBitmap-ExtIEs} }

}

SSB-transmisisonBitmap-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SuccessfulHOReportInformation ::= SEQUENCE (SIZE(1.. maxnoofSuccessfulHOReports)) OF SuccessfulHOReportList-Item

SuccessfulHOReportList-Item ::= SEQUENCE {

successfulHOReport SuccessfulHOReportContainer,

iE-Extensions ProtocolExtensionContainer { { SuccessfulHOReportList-Item-ExtIEs} } OPTIONAL,

...

}

SuccessfulHOReportList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SuccessfulHOReportContainer ::= OCTET STRING

SuccessfulPSCellChangeReportInformation ::= SEQUENCE (SIZE(1.. maxnoofSuccessfulPSCellChangeReports)) OF SuccessfulPSCellChangeReportList-Item

SuccessfulPSCellChangeReportList-Item ::= SEQUENCE {

successfulPSCellChangeReport SuccessfulPSCellChangeReportContainer,

sNMobilityInformation SNMobilityInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SuccessfulPSCellChangeReportList-Item-ExtIEs} } OPTIONAL,

...

}

SuccessfulPSCellChangeReportList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SuccessfulPSCellChangeReportContainer ::= OCTET STRING

SUL-FrequencyBand ::= INTEGER (1..1024)

SUL-Information ::= SEQUENCE {

sulFrequencyInfo NRARFCN,

sulTransmissionBandwidth NRTransmissionBandwidth,

iE-Extensions ProtocolExtensionContainer { {SUL-Information-ExtIEs} } OPTIONAL,

...

}

SUL-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CarrierList CRITICALITY ignore EXTENSION NRCarrierList PRESENCE optional }|

{ ID id-FrequencyShift7p5khz CRITICALITY ignore EXTENSION FrequencyShift7p5khz PRESENCE optional },

...

}

Supported-MBS-FSA-ID-List ::= SEQUENCE (SIZE(1..maxnoofMBSFSAs)) OF MBS-FrequencySelectionArea-Identity

SupportedSULBandList ::= SEQUENCE (SIZE(1..maxnoofNRCellBands)) OF SupportedSULBandItem

SupportedSULBandItem ::= SEQUENCE {

sulBandItem SUL-FrequencyBand,

iE-Extensions ProtocolExtensionContainer { {SupportedSULBandItem-ExtIEs} } OPTIONAL,

...

}

SupportedSULBandItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SurvivalTime ::= INTEGER (0..1920000, ...)

SymbolAllocation-in-Slot ::= CHOICE {

allDL SymbolAllocation-in-Slot-AllDL,

allUL SymbolAllocation-in-Slot-AllUL,

bothDLandUL SymbolAllocation-in-Slot-BothDLandUL,

choice-extension ProtocolIE-Single-Container { {SymbolAllocation-in-Slot-ExtIEs} }

}

SymbolAllocation-in-Slot-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

SymbolAllocation-in-Slot-AllDL ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {SymbolAllocation-in-Slot-AllDL-ExtIEs} } OPTIONAL,

...

}

SymbolAllocation-in-Slot-AllDL-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SymbolAllocation-in-Slot-AllUL ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {SymbolAllocation-in-Slot-AllUL-ExtIEs} } OPTIONAL,

...

}

SymbolAllocation-in-Slot-AllUL-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SymbolAllocation-in-Slot-BothDLandUL ::= SEQUENCE {

numberofDLSymbols INTEGER (0..13),

numberofULSymbols INTEGER (0..13),

iE-Extension ProtocolExtensionContainer { {SymbolAllocation-in-Slot-BothDLandUL-ExtIEs} } OPTIONAL,

...

}

SymbolAllocation-in-Slot-BothDLandUL-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-permutation CRITICALITY ignore EXTENSION Permutation PRESENCE optional },

...

}

SNPN-CellBasedMDT::= SEQUENCE {

sNPN-CellIdListforMDT SNPN-CellIdListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-CellBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-CellBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-CellIdListforMDT ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF SNPN-CellIdforMDT-Item

SNPN-CellIdforMDT-Item ::= SEQUENCE {

nRCGI NR-CGI,

nID NID,

iE-Extensions ProtocolExtensionContainer { {SNPN-CellIdforMDT-Item-ExtIEs} } OPTIONAL,

...

}

SNPN-CellIdforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-TAIBasedMDT ::= SEQUENCE {

sNPN-TAIListforMDT SNPN-TAIListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-TAIBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-TAIBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-TAIListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF SNPN-TAIforMDT-Item

SNPN-TAIforMDT-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

tAC TAC,

nID NID,

iE-Extensions ProtocolExtensionContainer { {SNPN-TAIforMDT-Item-ExtIEs} } OPTIONAL,

...

}

SNPN-TAIforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-BasedMDT::= SEQUENCE {

sNPNListforMDT SNPNListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-BasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-BasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPNListforMDT ::= SEQUENCE (SIZE(1.. maxnoofMDTSNPNs)) OF SNPNforMDT-Item

SNPNforMDT-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

nID NID,

iE-Extensions ProtocolExtensionContainer {{SNPNforMDT-Item-ExtIEs}} OPTIONAL,

...

}

SNPNforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SubcarrierSpacing ::= ENUMERATED {kHz15, kHz30, kHz120, kHz240, spare3, spare2, spare1, ..., kHz60}

-- T

TABasedMDT ::= SEQUENCE {

tAListforMDT TAListforMDT,

iE-Extensions ProtocolExtensionContainer { {TABasedMDT-ExtIEs} } OPTIONAL,

...

}

TABasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAIBasedMDT ::= SEQUENCE {

tAIListforMDT TAIListforMDT,

iE-Extensions ProtocolExtensionContainer { {TAIBasedMDT-ExtIEs} } OPTIONAL,

...

}

TAIBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF TAIforMDT-Item

TAIforMDT-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

tAC TAC,

iE-Extensions ProtocolExtensionContainer { {TAIforMDT-Item-ExtIEs} } OPTIONAL,

...

}

TAIforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAC ::= OCTET STRING (SIZE (3))

TAINSAGSupportList ::= SEQUENCE (SIZE(1..maxnoofNSAGs)) OF TAINSAGSupportItem

TAINSAGSupportItem ::= SEQUENCE {

nSAG-ID NSAG-ID,

nSAGSliceSupportList ExtendedSliceSupportList,

iE-Extensions ProtocolExtensionContainer { {TAINSAGSupportItem-ExtIEs} } OPTIONAL,

...

