**3GPP TSG-RAN WG3 Meeting #123 *R3-241198***

**Athens, Greece, 26th Feb – 1st Mar, 2024**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.473** | **CR** | **1180** | **rev** | **11** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Support of NR Positioning Enhancements | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, CATT, Huawei, ZTE, Nokia, Nokia Shanghai Bell, Xiaomi, Samsung, Qualcomm Inc. | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_pos\_enh2-Core | | | | |  | ***Date:*** | | | 2024-02-12 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The CR introduces functionality support for NR Positioning Enhancement features | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | **RAN3#119bis (Online)**   * SL Positioning and Ranging service authorization information is signalled in the following messages:   + UE CONTEXT SETUP REQUEST   + UE CONTEXT MODIFICATION REQUEST * FFS on the Positioning/Ranging QoS parameters and UE types, to be considered based on SA2 progress   **RAN3#120 (Incheon)**   * SLPP/RSPP Transport QoS parameters are introduced with authorization information   **RAN3#121 (Toulouse)**   * Support of UL CPP, SRS bandwidth aggregation request and report granularity for timing-based measurements   **RAN3#121bis (Xiamen)**   * Support of LPHAP configuration for validity area and associated SRS configuration, support of new procedure for SRS resource reservation, support for CPP tie windows for configuration and measurement   **RAN3#122 (Chicago)**   * Remaining Issues on LPHAP * support of BW aggregation and CPP   RAN3#123 (Athens)   * Solving issue on LPHAP * Support of CPP and BW aggregation * Support of RedCap Positioning | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing support of NR Positioning Enhancements | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 8, 8.3.1.2, 8.3.4.2, 8.13.9.2, 8.13.x (new), 9.2.2.1, 9.2.2.7, 9.2.12.3, 9.2.12.10, 9.2.12.13, 9.2.12.14, 9.2.12.B1(new), 9.3.1.166, 9.3.1.168-9.3.1.172, 9.3.1.175, 9.3.1.177, 9.3.1.196, 9.3.1.235, 9.3.1.248, 2.3.1.254, 9.3.1.x1-x5-x8 (new), 9.4.4, 9.4.5, 9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **x** |  | Other core specifications | | | | TS 38.413 CR 0991  TS 38.423 CR 1061  TS 38.455 CR 0113  TS 38.305 CR  TS 38.470 CR 0122 | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev#1: Implementation of TP R3-233460  Rev#2: Resubmission to RAN3#121  Rev#3: Implementation of TPs R3-234603, R3-234605, R3-234727  Rev#4: Resubmission to RAN3#121bis and rebasing with v17.6.0 of the spec  Rev#5: Update of CR title and fixing tabular in 9.2.12.3  Rev#6: implementation of R3-235814, R3-235794, R3-235829  Rev#7: resubmission to RAN3#122  Rev#8: check editorial issues  Rev#9: implementation of R3-237921, R3-237639 and R3-237919, rapporteur’s clean-ups.  Rev#10: rebasing to 18.0.0 and resubmission to RAN3#123, fixing ASN.1 errors  Rev#11: implementation of R3-240906, R3-240907 and R3-241161 | | | | | | | | |

<<<<<<<<<<<<<<<<<<< Changes Begin >>>>>>>>>>>>>>>>>>>>

# 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 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 TR 21.905 [1].

5GC 5G Core Network

5QI 5G QoS Identifier

A2X Aircraft-to-Everything

AMF Access and Mobility Management Function

ARP Antenna Reference Point

ARPI Additional RRM Policy Index

BH Backhaul

CAG Closed Access Group

CN Core Network

CG Cell Group

CG-SDT Configured Grant-Small Data Transmission

CGI Cell Global Identifier

CHO Conditional Handover

CP Control Plane

CPA Conditional PSCell Addition

CPC Conditional PSCell Change

DAPS Dual Active Protocol Stack

DL Downlink

DL-PRS Downlink Positioning Reference Signal

EN-DC E-UTRA-NR Dual Connectivity

EPC Evolved Packet Core

eRedCap Enhanced Reduced Capability

FSA ID MBS Frequency Selection Area (FSA) ID

GPSI Generic Public Subscription Identifier

IAB Integrated Access and Backhaul

IMEISV International Mobile station Equipment Identity and Software Version number

LMF Location Management Function

LTM L1/L2 Triggered Mobility

MBS Multicast/Broadcast Service

MP Multi-path

MT-SDT Mobile Terminated Small Data Transmission

N3C Non-3GPP Connection

NID Network Identifier

NPN Non-Public Network

NSAG Network Slice AS Group

NSSAI Network Slice Selection Assistance Information

PDC Propagation Delay Compensation

PEIPS Paging Early Indication with Paging Subgrouping

posSIB Positioning SIB

PNI-NPN Public Network Integrated NPN

PTP Point to Point

PTM Point to Multipoint

QMC QoE Measurement Collection

QoE Quality of Experience

RANAC RAN Area Code

RedCap Reduced Capability

RIM Remote Interference Management

RIM-RS RIM Reference Signal

RRC Radio Resource Control

RSPP Ranging/Sidelink Positioning Protocol

RSRP Reference Signal Received Power

SDT Small Data Transmission

SNPN Stand-alone Non-Public Network

S-NSSAI Single Network Slice Selection Assistance Information

SUL Supplementary Uplink

TAC Tracking Area Code

TAI Tracking Area Identity

TEG Timing Error Group

TRP Transmission-Reception Point

TSS Timing Synchronisation Status

U2N UE-to-Network

UL-AoA Uplink Angle of Arrival

UL-RTOA Uplink Relative Time of Arrival

UL-SRS Uplink Sounding Reference Signal

V2X Vehicle-to-Everything

UL-RSCP UL Reference Signal Carrier Phase

Z-AoA Zenith Angles of Arrival

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

# 8 F1AP procedures

## 8.1 List of F1AP Elementary procedures

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

<<<<<<<<<<<<<<<<<<<< Unchanged Text Omitted >>>>>>>>>>>>>>>>>>>>

Table 2: Class 2 procedures

| Elementary Procedure | Message |
| --- | --- |
| Error Indication | ERROR INDICATION |
| UE Context Release Request (gNB-DU initiated) | UE CONTEXT RELEASE REQUEST |
| Initial UL RRC Message Transfer | INITIAL UL RRC MESSAGE TRANSFER |
| DL RRC Message Transfer | DL RRC MESSAGE TRANSFER |
| UL RRC Message Transfer | UL RRC MESSAGE TRANSFER |
| UE Inactivity Notification | UE INACTIVITY NOTIFICATION |
| System Information Delivery | SYSTEM INFORMATION DELIVERY COMMAND |
| Paging | PAGING |
| Notify | NOTIFY |
| PWS Restart Indication | PWS RESTART INDICATION |
| PWS Failure Indication | PWS FAILURE INDICATION |
| gNB-DU Status Indication | GNB-DU STATUS INDICATION |
| RRC Delivery Report | RRC DELIVERY REPORT |
| Network Access Rate Reduction | NETWORK ACCESS RATE REDUCTION |
| Trace Start | TRACE START |
| Deactivate Trace | DEACTIVATE TRACE |
| DU-CU Radio Information Transfer | DU-CU RADIO INFORMATION TRANSFER |
| CU-DU Radio Information Transfer | CU-DU RADIO INFORMATION TRANSFER |
| Resource Status Reporting | RESOURCE STATUS UPDATE |
| Access And Mobility Indication | ACCESS AND MOBILITY INDICATION |
| Reference Time Information Reporting Control | REFERENCE TIME INFORMATION REPORTING CONTROL |
| Reference Time Information Report | REFERENCE TIME INFORMATION REPORT |
| Access Success | ACCESS SUCCESS |
| Cell Traffic Trace | CELL TRAFFIC TRACE |
| Positioning Assistance Information Control | POSITIONING ASSISTANCE INFORMATION CONTROL |
| Positioning Assistance Information Feedback | POSITIONING ASSISTANCE INFORMATION FEEDBACK |
| Positioning Measurement Report | POSITIONING MEASUREMENT REPORT |
| Positioning Measurement Abort | POSITIONING MEASUREMENT ABORT |
| Positioning Measurement Failure Indication | POSITIONING MEASUREMENT FAILURE INDICATION |
| Positioning Measurement Update | POSITIONING MEASUREMENT UPDATE |
| Positioning Deactivation | POSITIONING DEACTIVATION |
| E-CID Measurement Failure Indication | E-CID MEASUREMENT FAILURE INDICATION |
| E-CID Measurement Report | E-CID MEASUREMENT REPORT |
| E-CID Measurement Termination | E-CID MEASUREMENT TERMINATION COMMAND |
| Positioning Information Update | POSITIONING INFORMATION UPDATE |
| Multicast Group Paging | MULTICAST GROUP PAGING |
| Broadcast Context Release Request | BROADCAST CONTEXT RELEASE REQUEST |
| Multicast Context Release Request | MULTICAST CONTEXT RELEASE REQUEST |
| PDC Measurement Report | PDC MEASUREMENT REPORT |
| PDC Measurement Termination | PDC MEASUREMENT TERMINATION COMMAND |
| PDC Measurement Failure Indication | PDC MEASUREMENT FAILURE INDICATION |
| PDC Measurement Termination | PDC MEASUREMENT TERMINATION COMMAND |
| Measurement Activation | MEASUREMENT ACTIVATION |
| QoE Information Transfer | QOE INFORMATION TRANSFER |
| Positioning System Information Delivery | POSITIONING SYSTEM INFORMATION DELIVERY COMMAND |
| DU-CU Cell Switch Notification | DU-CU CELL SWITCH NOTIFICATION |
| CU-DU Cell Switch Notification | CU-DU CELL SWITCH NOTIFICATION |
| DU-CU TA Information Transfer | DU-CU TA INFORMATION TRANSFER |
| CU-DU TA Information Transfer | CU-DU TA INFORMATION TRANSFER |
| QoE Information Transfer Control | QOE INFORMATION TRANSFER CONTROL |
| RACH Indication | RACH INDICATION |
| Timing Synchronisation Status Report | TIMING SYNCHRONISATION STATUS REPORT |
| Mobile IAB F1 Setup Triggering | MIAB F1 SETUP TRIGGERING |
| Mobile IAB F1 Setup Outcome Notification | MIAB F1 SETUP OUTCOME NOTIFICATION |
| Broadcast Transport Resource Request | BROADCAST TRANSPORT RESOURCE REQUEST |
| SRS Information Reservation Notification | SRS INFORMATION RESERVATION NOTIFICATION |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

## 8.3 UE Context Management procedures

### 8.3.1 UE Context Setup

#### 8.3.1.1 General

The purpose of the UE Context Setup procedure is to establish the UE Context including, among others, SRB, DRB, BH RLC channel, Uu Relay RLC channel, PC5 Relay RLC channel, and SL DRB configuration. The procedure uses UE-associated signalling.

#### 8.3.1.2 Successful Operation



Figure 8.3.1.2-1: UE Context Setup Request procedure: Successful Operation

The gNB-CU initiates the procedure by sending UE CONTEXT SETUP REQUEST message to the gNB-DU. If the gNB-DU succeeds to establish the UE context, it replies to the gNB-CU with UE CONTEXT SETUP RESPONSE. If no UE-associated logical F1-connection exists, the UE-associated logical F1-connection shall be established as part of the procedure. Except for RACH based SDT and UE configured with BWP specific ServingCellMO, the gNB-CU shall perform RRC Reconfiguration or RRC connection resume to send UE to the RRC\_CONNECTED state as described in TS 38.331 [8], and in this case, the *CellGroupConfig* IE shall transparently be signaled to the UE as specified in TS 38.331 [8]. In the cases of RACH based SDT procedure and UE configured with BWP specific ServingCellMO, the *CellGroupConfig* IE shall be ignored by the gNB-CU.

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

If the *Early Sync Information* IE included in the UE CONTEXT SETUP RESPONSE message, the gNB-CU shall, if supported, consider it as the generated early sync information from the accepted candidate cell in the candidate gNB-DU.

If the *LTM Complete Configuration Indicator* IE set to "complete" is contained in the *LTM Configuration* IE included in the UE CONTEXT SETUP RESPONSE message, the gNB-CU shall, if supported, consider that the LTM candidate configuration is a complete configuration.

If the *Indirect Path Addition* IE is contained in the *Path Addition Information* IE which is included in the UE CONTEXT SETUP REQUEST message, the gNB-DU shall, if supported, consider that the request concerns the indirect path addition for the MP Remote UE using PC5 link and use it as specified in TS 38.401 [4]. If the *N3C* *Indirect Path Addition* IE is contained in the *Path Addition Information* IE, the gNB-DU shall, if supported, consider that the request concerns the indirect path addition for the MP Remote UE using N3C and use it as specified in TS 38.401 [4].

If the *Ranging and Sidelink Positioning Service Information* IE is contained in the UE CONTEXT SETUP REQUEST message, the gNB-DU shall, if supported, take it into account for the UE’s Ranging and Sidelink Positioning service.

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

#### 8.3.4.1 General

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

#### 8.3.4.2 Successful Operation



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

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

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

If the *LTM Complete Configuration Indicator* IE set to "complete" is contained in the *LTM Configuration* IE included in the UE CONTEXT MODIFICATION RESPONSE message, the gNB-CU shall, if supported, consider that the LTM candidate configuration is a complete configuration.

If the *Direct Path Addition* IE is contained in the *Path Addition Information* IE which is included in the UE CONTEXT MODIFICATION REQUEST message, the gNB-DU shall, if supported, consider that the request concerns the direct path addition for the included *SpCell ID* IE as specified in TS 38.401 [4] and regard it as a reconfiguration with sync as defined in TS 38.331 [8]. If the *Indirect Path Addition* IE is contained in the *Path Addition Information* IE, the gNB-DU shall, if supported, consider that the request concerns the indirect path addition for the MP Remote UE using PC5 link and use it as specified in TS 38.401 [4]. If the *N3C* *Indirect Path Addition* IE is contained in the *Path Addition Information* IE, the gNB-DU shall, if supported, consider that the request concerns the indirect path addition for the MP Remote UE using N3C and use it as specified in TS 38.401 [4].

If the *S-NSSAI* IE is included within the *DRB to Be Modified Item* IE in the UE CONTEXT MODIFICATION REQUEST message, the gNB-DU shall, if supported, store the corresponding information and replace any existing information.

If the *Ranging and Sidelink Positioning Service Information* IE is contained in the UE CONTEXT MODIFICATION REQUEST message, the gNB-DU shall, if supported, update its service information for the UE accordingly. If the *Ranging and Sidelink Positioning Authorized* IE within the *Ranging and Sidelink Positioning Service Information* IE is set to "not authorized", the gNB-DU shall, if supported, initiate actions to ensure that the UE is no longer accessing the Ranging and Sidelink Positioning service.

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8.13.3 Positioning Measurement

8.13.3.1 General

The purpose of the Positioning Measurement procedure is to allow the gNB-CU to request one or more TRPs in the gNB-DU to perform and report positioning measurements. The procedure uses non-UE-associated signalling.

8.13.3.2 Successful Operation

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**Figure 8.13.3.2-1: Positioning Measurement procedure: successful operation**

The gNB-CU initiates the procedure by sending a POSITIONING MEASUREMENT REQUEST message to the gNB-DU, indicating in the *TRP Measurement Request List* IE the TRP(s) from which measurements are requested. The gNB-DU node shall use the included information to configure positioning measurements by the indicated TRP(s). If at least one of the requested measurements has been successful for at least one of the TRPs, the gNB-DU shall reply with the POSITIONING MEASUREMENT RESPONSE message including the *Positioning Measurement Response List* IE.

If the *Positioning Report Characteristics* IE is set to "OnDemand", the gNB-DU shall return the corresponding measurement results in the *Positioning Measurement Result List* IE in the POSITIONING MEASUREMENT RESPONSE message, and the gNB-CU shall consider that this reporting has been terminated by the gNB-DU.

If the *Measurement Beam Information Request* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU node shall include the *Measurement Beam Information* IE in the *Positioning Measurement Result* IE of the POSITIONING MEASUREMENT RESPONSE message.

If the *Measurement Quality* IE is included in the *Measurement Result* IE in the POSITIONING MEASUREMENT RESPONSE message, the gNB-CU may use it for further signalling. If the *Measurement Quality* IE includes the *Zenith Quality* IE, the gNB-CU may use it for further signalling.

If the *System Frame Number* IE and/or the *Slot Number* IE are included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU node shall, if supported, consider that the respective information indicates the activation time of SRS transmission.

If the *Measurement Characteristics Request Indicator* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU shall, if supported, take the requested measurement characteristics into account when configuring measurements, and include the requested information, if available, in the POSITIONING MEASUREMENT RESPONSE message.

If the *Number of TRP Rx TEGs* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU shall, if supported, use it to measure the same SRS resource with different TRP Rx TEGs for the indicated TRP, and report the corresponding UL-RTOA and/or gNB Rx-Tx time difference measurements.

If the *Number of TRP RxTx TEGs* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU shall, if supported, use it to measure the same SRS resource with different TRP RxTx TEGs with the same TRP Tx TEG for the indicated TRP, and report the corresponding gNB Rx-Tx time difference measurements.

If the *Measurement Time Occasion* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU may take it into account as the number of SRS measurement time occasions for a measurement instance.

If the *Time Window Information Measurement List* IE is included in the POSITIONING MEASUREMENT REQUEST message, the gNB-DU shall, if supported, measure the UL SRS resources within the indicated time window(s)

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### 8.13.9 Positioning Information Exchange

#### 8.13.9.1 General

The Positioning Information Exchange procedure is initiated by the gNB-CU to indicate to the gNB-DU the need to configure the UE to transmit SRS signals and to retrieve the SRS configuration from the gNB-DU. The procedure uses UE-associated signalling.

#### 8.13.9.2 Successful Operation



Figure 8.13.9.2-1: Positioning Information Exchange procedure, successful operation

The gNB-CU initiates the procedure by sending a POSITIONING INFORMATION REQUEST message to the gNB-DU.

If the *Requested SRS Transmission Characteristics* IE is included in the POSITIONING INFORMATION REQUEST message, the gNB-DU may take this information into account when configuring SRS transmissions for the UE, and it shall include the *SRS Configuration* IE and the *SFN Initialisation Time* IE in the POSITIONING INFORMATION RESPONSE message. If the *SRS Positioning INACTIVE Query Indication* IE is also included in the POSITIONING INFORMATION REQUEST message and set to ‘true’, the gNB-DU shall, if supported, include the *SRS-PosRRC-InactiveConfig* IE in the POSITIONING INFORMATION RESPONSE message.

If the *Spatial Relation Information per SRS Resource* IE and the *Periodicity List* IE are both included in the *Requested SRS Transmission Characteristics* IE, the gNB-DU shall consider that the *Spatial Relation per SRS Resource Item* IE and the *Periodicity List Item* IE have one-to-one mapping relation.

If the *UE Reporting Information* IE is included in the POSITIONING INFORMATION REQUEST message, the gNB-DU may take this information into account for allocating proper CG-SDT resources when positioning a UE.

If the *Time Window Information for SRS* IE is included in the POSITIONING INFORMATION REQUEST message, the gNB-DU shall, if supported, configure the UE to start transmitting its UL SRS transmission at the indicated time instance.

If the *Positioning Validity Area Cell List* IE and *Validity Area specific SRS Information* IE within the *Requested SRS Transmission Characteristics* IE are included in the POSITIONING INFORMATION REQUEST message, the gNB-DU shall, if supported, take this information into account for configuring SRS transmissions for the UE in the indicated validity area, and shall include the *SRS-PosRRC-InactiveValidityAreaConfig* IE, the *SFN Initialisation Time* IE and the *Positioning Validity Area Cell List* IE in the POSITIONING INFORMATION RESPONSE message.