}

TAINSAGSupportItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAISliceUnavailableCellList ::= SEQUENCE (SIZE(1..maxnoofExtSliceItems)) OF TAISliceUnavailableCellItem

TAISliceUnavailableCellItem ::= SEQUENCE {

sNSSAI S-NSSAI,

sliceAvailabilityList SliceAvailabilityList,

iE-Extensions ProtocolExtensionContainer { {TAISliceUnavailableCellItem-ExtIEs} } OPTIONAL,

...

}

TAISliceUnavailableCellItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SliceAvailabilityList ::= CHOICE {

unavailableCellList UnavailableCellList,

availableCellList AvailableCellList,

choice-extension ProtocolIE-Single-Container { {SliceAvailabilityList-ExtIEs} },

...

}

SliceAvailabilityList-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

AvailableCellList ::= SEQUENCE {

availableNRCellList AvailableNRCellList,

iE-Extensions ProtocolExtensionContainer { {AvailableCellList-ExtIEs} } OPTIONAL,

...

}

AvailableCellList-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

AvailableNRCellList ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF NR-CGI

UnavailableCellList ::= SEQUENCE {

unavailableNRCellList UnavailableNRCellList,

iE-Extensions ProtocolExtensionContainer { {UnavailableCellList-ExtIEs} } OPTIONAL,

...

}

UnavailableCellList-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UnavailableNRCellList ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF NR-CGI

TAISupport-List ::= SEQUENCE (SIZE(1..maxnoofsupportedTACs)) OF TAISupport-Item

TAISupport-Item ::= SEQUENCE {

tac TAC,

broadcastPLMNs SEQUENCE (SIZE(1..maxnoofsupportedPLMNs)) OF BroadcastPLMNinTAISupport-Item,

iE-Extensions ProtocolExtensionContainer { {TAISupport-Item-ExtIEs} } OPTIONAL,

...

}

TAISupport-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF TAC

TABasedQMC ::= SEQUENCE {

tAListforQMC TAListforQMC,

iE-Extensions ProtocolExtensionContainer { {TABasedQMC-ExtIEs} } OPTIONAL,

...

}

TABasedQMC-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAListforQMC ::= SEQUENCE (SIZE(1..maxnoofTAforQMC)) OF TAC

TAIBasedQMC ::= SEQUENCE {

tAIListforQMC TAIListforQMC,

iE-Extensions ProtocolExtensionContainer { {TAIBasedQMC-ExtIEs} } OPTIONAL,

...

}

TAIBasedQMC-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TAIListforQMC ::= SEQUENCE (SIZE(1..maxnoofTAforQMC)) OF TAI-Item

TAI-Item ::= SEQUENCE {

tAC TAC,

pLMN-Identity PLMN-Identity,

iE-Extensions ProtocolExtensionContainer { {TAI-Item-ExtIEs} } OPTIONAL,

...

}

TAI-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TargetCellinEUTRAN ::= OCTET STRING -- This IE is to be encoded according to *Global Cell ID* in the *Last Visited E-UTRAN Cell Information* IE, as defined in TS 36.413 [31]

Target-CGI ::= CHOICE {

nr NR-CGI,

e-utra E-UTRA-CGI,

choice-extension ProtocolIE-Single-Container { {TargetCGI-ExtIEs} }

}

TargetCGI-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

TDDULDLConfigurationCommonNR ::= OCTET STRING

TargetCellList ::= SEQUENCE (SIZE(1..maxnoofCHOcells)) OF TargetCellList-Item

TargetCellList-Item ::= SEQUENCE {

target-cell Target-CGI,

iE-Extensions ProtocolExtensionContainer { { TargetCellList-Item-ExtIEs} } OPTIONAL

}

TargetCellList-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Threshold-RSRQ ::= INTEGER(0..127)

Threshold-RSRP ::= INTEGER(0..127)

Threshold-SINR ::= INTEGER(0..127)

TimeSinceFailure ::= INTEGER (0..172800, ...)

TimeSynchronizationAssistanceInformation ::= SEQUENCE {

timeDistributionIndication ENUMERATED {enabled, disabled, ...},

uuTimeSynchronizationErrorBudget INTEGER (0..1000000, ...) OPTIONAL,

-- This IE shall be present if the *Time Distribution Indication* IE is set to “enabled”.

ie-Extension ProtocolExtensionContainer { { TimeSynchronizationAssistanceInformation-ExtIEs} } OPTIONAL,

...

}

TimeSynchronizationAssistanceInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ClockQualityReportingControlInfo CRITICALITY ignore EXTENSION ClockQualityReportingControlInfo PRESENCE optional},

...

}

TimeToTrigger ::= ENUMERATED {ms0, ms40, ms64, ms80, ms100, ms128, ms160, ms256, ms320, ms480, ms512, ms640, ms1024, ms1280, ms2560, ms5120}

TimeToWait ::= ENUMERATED {

v1s,

v2s,

v5s,

v10s,

v20s,

v60s,

...

}

TMGI ::= OCTET STRING (SIZE(6))

TNLConfigurationInfo ::= SEQUENCE {

extendedUPTransportLayerAddressesToAdd ExtTLAs OPTIONAL,

extendedUPTransportLayerAddressesToRemove ExtTLAs OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TNLConfigurationInfo-ExtIEs} } OPTIONAL,

...

}

TNLConfigurationInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLA-To-Add-List ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLA-To-Add-Item

TNLA-To-Add-Item ::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

tNLAssociationUsage TNLAssociationUsage,

iE-Extensions ProtocolExtensionContainer { { TNLA-To-Add-Item-ExtIEs} } OPTIONAL

}

TNLA-To-Add-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLA-To-Update-List ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLA-To-Update-Item

TNLA-To-Update-Item::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

tNLAssociationUsage TNLAssociationUsage OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { TNLA-To-Update-Item-ExtIEs} } OPTIONAL

}

TNLA-To-Update-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLA-To-Remove-List ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLA-To-Remove-Item

TNLA-To-Remove-Item::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { { TNLA-To-Remove-Item-ExtIEs} } OPTIONAL

}

TNLA-To-Remove-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLA-Setup-List ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLA-Setup-Item

TNLA-Setup-Item ::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer { { TNLA-Setup-Item-ExtIEs} } OPTIONAL,

...