If the *Requested SRS Preconfiguration Characteristics List* IE is included in the POSITIONING INFORMATION REQUEST message, the gNB-DU shall, if supported, take this information into account when preconfiguring area specific SRS configurations for the UE, and include the *SRS Preconfiguration List* IE in the POSITIONING INFORMATION RESPONSE message.

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### 8.13.x SRS Information Reservation Notification

#### 8.13.x.1 General

The purpose of the SRS Information Reservation Notification procedure is to allow the gNB-CU to request the gNB-DU to reserve or release SRS resources in the positioning validity area.

#### 8.13.x.2 Successful Operation



Figure 8.13.x.2-1: SRS Information Reservation Notification procedure, successful operation

The gNB-CU initiates the procedure by sending a SRS INFORMATION RESERVATION NOTIFICATION message to the gNB-DU

If the *SRS Reservation Type* IE is set to "reserve", the gNB-DU shall reserve the indicated SRS information in the cells indicated by the *Positioning Validity Area Cell List* IE. If the *SRS Reservation Type* IE is set to "release", the gNB-DU shall release the indicated SRS information in the cells indicated by the *Positioning Validity Area Cell List* IE.

#### 8.13.x.3 Unsuccessful Operation

Not Applicable.

#### 8.13.x.4 Abnormal Conditions

Void.

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#### 9.2.2.1 UE CONTEXT SETUP REQUEST

This message is sent by the gNB-CU to request the setup of a UE context.

Direction : gNB-CU → gNB-DU.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | O |  | 9.3.1.5 |  | YES | ignore |
| <<<<<<<<<<<<<<<<<<< Omitted rows unchanged >>>>>>>>>>>>>>>>>>>> | | | | | | |
| LTE A2X Services Authorized | O |  | 9.3.1.324 |  | YES | ignore |
| NR UE Sidelink Aggregate Maximum Bit Rate for A2X | O |  | 9.3.1.119 | This IE applies only if the UE is authorized for NR A2X services. | YES | ignore |
| LTE UE Sidelink Aggregate Maximum Bit Rate for A2X | O |  | 9.3.1.118 | This IE applies only if the UE is authorized for LTE A2X services. | YES | ignore |
| Ranging and Sidelink Positioning Service Information | O |  | 9.3.1.x1 | This IE applies only if the UE is authorized for NR V2X services and/or 5G ProSe services. | YES | ignore |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.2.7 UE CONTEXT MODIFICATION REQUEST

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

Direction: gNB-CU → gNB-DU

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | M |  | 9.3.1.5 |  | YES | reject |
| <<<<<<<<<<<<<<<<<<< Omitted rows unchanged >>>>>>>>>>>>>>>>>>>> | | | | | | |
| LTE A2X Services Authorized | O |  | 9.3.1.324 |  | YES | ignore |
| NR UE Sidelink Aggregate Maximum Bit Rate for A2X | O |  | 9.3.1.119 | This IE applies only if the UE is authorized for NR A2X services. | YES | ignore |
| LTE UE Sidelink Aggregate Maximum Bit Rate for A2X | O |  | 9.3.1.118 | This IE applies only if the UE is authorized for LTE A2X services. | YES | ignore |
| Ranging and Sidelink Positioning Service Information | O |  | 9.3.1.x1 | This IE applies only if the UE is authorized for NR V2X services and/or 5G ProSe services. | YES | ignore |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.12.3 POSITIONING MEASUREMENT REQUEST

This message is sent by the gNB-CU to request the gNB-DU to configure a positioning measurement.

Direction: gNB-CU → gNB-DU.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| LMF Measurement ID | M |  | INTEGER (1..65536, …) |  | YES | reject |
| RAN Measurement ID | M |  | INTEGER (1..65536, …) |  | YES | reject |
| **TRP Measurement Request List** |  | *1* |  |  | YES | reject |
| **>TRP Measurement Request Item** |  | *1..<maxnoofMeasTRPs>* |  |  | - |  |
| >>TRP ID | M |  | 9.3.1.197 |  | - |  |
| >>Search Window Information | O |  | 9.3.1.204 |  | - |  |
| >>NR CGI | O |  | 9.3.1.12 | The Cell ID of the TRP identified by the *TRP ID* IE. | YES | ignore |
| >>AoA Search Window Information | O |  | UL-AoA Assistance Information 9.3.1.238 |  | YES | ignore |
| >>Number of TRP Rx TEGs | O |  | ENUMERATED (2, 3, 4, 6, 8, …) |  | YES | ignore |
| >>Number of TRP RxTx TEGs | O |  | ENUMERATED (2, 3, 4, 6, 8, …) |  | YES | ignore |
| Positioning Report Characteristics | M |  | ENUMERATED (OnDemand, Periodic, …) |  | YES | reject |
| Positioning Measurement Periodicity | C-ifReportCharacteristicsPeriodic |  | ENUMERATED (120ms, 240ms, 480ms, 640ms, 1024ms, 2048ms, 5120ms, 10240ms, 1min, 6min, 12min, 30min, …, 20480ms, 40960ms, extended) | The codepoint 120ms, 240ms, 480ms, 1024ms, 2048ms, 1min, 6min, 12min, and 30min are not applicable. | YES | reject |
| **Positioning Measurement Quantities** |  | *1* |  |  | YES | reject |
| **>Positioning Measurement Quantities Item** |  | *1..<maxnoofPosMeas>* |  |  | EACH |  |
| >>Positioning Measurement Type | M |  | ENUMERATED (gNB RX-TX, UL-SRS-RSRP, UL AoA, UL RTOA, …, Multiple UL AoA, UL SRS-RSRPP, UL-RSCP) |  | - | - |
| >>Timing Reporting Granularity Factor | O |  | INTEGER (0..5) | TS 38.133 [38]  This IE is ignored when the *Timing Reporting Granularity Factor Extended* IE is included. | - |  |
| >>Timing Reporting Granularity Factor Extended | O |  | INTEGER (-6..-1, …) | Value -6 corresponds to kminus6, value -5 corresponds to kminus5, and so on, see  TS 38.133 [16] | YES | ignore |
| SFN Initialisation Time | O |  | Relative Time 1900  9.3.1.183 | If this IE is not present, the TRP may assume that the value is same as its own SFN initialisation time. | YES | ignore |
| SRS Configuration | O |  | 9.3.1.192 |  | YES | ignore |
| Measurement Beam Information Request | O |  | ENUMERATED (true, ...) | This IE is ignored when the Measurement characteristics Request Indicator IE is included. | YES | ignore |
| System Frame Number | O |  | INTEGER(0..1023) |  | YES | ignore |
| Slot Number | O |  | INTEGER(0..79) |  | YES | ignore |
| Measurement Periodicity Extended | C-ifMeasPerExt |  | ENUMERATED (160ms, 320ms, 1280ms, 2560ms, 61440ms,  81920ms, 368640ms, 737280ms, 1843200ms, …) |  | YES | reject |
| Response Time | O |  | 9.3.1.242 | This IE is ignored when the *Positioning* *Report Characteristics* IE is set to “Periodic”. | YES | ignore |
| Measurement Characteristics Request Indicator | O |  | 9.3.1.254 |  | YES | ignore |
| Measurement Time Occasion | O |  | ENUMERATED (o1, o4,…) |  | YES | ignore |
| Positioning Measurement Amount | O |  | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64) | This IE is ignored if the *Positioning Report Characteristics* IE is set to ‘OnDemand’.  Value 0 represents an infinite number of periodic reporting. | YES | ignore |
| Time Window Information Measurement List | O |  | 9.3.1.x4 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofPosMeas | Maximum no. of measured quantities that can be configured and reported with one message. Value is 16384. |
| maxnoofMeasTRPs | Maximum no. of TRPs that can be included within one measurement message. Value is 64. |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifReportCharacteristicsPeriodic | This IE shall be present if the *Positioning Report Characteristics* IE is set to the value "Periodic". |
| ifMeasPerExt | This IE shall be present if the *Positioning Measurement Periodicity* IE is set to the value "extended". |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.12.10 TRP INFORMATION REQUEST

This message is sent by a gNB-CU to request information for TRPs hosted by a gNB-DU.

Direction: gNB-CU → gNB-DU.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| **TRP list** |  | *0..1* |  |  | YES | ignore |
| **>TRP list Item** |  | *1..<maxnoofTRPs>* |  |  | EACH | ignore |
| >>TRP ID | M |  | 9.3.1.197 |  | - |  |
| >>PRS Bandwidth Aggregation Request Indication | O |  | ENUMERATED(true, ...) |  | YES | ignore |
| **TRP Information Type List** |  | *1* |  |  | YES | reject |
| **>TRP Information Type Item** |  | *1 .. <maxnoofTRPInfoTypes>* |  |  | EACH | reject |
| >>TRP Information Type Item | M |  | ENUMERATED (nr pci, ng-ran cgi, nr arfcn, prs config, ssb config, sfn init time, spatial direction info, geo-coordinates, …, trp type, on-demand prs, trp Tx teg, beam antenna info, mobile TRP location info) |  | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTRPInfoTypes | Maximum no of TRP information types that can be requested and reported with one message. Value is 64. |
| maxnoofTRPs | Maximum no. of TRPs in a gNB. Value is 65535. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.12.13 POSITIONING INFORMATION REQUEST

This message is sent by the gNB-CU to indicate to the gNB-DU the need to configure the UE to transmit SRS signals for uplink positioning measurement and also to retrieve the SRS configuration from the gNB-DU.

Direction: gNB-CU → gNB-DU.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | M |  | 9.3.1.5 |  | YES | reject |
| Requested SRS Transmission Characteristics | O |  | 9.3.1.175 |  | YES | ignore |
| UE Reporting Information | O |  | 9.3.1.255 |  | YES | ignore |
| SRS Positioning INACTIVE Query Indication | O |  | ENUMERATED (true, ...) | Applicable only if the *Requested SRS Transmission Characteristics* IE is present | YES | ignore |
| Time Window Information SRS List | O |  | 9.3.1.x3 |  | YES | ignore |
| Requested SRS Preconfiguration Characteristics List | O |  | 9.3.1.x10 |  | YES | ignore |

#### 9.2.12.14 POSITIONING INFORMATION RESPONSE

This message is sent by the gNB-DU to provide the configured SRS information to the gNB-CU.

Direction: gNB-DU → gNB-CU.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | M |  | 9.3.1.5 |  | YES | reject |
| SRS Configuration | O |  | 9.3.1.192 |  | YES | ignore |
| SFN Initialisation Time | O |  | Relative Time 1900  9.3.1.183 |  | YES | ignore |
| Criticality Diagnostics | O |  | 9.3.1.3 |  | YES | ignore |
| SRS-PosRRC-InactiveConfig | O |  | OCTET STRING | Includes the *SRS-PosRRC-InactiveConfig* IE as defined in TS 38.331 [8] | YES | ignore |
| SRS-PosRRC-InactiveValidityAreaConfig | O |  | OCTET STRING | Includes the *SRS-PosRRC-InactiveValidityAreaConfig* IE as defined in TS 38.331 [8] | YES | ignore |
| SRS Preconfiguration List | O |  | 9.3.1.x11 |  | YES | ignore |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.12.B1 SRS INFORMATION RESERVATION NOTIFICATION

This message is sent by the gNB-CU to notify the gNB-DU to reserve or release SRS resources in a Validity Area.

Direction: gNB-CU → gNB-DU.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | - |  |
| SRS Reservation Type | M |  | ENUMERATED(reserve, release, …) |  | YES | ignore |
| SRS Information | O |  | Requested SRS Transmission Characteristics 9.3.1.175 |  | YES | ignore |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.166 Positioning Measurement Result

The purpose of this information element is to provide the measurement result(s).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Positioning Measured Result Item |  | *1 .. <maxnoofPosMeas>* |  |  | - |  |
| >CHOICE *Measured Results Value* | M |  |  |  | - |  |
| *>>UL Angle of Arrival* |  |  |  |  |  |  |
| >>>UL Angle of Arrival | M |  | 9.3.1.167 |  | - |  |
| *>>UL SRS-RSRP* |  |  |  |  |  |  |
| >>>UL SRS-RSRP | M |  | INTEGER (0..126) |  | - |  |
| *>>UL RTOA* |  |  |  |  |  |  |
| >>>UL RTOA | M |  | UL RTOA Measurement  9.3.1.168 |  | - |  |
| *>>gNB Rx-Tx Time Difference* |  |  |  |  |  |  |
| >>>gNB Rx-Tx Time Difference | M |  | 9.3.1.170 |  | - |  |
| *>>Zenith Angle of Arrival Information* |  |  |  |  | YES | reject |
| >>>Zenith Angle of Arrival Information | M |  | 9.3.1.239 |  | - |  |
| *>>Multiple UL AoA* |  |  |  |  | YES | reject |
| >>>Multiple UL AoA | M |  | 9.3.1.245 |  | - |  |
| *>>UL SRS-RSRPP* |  |  |  |  | YES | reject |
| >>>UL SRS-RSRPP | M |  | 9.3.1.246 |  | - |  |
| *>>UL RSCP* |  |  |  |  | YES | reject |
| >>>UL RSCP | M |  | 9.3.1.x5 |  | - |  |
| >Time Stamp | M |  | 9.3.1.171 |  | - |  |
| >Measurement Quality | O |  | TRP Measurement Quality  9.3.1.172 |  | - |  |
| >Measurement Beam Information | O |  | 9.3.1.173 |  | - |  |
| >ARP ID | O |  | 9.3.1.244 |  | YES | ignore |
| >SRS Resource type | O |  | 9.3.1.247 |  | YES | ignore |
| >LoS/NLoS Information | O |  | 9.3.1.249 |  | YES | ignore |
| >Mobile TRP Location Information | O |  | 9.3.1.304 |  | YES | ignore |
| >Measured Frequency Hops | O |  | ENUMERATED (singleHop, multiHop, …) |  | YES | ignore |
| **>Aggregated Positioning SRS Resource ID List** |  | *0..1* |  | Indicates the used SRS for positioning resources across aggregated carriers. | YES | ignore |
| **>>Aggregated Positioning SRS Resource ID Item** |  | *0..<maxnoaggregatedSRS-Resources>* |  |  |  |  |
| >>>Positioning SRS Resource ID | M |  | INTEGER (0..63) |  |  |  |

| Range bound | Explanation |
| --- | --- |
| maxnoofPosMeas | Maximum no. of measured quantities that can be configured and reported with one message. Value is 16384. |
| maxnoaggregatedSRS-Resources | Maximum no of aggregated SRS resources per UL BWP. Value is 3. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.168 UL RTOA Measurement

This information element contains the uplink RTOA measurement.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| CHOICE *UL RTOA Measurement* | M |  |  |  | - |  |
| *>k0* |  |  |  |  |  |  |
| >>k0 | M |  | INTEGER (0.. 1970049) | TS 38.133 [38] | - |  |
| *>k1* |  |  |  |  |  |  |
| >>k1 | M |  | INTEGER (0.. 985025) | TS 38.133 [38] | - |  |
| *>k2* |  |  |  |  |  |  |
| >>k2 | M |  | INTEGER (0.. 492513) | TS 38.133 [38] | - |  |
| *>k3* |  |  |  |  |  |  |
| >>k3 | M |  | INTEGER (0.. 246257) | TS 38.133 [38] | - |  |
| *>k4* |  |  |  |  |  |  |
| >>k4 | M |  | INTEGER (0.. 123129) | TS 38.133 [38] | - |  |
| *>k5* |  |  |  |  |  |  |
| >>k5 | M |  | INTEGER (0.. 61565) | TS 38.133 [38] | - |  |
| *>kminus1* |  |  |  |  |  |  |
| >>kminus1 | M |  | INTEGER (0.. 3940097) | TS 38.133 [38] | YES | ignore |
| *>kminus2* |  |  |  |  |  |  |
| >>kminus2 | M |  | INTEGER (0.. 7880193) | TS 38.133 [38] | YES | ignore |
| *>kminus3* |  |  |  |  |  |  |
| >>kminus3 | M |  | INTEGER (0..15760385) | TS 38.133 [38] | YES | ignore |
| *>kminus4* |  |  |  |  |  |  |
| >>kminus4 | M |  | INTEGER (0..31520769) | TS 38.133 [38] | YES | ignore |
| *>kminus5* |  |  |  |  |  |  |
| >>kminus5 | M |  | INTEGER (0..63041537) | TS 38.133 [38] | YES | ignore |
| *>kminus6* |  |  |  |  |  |  |
| >>kminus6 | M |  | INTEGER (0..126083073) | TS 38.133 [38] | YES | ignore |
| Additional Path List | O |  | 9.3.1.169 | This IE is ignored if the *Extended Additional Path List* IE is included | - |  |
| Extended Additional Path List | O |  | 9.3.1.248 |  | YES | ignore |
| TRP Rx TEG Information | O |  | 9.3.1.280 |  | YES | ignore |

#### 9.3.1.169 Additional Path List

This information element contains the additional path results of time measurement.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| **Additional Path Item** |  | *1..<maxnoofPath>* |  |  | - |  |
| >CHOICE *Relative* *Path Delay* | M |  |  |  | - |  |
| *>>k0* |  |  |  |  |  |  |
| >>>k0 | M |  | INTEGER(0..16351) |  | - |  |
| *>>k1* |  |  |  |  |  |  |
| >>>k1 | M |  | INTEGER(0..8176) |  | - |  |
| *>>k2* |  |  |  |  |  |  |
| >>>k2 | M |  | INTEGER(0..4088) |  | - |  |
| *>>k3* |  |  |  |  |  |  |
| >>>k3 | M |  | INTEGER(0..2044) |  | - |  |
| *>>k4* |  |  |  |  |  |  |
| >>>k4 | M |  | INTEGER(0..1022) |  | - |  |
| *>>k5* |  |  |  |  |  |  |
| >>>k5 | M |  | INTEGER(0..511) |  | - |  |
| *>kminus1* |  |  |  |  |  |  |
| >>kminus1 | M |  | INTEGER (0.. 32701) | TS 38.133 [38] | YES | ignore |
| *>kminus2* |  |  |  |  |  |  |
| >>kminus2 | M |  | INTEGER (0.. 65401) | TS 38.133 [38] | YES | ignore |
| *>kminus3* |  |  |  |  |  |  |
| >>kminus3 | M |  | INTEGER (0..130801) | TS 38.133 [38] | YES | ignore |
| *>kminus4* |  |  |  |  |  |  |
| >>kminus4 | M |  | INTEGER (0..261601) | TS 38.133 [38] | YES | ignore |
| *>kminus5* |  |  |  |  |  |  |
| >>kminus5 | M |  | INTEGER (0..523201) | TS 38.133 [38] | YES | ignore |
| *>kminus6* |  |  |  |  |  |  |
| >>kminus6 | M |  | INTEGER (0..1046401) | TS 38.133 [38] | YES | ignore |
| >Path Quality | O |  | TRP Measurement Quality  9.3.1.172 |  | - |  |
| >Multiple UL AoA | O |  | 9.3.1.245 |  | YES | ignore |
| >Path Power | O |  | UL SRS-RSRPP  9.3.1.246 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofPath | Maximum no. of additional path measurements. Value is 2. |