}

TNLA-Setup-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLA-Failed-To-Setup-List ::= SEQUENCE (SIZE(1..maxnoofTNLAssociations)) OF TNLA-Failed-To-Setup-Item

TNLA-Failed-To-Setup-Item ::= SEQUENCE {

tNLAssociationTransportLayerAddress CPTransportLayerInformation,

cause Cause,

iE-Extensions ProtocolExtensionContainer { { TNLA-Failed-To-Setup-Item-ExtIEs} } OPTIONAL

}

TNLA-Failed-To-Setup-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TNLAssociationUsage ::= ENUMERATED {

ue,

non-ue,

both,

...

}

TransportLayerAddress ::= BIT STRING (SIZE(1..160, ...))

TraceActivation ::= SEQUENCE {

ng-ran-TraceID NG-RANTraceID,

interfaces-to-trace BIT STRING { ng-c (0), x-nc (1), uu (2), f1-c (3), e1 (4)} (SIZE(8)),

trace-depth Trace-Depth,

trace-coll-address TransportLayerAddress,

ie-Extension ProtocolExtensionContainer { {TraceActivation-ExtIEs} } OPTIONAL,

...

}

TraceActivation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

-- Extension to support MDT –

{ ID id-TraceCollectionEntityURI CRITICALITY ignore EXTENSION URIaddress PRESENCE optional}|

{ ID id-MDT-Configuration CRITICALITY ignore EXTENSION MDT-Configuration PRESENCE optional},

...

}

Trace-Depth ::= ENUMERATED {

minimum,

medium,

maximum,

minimumWithoutVendorSpecificExtension,

mediumWithoutVendorSpecificExtension,

maximumWithoutVendorSpecificExtension,

...

}

TrafficIndex ::= INTEGER (1..1024, ...)

TrafficProfile ::= CHOICE {

uPTraffic QoSFlowLevelQoSParameters,

nonUPTraffic NonUPTraffic,

choice-extension ProtocolIE-Single-Container { {TrafficProfile-ExtIEs} }

}

TrafficProfile-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

TrafficReleaseType ::= CHOICE {

fullRelease AllTrafficIndication,

partialRelease TrafficToBeRelease-List,

choice-extension ProtocolIE-Single-Container { {TrafficReleaseType-ExtIEs} }

}

TrafficReleaseType-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

TrafficToBeReleaseInformation ::= SEQUENCE {

releaseType TrafficReleaseType,

ie-Extensions ProtocolExtensionContainer { {TrafficToBeReleaseInformation-ExtIEs} } OPTIONAL,

...

}

TrafficToBeReleaseInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TrafficToBeRelease-List ::= SEQUENCE (SIZE(1..maxnoofTrafficIndexEntries)) OF TrafficToBeRelease-Item

TrafficToBeRelease-Item ::= SEQUENCE {

trafficIndex TrafficIndex,

bHInfoList BHInfoList OPTIONAL,

iE-Extension ProtocolExtensionContainer { {TrafficToBeRelease-Item-ExtIEs} } OPTIONAL,

...

}

TrafficToBeRelease-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TSCTrafficCharacteristics ::= SEQUENCE {

tSCAssistanceInformationDownlink TSCAssistanceInformation OPTIONAL,

tSCAssistanceInformationUplink TSCAssistanceInformation OPTIONAL,

ie-Extension ProtocolExtensionContainer { {TSCTrafficCharacteristics-ExtIEs} } OPTIONAL,

...

}

TSCTrafficCharacteristics-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

TSCAssistanceInformation ::= SEQUENCE {

periodicity INTEGER (0.. 640000, ...),

burstArrivalTime OCTET STRING OPTIONAL,

ie-Extension ProtocolExtensionContainer { { TSCAssistanceInformation-ExtIEs} } OPTIONAL,

...

}

TSCAssistanceInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SurvivalTime CRITICALITY ignore EXTENSION SurvivalTime PRESENCE optional}|

{ ID id-CapabilityForBATAdaptation CRITICALITY ignore EXTENSION CapabilityForBATAdaptation PRESENCE optional}|

{ ID id-N6JitterInformation CRITICALITY ignore EXTENSION N6JitterInformation PRESENCE optional},

...

}

TypeOfError ::= ENUMERATED {

not-understood,

missing,

...

}

-- U

UEAggregateMaximumBitRate ::= SEQUENCE {

dl-UE-AMBR BitRate,

ul-UE-AMBR BitRate,

iE-Extension ProtocolExtensionContainer { {UEAggregateMaximumBitRate-ExtIEs} } OPTIONAL,

...

}

UEAggregateMaximumBitRate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEAppLayerMeasConfigInfo ::= SEQUENCE {

qOEReference QOEReference,

qOEMeasConfigAppLayerID QOEMeasConfAppLayerID OPTIONAL,

serviceType ServiceType,

qOEMeasStatus QOEMeasStatus OPTIONAL,

containerAppLayerMeasConfig ContainerAppLayerMeasConfig OPTIONAL,

mDTAlignmentInfo MDTAlignmentInfo OPTIONAL,

measCollectionEntityIPAddress MeasCollectionEntityIPAddress OPTIONAL,

areaScopeOfQMC AreaScopeOfQMC OPTIONAL,

s-NSSAIListQoE S-NSSAIListQoE OPTIONAL,

availableRVQoEMetrics AvailableRVQoEMetrics OPTIONAL,

iE-Extension ProtocolExtensionContainer { {UEAppLayerMeasConfigInfo-ExtIEs} } OPTIONAL,

...

}

UEAppLayerMeasConfigInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-MBSCommServiceType CRITICALITY ignore EXTENSION MBSCommServiceType PRESENCE optional }|

{ ID id-AssistanceInformationQoE-Meas CRITICALITY ignore EXTENSION AssistanceInformationQoE-Meas PRESENCE optional }|

{ ID id-QoERVQoEReportingPaths CRITICALITY ignore EXTENSION QoERVQoEReportingPaths PRESENCE optional },

...

}

UEContextKeptIndicator ::= ENUMERATED {true, ...}

UEContextID ::= CHOICE {

rRCResume UEContextIDforRRCResume,

rRRCReestablishment UEContextIDforRRCReestablishment,

choice-extension ProtocolIE-Single-Container { {UEContextID-ExtIEs} }

}

UEContextID-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UEContextIDforRRCResume ::= SEQUENCE {

i-rnti I-RNTI,

allocated-c-rnti C-RNTI,

accessPCI NG-RAN-CellPCI,

iE-Extension ProtocolExtensionContainer { {UEContextIDforRRCResume-ExtIEs} } OPTIONAL,

...

}

UEContextIDforRRCResume-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEContextIDforRRCReestablishment ::= SEQUENCE {

c-rnti C-RNTI,

failureCellPCI NG-RAN-CellPCI,

iE-Extension ProtocolExtensionContainer { {UEContextIDforRRCReestablishment-ExtIEs} } OPTIONAL,

...

}

UEContextIDforRRCReestablishment-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEContextInfoRetrUECtxtResp ::= SEQUENCE {

ng-c-UE-signalling-ref AMF-UE-NGAP-ID,

signalling-TNL-at-source CPTransportLayerInformation,

ueSecurityCapabilities UESecurityCapabilities,

securityInformation AS-SecurityInformation,

ue-AMBR UEAggregateMaximumBitRate,

pduSessionResourcesToBeSetup-List PDUSessionResourcesToBeSetup-List,

rrc-Context OCTET STRING,

mobilityRestrictionList MobilityRestrictionList OPTIONAL,

indexToRatFrequencySelectionPriority RFSP-Index OPTIONAL,

iE-Extension ProtocolExtensionContainer { {UEContextInfoRetrUECtxtResp-ExtIEs} } OPTIONAL,

...

}

UEContextInfoRetrUECtxtResp-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-FiveGCMobilityRestrictionListContainer CRITICALITY ignore EXTENSION FiveGCMobilityRestrictionListContainer PRESENCE optional }|

{ ID id-NRUESidelinkAggregateMaximumBitRate CRITICALITY ignore EXTENSION NRUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-LTEUESidelinkAggregateMaximumBitRate CRITICALITY ignore EXTENSION LTEUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-UERadioCapabilityID CRITICALITY reject EXTENSION UERadioCapabilityID PRESENCE optional }|

{ ID id-MBS-SessionInformation-List CRITICALITY ignore EXTENSION MBS-SessionInformation-List PRESENCE optional }|

{ ID id-NoPDUSessionIndication CRITICALITY ignore EXTENSION NoPDUSessionIndication PRESENCE optional }|

{ ID id-FiveGProSeUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION NRUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-UESliceMaximumBitRateList CRITICALITY ignore EXTENSION UESliceMaximumBitRateList PRESENCE optional }|

{ ID id-PositioningInformation CRITICALITY ignore EXTENSION PositioningInformation PRESENCE optional }|

{ ID id-NRA2XUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION NRUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-LTEA2XUEPC5AggregateMaximumBitRate CRITICALITY ignore EXTENSION LTEUESidelinkAggregateMaximumBitRate PRESENCE optional }|

{ ID id-NRPPaPositioningInformation CRITICALITY ignore EXTENSION NRPPaPositioningInformation PRESENCE optional },

...

}

UEHistoryInformation ::= SEQUENCE (SIZE(1..maxnoofCellsinUEHistoryInfo)) OF LastVisitedCell-Item

UEHistoryInformationFromTheUE ::= CHOICE {

nR NRMobilityHistoryReport,

choice-extension ProtocolIE-Single-Container { {UEHistoryInformationFromTheUE-ExtIEs} }

}

UEHistoryInformationFromTheUE-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UEIdentityIndexValue ::= CHOICE {

indexLength10 BIT STRING (SIZE(10)),

choice-extension ProtocolIE-Single-Container { {UEIdentityIndexValue-ExtIEs} }

}

UEIdentityIndexValue-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UEIdentityIndexList-MBSGroupPaging ::= SEQUENCE (SIZE(1..maxnoofUEIDIndicesforMBSPaging)) OF UEIdentityIndexList-MBSGroupPaging-Item

UEIdentityIndexList-MBSGroupPaging-Item ::= SEQUENCE {

ueIdentityIndexList-MBSGroupPagingValue UEIdentityIndexList-MBSGroupPagingValue,

pagingDRX UESpecificDRX OPTIONAL,

iE-Extension ProtocolExtensionContainer { {UEIdentityIndexList-MBSGroupPaging-Item-ExtIEs} } OPTIONAL,

...

}

UEIdentityIndexList-MBSGroupPaging-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEIdentityIndexList-MBSGroupPagingValue ::= CHOICE {

uEIdentityIndexValueMBSGroupPaging BIT STRING (SIZE(10)),

choice-extension ProtocolIE-Single-Container { {UEIdentityIndexValueMBSGroupPaging-ExtIEs} }

}

UEIdentityIndexValueMBSGroupPaging-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UERadioCapabilityForPaging ::= SEQUENCE {

uERadioCapabilityForPagingOfNR UERadioCapabilityForPagingOfNR OPTIONAL,

uERadioCapabilityForPagingOfEUTRA UERadioCapabilityForPagingOfEUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {UERadioCapabilityForPaging-ExtIEs} } OPTIONAL,

...

}

UERadioCapabilityForPaging-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UERadioCapabilityForPagingOfNR ::= OCTET STRING

UERadioCapabilityForPagingOfEUTRA ::= OCTET STRING

UERadioCapabilityID ::= OCTET STRING

UERANPagingIdentity ::= CHOICE {

i-RNTI-full BIT STRING ( SIZE (40)),

choice-extension ProtocolIE-Single-Container { {UERANPagingIdentity-ExtIEs} }

}

UERANPagingIdentity-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UERLFReportContainer ::= CHOICE {

nR-UERLFReportContainer UERLFReportContainerNR,

lTE-UERLFReportContainer UERLFReportContainerLTE,

choice-Extension ProtocolIE-Single-Container { {UERLFReportContainer-ExtIEs} }

}

UERLFReportContainer-ExtIEs XNAP-PROTOCOL-IES ::= {

{ID id-UERLFReportContainerLTEExtension CRITICALITY ignore TYPE UERLFReportContainerLTEExtension PRESENCE mandatory},

...

}

UERLFReportContainerLTE ::= OCTET STRING

-- This IE is a transparent container and includes the *rlf-Report-r9* contained in the *UEInformationResponse* message as defined in TS 36.331 [14].

UERLFReportContainerLTEExtension ::= SEQUENCE {

ueRLFReportContainerLTE UERLFReportContainerLTE,

ueRLFReportContainerLTEExtendBand UERLFReportContainerLTEExtendBand,

iE-Extensions ProtocolExtensionContainer { { UERLFReportContainerLTEExtension-ExtIEs} } OPTIONAL,

...