#### 9.3.1.170 gNB Rx-Tx Time Difference

This information element contains the gNB Rx-Tx Time Difference measurement.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| CHOICE *gNB Rx-Tx Time Difference Measurement* | M |  |  |  | - |  |
| *>k0* |  |  |  |  |  |  |
| >>k0 | M |  | INTEGER (0.. 1970049) | TS 38.133 [38] | - |  |
| *>k1* |  |  |  |  |  |  |
| >>k1 | M |  | INTEGER (0.. 985025) | TS 38.133 [38] | - |  |
| *>k2* |  |  |  |  |  |  |
| >>k2 | M |  | INTEGER (0.. 492513) | TS 38.133 [38] | - |  |
| *>k3* |  |  |  |  |  |  |
| >>k3 | M |  | INTEGER (0.. 246257) | TS 38.133 [38] | - |  |
| *>k4* |  |  |  |  |  |  |
| >>k4 | M |  | INTEGER (0.. 123129) | TS 38.133 [38] | - |  |
| *>k5* |  |  |  |  |  |  |
| >>k5 | M |  | INTEGER (0.. 61565) | TS 38.133 [38] | - |  |
| *>kminus1* |  |  |  |  |  |  |
| >>kminus1 | M |  | INTEGER (0.. 3940097) | TS 38.133 [38] | YES | ignore |
| *>kminus2* |  |  |  |  |  |  |
| >>kminus2 | M |  | INTEGER (0.. 7880193) | TS 38.133 [38] | YES | ignore |
| *>kminus3* |  |  |  |  |  |  |
| >>kminus3 | M |  | INTEGER (0..15760385) | TS 38.133 [38] | YES | ignore |
| *>kminus4* |  |  |  |  |  |  |
| >>kminus4 | M |  | INTEGER (0..31520769) | TS 38.133 [38] | YES | ignore |
| *>kminus5* |  |  |  |  |  |  |
| >>kminus5 | M |  | INTEGER (0..63041537) | TS 38.133 [38] | YES | ignore |
| *>kminus6* |  |  |  |  |  |  |
| >>kminus6 | M |  | INTEGER (0..126083073) | TS 38.133 [38] | YES | ignore |
| Additional Path List | O |  | 9.3.1.169 |  | - |  |
| Extended Additional Path List | O |  | 9.3.1.248 |  | YES | ignore |
| TRP TEG Information | O |  | 9.3.1.253 |  | YES | ignore |

#### 9.3.1.171 Time Stamp

This information element contains the time stamp associated with the measurement.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| System Frame Number | M |  | INTEGER(0..1023) |  | - |  |
| CHOICE *Slot Index* | M |  |  |  | - |  |
| *>SCS-15* |  |  |  |  |  |  |
| >>SCS-15 | M |  | INTEGER(0..9) |  | - |  |
| *>SCS-30* |  |  |  |  |  |  |
| >>SCS-30 | M |  | INTEGER(0..19) |  | - |  |
| *>SCS-60* |  |  |  |  |  |  |
| >>SCS-60 | M |  | INTEGER(0..39) |  | - |  |
| *>SCS-120* |  |  |  |  |  |  |
| >>SCS-120 | M |  | INTEGER(0..79) |  | - |  |
| *>SCS-480* |  |  |  |  |  |  |
| >>SCS-480 | M |  | INTEGER(0..319) |  | YES | reject |
| *>SCS-960* |  |  |  |  | - |  |
| >>SCS-960 | M |  | INTEGER(0..639) |  | YES | reject |
| Measurement Time | O |  | Relative Time 1900  9.3.1.183 |  | - |  |
| Symbol Index | O |  | INTEGER(0..13) | Applicable to UL RSCP measurement only | YES | Ignore |

#### 9.3.1.172 TRP Measurement Quality

This information element contains the TRP’s best estimate of the quality of the measurement.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| CHOICE *TRP Measurement Quality* | M |  |  |  |  |  |
| *>Timing Measurement Quality* |  |  |  |  |  |  |
| >>Measurement Quality | M |  | INTEGER(0..31) | TS 37.355 [39] |  |  |
| >>Resolution | M |  | ENUMERATED(0.1m, 1m, 10m, 30m, …) | TS 37.355 [39] |  |  |
| *>Angle Measurement Quality* |  |  |  |  |  |  |
| >>Azimuth Quality | M |  | INTEGER(0..255) |  |  |  |
| >>Zenith Quality | O |  | INTEGER(0..255) |  |  |  |
| >>Resolution | M |  | ENUMERATED (0.1deg, …) |  |  |  |
| *>Phase Quality* |  |  |  | Corresponds to information provided in *NR-PhaseQuality* IE as defined in TS 37.355 [14] | YES | ignore |
| >>Phase Quality Index | M |  | INTEGER(0..179) |  | - | - |
| >>Phase Quality Resolution | M |  | ENUMERATED (0.1deg, 1deg, …) |  | - | - |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.175 Requested SRS Transmission Characteristics

This IE contains the requested SRS configuration for the UE for positioning purposes.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Number Of Periodic Transmissions | C-ifResourceTypePeriodic |  | INTEGER (0..500,…) | The number of periodic SRS transmissions requested. The value of ‘0’ represents an infinite number of SRS transmissions. | - |  |
| Resource Type | M |  | ENUMERATED (periodic, semi-persistent, aperiodic, …) |  | - |  |
| CHOICE *Bandwidth SRS* | M |  |  |  | - |  |
| *>FR1* |  |  |  |  |  |  |
| >>FR1 Bandwidth | M |  | ENUMERATED (5, 10, 20, 40, 50, 80, 100, ..., 160, 200) |  | - |  |
| >*FR2* |  |  |  |  |  |  |
| >>FR2 Bandwidth | M |  | ENUMERATED (50, 100, 200, 400,…,800,1600, 2000, 600) |  | - |  |
| **SRS Resource Set List** |  | *0.. 1* |  |  | - |  |
| **>SRS Resource Set Item** |  | *1..<* *maxnoSRS-ResourceSets>* |  |  | - |  |
| >>Number of SRS Resources Per Set | O |  | INTEGER (1..16,...) | The number of SRS Resources per resource set for SRS transmission. | - |  |
| **>>Periodicity List** |  | *0.. 1* |  |  | - |  |
| **>>>Periodicity List Item** |  | 1..<*maxnoSRS-ResourcePerSet*> |  |  | - |  |
| >>>>PeriodicitySRS | M |  | ENUMERATED (0.125, 0.25, 0.5, 0.625, 1, 1.25, 2, 2.5, 4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 160, 320, 640, 1280, 2560, 5120, 10240, …) | Milli-seconds | - |  |
| >>Spatial Relation Information | O |  | 9.3.1.181 | This IE is ignored if the *Spatial Relation Information per SRS Resource* IE is present. | - |  |
| >>Pathloss Reference Information | O |  | 9.3.1.201 |  | - |  |
| >>Spatial Relation Information per SRS Resource | O |  | 9.3.1.210 |  | YES | ignore |
| SSB Information | O |  | 9.3.1.202 |  | - |  |
| SRS Frequency | O |  | INTEGER(0..3279165) | NR ARFCN  The carrier frequency of SRS transmission bandwidth. | YES | ignore |
| Bandwidth Aggregation Request Indication | O |  | ENUMERATED(true, …) |  | YES | ignore |
| Positioning Validity Area Cell List | O |  | 9.3.1.x6 |  | YES | ignore |
| Validity Area specific SRS Information | O |  | 9.2.x9 |  | YES | ignore |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifResourceTypePeriodic | This IE shall be present if the *Resource Type* IE is set to the value "Periodic". |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoSRS-ResourceSets | Maximum no of requested SRS Resource Sets for SRS transmission. Value is 16. |
| *maxnoSRS-ResourcePerSet* | Maximum no of SRS Resources per set. Value is 16. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.177 PRS Configuration

This information element contains the DL PRS configuration for the TRP.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| **PRS Resource Set List** | M | *1..<maxnoofPRSresourceSets>* |  |  |  |  |
| >PRS Resource Set ID | M |  | INTEGER(0..7) |  |  |  |
| >Subcarrier Spacing | M |  | ENUMERATED(kHz15, kHz30, kHz60, kHz120, …) |  |  |  |
| >PRS bandwidth | M |  | INTEGER(1..63) | 24,28,…,272 PRBs |  |  |
| >Start PRB | M |  | INTEGER(0..2176) | Starting PRB to Point A |  |  |
| >Point A | M |  | INTEGER (0..3279165) | NR ARFCN |  |  |
| >Comb Size | M |  | ENUMERATED(2, 4, 6, 12, …) |  |  |  |
| >CP Type | M |  | ENUMERATED(normal, extended, …) |  |  |  |
| >Resource Set Periodicity | M |  | ENUMERATED(4,5,8,10,16,20,32,40,64,80,160,320,640,1280,2560,5120,10240,20480,40960,81920, …, 128, 256, 512) | Slots |  |  |
| >Resource Set Slot Offset | M |  | INTEGER(0..81919,…) |  |  |  |
| >Resource Repetition Factor | M |  | ENUMERATED(rf1,rf2,rf4,rf6,rf8,rf16,rf32,…) |  |  |  |
| >Resource Time Gap | M |  | ENUMERATED(tg1,tg2,tg4,tg8,tg16,tg32,…) |  |  |  |
| >Resource Number of Symbols | M |  | ENUMERATED(n2,n4,n6,n12,…,n1) |  |  |  |
| **>PRS Muting** | O |  |  |  |  |  |
| **>>Option1** | O |  |  |  |  |  |
| >>>Muting Pattern | M |  | DL-PRS Muting Pattern  9.3.1.178 | Muting pattern option 1 is used to mute the whole PRS resource set (within a period) |  |  |
| >>>Muting Bit Repetition Factor | M |  | ENUMERATED(rf1,rf2,rf4,rf8,…) |  |  |  |
| **>>Option2** | O |  |  |  |  |  |
| >>>Muting Pattern | M |  | DL-PRS Muting Pattern  9.3.1.178 | Muting pattern option 2 is used to mute the selected repetition of the resource set (within the period) |  |  |
| >PRS Resource Transmit Power | M |  | INTEGER(-60..50) |  |  |  |
| **>PRS Resource List** | M | *1..<maxnoofPRSresources>* |  | *NR-DL-PRS-Resource-r16* as defined in TS 37.355 [39] |  |  |
| >>PRS Resource ID | M |  | INTEGER(0..63) |  |  |  |
| >>Sequence ID | M |  | INTEGER(0..4095) |  |  |  |
| >>RE Offset | M |  | INTEGER(0..11, …) |  |  |  |
| >>Resource Slot Offset | M |  | INTEGER(0..511) |  |  |  |
| >>Resource Symbol Offset | M |  | INTEGER(0..12) | This IE is ignored if the *Extended Resource Symbol Offset* IE is present. |  |  |
| >>CHOICE *QCL Info* | O |  |  |  |  |  |
| *>>>SSB* |  |  |  |  |  |  |
| >>>>PCI | M |  | INTEGER (0..1007) |  |  |  |
| >>>>SSB Index | O |  | INTEGER(0..63) |  |  |  |
| *>>>DL-PRS* | O |  |  |  |  |  |
| >>>>QCL Source PRS Resource Set ID | M |  | INTEGER(0..7) |  |  |  |
| >>>>QCL Source PRS Resource ID | O |  | INTEGER(0..63) | If absent, the QCL source PRS resource ID is the same as the PRS resource ID |  |  |
| >>Extended Resource Symbol Offset | O |  | INTEGER(0..13,…) |  | Yes | ignore |
| >>Aggregated PRS Resource Set List | O |  | 9.3.1.x8 | Indicates the PRS Resource Set ID values linked for PRS bandwidth aggregation. | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofPRSresourceSets | Maximum no of PRS resource sets. Value is 8. |
| maxnoofPRSresources | Maximum no of PRS resources per PRS resource set. Value is 64. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

9.3.1.194 Positioning SRS Resource

This information element contains the SRS resource for positioning.

| **IE/Group Name** | **Presence** | **Range** | **IE Type and Reference** | **Semantics Description** | **Criticality** | **Assigned Criticality** |
| --- | --- | --- | --- | --- | --- | --- |
| Positioning SRS Resource ID | M |  | INTEGER (0..63) |  | - |  |
| CHOICE *Transmission Comb Positioning* | M |  |  |  | - |  |
| >*Comb Two* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..1) |  | - |  |
| >>Cyclic Shift | M |  | INTEGER(0..7) |  | - |  |
| >*Comb Four* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..3) |  | - |  |
| >>Cyclic Shift | M |  | INTEGER(0..11) |  | - |  |
| >*Comb Eight* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..7) |  | - |  |
| >>Cyclic Shift | M |  | INTEGER(0..5) |  | - |  |
| Start Position | M |  | INTEGER(0..13) |  | - |  |
| Number of Symbols | M |  | ENUMERATED(1,2,4,8,12) |  | - |  |
| Frequency Domain Shift | M |  | INTEGER(0..268) |  | - |  |
| C-SRS | M |  | INTEGER(0..63) |  | - |  |
| Group or Sequence Hopping | M |  | ENUMERATED(Neither, groupHopping, sequenceHopping) |  | - |  |
| CHOICE *Resource Type Positioning* | M |  |  |  | - |  |
| *>Periodic* |  |  |  |  |  |  |
| >>Periodicity | M |  | 9.3.1.y1 |  | - |  |
| >>Offset | M |  | INTEGER(0..81919,…) |  | - |  |
| *>Semi-persistent* |  |  |  |  |  |  |
| >>Periodicity | M |  | 9.3.1.y1 |  | - |  |
| >>Offset | M |  | INTEGER(0..81919,…) |  | - |  |
| *>Aperiodic* |  |  |  |  |  |  |
| >>Slot offset | M |  | INTEGER(0..32) |  | - |  |
| Sequence ID | M |  | INTEGER(0..65535) |  | - |  |
| CHOICE *Spatial Relation Positioning* | O |  |  |  | - |  |
| *>SSB* |  |  |  |  |  |  |
| >>PCI | M |  | INTEGER (0..1007) |  | - |  |
| >>SSB index | O |  | INTEGER(0..63) |  | - |  |
| *>PRS* |  |  |  |  |  |  |
| >>PRS ID | M |  | INTEGER(0..255) |  | - |  |
| >>PRS Resource Set ID | M |  | INTEGER(0..7) |  | - |  |
| >>PRS Resource ID | O |  | INTEGER(0..63) |  | - |  |
| Tx Hopping Configuration | O |  | 9.3.1.y2 |  | YES | ignore |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.196 Positioning SRS Resource Set

This information element indicates a positioning SRS resource set in the UE for UL SRS transmission.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| Positioning SRS Resource Set ID | M |  | INTEGER(0..15) |  | - |  |
| **Positioning SRS Resource ID List** |  | 1..<*maxnoSRS-PosResourcePerSet*> |  |  | - |  |
| >Positioning SRS Resource ID | M |  | INTEGER (0..63, ...) |  | - |  |
| CHOICE *Resource Type* | M |  |  |  | - |  |
| *>Periodic* |  |  |  |  | - |  |
| >>PosperiodicSet | M |  | ENUMERATED(true,…) |  | - |  |
| *>Semi-persistent* |  |  |  |  | - |  |
| >>Possemi-persistentSet | M |  | ENUMERATED(true,…) |  | - |  |
| *>Aperiodic* |  |  |  |  | - |  |
| >>SRS Resource Trigger List | M |  | INTEGER(1..3) |  | - |  |
| Aggregated Positioning SRS Resource Set List | O |  | 9.3.1.x7 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoSRS-PosResourcePerSet | Maximum no of positioning SRS resources per positioning SRS resource set. Value is 16. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.235 Requested DL PRS Transmission Characteristics

This IE contains the requested PRS configuration for transmission by the gNB-CU.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| **Requested DL-PRS Resource Set List** |  | *1* |  |  | - |  |
| **>Requested DL-PRS Resource Set Item** |  | *1*..<*maxnoofPRSresourceSets*> |  |  | - |  |
| >>PRS bandwidth | O |  | INTEGER(1..63) | 24,28,…,272 PRBs | - |  |
| >>Comb Size | O |  | ENUMERATED(2, 4, 6, 12, …) |  | - |  |
| >>Resource Set Periodicity | O |  | ENUMERATED(4,5,8,10,16,20,32,40,64,80,160,320,640,1280,2560,5120,10240,20480,40960,81920,…, 128, 256, 512) | Slots | - |  |
| >>Resource Repetition Factor | O |  | ENUMERATED(rf1,rf2,rf4,rf6,rf8,rf16,rf32,…) |  | - |  |
| >>Resource Number of Symbols | O |  | ENUMERATED(n2,n4,n6,n12,…,n1) |  | - |  |
| >>Requested DL-PRS Resource List | O |  | 9.3.1.250 |  | - |  |
| >>Resource Set Start Time and Duration | O |  | Start Time and Duration  9.3.1.236 | This IE is ignored if the *Start Time and Duration* IE is present | - |  |
| Number of Frequency Layers | O |  | INTEGER(1..4) |  | - |  |
| Start Time and Duration | O |  | 9.3.1.236 |  | - |  |
| PRS Bandwidth Aggregation Request Indication | O |  | ENUMERATED(true, …) |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofPRSresourceSets | Maximum no of PRS resources set. Value is 8. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.248 Extended Additional Path List

This IE contains the extended additional path results of time measurement.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
| Additional Path Item |  | *1..< maxNoPathExtended>* |  |  | - |  |
| >CHOICE *Relative Path Delay* | M |  |  |  | - |  |
| *>>k0* |  |  |  |  |  |  |
| >>>k0 | M |  | INTEGER(0..16351) |  | - |  |
| *>>k1* |  |  |  |  |  |  |
| >>>k1 | M |  | INTEGER(0..8176) |  | - |  |
| *>>k2* |  |  |  |  |  |  |
| >>>k2 | M |  | INTEGER(0..4088) |  | - |  |
| *>>k3* |  |  |  |  |  |  |
| >>>k3 | M |  | INTEGER(0..2044) |  | - |  |
| *>>k4* |  |  |  |  |  |  |
| >>>k4 | M |  | INTEGER(0..1022) |  | - |  |
| *>>k5* |  |  |  |  |  |  |
| >>>k5 | M |  | INTEGER(0..511) |  | - |  |
| *>kminus1* |  |  |  |  |  |  |
| >>kminus1 | M |  | INTEGER (0.. 32701) | TS 38.133 [38] | YES | ignore |
| *>kminus2* |  |  |  |  |  |  |
| >>kminus2 | M |  | INTEGER (0.. 65401) | TS 38.133 [38] | YES | ignore |
| *>kminus3* |  |  |  |  |  |  |
| >>kminus3 | M |  | INTEGER (0..130801) | TS 38.133 [38] | YES | ignore |
| *>kminus4* |  |  |  |  |  |  |
| >>kminus4 | M |  | INTEGER (0..261601) | TS 38.133 [38] | YES | ignore |
| *>kminus5* |  |  |  |  |  |  |
| >>kminus5 | M |  | INTEGER (0..523201) | TS 38.133 [38] | YES | ignore |
| *>kminus6* |  |  |  |  |  |  |
| >>kminus6 | M |  | INTEGER (0..1046401) | TS 38.133 [38] | YES | ignore |
| >Path Quality | O |  | TRP Measurement Quality  9.3.1.172 |  | - |  |
| >Path Power | O |  | UL SRS-RSRPP  9.3.1.246 |  | - |  |
| >Multiple UL AoA | O |  | 9.3.1.245 |  | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxNoPathExtended | Maximum no. of additional path measurement. Value is 8. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.254 Measurement Characteristics Request Indicator

This IE contains the measurement characteristic information requested by the gNB-CU.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| --- | --- | --- | --- | --- |
| Measurement characteristic request indicator | M |  | BIT STRING (SIZE(16)) | Each position in the bitmap represents a requested measurement characteristic:  first bit: Measurement Beam Information  Second bit: Extended Additional Path List  Third bit: Additional Path Power  Fourth Bit: Multiple UL AoA of Additional Path  Fifth bit: LoS/NLoS Information  Sixth bit: TRP Rx TEG association for UL-TDOA  Seventh bit: TRP RxTxTEG-ID information for DL+UL positioning.  Eighth bit: SRS Resource Type  Ninth bit: Multiple Measurement Instances  Tenth bit: Mobile TRP location information  X-th bit: SRS bandwidth aggregation used for joint UL positioning measurement.  Other bits reserved for future use. Value ‘1’ indicates ‘requested measurement characteristic’, Value ‘0’ indicates ‘not requested’. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.x1 Ranging and Sidelink Positioning Service Information

This IE provides information for the UE’s Ranging and Sidelink Positioning service.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Sidelink Positioning and Ranging Authorized | M |  | ENUMERATED (authorized, not authorized, …) | This IE indicates whether the UE is authorized to use RSPP communication resources and SL-PRS resources. |
| RSPP Transport QoS Parameters | O |  | 9.3.1.x2 | This IE applies only if the UE is authorized for Ranging and Sidelink Positioning service. |

#### 9.3.1.x2 RSPP Transport QoS Parameters

This IE provides information on the RSPP Transport QoS Parameters.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **RSPP Transport QoS Flow List** |  | *1* |  |  |
| **>RSPP Transport QoS Flow Item** |  | *1..<maxnoofRSPPQoSFlows>* |  |  |
| >>PQI | M |  | INTEGER (0..255, …) | PQI is a special 5QI as specified in TS 23.501 [9]. |
| **>>RSPP Transport Bit Rates** |  | *0..1* |  | Only applies for GBR QoS flows. |
| >>>Guaranteed Flow Bit Rate | M |  | Bit Rate  9.3.1.4 | Guaranteed Bit Rate for the RSPP QoS flow. Details in TS 23.501 [9]. |
| >>>Maximum Flow Bit Rate | M |  | Bit Rate  9.3.1.4 | Maximum Bit Rate for the RSPP QoS flow. Details in TS 23.501 [9]. |
| >>Range | O |  | ENUMERATED (m50, m80, m180, m200, m350, m400, m500, m700, m1000, …) | Only applies for groupcast. |
| RSPP Transport Link Aggregate Bit Rates | O |  | Bit Rate  9.3.1.4 | Only applies for Non-GBR QoS flows. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofRSPPQoSFlows | Maximum no. of RSPP QoS flows allowed towards one UE for NR Ranging and Positioning sidelink communication, the maximum value is 2048. |

#### 9.3.1.x3 Time Window Information SRS List

This IE contains the time window(s) when UL SRS transmission is requested.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| **Time Window Information SRS List** |  | *1* |  |  |
| **>Time Window Information SRS Item** |  | *1..<maxnoofTimeWindowSRS>* |  |  |
| **>>Time Window Start** |  | *1* |  |  |
| >>>System Frame Number | M |  | INTEGER(0..1023) |  |
| >>>Slot Number | M |  | INTEGER(0..79) |  |
| >>>Symbol Index | M |  | INTEGER(0..13) |  |
| >>CHOICE *Time Window Duration* | M |  |  |  |
| *>>>Symbols* |  |  |  |  |
| >>>>Duration in Symbols | M |  | ENUMERATED (1, 2, 4, 8, 12, …) |  |
| *>>>Slots* |  |  |  |  |
| >>>>Duration in Slots | M |  | ENUMERATED (1, 2, 4, 6, 8, 12, 16, …) |  |
| >>Time Window Type | M |  | ENUMERATED (single, periodic, …) |  |
| >>Time Window Periodicity | C-ifTimeWindowTypePeriodic |  | ENUMERATED (0.125, 0.25, 0.5, 0.625, 1, 1.25, 2, 2.5, 4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 160, 320, 640, 1280, 2560, 5120, 10240, …) | Unit: Milli-seconds |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifTimeWindowTypePeriodic | This IE shall be present if the *Time Window Type* IE is set to the value “periodic”. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTimeWindowSRS | Maximum no of Time Window of SRS. Value is 16. |

#### 9.3.1.x4 Time Window Information Measurement List

This IE contains the time window(s) when UL SRS measurement is requested.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| **Time Window Information Measurement List** |  | *1* |  |  |
| **>Time Window Information Measurement Item** |  | *1..<maxnoofTimeWindowMeas>* |  |  |
| >>CHOICE *Time Window Duration* | M |  |  | Duration of time window with start time given by the *System Frame Number* IE and *Slot Number* IE |
| *>>>Slots* |  |  |  |  |
| >>>>Duration in Slots | M |  | ENUMERATED (1, 2, 4, 6, 8, 12, 16, …) |  |
| >>Time Window Type | M |  | ENUMERATED (single, periodic, …) |  |
| >>Time Window Periodicity | C-ifTimeWindowTypePeriodic |  | ENUMERATED (160, 320, 640, 1280, 2560, 5120, 10240, 20480, 40960, 61440, 81920, 368640, 737280, 1843200, …) | Unit: Milli-seconds |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifTimeWindowTypePeriodic | This IE shall be present if the *Time Window Type* IE is set to the value “periodic”. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTimeWindowMeas | Maximum no of Time Window of Measurements. Value is 16. |

#### 9.3.1.x5 UL RSCP

This IE contains the UL Reference Signal Carrier Phase (RSCP) measurement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| UL RSCP | M |  | INTEGER (0..3599) | TS 38.133 [38] |

#### 9.3.1.x6 Positioning Validity Area Cell List

This IE is used to indicate the cells belong to the validity area.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **Positioning Validity Area Cell List** |  | *1* |  |  |
| **>Positioning Validity Area Cell List Item** |  | *1 .. < maxnoVACell>* |  |  |
| >>NR CGI | M |  | 9.3.1.12 |  |
| >>NR PCI | O |  | INTEGER (0..1007) |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoVACell | Maximum number of cells in a Validity Area, Number is 32. |

#### 9.3.1.x7 Aggregated Positioning SRS Resource Set List

This information element is used to indicate the aggregated Positioning SRS Resource Set List.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **Aggregated SRS Positioning Resource Set List** |  | 1 |  |  |
| **>Aggregated SRS Positioning Resource Set Item** |  | *1.. < maxnoAggregatedSRSPosResourceSets>* |  |  |
| >>Point A | M |  | INTEGER (0..3279165) | NR ARFCN |
| >>NR PCI | O |  | INTEGER(0..1007) |  |
| >>Positioning SRS Resource Set ID | M |  | INTEGER(0..15) |  |

| Range bound | Explanation |
| --- | --- |
| maxnoAggregatedPosSRSResourceSets | Maximum no of aggregated SRS Positioning Resource Sets. Value is 48. |

#### 9.3.1.x8 Aggregated PRS Resource Set List

This information element is used to indicate the aggregated PRS Resource Set List.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **Aggregated PRS Resource Set List** |  | *1* |  |  |
| **>Aggregated Positioning PRS Resource Set Item** |  | *1.. < maxnoAggregatedPosPRSResourceSets>* |  |  |
| >>Point A | M |  | INTEGER (0..3279165) | NR ARFCN |
| >>PRS Resource Set ID | M |  | INTEGER(0..7) |  |

| Range bound | Explanation |
| --- | --- |
| maxnoAggregatedPosPRSResourceSets | Maximum no of PRS resource sets aggregated. Value is 3. |

#### 9.3.1.y1 SRS Periodicity

This information element indicates the SRS periodicity.

| **IE/Group Name** | **Presence** | **Range** | **IE Type and Reference** | **Semantics Description** |
| --- | --- | --- | --- | --- |
| SRS Periodicity | M |  | ENUMERATED(slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, slot5120, slot10240, slot40960, slot81920,…, slot128, slot256, slot512, slot20480) |  |

#### 9.3.1.y2 Tx Hopping Configuration

This information element indicates the Tx hopping configuration.

| **IE/Group Name** | **Presence** | **Range** | **IE Type and Reference** | **Semantics Description** |
| --- | --- | --- | --- | --- |
| Overlap Value | M |  | ENUMERATED(rb0, rb1, rb2, rb4) |  |
| Number of Hops | M |  | INTEGER(1..6) |  |
| **Slot Offset for Remaining Hops List** |  | *1* |  |  |
| **>Slot Offset for Remaining Hops Item** |  | *1..<maxnoofHopsMinusOne>* |  |  |
| >>CHOICE *slot offset remaining hops* | M |  |  |  |
| >>>*aperiodic* |  |  |  |  |
| >>>>Slot Offset | O |  | INTEGER(1..32) |  |
| >>>>Start Position | O |  | INTEGER(0..13) |  |
| *>>>semi-persistent* |  |  |  |  |
| >>>>SRS Periodicity | M |  | 9.3.1.y1 |  |
| >>>>Offset | M |  | INTEGER(0..81919, …) |  |
| *>>>periodic* |  |  |  |  |
| >>>>SRS Periodicity | M |  | 9.3.1.y1 |  |
| >>>>Offset | M |  | INTEGER(0..81919, …) |  |

| **Range bound** | **Explanation** |
| --- | --- |
| maxnoofHopsMinusOne | Maximum no of hops that can be configured for positioning SRS transmission minus one. Value is 5. |

#### 9.3.1.x9 Validity Area specific SRS Information

This information element is used to indicate the SRS information.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **IE/Group Name** | **Presence** |
| CHOICE *Transmission Comb* | O |  |  |  | YES | ignore |
| *>Comb Two* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..1) |  |  |  |
| >>Cyclic Shift | M |  | INTEGER(0..7) |  |  |  |
| *>Comb Four* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..3) |  |  |  |
| >>Cyclic Shift | M |  | INTEGER(0..11) |  |  |  |
| *>Comb Eight* |  |  |  |  |  |  |
| >>Comb Offset | M |  | INTEGER(0..7) |  |  |  |
| >>Cyclic Shift | M |  | INTEGER(0..5) |  |  |  |
| **Resource Mapping** |  | *0..1* |  |  | YES | Ignore |
| >Start Position | M |  | INTEGER(0..13) |  | - |  |
| >Number of Symbols | M |  | ENUMERATED(n1,n2,n4, n8, n12} |  | - |  |
| Frequency Domain Shift | O |  | INTEGER(0..268) |  | YES | Ignore |
| C-SRS | O |  | INTEGER(0..63) |  | YES | Ignore |
| CHOICE *Resource Type Positioning* | O |  |  |  | YES | Ignore |
| *>periodic* |  |  |  |  |  |  |
| >>Periodicity | M |  | 9.3.1.y1 |  | - |  |
| >>Offset | M |  | INTEGER(0..81919,…) |  | - |  |
| *>semi-persistent* |  |  |  |  |  |  |
| >>Periodicity | M |  | 9.3.1.y1 |  | - |  |
| >>Offset | M |  | INTEGER(0..81919,…) |  | - |  |
| *>aperiodic* |  |  |  | Not applicable if the *Positioning Validity Area Cell List* IE is included |  |  |
| >>slot offset | M |  | INTEGER(0..32) |  | - |  |
| Sequence ID | O |  | INTEGER(0..65535) |  | YES | ignore |

#### 9.3.1.x10 Requested SRS Preconfiguration Characteristics List

This information element is used to indicate the requested SRS Preconfiguration list.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **Requested SRS Preconfiguration List** |  | *1* |  |  |
| **>Requested SRS Preconfiguration Item** |  | *1..<maxnoPreconfiguredSRS>* |  |  |
| >>Requested SRS Transmission Characteristics | M |  | 9.2.27 |  |

| Range bound | Explanation |
| --- | --- |
| maxnoPreconfiguredSRS | Maximum number of validity areas that can be configured. Value is 16. |

#### 9.3.1.x11 SRS Preconfiguration List

This information element is used to indicate the SRS Preconfiguration list.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **SRS Preconfiguration List** |  | *1* |  |  |
| **> SRS Preconfiguration Item** |  | *1..<maxnoPreconfiguredSRS>* |  |  |
| >>SRS-PosRRC-InactiveValidityAreaConfig | M |  | 9.2.27 |  |
| >>Positioning Validity Area Cell List | M |  | 9.3.1.x6 |  |

| Range bound | Explanation |
| --- | --- |
| maxnoPreconfiguredSRS | Maximum number of validity areas that can be configured. Value is 16. |

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 9.4.3 Elementary Procedure Definitions

-- ASN1START

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

--

-- Elementary Procedure definitions

--

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

F1AP-PDU-Descriptions {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

Criticality,

ProcedureCode

FROM F1AP-CommonDataTypes

Reset,

ResetAcknowledge,

F1SetupRequest,

F1SetupResponse,

F1SetupFailure,

GNBDUConfigurationUpdate,

GNBDUConfigurationUpdateAcknowledge,

GNBDUConfigurationUpdateFailure,

GNBCUConfigurationUpdate,

GNBCUConfigurationUpdateAcknowledge,

GNBCUConfigurationUpdateFailure,

UEContextSetupRequest,

UEContextSetupResponse,

UEContextSetupFailure,

UEContextReleaseCommand,

UEContextReleaseComplete,

UEContextModificationRequest,

UEContextModificationResponse,

UEContextModificationFailure,

UEContextModificationRequired,

UEContextModificationConfirm,

ErrorIndication,

UEContextReleaseRequest,

DLRRCMessageTransfer,

ULRRCMessageTransfer,

GNBDUResourceCoordinationRequest,

GNBDUResourceCoordinationResponse,

PrivateMessage,

UEInactivityNotification,

InitialULRRCMessageTransfer,

SystemInformationDeliveryCommand,

Paging,

Notify,

WriteReplaceWarningRequest,

WriteReplaceWarningResponse,

PWSCancelRequest,

PWSCancelResponse,

PWSRestartIndication,

PWSFailureIndication,

GNBDUStatusIndication,

RRCDeliveryReport,

UEContextModificationRefuse,

F1RemovalRequest,

F1RemovalResponse,

F1RemovalFailure,

NetworkAccessRateReduction,

TraceStart,

DeactivateTrace,

DUCURadioInformationTransfer,

CUDURadioInformationTransfer,

BAPMappingConfiguration,

BAPMappingConfigurationAcknowledge,

BAPMappingConfigurationFailure,

GNBDUResourceConfiguration,

GNBDUResourceConfigurationAcknowledge,

GNBDUResourceConfigurationFailure,

IABTNLAddressRequest,

IABTNLAddressResponse,

IABTNLAddressFailure,

IABUPConfigurationUpdateRequest,

IABUPConfigurationUpdateResponse,

IABUPConfigurationUpdateFailure,

ResourceStatusRequest,

ResourceStatusResponse,

ResourceStatusFailure,

ResourceStatusUpdate,

AccessAndMobilityIndication,

ReferenceTimeInformationReportingControl,

ReferenceTimeInformationReport,

AccessSuccess,

CellTrafficTrace,

PositioningMeasurementRequest,

PositioningMeasurementResponse,

PositioningMeasurementFailure,

PositioningAssistanceInformationControl,

PositioningAssistanceInformationFeedback,

PositioningMeasurementReport,

PositioningMeasurementAbort,

PositioningMeasurementFailureIndication,

PositioningMeasurementUpdate,

TRPInformationRequest,

TRPInformationResponse,

TRPInformationFailure,

PositioningInformationRequest,

PositioningInformationResponse,

PositioningInformationFailure,

PositioningActivationRequest,

PositioningActivationResponse,

PositioningActivationFailure,

PositioningDeactivation,

PositioningInformationUpdate,

E-CIDMeasurementInitiationRequest,

E-CIDMeasurementInitiationResponse,

E-CIDMeasurementInitiationFailure,

E-CIDMeasurementFailureIndication,

E-CIDMeasurementReport,

E-CIDMeasurementTerminationCommand,

BroadcastContextSetupRequest,

BroadcastContextSetupResponse,

BroadcastContextSetupFailure,

BroadcastContextReleaseCommand,

BroadcastContextReleaseComplete,

BroadcastContextReleaseRequest,

BroadcastContextModificationRequest,

BroadcastContextModificationResponse,

BroadcastContextModificationFailure,

MulticastGroupPaging,

MulticastContextSetupRequest,

MulticastContextSetupResponse,

MulticastContextSetupFailure,

MulticastContextReleaseCommand,

MulticastContextReleaseComplete,

MulticastContextReleaseRequest,

MulticastContextModificationRequest,

MulticastContextModificationResponse,

MulticastContextModificationFailure,

MulticastDistributionSetupRequest,

MulticastDistributionSetupResponse,

MulticastDistributionSetupFailure,

MulticastDistributionReleaseCommand,

MulticastDistributionReleaseComplete,

PDCMeasurementInitiationRequest,

PDCMeasurementInitiationResponse,

PDCMeasurementInitiationFailure,

PDCMeasurementReport,

PDCMeasurementTerminationCommand,

PDCMeasurementFailureIndication,

PRSConfigurationRequest,

PRSConfigurationResponse,

PRSConfigurationFailure,

MeasurementPreconfigurationRequired,

MeasurementPreconfigurationConfirm,

MeasurementPreconfigurationRefuse,

MeasurementActivation,

QoEInformationTransfer,

PosSystemInformationDeliveryCommand,

DUCUCellSwitchNotification,

CUDUCellSwitchNotification,

DUCUTAInformationTransfer,

CUDUTAInformationTransfer,

QoEInformationTransferControl,

RachIndication,

TimingSynchronisationStatusRequest,

TimingSynchronisationStatusResponse,

TimingSynchronisationStatusFailure,

TimingSynchronisationStatusReport,

MIABF1SetupTriggering,

MIABF1SetupOutcomeNotification,

MulticastContextNotificationIndication,

MulticastContextNotificationConfirm,

MulticastContextNotificationRefuse,

MulticastCommonConfigurationRequest,

MulticastCommonConfigurationResponse,

MulticastCommonConfigurationRefuse,

BroadcastTransportResourceRequest,

SRSInformationReservationNotification

FROM F1AP-PDU-Contents

id-Reset,

id-F1Setup,

id-gNBDUConfigurationUpdate,

id-gNBCUConfigurationUpdate,

id-UEContextSetup,

id-UEContextRelease,

id-UEContextModification,

id-UEContextModificationRequired,

id-ErrorIndication,

id-UEContextReleaseRequest,

id-DLRRCMessageTransfer,

id-ULRRCMessageTransfer,

id-GNBDUResourceCoordination,

id-privateMessage,

id-UEInactivityNotification,

id-InitialULRRCMessageTransfer,

id-SystemInformationDeliveryCommand,

id-Paging,

id-Notify,

id-WriteReplaceWarning,

id-PWSCancel,

id-PWSRestartIndication,

id-PWSFailureIndication,

id-GNBDUStatusIndication,

id-RRCDeliveryReport,

id-F1Removal,

id-NetworkAccessRateReduction,

id-TraceStart,

id-DeactivateTrace,

id-DUCURadioInformationTransfer,

id-CUDURadioInformationTransfer,

id-BAPMappingConfiguration,

id-GNBDUResourceConfiguration,

id-IABTNLAddressAllocation,

id-IABUPConfigurationUpdate,

id-resourceStatusReportingInitiation,

id-resourceStatusReporting,

id-accessAndMobilityIndication,

id-ReferenceTimeInformationReportingControl,

id-ReferenceTimeInformationReport,

id-accessSuccess,

id-cellTrafficTrace,

id-PositioningMeasurementExchange,

id-PositioningAssistanceInformationControl,

id-PositioningAssistanceInformationFeedback,

id-PositioningMeasurementReport,

id-PositioningMeasurementAbort,

id-PositioningMeasurementFailureIndication,

id-PositioningMeasurementUpdate,

id-TRPInformationExchange,

id-PositioningInformationExchange,

id-PositioningActivation,

id-PositioningDeactivation,

id-PositioningInformationUpdate,

id-E-CIDMeasurementInitiation,

id-E-CIDMeasurementFailureIndication,

id-E-CIDMeasurementReport,

id-E-CIDMeasurementTermination,

id-BroadcastContextSetup,

id-BroadcastContextRelease,

id-BroadcastContextReleaseRequest,

id-BroadcastContextModification,

id-MulticastGroupPaging,

id-MulticastContextSetup,

id-MulticastContextRelease,

id-MulticastContextReleaseRequest,

id-MulticastContextModification,

id-MulticastDistributionSetup,

id-MulticastDistributionRelease,

id-PDCMeasurementInitiation,

id-PDCMeasurementInitiationRequest,

id-PDCMeasurementInitiationResponse,

id-PDCMeasurementInitiationFailure,

id-PDCMeasurementTerminationCommand,

id-PDCMeasurementFailureIndication,

id-PDCMeasurementReport,

id-pRSConfigurationExchange,

id-measurementPreconfiguration,

id-measurementActivation,

id-QoEInformationTransfer,

id-PosSystemInformationDeliveryCommand,

id-DUCUCellSwitchNotification,

id-CUDUCellSwitchNotification,

id-DUCUTAInformationTransfer,

id-CUDUTAInformationTransfer,

id-QoEInformationTransferControl,

id-RachIndication,

id-TimingSynchronisationStatus,

id-TimingSynchronisationStatusReport,

id-MIABF1SetupTriggering,

id-MIABF1SetupOutcomeNotification,

id-MulticastContextNotification,

id-MulticastCommonConfiguration,

id-BroadcastTransportResourceRequest,

id-SRSInformationReservationNotification

FROM F1AP-Constants

ProtocolIE-SingleContainer{},

F1AP-PROTOCOL-IES

FROM F1AP-Containers;

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

--

-- Interface Elementary Procedure Class

--

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

F1AP-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

--

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

F1AP-PDU ::= CHOICE {

initiatingMessage InitiatingMessage,

successfulOutcome SuccessfulOutcome,

unsuccessfulOutcome UnsuccessfulOutcome,

choice-extension ProtocolIE-SingleContainer { { F1AP-PDU-ExtIEs} }

}

F1AP-PDU-ExtIEs F1AP-PROTOCOL-IES ::= { -- this extension is not used

...