}

UERLFReportContainerLTEExtendBand ::= OCTET STRING

-- This IE is a transparent container and includes the *rlf-Report-v9e0* contained in the *UEInformationResponse* message as defined in TS 36.331 [14].

UERLFReportContainerLTEExtension-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UERLFReportContainerNR ::= OCTET STRING

-- This IE is a transparent container and includes the *nr-RLF-Report* IE contained in the *UEInformationResponse* message as defined in TS 38.331 [10].

UESliceMaximumBitRateList ::= SEQUENCE (SIZE(1.. maxnoofSMBR)) OF UESliceMaximumBitRate-Item

UESliceMaximumBitRate-Item ::= SEQUENCE {

s-NSSAI S-NSSAI,

dl-UE-Slice-MBR BitRate,

ul-UE-Slice-MBR BitRate,

iE-Extensions ProtocolExtensionContainer { { UESliceMaximumBitRate-Item-ExtIEs} } OPTIONAL,

...

}

UESliceMaximumBitRate-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UESecurityCapabilities ::= SEQUENCE {

nr-EncyptionAlgorithms BIT STRING {nea1-128(1),

nea2-128(2),

nea3-128(3)} (SIZE(16, ...)),

nr-IntegrityProtectionAlgorithms BIT STRING {nia1-128(1),

nia2-128(2),

nia3-128(3)} (SIZE(16, ...)),

e-utra-EncyptionAlgorithms BIT STRING {eea1-128(1),

eea2-128(2),

eea3-128(3)} (SIZE(16, ...)),

e-utra-IntegrityProtectionAlgorithms BIT STRING {eia1-128(1),

eia2-128(2),

eia3-128(3)} (SIZE(16, ...)),

iE-Extension ProtocolExtensionContainer { {UESecurityCapabilities-ExtIEs} } OPTIONAL,

...

}

UESecurityCapabilities-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UESpecificDRX ::= ENUMERATED {

v32,

v64,

v128,

v256,

...

}

ULConfiguration::= SEQUENCE {

uL-PDCP UL-UE-Configuration,

iE-Extensions ProtocolExtensionContainer { {ULConfiguration-ExtIEs} } OPTIONAL,

...

}

ULConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UL-UE-Configuration::= ENUMERATED {no-data, shared, only, ...}

ULF1Terminating-BHInfo ::= SEQUENCE {

ingressBAPRoutingID BAPRoutingID,

ingressBHRLCCHID BHRLCChannelID,

iE-Extensions ProtocolExtensionContainer { { ULF1Terminating-BHInfo-ExtIEs} } OPTIONAL,

...

}

ULF1Terminating-BHInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ULNonF1Terminating-BHInfo ::= SEQUENCE {

egressBAPRoutingID BAPRoutingID,

egressBHRLCCHID BHRLCChannelID,

nexthopBAPAddress BAPAddress,

iE-Extensions ProtocolExtensionContainer { { ULNonF1Terminating-BHInfo-ExtIEs} } OPTIONAL,

...

}

ULNonF1Terminating-BHInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ULForwarding ::= ENUMERATED {ul-forwarding-proposed, ...}

ULForwardingProposal ::= ENUMERATED {ul-forwarding-proposed, ...}

UL-GBR-PRB-usage::= INTEGER (0..100)

UL-GBR-PRB-usage-for-MIMO::= INTEGER (0..100)

UL-non-GBR-PRB-usage::= INTEGER (0..100)

UL-non-GBR-PRB-usage-for-MIMO::= INTEGER (0..100)

UL-Total-PRB-usage::= INTEGER (0..100)

UL-Total-PRB-usage-for-MIMO::= INTEGER (0..100)

UPTransportLayerInformation ::= CHOICE {

gtpTunnel GTPtunnelTransportLayerInformation,

choice-extension ProtocolIE-Single-Container { {UPTransportLayerInformation-ExtIEs} }

}

UPTransportLayerInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

UPTransportParameters ::= SEQUENCE (SIZE(1..maxnoofSCellGroupsplus1)) OF UPTransportParametersItem

UPTransportParametersItem ::= SEQUENCE {

upTNLInfo UPTransportLayerInformation,

cellGroupID CellGroupID,

iE-Extension ProtocolExtensionContainer { {UPTransportParametersItem-ExtIEs} } OPTIONAL,

...

}

UPTransportParametersItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UserPlaneErrorIndicator ::= ENUMERATED {gtpu-error-indication-received, ...}

UserPlaneTrafficActivityReport ::= ENUMERATED {inactive, re-activated, ...}

UserPlaneFailureIndication ::= SEQUENCE {

userPlaneFailureType UserPlaneFailureType,

dL-NG-U-TNLatNG-RAN UPTransportLayerInformation,

uL-NG-U-TNLatNG-RAN UPTransportLayerInformation,

iE-Extensions ProtocolExtensionContainer {{ UserPlaneFailureIndication-ExtIEs} } OPTIONAL,

...

}

UserPlaneFailureIndication-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UserPlaneFailureType ::= ENUMERATED {

gtp-u-error-indication-received,

up-path-failure,

...

}

URIaddress ::= VisibleString

UEAssociatedInfoResult-List ::= SEQUENCE (SIZE(1..maxnoofUEReports)) OF UEAssociatedInfoResult-Item

UEAssociatedInfoResult-Item ::= SEQUENCE {

uEAssistantIdentifier NG-RANnodeUEXnAPID,

uEPerformance UEPerformance OPTIONAL,

measuredUETrajectory MeasuredUETrajectory OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UEAssociatedInfoResult-Item-ExtIEs} } OPTIONAL,

...

}

UEAssociatedInfoResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEPerformance ::= SEQUENCE {

dL-UE-AverageThroughput BitRate OPTIONAL,

uL-UE-AverageThroughput BitRate OPTIONAL,

uE-AveragePacketDelay AveragePacketDelay OPTIONAL,

uE-AveragePacketLossDL PacketLossRate OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UEPerformance-ExtIEs} } OPTIONAL,

...

}

UEPerformance-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UEPerformanceCollectionConfiguration ::= SEQUENCE {

collectionTimeDurationForUEPerformance INTEGER(1..5000, ...),

iE-Extensions ProtocolExtensionContainer { { UEPerformanceCollectionConfiguration-ExtIEs} } OPTIONAL,

...

}

UEPerformanceCollectionConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

UETrajectoryCollectionConfiguration ::= SEQUENCE {

collectionTimeDurationForUETrajectory INTEGER (1..4096, ...),

numberOfVisitedCells INTEGER (1..16, ...) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { UETrajectoryCollectionConfiguration-ExtIEs} } OPTIONAL,

...

}

UETrajectoryCollectionConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- V

VehicleUE ::= ENUMERATED {

authorized,

not-authorized,

...

}

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

-- W

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

WLANMeasConfigNameList ::= SEQUENCE (SIZE(1..maxnoofWLANName)) OF WLANName

WLANMeasConfig::= ENUMERATED {setup,...}

WLANName ::= OCTET STRING (SIZE (1..32))

-- X

XnBenefitValue ::= INTEGER (1..8, ...)

XR-Bcast-Information ::= ENUMERATED {true,...}

-- Y

-- Z

END

-- ASN1STOP

9.3.6 Common definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Common definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XnAP-CommonDataTypes {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) xnap (2) version1 (1) xnap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Extension constants

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Common Data Types

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Criticality ::= ENUMERATED { reject, ignore, notify }

Presence ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID ::= CHOICE {

local INTEGER (0.. maxPrivateIEs),

global OBJECT IDENTIFIER

}

ProcedureCode ::= INTEGER (0..255)

ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs)

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome}

END

-- ASN1STOP

9.3.7 Constant definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Constant definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XnAP-Constants {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) xnap (2) version1 (1) xnap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM XnAP-CommonDataTypes;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Elementary Procedures

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-handoverPreparation ProcedureCode ::= 0

id-sNStatusTransfer ProcedureCode ::= 1

id-handoverCancel ProcedureCode ::= 2

id-retrieveUEContext ProcedureCode ::= 3

id-rANPaging ProcedureCode ::= 4

id-xnUAddressIndication ProcedureCode ::= 5

id-uEContextRelease ProcedureCode ::= 6

id-sNGRANnodeAdditionPreparation ProcedureCode ::= 7

id-sNGRANnodeReconfigurationCompletion ProcedureCode ::= 8

id-mNGRANnodeinitiatedSNGRANnodeModificationPreparation ProcedureCode ::= 9

id-sNGRANnodeinitiatedSNGRANnodeModificationPreparation ProcedureCode ::= 10

id-mNGRANnodeinitiatedSNGRANnodeRelease ProcedureCode ::= 11

id-sNGRANnodeinitiatedSNGRANnodeRelease ProcedureCode ::= 12

id-sNGRANnodeCounterCheck ProcedureCode ::= 13

id-sNGRANnodeChange ProcedureCode ::= 14

id-rRCTransfer ProcedureCode ::= 15

id-xnRemoval ProcedureCode ::= 16

id-xnSetup ProcedureCode ::= 17

id-nGRANnodeConfigurationUpdate ProcedureCode ::= 18

id-cellActivation ProcedureCode ::= 19

id-reset ProcedureCode ::= 20

id-errorIndication ProcedureCode ::= 21

id-privateMessage ProcedureCode ::= 22

id-notificationControl ProcedureCode ::= 23

id-activityNotification ProcedureCode ::= 24

id-e-UTRA-NR-CellResourceCoordination ProcedureCode ::= 25

id-secondaryRATDataUsageReport ProcedureCode ::= 26

id-deactivateTrace ProcedureCode ::= 27

id-traceStart ProcedureCode ::= 28

id-handoverSuccess ProcedureCode ::= 29

id-conditionalHandoverCancel ProcedureCode ::= 30

id-earlyStatusTransfer ProcedureCode ::= 31

id-failureIndication ProcedureCode ::= 32

id-handoverReport ProcedureCode ::= 33

id-resourceStatusReportingInitiation ProcedureCode ::= 34

id-resourceStatusReporting ProcedureCode ::= 35

id-mobilitySettingsChange ProcedureCode ::= 36

id-accessAndMobilityIndication ProcedureCode ::= 37

id-cellTrafficTrace ProcedureCode ::= 38

id-RANMulticastGroupPaging ProcedureCode ::= 39

id-scgFailureInformationReport ProcedureCode ::= 40

id-ProcedureCode41-NotToBeUsed ProcedureCode ::= 41

id-scgFailureTransfer ProcedureCode ::= 42

id-f1CTrafficTransfer ProcedureCode ::= 43

id-iABTransportMigrationManagement ProcedureCode ::= 44

id-iABTransportMigrationModification ProcedureCode ::= 45

id-iABResourceCoordination ProcedureCode ::= 46

id-retrieveUEContextConfirm ProcedureCode ::= 47

id-cPCCancel ProcedureCode ::= 48

id-partialUEContextTransfer ProcedureCode ::= 49

id-rachIndication ProcedureCode ::= 50

id-dataCollectionReportingInitiation ProcedureCode ::= 51

id-dataCollectionReporting ProcedureCode ::= 52

id-cLI-MeasurementReporting ProcedureCode ::= FFS

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Lists

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

maxEARFCN INTEGER ::= 262143

maxnoofAllowedAreas INTEGER ::= 16

maxnoofAMFRegions INTEGER ::= 16

maxnoofAoIs INTEGER ::= 64

maxnoofBluetoothName INTEGER ::= 4

maxnoofBPLMNs INTEGER ::= 12

maxnoofCAGs INTEGER ::= 12

maxnoofCAGsperPLMN INTEGER ::= 256

maxnoofCellIDforMDT INTEGER ::= 32

maxnoofCellsinAoI INTEGER ::= 256

maxnoofCellsinUEHistoryInfo INTEGER ::= 16

maxnoofCellsinNG-RANnode INTEGER ::= 16384

maxnoofCellsinRNA INTEGER ::= 32

maxnoofCellsUEMovingTrajectory INTEGER ::= 16

maxnoofDRBs INTEGER ::= 32

maxnoofEUTRABands INTEGER ::= 16

maxnoofEUTRABPLMNs INTEGER ::= 6

maxnoofEPLMNs INTEGER ::= 15

maxnoofExtSliceItems INTEGER ::= 65535

maxnoofEPLMNsplus1 INTEGER ::= 16

maxnoofForbiddenTACs INTEGER ::= 4096

maxnoofFreqforMDT INTEGER ::= 8

maxnoofMBSFNEUTRA INTEGER ::= 8

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofMultiConnectivityMinusOne INTEGER ::= 3