}

InitiatingMessage ::= SEQUENCE {

procedureCode F1AP-ELEMENTARY-PROCEDURE.&procedureCode ({F1AP-ELEMENTARY-PROCEDURES}),

criticality F1AP-ELEMENTARY-PROCEDURE.&criticality ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value F1AP-ELEMENTARY-PROCEDURE.&InitiatingMessage ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

SuccessfulOutcome ::= SEQUENCE {

procedureCode F1AP-ELEMENTARY-PROCEDURE.&procedureCode ({F1AP-ELEMENTARY-PROCEDURES}),

criticality F1AP-ELEMENTARY-PROCEDURE.&criticality ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value F1AP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

UnsuccessfulOutcome ::= SEQUENCE {

procedureCode F1AP-ELEMENTARY-PROCEDURE.&procedureCode ({F1AP-ELEMENTARY-PROCEDURES}),

criticality F1AP-ELEMENTARY-PROCEDURE.&criticality ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode}),

value F1AP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({F1AP-ELEMENTARY-PROCEDURES}{@procedureCode})

}

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

--

-- Interface Elementary Procedure List

--

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

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

F1AP-ELEMENTARY-PROCEDURES-CLASS-1 |

F1AP-ELEMENTARY-PROCEDURES-CLASS-2,

...

}

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

reset |

f1Setup |

gNBDUConfigurationUpdate |

gNBCUConfigurationUpdate |

uEContextSetup |

uEContextRelease |

uEContextModification |

uEContextModificationRequired |

writeReplaceWarning |

pWSCancel |

gNBDUResourceCoordination |

f1Removal |

bAPMappingConfiguration |

gNBDUResourceConfiguration |

iABTNLAddressAllocation |

iABUPConfigurationUpdate |

resourceStatusReportingInitiation |

positioningMeasurementExchange |

tRPInformationExchange |

positioningInformationExchange |

positioningActivation |

e-CIDMeasurementInitiation |

broadcastContextSetup |

broadcastContextRelease |

broadcastContextModification |

multicastContextSetup |

multicastContextRelease |

multicastContextModification |

multicastDistributionSetup |

multicastDistributionRelease |

pDCMeasurementInitiation |

pRSConfigurationExchange |

measurementPreconfiguration |

timingSynchronisationStatus |

multicastContextNotification |

multicastCommonConfiguration ,

...

}

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

errorIndication |

uEContextReleaseRequest |

dLRRCMessageTransfer |

uLRRCMessageTransfer |

uEInactivityNotification |

privateMessage |

initialULRRCMessageTransfer |

systemInformationDelivery |

paging |

notify |

pWSRestartIndication |

pWSFailureIndication |

gNBDUStatusIndication |

rRCDeliveryReport |

networkAccessRateReduction |

traceStart |

deactivateTrace |

dUCURadioInformationTransfer |

cUDURadioInformationTransfer |

resourceStatusReporting |

accessAndMobilityIndication |

referenceTimeInformationReportingControl|

referenceTimeInformationReport |

accessSuccess |

cellTrafficTrace |

positioningAssistanceInformationControl |

positioningAssistanceInformationFeedback |

positioningMeasurementReport |

positioningMeasurementAbort |

positioningMeasurementFailureIndication |

positioningMeasurementUpdate |

positioningDeactivation |

e-CIDMeasurementFailureIndication |

e-CIDMeasurementReport |

e-CIDMeasurementTermination |

positioningInformationUpdate |

multicastGroupPaging |

broadcastContextReleaseRequest |

multicastContextReleaseRequest |

pDCMeasurementReport |

pDCMeasurementTerminationCommand |

pDCMeasurementFailureIndication |

measurementActivation |

qoEInformationTransfer |

posSystemInformationDelivery |

dUCUCellSwitchNotification |

cUDUCellSwitchNotification |

dUCUTAInformationTransfer |

cUDUTAInformationTransfer |

qoEInformationTransferControl |

rachIndication |

timingSynchronisationStatusReport |

mIABF1SetupTriggering |

mIABF1SetupOutcomeNotification |

broadcastTransportResourceRequest |

sRSInformationReservationNotification,

...

}

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

--

-- Interface Elementary Procedures

--

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

reset F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE Reset

SUCCESSFUL OUTCOME ResetAcknowledge

PROCEDURE CODE id-Reset

CRITICALITY reject

}

f1Setup F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE F1SetupRequest

SUCCESSFUL OUTCOME F1SetupResponse

UNSUCCESSFUL OUTCOME F1SetupFailure

PROCEDURE CODE id-F1Setup

CRITICALITY reject

}

gNBDUConfigurationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE GNBDUConfigurationUpdate

SUCCESSFUL OUTCOME GNBDUConfigurationUpdateAcknowledge

UNSUCCESSFUL OUTCOME GNBDUConfigurationUpdateFailure

PROCEDURE CODE id-gNBDUConfigurationUpdate

CRITICALITY reject

}

gNBCUConfigurationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE GNBCUConfigurationUpdate

SUCCESSFUL OUTCOME GNBCUConfigurationUpdateAcknowledge

UNSUCCESSFUL OUTCOME GNBCUConfigurationUpdateFailure

PROCEDURE CODE id-gNBCUConfigurationUpdate

CRITICALITY reject

}

uEContextSetup F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextSetupRequest

SUCCESSFUL OUTCOME UEContextSetupResponse

UNSUCCESSFUL OUTCOME UEContextSetupFailure

PROCEDURE CODE id-UEContextSetup

CRITICALITY reject

}

uEContextRelease F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextReleaseCommand

SUCCESSFUL OUTCOME UEContextReleaseComplete

PROCEDURE CODE id-UEContextRelease

CRITICALITY reject

}

uEContextModification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextModificationRequest

SUCCESSFUL OUTCOME UEContextModificationResponse

UNSUCCESSFUL OUTCOME UEContextModificationFailure

PROCEDURE CODE id-UEContextModification

CRITICALITY reject

}

uEContextModificationRequired F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextModificationRequired

SUCCESSFUL OUTCOME UEContextModificationConfirm

UNSUCCESSFUL OUTCOME UEContextModificationRefuse

PROCEDURE CODE id-UEContextModificationRequired

CRITICALITY reject

}

writeReplaceWarning F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE WriteReplaceWarningRequest

SUCCESSFUL OUTCOME WriteReplaceWarningResponse

PROCEDURE CODE id-WriteReplaceWarning

CRITICALITY reject

}

pWSCancel F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSCancelRequest

SUCCESSFUL OUTCOME PWSCancelResponse

PROCEDURE CODE id-PWSCancel

CRITICALITY reject

}

errorIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ErrorIndication

PROCEDURE CODE id-ErrorIndication

CRITICALITY ignore

}

uEContextReleaseRequest F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEContextReleaseRequest

PROCEDURE CODE id-UEContextReleaseRequest

CRITICALITY ignore

}

initialULRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE InitialULRRCMessageTransfer

PROCEDURE CODE id-InitialULRRCMessageTransfer

CRITICALITY ignore

}

dLRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DLRRCMessageTransfer

PROCEDURE CODE id-DLRRCMessageTransfer

CRITICALITY ignore

}

uLRRCMessageTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ULRRCMessageTransfer

PROCEDURE CODE id-ULRRCMessageTransfer

CRITICALITY ignore

}

uEInactivityNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE UEInactivityNotification

PROCEDURE CODE id-UEInactivityNotification

CRITICALITY ignore

}

gNBDUResourceCoordination F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE GNBDUResourceCoordinationRequest

SUCCESSFUL OUTCOME GNBDUResourceCoordinationResponse

PROCEDURE CODE id-GNBDUResourceCoordination

CRITICALITY reject

}

privateMessage F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PrivateMessage

PROCEDURE CODE id-privateMessage

CRITICALITY ignore

}

systemInformationDelivery F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SystemInformationDeliveryCommand

PROCEDURE CODE id-SystemInformationDeliveryCommand

CRITICALITY ignore

}

paging F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE Paging

PROCEDURE CODE id-Paging

CRITICALITY ignore

}

notify F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE Notify

PROCEDURE CODE id-Notify

CRITICALITY ignore

}

networkAccessRateReduction F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE NetworkAccessRateReduction

PROCEDURE CODE id-NetworkAccessRateReduction

CRITICALITY ignore

}

pWSRestartIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSRestartIndication

PROCEDURE CODE id-PWSRestartIndication

CRITICALITY ignore

}

pWSFailureIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PWSFailureIndication

PROCEDURE CODE id-PWSFailureIndication

CRITICALITY ignore

}

gNBDUStatusIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE GNBDUStatusIndication

PROCEDURE CODE id-GNBDUStatusIndication

CRITICALITY ignore

}

rRCDeliveryReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RRCDeliveryReport

PROCEDURE CODE id-RRCDeliveryReport

CRITICALITY ignore

}

f1Removal F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE F1RemovalRequest

SUCCESSFUL OUTCOME F1RemovalResponse

UNSUCCESSFUL OUTCOME F1RemovalFailure

PROCEDURE CODE id-F1Removal

CRITICALITY reject

}

traceStart F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TraceStart

PROCEDURE CODE id-TraceStart

CRITICALITY ignore

}

deactivateTrace F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DeactivateTrace

PROCEDURE CODE id-DeactivateTrace

CRITICALITY ignore

}

dUCURadioInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DUCURadioInformationTransfer

PROCEDURE CODE id-DUCURadioInformationTransfer

CRITICALITY ignore

}

cUDURadioInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CUDURadioInformationTransfer

PROCEDURE CODE id-CUDURadioInformationTransfer

CRITICALITY ignore

}

bAPMappingConfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BAPMappingConfiguration

SUCCESSFUL OUTCOME BAPMappingConfigurationAcknowledge

UNSUCCESSFUL OUTCOME BAPMappingConfigurationFailure

PROCEDURE CODE id-BAPMappingConfiguration

CRITICALITY reject

}

gNBDUResourceConfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE GNBDUResourceConfiguration

SUCCESSFUL OUTCOME GNBDUResourceConfigurationAcknowledge

UNSUCCESSFUL OUTCOME GNBDUResourceConfigurationFailure

PROCEDURE CODE id-GNBDUResourceConfiguration

CRITICALITY reject

}

iABTNLAddressAllocation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE IABTNLAddressRequest

SUCCESSFUL OUTCOME IABTNLAddressResponse

UNSUCCESSFUL OUTCOME IABTNLAddressFailure

PROCEDURE CODE id-IABTNLAddressAllocation

CRITICALITY reject

}

iABUPConfigurationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE IABUPConfigurationUpdateRequest

SUCCESSFUL OUTCOME IABUPConfigurationUpdateResponse

UNSUCCESSFUL OUTCOME IABUPConfigurationUpdateFailure

PROCEDURE CODE id-IABUPConfigurationUpdate

CRITICALITY reject

}

resourceStatusReportingInitiation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ResourceStatusRequest

SUCCESSFUL OUTCOME ResourceStatusResponse

UNSUCCESSFUL OUTCOME ResourceStatusFailure

PROCEDURE CODE id-resourceStatusReportingInitiation

CRITICALITY reject

}

resourceStatusReporting F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ResourceStatusUpdate

PROCEDURE CODE id-resourceStatusReporting

CRITICALITY ignore

}

accessAndMobilityIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AccessAndMobilityIndication

PROCEDURE CODE id-accessAndMobilityIndication

CRITICALITY ignore

}

referenceTimeInformationReportingControl F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ReferenceTimeInformationReportingControl

PROCEDURE CODE id-ReferenceTimeInformationReportingControl

CRITICALITY ignore

}

referenceTimeInformationReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE ReferenceTimeInformationReport

PROCEDURE CODE id-ReferenceTimeInformationReport

CRITICALITY ignore

}

accessSuccess F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE AccessSuccess

PROCEDURE CODE id-accessSuccess

CRITICALITY ignore

}

cellTrafficTrace F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CellTrafficTrace

PROCEDURE CODE id-cellTrafficTrace

CRITICALITY ignore

}

positioningAssistanceInformationControl F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningAssistanceInformationControl

PROCEDURE CODE id-PositioningAssistanceInformationControl

CRITICALITY ignore

}

positioningAssistanceInformationFeedback F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningAssistanceInformationFeedback

PROCEDURE CODE id-PositioningAssistanceInformationFeedback

CRITICALITY ignore

}

positioningMeasurementExchange F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningMeasurementRequest

SUCCESSFUL OUTCOME PositioningMeasurementResponse

UNSUCCESSFUL OUTCOME PositioningMeasurementFailure

PROCEDURE CODE id-PositioningMeasurementExchange

CRITICALITY reject

}

positioningMeasurementReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningMeasurementReport

PROCEDURE CODE id-PositioningMeasurementReport

CRITICALITY ignore

}

positioningMeasurementAbort F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningMeasurementAbort

PROCEDURE CODE id-PositioningMeasurementAbort

CRITICALITY ignore

}

positioningMeasurementFailureIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningMeasurementFailureIndication

PROCEDURE CODE id-PositioningMeasurementFailureIndication

CRITICALITY ignore

}

positioningMeasurementUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningMeasurementUpdate

PROCEDURE CODE id-PositioningMeasurementUpdate

CRITICALITY ignore

}

tRPInformationExchange F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TRPInformationRequest

SUCCESSFUL OUTCOME TRPInformationResponse

UNSUCCESSFUL OUTCOME TRPInformationFailure

PROCEDURE CODE id-TRPInformationExchange

CRITICALITY reject

}

positioningInformationExchange F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningInformationRequest

SUCCESSFUL OUTCOME PositioningInformationResponse

UNSUCCESSFUL OUTCOME PositioningInformationFailure

PROCEDURE CODE id-PositioningInformationExchange

CRITICALITY reject

}

positioningActivation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningActivationRequest

SUCCESSFUL OUTCOME PositioningActivationResponse

UNSUCCESSFUL OUTCOME PositioningActivationFailure

PROCEDURE CODE id-PositioningActivation

CRITICALITY reject

}

positioningDeactivation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningDeactivation

PROCEDURE CODE id-PositioningDeactivation

CRITICALITY ignore

}

e-CIDMeasurementInitiation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE E-CIDMeasurementInitiationRequest

SUCCESSFUL OUTCOME E-CIDMeasurementInitiationResponse

UNSUCCESSFUL OUTCOME E-CIDMeasurementInitiationFailure

PROCEDURE CODE id-E-CIDMeasurementInitiation

CRITICALITY reject

}

e-CIDMeasurementFailureIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE E-CIDMeasurementFailureIndication

PROCEDURE CODE id-E-CIDMeasurementFailureIndication

CRITICALITY ignore

}

e-CIDMeasurementReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE E-CIDMeasurementReport

PROCEDURE CODE id-E-CIDMeasurementReport

CRITICALITY ignore

}

e-CIDMeasurementTermination F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE E-CIDMeasurementTerminationCommand

PROCEDURE CODE id-E-CIDMeasurementTermination

CRITICALITY ignore

}

positioningInformationUpdate F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PositioningInformationUpdate

PROCEDURE CODE id-PositioningInformationUpdate

CRITICALITY ignore

}

broadcastContextSetup F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastContextSetupRequest

SUCCESSFUL OUTCOME BroadcastContextSetupResponse

UNSUCCESSFUL OUTCOME BroadcastContextSetupFailure

PROCEDURE CODE id-BroadcastContextSetup

CRITICALITY reject

}

broadcastContextRelease F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastContextReleaseCommand

SUCCESSFUL OUTCOME BroadcastContextReleaseComplete

PROCEDURE CODE id-BroadcastContextRelease

CRITICALITY reject

}

broadcastContextReleaseRequest F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastContextReleaseRequest

PROCEDURE CODE id-BroadcastContextReleaseRequest

CRITICALITY reject

}

broadcastContextModification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastContextModificationRequest

SUCCESSFUL OUTCOME BroadcastContextModificationResponse

UNSUCCESSFUL OUTCOME BroadcastContextModificationFailure

PROCEDURE CODE id-BroadcastContextModification

CRITICALITY reject

}

multicastGroupPaging F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastGroupPaging

PROCEDURE CODE id-MulticastGroupPaging

CRITICALITY ignore

}

multicastContextSetup F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastContextSetupRequest

SUCCESSFUL OUTCOME MulticastContextSetupResponse

UNSUCCESSFUL OUTCOME MulticastContextSetupFailure

PROCEDURE CODE id-MulticastContextSetup

CRITICALITY reject

}

multicastContextRelease F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastContextReleaseCommand

SUCCESSFUL OUTCOME MulticastContextReleaseComplete

PROCEDURE CODE id-MulticastContextRelease

CRITICALITY reject

}

multicastContextReleaseRequest F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastContextReleaseRequest

PROCEDURE CODE id-MulticastContextReleaseRequest

CRITICALITY reject

}

multicastContextModification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastContextModificationRequest

SUCCESSFUL OUTCOME MulticastContextModificationResponse

UNSUCCESSFUL OUTCOME MulticastContextModificationFailure

PROCEDURE CODE id-MulticastContextModification

CRITICALITY reject

}

multicastDistributionSetup F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastDistributionSetupRequest

SUCCESSFUL OUTCOME MulticastDistributionSetupResponse

UNSUCCESSFUL OUTCOME MulticastDistributionSetupFailure

PROCEDURE CODE id-MulticastDistributionSetup

CRITICALITY reject

}

multicastDistributionRelease F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastDistributionReleaseCommand

SUCCESSFUL OUTCOME MulticastDistributionReleaseComplete

PROCEDURE CODE id-MulticastDistributionRelease

CRITICALITY reject

}

pDCMeasurementInitiation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDCMeasurementInitiationRequest

SUCCESSFUL OUTCOME PDCMeasurementInitiationResponse

UNSUCCESSFUL OUTCOME PDCMeasurementInitiationFailure

PROCEDURE CODE id-PDCMeasurementInitiation

CRITICALITY reject

}

pDCMeasurementReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDCMeasurementReport

PROCEDURE CODE id-PDCMeasurementReport

CRITICALITY ignore

}

pDCMeasurementTerminationCommand F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDCMeasurementTerminationCommand

PROCEDURE CODE id-PDCMeasurementTerminationCommand

CRITICALITY ignore

}

pDCMeasurementFailureIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PDCMeasurementFailureIndication

PROCEDURE CODE id-PDCMeasurementFailureIndication

CRITICALITY ignore

}

pRSConfigurationExchange F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PRSConfigurationRequest

SUCCESSFUL OUTCOME PRSConfigurationResponse

UNSUCCESSFUL OUTCOME PRSConfigurationFailure

PROCEDURE CODE id-pRSConfigurationExchange

CRITICALITY reject

}

measurementPreconfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MeasurementPreconfigurationRequired

SUCCESSFUL OUTCOME MeasurementPreconfigurationConfirm

UNSUCCESSFUL OUTCOME MeasurementPreconfigurationRefuse

PROCEDURE CODE id-measurementPreconfiguration

CRITICALITY reject

}

measurementActivation F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MeasurementActivation

PROCEDURE CODE id-measurementActivation

CRITICALITY ignore

}

qoEInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE QoEInformationTransfer

PROCEDURE CODE id-QoEInformationTransfer

CRITICALITY ignore

}

posSystemInformationDelivery F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE PosSystemInformationDeliveryCommand

PROCEDURE CODE id-PosSystemInformationDeliveryCommand

CRITICALITY ignore

}

dUCUCellSwitchNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DUCUCellSwitchNotification

PROCEDURE CODE id-DUCUCellSwitchNotification

CRITICALITY ignore

}

cUDUCellSwitchNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CUDUCellSwitchNotification

PROCEDURE CODE id-CUDUCellSwitchNotification

CRITICALITY ignore

}

dUCUTAInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE DUCUTAInformationTransfer

PROCEDURE CODE id-DUCUTAInformationTransfer

CRITICALITY ignore

}

cUDUTAInformationTransfer F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE CUDUTAInformationTransfer

PROCEDURE CODE id-CUDUTAInformationTransfer

CRITICALITY ignore

}

qoEInformationTransferControl F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE QoEInformationTransferControl

PROCEDURE CODE id-QoEInformationTransferControl

CRITICALITY ignore

}

rachIndication F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE RachIndication

PROCEDURE CODE id-RachIndication

CRITICALITY ignore

}

timingSynchronisationStatus F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TimingSynchronisationStatusRequest

SUCCESSFUL OUTCOME TimingSynchronisationStatusResponse

UNSUCCESSFUL OUTCOME TimingSynchronisationStatusFailure

PROCEDURE CODE id-TimingSynchronisationStatus

CRITICALITY reject

}

timingSynchronisationStatusReport F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE TimingSynchronisationStatusReport

PROCEDURE CODE id-TimingSynchronisationStatusReport

CRITICALITY ignore

}

mIABF1SetupTriggering F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MIABF1SetupTriggering

PROCEDURE CODE id-MIABF1SetupTriggering

CRITICALITY ignore

}

mIABF1SetupOutcomeNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MIABF1SetupOutcomeNotification

PROCEDURE CODE id-MIABF1SetupOutcomeNotification

CRITICALITY ignore

}

multicastContextNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastContextNotificationIndication

SUCCESSFUL OUTCOME MulticastContextNotificationConfirm

UNSUCCESSFUL OUTCOME MulticastContextNotificationRefuse

PROCEDURE CODE id-MulticastContextNotification

CRITICALITY reject

}

multicastCommonConfiguration F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE MulticastCommonConfigurationRequest

SUCCESSFUL OUTCOME MulticastCommonConfigurationResponse

UNSUCCESSFUL OUTCOME MulticastCommonConfigurationRefuse

PROCEDURE CODE id-MulticastCommonConfiguration

CRITICALITY reject

}

broadcastTransportResourceRequest F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE BroadcastTransportResourceRequest

PROCEDURE CODE id-BroadcastTransportResourceRequest

CRITICALITY reject

}

sRSInformationReservationNotification F1AP-ELEMENTARY-PROCEDURE ::= {

INITIATING MESSAGE SRSInformationReservationNotification

PROCEDURE CODE id-SRSInformationReservationNotification

CRITICALITY reject

}

END

-- ASN1STOP

<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 9.4.4 PDU Definitions

-- ASN1START

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

--

-- PDU definitions for F1AP.

--

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

F1AP-PDU-Contents {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

AssociatedSessionID,

BroadcastMRBs-FailedToBeModified-Item,

BroadcastMRBs-FailedToBeSetup-Item,

BroadcastMRBs-FailedToBeSetupMod-Item,

BroadcastMRBs-Modified-Item,

BroadcastMRBs-Setup-Item,

BroadcastMRBs-SetupMod-Item,

BroadcastMRBs-ToBeModified-Item,

BroadcastMRBs-ToBeReleased-Item,

BroadcastMRBs-ToBeSetup-Item,

BroadcastMRBs-ToBeSetupMod-Item,

Candidate-SpCell-Item,

Cause,

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

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

Cells-Status-Item,

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

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

CellULConfigured,

CriticalityDiagnostics,

C-RNTI,

CUtoDURRCInformation,

DRB-Activity-Item,

DRBID,

DRBs-FailedToBeModified-Item,

DRBs-FailedToBeSetup-Item,

DRBs-FailedToBeSetupMod-Item,

DRB-Notify-Item,

DRBs-ModifiedConf-Item,

DRBs-Modified-Item,

DRBs-Required-ToBeModified-Item,

DRBs-Required-ToBeReleased-Item,

DRBs-Setup-Item,

DRBs-SetupMod-Item,

DRBs-ToBeModified-Item,

DRBs-ToBeReleased-Item,

DRBs-ToBeSetup-Item,

DRBs-ToBeSetupMod-Item,

DRXCycle,

DRXConfigurationIndicator,

DUtoCURRCInformation,

EUTRANQoS,

ExecuteDuplication,

FullConfiguration,

GNB-CU-MBS-F1AP-ID,

GNB-CU-UE-F1AP-ID,

GNB-DU-MBS-F1AP-ID,

GNB-DU-UE-F1AP-ID,

GNB-DU-ID,

GNB-DU-Served-Cells-Item,

GNB-DU-System-Information,

GNB-CU-Name,

GNB-DU-Name,

InactivityMonitoringRequest,

InactivityMonitoringResponse,

LowerLayerPresenceStatusChange,

MBS-Area-Session-ID,

MBS-CUtoDURRCInformation,

MBSMulticastF1UContextDescriptor,

MBS-Session-ID,

MBS-ServiceArea,

MulticastF1UContextReferenceCU,

MulticastF1UContext-ToBeSetup-Item,

MulticastF1UContext-Setup-Item,

MulticastF1UContext-FailedToBeSetup-Item,

MulticastMBSSessionList,

MulticastMRBs-ToBeSetup-Item,

MulticastMRBs-Setup-Item,

MulticastMRBs-FailedToBeSetup-Item,

MulticastMRBs-ToBeSetupMod-Item,

MulticastMRBs-ToBeModified-Item,

MulticastMRBs-ToBeReleased-Item,

MulticastMRBs-SetupMod-Item,

MulticastMRBs-FailedToBeSetupMod-Item,

MulticastMRBs-Modified-Item,

MulticastMRBs-FailedToBeModified-Item,

BroadcastAreaScope,

NetworkControlledRepeaterAuthorized,

NotificationControl,

NRCGI,

NRPCI,

UEContextNotRetrievable,

Potential-SpCell-Item,

RAT-FrequencyPriorityInformation,

RequestedSRSTransmissionCharacteristics,

ResourceCoordinationTransferContainer,

RRCContainer,

RRCContainer-RRCSetupComplete,

RRCReconfigurationCompleteIndicator,

SCellIndex,

SCell-ToBeRemoved-Item,

SCell-ToBeSetup-Item,

SCell-ToBeSetupMod-Item,

SCell-FailedtoSetup-Item,

SCell-FailedtoSetupMod-Item,

SDT-Volume-Threshold,

ServCellIndex,

Served-Cell-Information,

Served-Cells-To-Add-Item,

Served-Cells-To-Delete-Item,

Served-Cells-To-Modify-Item,

ServingCellMO,

SNSSAI,

SRBID,

SRBs-FailedToBeSetup-Item,

SRBs-FailedToBeSetupMod-Item,

SRBs-Required-ToBeReleased-Item,

SRBs-ToBeReleased-Item,

SRBs-ToBeSetup-Item,

SRBs-ToBeSetupMod-Item,

SRBs-Modified-Item,

SRBs-Setup-Item,

SRBs-SetupMod-Item,

SupportedUETypeList,

TimeToWait,

TransactionID,

TransmissionActionIndicator,

UE-associatedLogicalF1-ConnectionItem,

UEIdentity-List-For-Paging-Item,

DUtoCURRCContainer,

PagingCell-Item,

SItype-List,

UEIdentityIndexValue,

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

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

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

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

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

MaskedIMEISV,

PagingDRX,

PagingPriority,

PagingIdentity,

Cells-to-be-Barred-Item,

PWSSystemInformation,

Broadcast-To-Be-Cancelled-Item,

Cells-Broadcast-Cancelled-Item,

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

PWS-Failed-NR-CGI-Item,

RepetitionPeriod,

NumberofBroadcastRequest,

Cells-To-Be-Broadcast-Item,

Cells-Broadcast-Completed-Item,

Cancel-all-Warning-Messages-Indicator,

EUTRA-NR-CellResourceCoordinationReq-Container,

EUTRA-NR-CellResourceCoordinationReqAck-Container,

RequestType,

PLMN-Identity,

RLCFailureIndication,

UplinkTxDirectCurrentListInformation,

SULAccessIndication,

Protected-EUTRA-Resources-Item,

GNB-DUConfigurationQuery,

BitRate,

RRC-Version,

GNBDUOverloadInformation,

RRCDeliveryStatusRequest,

NeedforGap,

RRCDeliveryStatus,

ResourceCoordinationTransferInformation,

Dedicated-SIDelivery-NeededUE-Item,

Associated-SCell-Item,

IgnoreResourceCoordinationContainer,

PagingOrigin,

UAC-Assistance-Info,

RANUEID,

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

NotificationInformation,

TraceActivation,

TraceID,

Neighbour-Cell-Information-Item,

SymbolAllocInSlot,

NumDLULSymbols,

AdditionalRRMPriorityIndex,

DUCURadioInformationType,

CUDURadioInformationType,

Transport-Layer-Address-Info,

BHChannels-ToBeSetup-Item,

BHChannels-Setup-Item,

BHChannels-FailedToBeSetup-Item,

BHChannels-ToBeModified-Item,

BHChannels-ToBeReleased-Item,

BHChannels-ToBeSetupMod-Item,

BHChannels-FailedToBeModified-Item,

BHChannels-FailedToBeSetupMod-Item,

BHChannels-Modified-Item,

BHChannels-SetupMod-Item,

BHChannels-Required-ToBeReleased-Item,

BAPAddress,

BAPPathID,

BAPRoutingID,

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

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

Child-Nodes-List,

Child-Nodes-List-Item,

Child-Node-Cells-List,

Child-Node-Cells-List-Item,

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

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

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

IABTNLAddressesRequested,

IABIPv6RequestType,

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

IABTNLAddress,

IAB-Allocated-TNL-Address-Item,

IABv4AddressesRequested,

TrafficMappingInfo,

UL-UP-TNL-Information-to-Update-List-Item,

UL-UP-TNL-Address-to-Update-List-Item,

DL-UP-TNL-Address-to-Update-List-Item,

NRV2XServicesAuthorized,

LTEV2XServicesAuthorized,

NRUESidelinkAggregateMaximumBitrate,

LTEUESidelinkAggregateMaximumBitrate,

SLDRBs-SetupMod-Item,

SLDRBs-ModifiedConf-Item,

SLDRBID,

SLDRBs-FailedToBeModified-Item,

SLDRBs-FailedToBeSetup-Item,

SLDRBs-FailedToBeSetupMod-Item,

SLDRBs-Modified-Item,

SLDRBs-Required-ToBeModified-Item,

SLDRBs-Required-ToBeReleased-Item,

SLDRBs-Setup-Item,

SLDRBs-ToBeModified-Item,

SLDRBs-ToBeReleased-Item,

SLDRBs-ToBeSetup-Item,

SLDRBs-ToBeSetupMod-Item,

GNBCUMeasurementID,

GNBDUMeasurementID,

RegistrationRequest,

ReportCharacteristics,

CellToReportList,

HardwareLoadIndicator,

CellMeasurementResultList,

ReportingPeriodicity,

TNLCapacityIndicator,

RAReportList,

RLFReportInformationList,

ReportingRequestType,

TimeReferenceInformation,

ConditionalInterDUMobilityInformation,

ConditionalIntraDUMobilityInformation,

TargetCellList,

MDTPLMNList,

PrivacyIndicator,

TransportLayerAddress,

URI-address,

NID,

PosAssistance-Information,

PosBroadcast,

PositioningBroadcastCells,

RoutingID,

PosAssistanceInformationFailureList,

PosMeasurementQuantities,

PosMeasurementResultList,

PosReportCharacteristics,

TRPInformationTypeItem,

TRPInformationItem,

LMF-MeasurementID,

RAN-MeasurementID,

SDT-Termination-Request,

SRSResourceSetID,

SpatialRelationInfo,

SRSResourceTrigger,

SRSConfiguration,

TRPList,

E-CID-MeasurementQuantities,

MeasurementPeriodicity,

E-CID-MeasurementResult,

Cell-Portion-ID,

LMF-UE-MeasurementID,

RAN-UE-MeasurementID,

RelativeTime1900,

SystemFrameNumber,

SlotNumber,

AbortTransmission,

TRP-MeasurementRequestList,

MeasurementBeamInfoRequest,

E-CID-ReportCharacteristics,

Extended-GNB-CU-Name,

Extended-GNB-DU-Name,

F1CTransferPath,

SCGIndicator,

SpatialRelationPerSRSResource,

MeasurementPeriodicityExtended,

SuccessfulHOReportInformationList,

Coverage-Modification-Notification,

CCO-Assistance-Information,

CellsForSON-List,

IABCongestionIndication,

IABConditionalRRCMessageDeliveryIndication,

F1CTransferPathNRDC,

BufferSizeThresh,

IAB-TNL-Addresses-Exception,

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

Re-routingEnableIndicator,

NonF1terminatingTopologyIndicator,

EgressNonF1terminatingTopologyIndicator,

IngressNonF1terminatingTopologyIndicator,

Neighbour-Node-Cells-List,

Neighbour-Node-Cells-List-Item,

NA-Resource-Configuration-List,

NA-Resource-Configuration-Item,

Serving-Cells-List,

Serving-Cells-List-Item,

RBSetConfiguration,

PDCMeasurementPeriodicity,

PDCMeasurementQuantities,

PDCMeasurementResult,

PDCReportType,

RAN-UE-PDC-MeasID,

SCGActivationRequest,

SCGActivationStatus,

TRP-MeasurementUpdateList,

PRSTRPList,

PRSTransmissionTRPList,

ResponseTime,

TRP-PRS-Info-List,

PRS-Measurement-Info-List,

PRSConfigRequestType,

MeasurementCharacteristicsRequestIndicator,

MeasurementTimeOccasion,

UEReportingInformation,

PosConextRevIndication,

NRRedCapUEIndication,

NRPagingeDRXInformation,

NRPagingeDRXInformationforRRCINACTIVE,

QoEInformation,

CG-SDTQueryIndication,

CG-SDTKeptIndicator,

CG-SDTSessionInfo,

SDTInformation,

FiveG-ProSeAuthorized,

UuRLCChannelToBeSetupList,

UuRLCChannelToBeModifiedList,

UuRLCChannelToBeReleasedList,

UuRLCChannelSetupList,

UuRLCChannelFailedToBeSetupList,

UuRLCChannelModifiedList,

UuRLCChannelFailedToBeModifiedList,

UuRLCChannelRequiredToBeModifiedList,

UuRLCChannelRequiredToBeReleasedList,

PC5RLCChannelToBeSetupList,

PC5RLCChannelToBeModifiedList,

PC5RLCChannelToBeReleasedList,

PC5RLCChannelSetupList,

PC5RLCChannelFailedToBeSetupList,

PC5RLCChannelFailedToBeModifiedList,

PC5RLCChannelRequiredToBeModifiedList,

PC5RLCChannelRequiredToBeReleasedList,

PC5RLCChannelModifiedList,

RemoteUELocalID,

PathSwitchConfiguration,

SidelinkRelayConfiguration,

PagingCause,

PEIPSAssistanceInfo,

UEPagingCapability,

GNBDUUESliceMaximumBitRateList,

MDTPollutedMeasurementIndicator,

UE-MulticastMRBs-ConfirmedToBeModified-Item,

UE-MulticastMRBs-RequiredToBeModified-Item,

UE-MulticastMRBs-RequiredToBeReleased-Item,

UE-MulticastMRBs-Setup-Item,

UE-MulticastMRBs-Setupnew-Item,

UE-MulticastMRBs-ToBeReleased-Item,

UE-MulticastMRBs-ToBeSetup-Item,

UE-MulticastMRBs-ToBeSetup-atModify-Item,

PosMeasurementAmount,

BAP-Header-Rewriting-Removed-List-Item,

SLDRXCycleList,

MDTPLMNModificationList,

ActivationRequestType,

PosMeasGapPreConfigList,

PosMeasurementPeriodicityNR-AoA,

SRSPosRRCInactiveConfig,

SDTBearerConfigurationQueryIndication,

SDTBearerConfigurationInfo,

ServingCellMO-List-Item,

ServingCellMO-encoded-in-CGC-List,

PosSItypeList,

DAPS-HO-Status,

UuRLCChannelID,

UplinkTxDirectCurrentTwoCarrierListInfo,

SRSPosRRCInactiveQueryIndication,

MC-PagingCell-Item,

UlTxDirectCurrentMoreCarrierInformation,

CPACMCGInformation,

ExtendedUEIdentityIndexValue,

HashedUEIdentityIndexValue,

DedicatedSIDeliveryIndication,

Configured-BWP-List,

MT-SDT-Information,

LTMInformation-Setup,

LTMConfigurationIDMappingList, LTMInformation-Modify,

LTMCells-ToBeReleased-List, LTMConfiguration,

EarlySyncInformation-Request,

EarlySyncInformation,

EarlySyncInformation-List,

LTMCellSwitchInformation,

TAInformation-List,

DeactivationIndication,

RAReportIndicationList,

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TAI,

IndicationMCInactiveReception,

MulticastCU2DURRCInfo,

MulticastDU2CURRCInfo,

MBSMulticastSessionReceptionState,

F1UTunnelNotEstablished,

MulticastCU2DUCommonRRCInfo,

NRA2XServicesAuthorized,

LTEA2XServicesAuthorized,

NReRedCapUEIndication,

NRPaginglongeDRXInformationforRRCINACTIVE,

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ProtocolIE-Container{},

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id-BroadcastMRBs-FailedToBeModified-List,