maxnoofNeighbours INTEGER ::= 1024

maxnoofNeighPCIforMDT INTEGER ::= 32

maxnoofNIDs INTEGER ::= 12

maxnoofNRCellBands INTEGER ::= 32

maxnoofPLMNs INTEGER ::= 16

maxnoofPDUSessions INTEGER ::= 256

maxnoofProtectedResourcePatterns INTEGER ::= 16

maxnoofQoSFlows INTEGER ::= 64

maxnoofQoSParaSets INTEGER ::= 8

maxnoofRANAreaCodes INTEGER ::= 32

maxnoofRANAreasinRNA INTEGER ::= 16

maxnoofRANNodesinAoI INTEGER ::= 64

maxnoofSCellGroups INTEGER ::= 3

maxnoofSCellGroupsplus1 INTEGER ::= 4

maxnoofSensorName INTEGER ::= 3

maxnoofSliceItems INTEGER ::= 1024

maxnoofSNPNIDs INTEGER ::= 12

maxnoofsupportedPLMNs INTEGER ::= 12

maxnoofsupportedTACs INTEGER ::= 256

maxnoofTAforMDT INTEGER ::= 8

maxnoofTAI INTEGER ::= 16

maxnoofTAIsinAoI INTEGER ::= 16

maxnooftimeperiods INTEGER ::= 2

maxnoofTNLAssociations INTEGER ::= 32

maxnoofUEContexts INTEGER ::= 8192

maxNRARFCN INTEGER ::= 3279165

maxNrOfErrors INTEGER ::= 256

maxnoofslots INTEGER ::= 5120

maxnoofExtTLAs INTEGER ::= 16

maxnoofGTPTLAs INTEGER ::= 16

maxnoofCHOcells INTEGER ::= 8

maxnoofPC5QoSFlows INTEGER ::= 2064

maxnoofSSBAreas INTEGER ::= 64

maxnoofRAReports INTEGER ::= 64

maxnoofNRSCSs INTEGER ::= 5

maxnoofPhysicalResourceBlocks INTEGER ::= 275

maxnoofAdditionalPDCPDuplicationTNL INTEGER ::= 2

maxnoofRLCDuplicationstate INTEGER ::= 3

maxnoofWLANName INTEGER ::= 4

maxnoofNonAnchorCarrierFreqConfig INTEGER ::= 15

maxnoofDataForwardingTunneltoE-UTRAN INTEGER ::= 256

maxnoofMBSFSAs INTEGER ::= 256

maxnoofUEIDIndicesforMBSPaging INTEGER ::= 4096

maxnoofMBSQoSFlows INTEGER ::= 64

maxnoofMRBs INTEGER ::= 32

maxnoofCellsforMBS INTEGER ::= 8192

maxnoofMBSServiceAreaInformation INTEGER ::= 256

maxnoofTAIforMBS INTEGER ::= 1024

maxnoofAssociatedMBSSessions INTEGER ::= 32

maxnoofMBSSessions INTEGER ::= 256

maxnoofSuccessfulHOReports INTEGER ::= 64

maxnoofPSCellsPerSN INTEGER ::= 8

maxnoofNR-UChannelIDs INTEGER ::= 16

maxnoofCellsinCHO INTEGER ::= 8

maxnoofCHOexecutioncond INTEGER ::= 2

maxnoofServedCellsIAB INTEGER ::= 512

maxnoofServingCells INTEGER ::= 32

maxnoofBHInfo INTEGER ::= 1024

maxnoofTrafficIndexEntries INTEGER ::= 1024

maxnoofTLAsIAB INTEGER ::= 1024

maxnoofBAPControlPDURLCCHs INTEGER ::= 2

maxnoofIABSTCInfo INTEGER ::= 45

maxnoofSymbols INTEGER ::= 14

maxnoofDUFSlots INTEGER ::= 320

maxnoofHSNASlots INTEGER ::= 5120

maxnoofRBsetsPerCell INTEGER ::= 8

maxnoofRBsetsPerCell1 INTEGER ::= 7

maxnoofChildIABNodes INTEGER ::= 1024

maxnoofPSCellCandidates INTEGER ::= 8

maxnoofTargetSNs INTEGER ::= 8

maxnoofUEAppLayerMeas INTEGER ::= 16

maxnoofSNSSAIforQMC INTEGER ::= 16

maxnoofCellIDforQMC INTEGER ::= 32

maxnoofPLMNforQMC INTEGER ::= 16

maxnoofTAforQMC INTEGER ::= 8

maxnoofMTCItems INTEGER ::= 16

maxnoofCSIRSconfigurations INTEGER ::= 96

maxnoofCSIRSneighbourCells INTEGER ::= 16

maxnoofCSIRSneighbourCellsInMTC INTEGER ::= 16

maxnoofNeighbour-NG-RAN-Nodes INTEGER ::= 256

maxnoofSRBs INTEGER ::= 5

maxnoofSMBR INTEGER ::= 8

maxnoofNSAGs INTEGER ::= 256

maxnoofTargetSNsMinusOne INTEGER ::= 7

maxnoofThresholdsForExcessPacketDelay INTEGER ::= 255

maxnoofESNPNs INTEGER ::= 15

maxnoofSuccessfulPSCellChangeReports INTEGER ::= 64

maxnoofUEsforRAReportIndications INTEGER ::= 64

maxnoofPSCellsinCPAC INTEGER ::= 8

maxnoofCPACexecutioncond INTEGER ::= 2

maxnoofLBTFailureInformation INTEGER ::= 64

maxnoofCellsTrajectoryPredict INTEGER ::= 16

maxnoofCellsTrajectory INTEGER ::= 16

maxFailedCellMeasObjects INTEGER ::= 124

maxFailedMeasPerNode INTEGER ::= 124

maxnoofUEReports INTEGER ::= 16

maxnoofCandidateRelayUEs INTEGER ::= 32

maxnoofCAGforMDT INTEGER ::= 256

maxnoofMDTSNPNs INTEGER ::= 16

maxnoofSecurityConfigurations INTEGER ::= 8

maxnoofRSPPQoSFlows INTEGER ::= 2048

maxnoofNZP-CSI-RS-ResourcesPerSet INTEGER ::= 64

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-ActivatedServedCells ProtocolIE-ID ::= 0