id-BroadcastMRBs-FailedToBeModified-Item,

id-BroadcastMRBs-FailedToBeSetup-List,

id-BroadcastMRBs-FailedToBeSetup-Item,

id-BroadcastMRBs-FailedToBeSetupMod-List,

id-BroadcastMRBs-FailedToBeSetupMod-Item,

id-BroadcastMRBs-Modified-List,

id-BroadcastMRBs-Modified-Item,

id-BroadcastMRBs-Setup-List,

id-BroadcastMRBs-Setup-Item,

id-BroadcastMRBs-SetupMod-List,

id-BroadcastMRBs-SetupMod-Item,

id-BroadcastMRBs-ToBeModified-List,

id-BroadcastMRBs-ToBeModified-Item,

id-BroadcastMRBs-ToBeReleased-List,

id-BroadcastMRBs-ToBeReleased-Item,

id-BroadcastMRBs-ToBeSetup-List,

id-BroadcastMRBs-ToBeSetup-Item,

id-BroadcastMRBs-ToBeSetupMod-List,

id-BroadcastMRBs-ToBeSetupMod-Item,

id-Candidate-SpCell-Item,

id-Candidate-SpCell-List,

id-Cause,

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

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

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

id-Cells-Status-Item,

id-Cells-Status-List,

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

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

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

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

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

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

id-Cells-With-SSBs-Activated-List,

id-Recommended-SSBs-for-Paging-List,

id-ConfirmedUEID,

id-CriticalityDiagnostics,

id-C-RNTI,

id-CUtoDURRCInformation,

id-DRB-Activity-Item,

id-DRB-Activity-List,

id-DRBs-FailedToBeModified-Item,

id-DRBs-FailedToBeModified-List,

id-DRBs-FailedToBeSetup-Item,

id-DRBs-FailedToBeSetup-List,

id-DRBs-FailedToBeSetupMod-Item,

id-DRBs-FailedToBeSetupMod-List,

id-DRBs-ModifiedConf-Item,

id-DRBs-ModifiedConf-List,

id-DRBs-Modified-Item,

id-DRBs-Modified-List,

id-DRB-Notify-Item,

id-DRB-Notify-List,

id-DRBs-Required-ToBeModified-Item,

id-DRBs-Required-ToBeModified-List,

id-DRBs-Required-ToBeReleased-Item,

id-DRBs-Required-ToBeReleased-List,

id-DRBs-Setup-Item,

id-DRBs-Setup-List,

id-DRBs-SetupMod-Item,

id-DRBs-SetupMod-List,

id-DRBs-ToBeModified-Item,

id-DRBs-ToBeModified-List,

id-DRBs-ToBeReleased-Item,

id-DRBs-ToBeReleased-List,

id-DRBs-ToBeSetup-Item,

id-DRBs-ToBeSetup-List,

id-DRBs-ToBeSetupMod-Item,

id-DRBs-ToBeSetupMod-List,

id-DRXCycle,

id-DUtoCURRCInformation,

id-ExecuteDuplication,

id-FullConfiguration,

id-gNB-CU-MBS-F1AP-ID,

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

id-gNB-DU-MBS-F1AP-ID,

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

id-gNB-DU-ID,

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

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

id-gNB-CU-Name,

id-gNB-DU-Name,

id-Extended-GNB-CU-Name,

id-Extended-GNB-DU-Name,

id-InactivityMonitoringRequest,

id-InactivityMonitoringResponse,

id-MBS-Area-Session-ID,

id-MBS-CUtoDURRCInformation,

id-MBS-Session-ID,

id-MBS-ServiceArea,

id-MBSMulticastF1UContextDescriptor,

id-MC-PagingCell-Item,

id-MC-PagingCell-List,

id-MulticastF1UContextReferenceCU,

id-MulticastMBSSessionSetupList,

id-MulticastMBSSessionRemoveList,

id-MulticastMRBs-FailedToBeModified-List,

id-MulticastMRBs-FailedToBeModified-Item,

id-MulticastMRBs-FailedToBeSetup-List,

id-MulticastMRBs-FailedToBeSetup-Item,

id-MulticastMRBs-FailedToBeSetupMod-List,

id-MulticastMRBs-FailedToBeSetupMod-Item,

id-MulticastMRBs-Modified-List,

id-MulticastMRBs-Modified-Item,

id-MulticastMRBs-Setup-List,

id-MulticastMRBs-Setup-Item,

id-MulticastMRBs-SetupMod-List,

id-MulticastMRBs-SetupMod-Item,

id-MulticastMRBs-ToBeModified-List,

id-MulticastMRBs-ToBeModified-Item,

id-MulticastMRBs-ToBeReleased-List,

id-MulticastMRBs-ToBeReleased-Item,

id-MulticastMRBs-ToBeSetup-List,

id-MulticastMRBs-ToBeSetup-Item,

id-MulticastMRBs-ToBeSetupMod-List,

id-MulticastMRBs-ToBeSetupMod-Item,

id-MulticastF1UContext-ToBeSetup-List,

id-MulticastF1UContext-ToBeSetup-Item,

id-MulticastF1UContext-Setup-List,

id-MulticastF1UContext-Setup-Item,

id-MulticastF1UContext-FailedToBeSetup-List,

id-MulticastF1UContext-FailedToBeSetup-Item,

id-BroadcastAreaScope,

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

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

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

id-PLMNAssistanceInfoForNetShar,

id-Potential-SpCell-Item,

id-Potential-SpCell-List,

id-RAT-FrequencyPriorityInformation,

id-RedirectedRRCmessage,

id-ResetType,

id-RequestedSRSTransmissionCharacteristics,

id-ResourceCoordinationTransferContainer,

id-RRCContainer,

id-RRCContainer-RRCSetupComplete,

id-RRCReconfigurationCompleteIndicator,

id-SCell-FailedtoSetup-List,

id-SCell-FailedtoSetup-Item,

id-SCell-FailedtoSetupMod-List,

id-SCell-FailedtoSetupMod-Item,

id-SCell-ToBeRemoved-Item,

id-SCell-ToBeRemoved-List,

id-SCell-ToBeSetup-Item,

id-SCell-ToBeSetup-List,

id-SCell-ToBeSetupMod-Item,

id-SCell-ToBeSetupMod-List,

id-SDT-Termination-Request,

id-SDT-Volume-Threshold,

id-SelectedPLMNID,

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

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

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

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

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

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

id-ServCellIndex,

id-ServingCellMO,

id-SNSSAI,

id-SpCell-ID,

id-SpCellULConfigured,

id-SRBID,

id-SRBs-FailedToBeSetup-Item,

id-SRBs-FailedToBeSetup-List,

id-SRBs-FailedToBeSetupMod-Item,

id-SRBs-FailedToBeSetupMod-List,

id-SRBs-Required-ToBeReleased-Item,

id-SRBs-Required-ToBeReleased-List,

id-SRBs-ToBeReleased-Item,

id-SRBs-ToBeReleased-List,

id-SRBs-ToBeSetup-Item,

id-SRBs-ToBeSetup-List,

id-SRBs-ToBeSetupMod-Item,

id-SRBs-ToBeSetupMod-List,

id-SRBs-Modified-Item,

id-SRBs-Modified-List,

id-SRBs-Setup-Item,

id-SRBs-Setup-List,

id-SRBs-SetupMod-Item,

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id-SupportedUETypeList,

id-TimeToWait,

id-TransactionID,

id-TransmissionActionIndicator,

id-UEContextNotRetrievable,

id-UE-associatedLogicalF1-ConnectionItem,

id-UE-associatedLogicalF1-ConnectionListResAck,

id-UEIdentity-List-For-Paging-List,

id-UEIdentity-List-For-Paging-Item,

id-UE-MulticastMRBs-ConfirmedToBeModified-List,

id-UE-MulticastMRBs-ConfirmedToBeModified-Item,

id-UE-MulticastMRBs-RequiredToBeModified-List,

id-UE-MulticastMRBs-RequiredToBeModified-Item,

id-UE-MulticastMRBs-RequiredToBeReleased-List,

id-UE-MulticastMRBs-RequiredToBeReleased-Item,

id-UE-MulticastMRBs-Setup-List,

id-UE-MulticastMRBs-Setup-Item,

id-UE-MulticastMRBs-Setupnew-List,

id-UE-MulticastMRBs-Setupnew-Item,

id-UE-MulticastMRBs-ToBeReleased-List,

id-UE-MulticastMRBs-ToBeReleased-Item,

id-UE-MulticastMRBs-ToBeSetup-atModify-List,

id-UE-MulticastMRBs-ToBeSetup-atModify-Item,

id-UE-MulticastMRBs-ToBeSetup-List,

id-UE-MulticastMRBs-ToBeSetup-Item,

id-DUtoCURRCContainer,

id-NRCGI,

id-PagingCell-Item,

id-PagingCell-List,

id-PagingDRX,

id-PagingPriority,

id-SItype-List,

id-UEIdentityIndexValue,

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

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

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

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

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

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

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

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

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

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

id-MaskedIMEISV,

id-PagingIdentity,

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

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

id-PWSSystemInformation,

id-RepetitionPeriod,

id-NumberofBroadcastRequest,

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

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

id-Cells-Broadcast-Completed-List,

id-Cells-Broadcast-Completed-Item,

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

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

id-Cells-Broadcast-Cancelled-List,

id-Cells-Broadcast-Cancelled-Item,

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

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

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

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

id-EUTRA-NR-CellResourceCoordinationReq-Container,

id-EUTRA-NR-CellResourceCoordinationReqAck-Container,

id-Protected-EUTRA-Resources-List,

id-RequestType,

id-ServingPLMN,

id-DRXConfigurationIndicator,

id-RLCFailureIndication,

id-UplinkTxDirectCurrentListInformation,

id-SULAccessIndication,

id-Protected-EUTRA-Resources-Item,

id-GNB-DUConfigurationQuery,

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

id-GNB-CU-RRC-Version,

id-GNB-DU-RRC-Version,

id-GNBDUOverloadInformation,

id-NeedforGap,

id-RRCDeliveryStatusRequest,

id-RRCDeliveryStatus,

id-Dedicated-SIDelivery-NeededUE-List,

id-Dedicated-SIDelivery-NeededUE-Item,

id-ResourceCoordinationTransferInformation,

id-Associated-SCell-List,

id-Associated-SCell-Item,

id-IgnoreResourceCoordinationContainer,

id-UAC-Assistance-Info,

id-RANUEID,

id-PagingOrigin,

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

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

id-NotificationInformation,

id-TraceActivation,

id-TraceID,

id-Neighbour-Cell-Information-List,

id-Neighbour-Cell-Information-Item,

id-SymbolAllocInSlot,

id-NumDLULSymbols,

id-AdditionalRRMPriorityIndex,

id-DUCURadioInformationType,

id-CUDURadioInformationType,

id-LowerLayerPresenceStatusChange,

id-Transport-Layer-Address-Info,

id-BHChannels-ToBeSetup-List,

id-BHChannels-ToBeSetup-Item,

id-BHChannels-Setup-List,

id-BHChannels-Setup-Item,

id-BHChannels-ToBeModified-Item,

id-BHChannels-ToBeModified-List,

id-BHChannels-ToBeReleased-Item,

id-BHChannels-ToBeReleased-List,

id-BHChannels-ToBeSetupMod-Item,

id-BHChannels-ToBeSetupMod-List,

id-BHChannels-FailedToBeSetup-Item,

id-BHChannels-FailedToBeSetup-List,

id-BHChannels-FailedToBeModified-Item,

id-BHChannels-FailedToBeModified-List,

id-BHChannels-FailedToBeSetupMod-Item,

id-BHChannels-FailedToBeSetupMod-List,

id-BHChannels-Modified-Item,

id-BHChannels-Modified-List,

id-BHChannels-SetupMod-Item,

id-BHChannels-SetupMod-List,

id-BHChannels-Required-ToBeReleased-Item,

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id-BAPAddress,

id-ConfiguredBAPAddress,

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

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

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

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

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

id-Child-Nodes-List,

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

id-IABIPv6RequestType,

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

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

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

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

id-IABv4AddressesRequested,

id-TrafficMappingInformation,

id-UL-UP-TNL-Information-to-Update-List,

id-UL-UP-TNL-Information-to-Update-List-Item,

id-UL-UP-TNL-Address-to-Update-List,

id-UL-UP-TNL-Address-to-Update-List-Item,

id-DL-UP-TNL-Address-to-Update-List,

id-DL-UP-TNL-Address-to-Update-List-Item,

id-NRV2XServicesAuthorized,

id-LTEV2XServicesAuthorized,

id-NRUESidelinkAggregateMaximumBitrate,

id-LTEUESidelinkAggregateMaximumBitrate,

id-PC5LinkAMBR,

id-SLDRBs-FailedToBeModified-Item,

id-SLDRBs-FailedToBeModified-List,

id-SLDRBs-FailedToBeSetup-Item,

id-SLDRBs-FailedToBeSetup-List,

id-SLDRBs-Modified-Item,

id-SLDRBs-Modified-List,

id-SLDRBs-Required-ToBeModified-Item,

id-SLDRBs-Required-ToBeModified-List,

id-SLDRBs-Required-ToBeReleased-Item,

id-SLDRBs-Required-ToBeReleased-List,

id-SLDRBs-Setup-Item,

id-SLDRBs-Setup-List,

id-SLDRBs-ToBeModified-Item,

id-SLDRBs-ToBeModified-List,

id-SLDRBs-ToBeReleased-Item,

id-SLDRBs-ToBeReleased-List,

id-SLDRBs-ToBeSetup-Item,

id-SLDRBs-ToBeSetup-List,

id-SLDRBs-ToBeSetupMod-Item,

id-SLDRBs-ToBeSetupMod-List,

id-SLDRBs-SetupMod-List,

id-SLDRBs-FailedToBeSetupMod-List,

id-SLDRBs-SetupMod-Item,

id-SLDRBs-FailedToBeSetupMod-Item,

id-SLDRBs-ModifiedConf-List,

id-SLDRBs-ModifiedConf-Item,

id-gNBCUMeasurementID,

id-gNBDUMeasurementID,

id-RegistrationRequest,

id-ReportCharacteristics,

id-CellToReportList,

id-CellMeasurementResultList,

id-HardwareLoadIndicator,

id-ReportingPeriodicity,

id-TNLCapacityIndicator,

id-RAReportList,

id-RLFReportInformationList,

id-ReportingRequestType,

id-TimeReferenceInformation,

id-ConditionalInterDUMobilityInformation,

id-ConditionalIntraDUMobilityInformation,

id-targetCellsToCancel,

id-requestedTargetCellGlobalID,

id-TraceCollectionEntityIPAddress,

id-ManagementBasedMDTPLMNList,

id-PrivacyIndicator,

id-TraceCollectionEntityURI,

id-ServingNID,

id-PosAssistance-Information,

id-PosBroadcast,

id-PositioningBroadcastCells,

id-RoutingID,

id-PosAssistanceInformationFailureList,

id-PosMeasurementQuantities,

id-PosMeasurementResultList,

id-PosMeasurementPeriodicity,

id-PosReportCharacteristics,

id-TRPInformationTypeListTRPReq,

id-TRPInformationTypeItem,

id-TRPInformationListTRPResp,

id-TRPInformationItem,

id-LMF-MeasurementID,

id-RAN-MeasurementID,

id-SRSType,

id-ActivationTime,

id-AbortTransmission,

id-SRSConfiguration,

id-TRPList,

id-E-CID-MeasurementQuantities,

id-E-CID-MeasurementPeriodicity,

id-E-CID-MeasurementResult,

id-Cell-Portion-ID,

id-LMF-UE-MeasurementID,

id-RAN-UE-MeasurementID,

id-SFNInitialisationTime,

id-SystemFrameNumber,

id-SlotNumber,

id-TRP-MeasurementRequestList,

id-MeasurementBeamInfoRequest,

id-E-CID-ReportCharacteristics,

id-F1CTransferPath,

id-SCGIndicator,

id-SRSSpatialRelationPerSRSResource,

id-PosMeasurementPeriodicityExtended,

id-SuccessfulHOReportInformationList,

id-Coverage-Modification-Notification,

id-CCO-Assistance-Information,

id-CellsForSON-List,

id-IABCongestionIndication,

id-IABConditionalRRCMessageDeliveryIndication,

id-F1CTransferPathNRDC,

id-BufferSizeThresh,

id-IAB-TNL-Addresses-Exception,

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

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

id-Re-routingEnableIndicator,

id-NonF1terminatingTopologyIndicator,

id-EgressNonF1terminatingTopologyIndicator,

id-IngressNonF1terminatingTopologyIndicator,

id-Neighbour-Node-Cells-List,

id-Serving-Cells-List,

id-MDTPollutedMeasurementIndicator,

id-PDCMeasurementPeriodicity,

id-PDCMeasurementQuantities,

id-PDCMeasurementResult,

id-PDCReportType,

id-RAN-UE-PDC-MeasID,

id-SCGActivationRequest,

id-SCGActivationStatus,

id-TRP-MeasurementUpdateList,

id-PRSTRPList,

id-PRSTransmissionTRPList,

id-ResponseTime,

id-TRP-PRS-Info-List,

id-PRS-Measurement-Info-List,

id-PRSConfigRequestType,

id-MeasurementCharacteristicsRequestIndicator,

id-MeasurementTimeOccasion,

id-UEReportingInformation,

id-PosConextRevIndication,

id-NRRedCapUEIndication,

id-RANUEPagingDRX,

id-CNUEPagingDRX,

id-NRPagingeDRXInformation,

id-NRPagingeDRXInformationforRRCINACTIVE,

id-QoEInformation,

id-CG-SDTQueryIndication,

id-CG-SDTKeptIndicator,

id-CG-SDTSessionInfoOld,

id-SDTInformation,

id-FiveG-ProSeAuthorized,

id-FiveG-ProSePC5LinkAMBR,

id-FiveG-ProSeUEPC5AggregateMaximumBitrate,

id-UuRLCChannelToBeSetupList,

id-UuRLCChannelToBeModifiedList,

id-UuRLCChannelToBeReleasedList,

id-UuRLCChannelSetupList,

id-UuRLCChannelFailedToBeSetupList,

id-UuRLCChannelModifiedList,

id-UuRLCChannelFailedToBeModifiedList,

id-UuRLCChannelRequiredToBeModifiedList,

id-UuRLCChannelRequiredToBeReleasedList,

id-PC5RLCChannelToBeSetupList,

id-PC5RLCChannelToBeModifiedList,

id-PC5RLCChannelToBeReleasedList,

id-PC5RLCChannelSetupList,

id-PC5RLCChannelFailedToBeSetupList,

id-PC5RLCChannelModifiedList,

id-PC5RLCChannelFailedToBeModifiedList,

id-PC5RLCChannelRequiredToBeModifiedList,

id-PC5RLCChannelRequiredToBeReleasedList,

id-SidelinkRelayConfiguration,

id-UpdatedRemoteUELocalID,

id-PathSwitchConfiguration,

id-PagingCause,

id-PEIPSAssistanceInfo,

id-UEPagingCapability,

id-GNBDUUESliceMaximumBitRateList,

id-PosMeasurementAmount,

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

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

id-SLDRXCycleList,

id-ManagementBasedMDTPLMNModificationList,

id-ActivationRequestType,

id-PosMeasGapPreConfigList,

id-PosMeasurementPeriodicityNR-AoA,

id-SRSPosRRCInactiveConfig,

id-SDTBearerConfigurationQueryIndication,

id-SDTBearerConfigurationInfo,

id-ServingCellMO-List,

id-ServingCellMO-List-Item,

id-ServingCellMO-encoded-in-CGC-List,

id-PosSItypeList,

id-DAPS-HO-Status,

id-SRBMappingInfo,

id-UplinkTxDirectCurrentTwoCarrierListInfo,

id-SRSPosRRCInactiveQueryIndication,

id-UlTxDirectCurrentMoreCarrierInformation,

id-CPACMCGInformation,

id-ExtendedUEIdentityIndexValue,

id-HashedUEIdentityIndexValue,

id-DedicatedSIDeliveryIndication,

id-Configured-BWP-List,

id-NetworkControlledRepeaterAuthorized,

id-MT-SDT-Information,

id-LTMInformation-Setup, id-LTMConfigurationIDMappingList,

id-LTMInformation-Modify,

id-LTMCells-ToBeReleased-List,

id-LTMConfiguration,

id-EarlySyncInformation-Request,

id-EarlySyncInformation,

id-EarlySyncInformation-List,

id-LTMCellSwitchInformation,

id-TAInformation-List,

id-Source-gNB-DU-ID,

id-DeactivationIndication,

id-RAReportIndicationList,

id-SuccessfulPSCellChangeReportInformationList,

id-PathAdditionInformation,

id-RANTSSRequestType,

id-RANTimingSynchronisationStatusInfo,

id-Target-gNB-ID,

id-Target-gNB-IP-address,

id-Target-SeGW-IP-address,

id-Activated-Cells-Mapping-List,

id-Activated-Cells-Mapping-List-Item,

id-F1SetupOutcome,

id-RRC-Terminating-IAB-Donor-Related-Info,

id-RRC-Terminating-IAB-Donor-gNB-ID,

id-NCGI-to-be-Updated-List,

id-NCGI-to-be-Updated-List-Item,

id-Mobile-IAB-MTUserLocationInformation,

id-IndicationMCInactiveReception,

id-MulticastCU2DURRCInfo,

id-MulticastDU2CURRCInfo,

id-MBSMulticastSessionReceptionState,

id-F1UTunnelNotEstablished,

id-MulticastCU2DUCommonRRCInfo,

id-NRA2XServicesAuthorized,

id-LTEA2XServicesAuthorized,

id-NRUESidelinkAggregateMaximumBitrateForA2X,

id-LTEUESidelinkAggregateMaximumBitrateForA2X,

id-NReRedCapUEIndication,

id-NRPaginglongeDRXInformationforRRCINACTIVE,

id-SLPositioning-Ranging-Service-Info,

id-TimeWindowInformation-SRS-List,

id-TimeWindowInformation-Measurement-List,

id-SRSPosRRCInactiveValidityAreaConfig,

id-PosValidityAreaCellList,

id-SRSReservationType,

id-RequestedSRSPreconfigurationCharacteristics-List,

id-SRSPreconfiguration-List,

id-SRSInformation,

id-ValidityAreaSpecificSRSInformation,

maxCellingNBDU,

maxnoofCandidateSpCells,

maxnoofDRBs,

maxnoofErrors,

maxnoofIndividualF1ConnectionsToReset,

maxnoofPotentialSpCells,

maxnoofSCells,

maxnoofSRBs,

maxnoofPagingCells,

maxnoofTNLAssociations,

maxCellineNB,

maxnoofUEIDs,

maxnoofBHRLCChannels,

maxnoofRoutingEntries,

maxnoofChildIABNodes,

maxnoofServedCellsIAB,

maxnoofTLAsIAB,

maxnoofULUPTNLInformationforIAB,

maxnoofUPTNLAddresses,

maxnoofSLDRBs,

maxnoofTRPInfoTypes,

maxnoofTRPs,

maxnoofMRBs,

maxnoofUEIDforPaging,

maxnoofNeighbourNodeCellsIAB,

maxnoofMRBsforUE,

maxnoofServingCellMOs,

maxnoofLTMCells

FROM F1AP-Constants;

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

--

-- RESET ELEMENTARY PROCEDURE

--

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

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

--

-- Reset

--

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

Reset ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {ResetIEs} },

...