id-ActivationIDforCellActivation ProtocolIE-ID ::= 1

id-admittedSplitSRB ProtocolIE-ID ::= 2

id-admittedSplitSRBrelease ProtocolIE-ID ::= 3

id-AMF-Region-Information ProtocolIE-ID ::= 4

id-AssistanceDataForRANPaging ProtocolIE-ID ::= 5

id-BearersSubjectToCounterCheck ProtocolIE-ID ::= 6

id-Cause ProtocolIE-ID ::= 7

id-cellAssistanceInfo-NR ProtocolIE-ID ::= 8

id-ConfigurationUpdateInitiatingNodeChoice ProtocolIE-ID ::= 9

id-CriticalityDiagnostics ProtocolIE-ID ::= 10

id-XnUAddressInfoperPDUSession-List ProtocolIE-ID ::= 11

id-DRBsSubjectToStatusTransfer-List ProtocolIE-ID ::= 12

id-ExpectedUEBehaviour ProtocolIE-ID ::= 13

id-GlobalNG-RAN-node-ID ProtocolIE-ID ::= 14

id-GUAMI ProtocolIE-ID ::= 15

id-indexToRatFrequSelectionPriority ProtocolIE-ID ::= 16

id-initiatingNodeType-ResourceCoordRequest ProtocolIE-ID ::= 17

id-List-of-served-cells-E-UTRA ProtocolIE-ID ::= 18

id-List-of-served-cells-NR ProtocolIE-ID ::= 19

id-LocationReportingInformation ProtocolIE-ID ::= 20

id-MAC-I ProtocolIE-ID ::= 21

id-MaskedIMEISV ProtocolIE-ID ::= 22

id-M-NG-RANnodeUEXnAPID ProtocolIE-ID ::= 23

id-MN-to-SN-Container ProtocolIE-ID ::= 24

id-MobilityRestrictionList ProtocolIE-ID ::= 25

id-new-NG-RAN-Cell-Identity ProtocolIE-ID ::= 26

id-newNG-RANnodeUEXnAPID ProtocolIE-ID ::= 27

id-UEReportRRCTransfer ProtocolIE-ID ::= 28

id-oldNG-RANnodeUEXnAPID ProtocolIE-ID ::= 29

id-OldtoNewNG-RANnodeResumeContainer ProtocolIE-ID ::= 30

id-PagingDRX ProtocolIE-ID ::= 31

id-PCellID ProtocolIE-ID ::= 32

id-PDCPChangeIndication ProtocolIE-ID ::= 33

id-PDUSessionAdmittedAddedAddReqAck ProtocolIE-ID ::= 34

id-PDUSessionAdmittedModSNModConfirm ProtocolIE-ID ::= 35

id-PDUSessionAdmitted-SNModResponse ProtocolIE-ID ::= 36

id-PDUSessionNotAdmittedAddReqAck ProtocolIE-ID ::= 37

id-PDUSessionNotAdmitted-SNModResponse ProtocolIE-ID ::= 38

id-PDUSessionReleasedList-RelConf ProtocolIE-ID ::= 39

id-PDUSessionReleasedSNModConfirm ProtocolIE-ID ::= 40

id-PDUSessionResourcesActivityNotifyList ProtocolIE-ID ::= 41

id-PDUSessionResourcesAdmitted-List ProtocolIE-ID ::= 42

id-PDUSessionResourcesNotAdmitted-List ProtocolIE-ID ::= 43

id-PDUSessionResourcesNotifyList ProtocolIE-ID ::= 44

id-PDUSession-SNChangeConfirm-List ProtocolIE-ID ::= 45

id-PDUSession-SNChangeRequired-List ProtocolIE-ID ::= 46

id-PDUSessionToBeAddedAddReq ProtocolIE-ID ::= 47

id-PDUSessionToBeModifiedSNModRequired ProtocolIE-ID ::= 48

id-PDUSessionToBeReleasedList-RelRqd ProtocolIE-ID ::= 49

id-PDUSessionToBeReleased-RelReq ProtocolIE-ID ::= 50

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id-NZP-CSI-RS-Resources-Config ProtocolIE-ID ::= FFS

END

-- ASN1STOP

9.3.8 Container definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XnAP-Containers {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) xnap (2) version1 (1) xnap-Containers (5) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IE parameter types from other modules.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IMPORTS

maxPrivateIEs,

maxProtocolExtensions,

maxProtocolIEs,

Criticality,

Presence,

PrivateIE-ID,

ProtocolIE-ID

FROM XnAP-CommonDataTypes;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Protocol IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XNAP-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 IE pairs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XNAP-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

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XNAP-PROTOCOL-EXTENSION ::= CLASS {

&id ProtocolIE-ID UNIQUE,

&criticality Criticality,

&Extension,

&presence Presence

}

WITH SYNTAX {

ID &id

CRITICALITY &criticality

EXTENSION &Extension

PRESENCE &presence

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Class Definition for Private IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

XNAP-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 {XNAP-PROTOCOL-IES : IEsSetParam} ::=

SEQUENCE (SIZE (0..maxProtocolIEs)) OF

ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Single-Container {XNAP-PROTOCOL-IES : IEsSetParam} ::= ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {XNAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {

id XNAP-PROTOCOL-IES.&id ({IEsSetParam}),

criticality XNAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),

value XNAP-PROTOCOL-IES.&Value ({IEsSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Protocol IE Pairs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolIE-ContainerPair {XNAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=

SEQUENCE (SIZE (0..maxProtocolIEs)) OF

ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {XNAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {

id XNAP-PROTOCOL-IES-PAIR.&id ({IEsSetParam}),

firstCriticality XNAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}),

firstValue XNAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),

secondCriticality XNAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),

secondValue XNAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container Lists for Protocol IE Containers

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, XNAP-PROTOCOL-IES : IEsSetParam} ::=

SEQUENCE (SIZE (lowerBound..upperBound)) OF

ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, XNAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=

SEQUENCE (SIZE (lowerBound..upperBound)) OF

ProtocolIE-ContainerPair {{IEsSetParam}}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Protocol Extensions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ProtocolExtensionContainer {XNAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE (SIZE (1..maxProtocolExtensions)) OF

ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField {XNAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {

id XNAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),

criticality XNAP-PROTOCOL-EXTENSION.&criticality ({ExtensionSetParam}{@id}),

extensionValue XNAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Container for Private IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PrivateIE-Container {XNAP-PRIVATE-IES : IEsSetParam} ::=

SEQUENCE (SIZE (1..maxPrivateIEs)) OF

PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {XNAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {

id XNAP-PRIVATE-IES.&id ({IEsSetParam}),

criticality XNAP-PRIVATE-IES.&criticality ({IEsSetParam}{@id}),

value XNAP-PRIVATE-IES.&Value ({IEsSetParam}{@id})

}

END

-- ASN1STOP

**=============================End of change==============================**

**=============================End of change==============================**