}

ResetIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

ResetType ::= CHOICE {

f1-Interface ResetAll,

partOfF1-Interface UE-associatedLogicalF1-ConnectionListRes,

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

}

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

...

}

ResetAll ::= ENUMERATED {

reset-all,

...

}

UE-associatedLogicalF1-ConnectionListRes ::= SEQUENCE (SIZE(1.. maxnoofIndividualF1ConnectionsToReset)) OF ProtocolIE-SingleContainer { { UE-associatedLogicalF1-ConnectionItemRes } }

UE-associatedLogicalF1-ConnectionItemRes F1AP-PROTOCOL-IES ::= {

{ ID id-UE-associatedLogicalF1-ConnectionItem CRITICALITY reject TYPE UE-associatedLogicalF1-ConnectionItem PRESENCE mandatory},

...

}

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

--

-- Reset Acknowledge

--

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

ResetAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {ResetAcknowledgeIEs} },

...

}

ResetAcknowledgeIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-UE-associatedLogicalF1-ConnectionListResAck CRITICALITY ignore TYPE UE-associatedLogicalF1-ConnectionListResAck PRESENCE optional }|

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

...

}

UE-associatedLogicalF1-ConnectionListResAck ::= SEQUENCE (SIZE(1.. maxnoofIndividualF1ConnectionsToReset)) OF ProtocolIE-SingleContainer { { UE-associatedLogicalF1-ConnectionItemResAck } }

UE-associatedLogicalF1-ConnectionItemResAck F1AP-PROTOCOL-IES ::= {

{ ID id-UE-associatedLogicalF1-ConnectionItem CRITICALITY ignore TYPE UE-associatedLogicalF1-ConnectionItem PRESENCE mandatory },

...

}

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

--

-- ERROR INDICATION ELEMENTARY PROCEDURE

--

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

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

--

-- Error Indication

--

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

ErrorIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ErrorIndicationIEs}},

...

}

ErrorIndicationIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY ignore TYPE GNB-CU-UE-F1AP-ID PRESENCE optional }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY ignore TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

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

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

...

}

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

--

-- F1 SETUP ELEMENTARY PROCEDURE

--

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

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

--

-- F1 Setup Request

--

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

F1SetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {F1SetupRequestIEs} },

...

}

F1SetupRequestIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNB-DU-ID CRITICALITY reject TYPE GNB-DU-ID PRESENCE mandatory }|

{ ID id-gNB-DU-Name CRITICALITY ignore TYPE GNB-DU-Name PRESENCE optional }|

{ ID id-gNB-DU-Served-Cells-List CRITICALITY reject TYPE GNB-DU-Served-Cells-List PRESENCE optional }|

{ ID id-GNB-DU-RRC-Version CRITICALITY reject TYPE RRC-Version PRESENCE mandatory }|

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

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

{ ID id-Extended-GNB-DU-Name CRITICALITY ignore TYPE Extended-GNB-DU-Name PRESENCE optional }|

{ ID id-RRC-Terminating-IAB-Donor-gNB-ID CRITICALITY ignore TYPE GlobalGNB-ID PRESENCE optional }|

{ ID id-Mobile-IAB-MTUserLocationInformation CRITICALITY ignore TYPE Mobile-IAB-MTUserLocationInformation PRESENCE optional },

...

}

GNB-DU-Served-Cells-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { GNB-DU-Served-Cells-ItemIEs } }

GNB-DU-Served-Cells-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-DU-Served-Cells-Item CRITICALITY reject TYPE GNB-DU-Served-Cells-Item PRESENCE mandatory },

...

}

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

--

-- F1 Setup Response

--

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

F1SetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {F1SetupResponseIEs} },

...

}

F1SetupResponseIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNB-CU-Name CRITICALITY ignore TYPE GNB-CU-Name PRESENCE optional }|

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

{ ID id-GNB-CU-RRC-Version CRITICALITY reject TYPE RRC-Version PRESENCE mandatory }|

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

{ ID id-UL-BH-Non-UP-Traffic-Mapping CRITICALITY reject TYPE UL-BH-Non-UP-Traffic-Mapping PRESENCE optional }|

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

{ ID id-Extended-GNB-CU-Name CRITICALITY ignore TYPE Extended-GNB-CU-Name PRESENCE optional }|

{ ID id-NCGI-to-be-Updated-List CRITICALITY ignore TYPE NCGI-to-be-Updated-List PRESENCE optional },

...

}

Cells-to-be-Activated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-to-be-Activated-List-ItemIEs } }

Cells-to-be-Activated-List-ItemIEs F1AP-PROTOCOL-IES::= {

{ ID id-Cells-to-be-Activated-List-Item CRITICALITY reject TYPE Cells-to-be-Activated-List-Item PRESENCE mandatory},

...

}

NCGI-to-be-Updated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { NCGI-to-be-Updated-List-ItemIEs } }

NCGI-to-be-Updated-List-ItemIEs F1AP-PROTOCOL-IES::= {

{ ID id-NCGI-to-be-Updated-List-Item CRITICALITY reject TYPE NCGI-to-be-Updated-List-Item PRESENCE mandatory},

...

}

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

--

-- F1 Setup Failure

--

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

F1SetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {F1SetupFailureIEs} },

...

}

F1SetupFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- GNB-DU CONFIGURATION UPDATE ELEMENTARY PROCEDURE

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

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

--

-- GNB-DU CONFIGURATION UPDATE

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

GNBDUConfigurationUpdate::= SEQUENCE {

protocolIEs ProtocolIE-Container { {GNBDUConfigurationUpdateIEs} },

...

}

GNBDUConfigurationUpdateIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-Served-Cells-To-Add-List CRITICALITY reject TYPE Served-Cells-To-Add-List PRESENCE optional }|

{ ID id-Served-Cells-To-Modify-List CRITICALITY reject TYPE Served-Cells-To-Modify-List PRESENCE optional }|

{ ID id-Served-Cells-To-Delete-List CRITICALITY reject TYPE Served-Cells-To-Delete-List PRESENCE optional }|

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

{ ID id-Dedicated-SIDelivery-NeededUE-List CRITICALITY ignore TYPE Dedicated-SIDelivery-NeededUE-List PRESENCE optional }|

{ ID id-gNB-DU-ID CRITICALITY reject TYPE GNB-DU-ID PRESENCE optional }|

{ ID id-GNB-DU-TNL-Association-To-Remove-List CRITICALITY reject TYPE GNB-DU-TNL-Association-To-Remove-List PRESENCE optional }|

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

{ ID id-Coverage-Modification-Notification CRITICALITY ignore TYPE Coverage-Modification-Notification PRESENCE optional }|

{ ID id-gNB-DU-Name CRITICALITY ignore TYPE GNB-DU-Name PRESENCE optional }|

{ ID id-Extended-GNB-DU-Name CRITICALITY ignore TYPE Extended-GNB-DU-Name PRESENCE optional }|

{ ID id-RRC-Terminating-IAB-Donor-Related-Info CRITICALITY ignore TYPE RRC-Terminating-IAB-Donor-Related-Info PRESENCE optional }|

{ ID id-Mobile-IAB-MTUserLocationInformation CRITICALITY ignore TYPE Mobile-IAB-MTUserLocationInformation PRESENCE optional },

...

}

Served-Cells-To-Add-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Served-Cells-To-Add-ItemIEs } }

Served-Cells-To-Modify-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Served-Cells-To-Modify-ItemIEs } }

Served-Cells-To-Delete-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Served-Cells-To-Delete-ItemIEs } }

Cells-Status-List ::= SEQUENCE (SIZE(0.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-Status-ItemIEs } }

Dedicated-SIDelivery-NeededUE-List::= SEQUENCE (SIZE(1.. maxnoofUEIDs)) OF ProtocolIE-SingleContainer { { Dedicated-SIDelivery-NeededUE-ItemIEs } }

GNB-DU-TNL-Association-To-Remove-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-DU-TNL-Association-To-Remove-ItemIEs } }

Served-Cells-To-Add-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Served-Cells-To-Add-Item CRITICALITY reject TYPE Served-Cells-To-Add-Item PRESENCE mandatory },

...

}

Served-Cells-To-Modify-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Served-Cells-To-Modify-Item CRITICALITY reject TYPE Served-Cells-To-Modify-Item PRESENCE mandatory },

...

}

Served-Cells-To-Delete-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Served-Cells-To-Delete-Item CRITICALITY reject TYPE Served-Cells-To-Delete-Item PRESENCE mandatory },

...

}

Cells-Status-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-Status-Item CRITICALITY reject TYPE Cells-Status-Item PRESENCE mandatory },

...

}

Dedicated-SIDelivery-NeededUE-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Dedicated-SIDelivery-NeededUE-Item CRITICALITY ignore TYPE Dedicated-SIDelivery-NeededUE-Item PRESENCE mandatory },

...

}

GNB-DU-TNL-Association-To-Remove-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-DU-TNL-Association-To-Remove-Item CRITICALITY reject TYPE GNB-DU-TNL-Association-To-Remove-Item PRESENCE mandatory },

...

}

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

--

-- GNB-DU CONFIGURATION UPDATE ACKNOWLEDGE

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

GNBDUConfigurationUpdateAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {GNBDUConfigurationUpdateAcknowledgeIEs} },

...

}

GNBDUConfigurationUpdateAcknowledgeIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

{ ID id-UL-BH-Non-UP-Traffic-Mapping CRITICALITY reject TYPE UL-BH-Non-UP-Traffic-Mapping PRESENCE optional }|

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

{ ID id-CellsForSON-List CRITICALITY ignore TYPE CellsForSON-List PRESENCE optional },

...

}

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

--

-- GNB-DU CONFIGURATION UPDATE FAILURE

--

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

GNBDUConfigurationUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {GNBDUConfigurationUpdateFailureIEs} },

...

}

GNBDUConfigurationUpdateFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- GNB-CU CONFIGURATION UPDATE ELEMENTARY PROCEDURE

--

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

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

--

-- GNB-CU CONFIGURATION UPDATE

--

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

GNBCUConfigurationUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { GNBCUConfigurationUpdateIEs} },

...

}

GNBCUConfigurationUpdateIEs F1AP-PROTOCOL-IES ::= {

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

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

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

{ ID id-GNB-CU-TNL-Association-To-Add-List CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Add-List PRESENCE optional }|

{ ID id-GNB-CU-TNL-Association-To-Remove-List CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Remove-List PRESENCE optional }|

{ ID id-GNB-CU-TNL-Association-To-Update-List CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Update-List PRESENCE optional }|

{ ID id-Cells-to-be-Barred-List CRITICALITY ignore TYPE Cells-to-be-Barred-List PRESENCE optional }|

{ ID id-Protected-EUTRA-Resources-List CRITICALITY reject TYPE Protected-EUTRA-Resources-List PRESENCE optional }|

{ ID id-Neighbour-Cell-Information-List CRITICALITY ignore TYPE Neighbour-Cell-Information-List PRESENCE optional }|

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

{ ID id-UL-BH-Non-UP-Traffic-Mapping CRITICALITY reject TYPE UL-BH-Non-UP-Traffic-Mapping PRESENCE optional }|

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

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

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

{ ID id-gNB-CU-Name CRITICALITY ignore TYPE GNB-CU-Name PRESENCE optional }|

{ ID id-Extended-GNB-CU-Name CRITICALITY ignore TYPE Extended-GNB-CU-Name PRESENCE optional }|

{ ID id-Cells-Allowed-to-be-Deactivated-List CRITICALITY ignore TYPE Cells-Allowed-to-be-Deactivated-List PRESENCE optional },

...

}

Cells-to-be-Deactivated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-to-be-Deactivated-List-ItemIEs } }

GNB-CU-TNL-Association-To-Add-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-CU-TNL-Association-To-Add-ItemIEs } }

GNB-CU-TNL-Association-To-Remove-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-CU-TNL-Association-To-Remove-ItemIEs } }

GNB-CU-TNL-Association-To-Update-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-CU-TNL-Association-To-Update-ItemIEs } }

Cells-to-be-Barred-List ::= SEQUENCE(SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-to-be-Barred-ItemIEs } }

Cells-Allowed-to-be-Deactivated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-Allowed-to-be-Deactivated-List-ItemIEs } }

Cells-Allowed-to-be-Deactivated-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-Allowed-to-be-Deactivated-List-Item CRITICALITY ignore TYPE Cells-Allowed-to-be-Deactivated-List-Item PRESENCE optional},

...

}

Cells-to-be-Deactivated-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-to-be-Deactivated-List-Item CRITICALITY reject TYPE Cells-to-be-Deactivated-List-Item PRESENCE mandatory },

...

}

GNB-CU-TNL-Association-To-Add-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-CU-TNL-Association-To-Add-Item CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Add-Item PRESENCE mandatory },

...

}

GNB-CU-TNL-Association-To-Remove-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-CU-TNL-Association-To-Remove-Item CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Remove-Item PRESENCE mandatory },

...

}

GNB-CU-TNL-Association-To-Update-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-CU-TNL-Association-To-Update-Item CRITICALITY ignore TYPE GNB-CU-TNL-Association-To-Update-Item PRESENCE mandatory },

...

}

Cells-to-be-Barred-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-to-be-Barred-Item CRITICALITY ignore TYPE Cells-to-be-Barred-Item PRESENCE mandatory },

...

}

Protected-EUTRA-Resources-List ::= SEQUENCE (SIZE(1.. maxCellineNB)) OF ProtocolIE-SingleContainer { { Protected-EUTRA-Resources-ItemIEs } }

Protected-EUTRA-Resources-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Protected-EUTRA-Resources-Item CRITICALITY reject TYPE Protected-EUTRA-Resources-Item PRESENCE mandatory},

...

}

Neighbour-Cell-Information-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Neighbour-Cell-Information-ItemIEs } }

Neighbour-Cell-Information-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Neighbour-Cell-Information-Item CRITICALITY ignore TYPE Neighbour-Cell-Information-Item PRESENCE mandatory},

...

}

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

--

-- GNB-CU CONFIGURATION UPDATE ACKNOWLEDGE

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

GNBCUConfigurationUpdateAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { GNBCUConfigurationUpdateAcknowledgeIEs} },

...

}

GNBCUConfigurationUpdateAcknowledgeIEs F1AP-PROTOCOL-IES ::= {

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

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

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

{ ID id-GNB-CU-TNL-Association-Setup-List CRITICALITY ignore TYPE GNB-CU-TNL-Association-Setup-List PRESENCE optional }|

{ ID id-GNB-CU-TNL-Association-Failed-To-Setup-List CRITICALITY ignore TYPE GNB-CU-TNL-Association-Failed-To-Setup-List PRESENCE optional }|

{ ID id-Dedicated-SIDelivery-NeededUE-List CRITICALITY ignore TYPE Dedicated-SIDelivery-NeededUE-List PRESENCE optional }|

{ ID id-Transport-Layer-Address-Info CRITICALITY ignore TYPE Transport-Layer-Address-Info PRESENCE optional }|

{ ID id-Cells-With-SSBs-Activated-List CRITICALITY ignore TYPE Cells-With-SSBs-Activated-List PRESENCE optional },

...

}

Cells-Failed-to-be-Activated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-Failed-to-be-Activated-List-ItemIEs } }

GNB-CU-TNL-Association-Setup-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-CU-TNL-Association-Setup-ItemIEs } }

GNB-CU-TNL-Association-Failed-To-Setup-List ::= SEQUENCE (SIZE(1.. maxnoofTNLAssociations)) OF ProtocolIE-SingleContainer { { GNB-CU-TNL-Association-Failed-To-Setup-ItemIEs } }

Cells-Failed-to-be-Activated-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-Failed-to-be-Activated-List-Item CRITICALITY reject TYPE Cells-Failed-to-be-Activated-List-Item PRESENCE mandatory },

...

}

GNB-CU-TNL-Association-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-CU-TNL-Association-Setup-Item CRITICALITY ignore TYPE GNB-CU-TNL-Association-Setup-Item PRESENCE mandatory },

...

}

GNB-CU-TNL-Association-Failed-To-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-GNB-CU-TNL-Association-Failed-To-Setup-Item CRITICALITY ignore TYPE GNB-CU-TNL-Association-Failed-To-Setup-Item PRESENCE mandatory },

...

}

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

--

-- GNB-CU CONFIGURATION UPDATE FAILURE

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

GNBCUConfigurationUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { GNBCUConfigurationUpdateFailureIEs} },

...

}

GNBCUConfigurationUpdateFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- GNB-DU RESOURCE COORDINATION REQUEST

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

GNBDUResourceCoordinationRequest ::= SEQUENCE {

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

...

}

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

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

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

{ ID id-EUTRA-NR-CellResourceCoordinationReq-Container CRITICALITY reject TYPE EUTRA-NR-CellResourceCoordinationReq-Container PRESENCE mandatory}|

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

...

}

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

--

-- GNB-DU RESOURCE COORDINATION RESPONSE

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

GNBDUResourceCoordinationResponse ::= SEQUENCE {

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

...

}

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

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

{ ID id-EUTRA-NR-CellResourceCoordinationReqAck-Container CRITICALITY reject TYPE EUTRA-NR-CellResourceCoordinationReqAck-Container PRESENCE mandatory},

...

}

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

--

-- UE Context Setup ELEMENTARY PROCEDURE

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

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

--

-- UE CONTEXT SETUP REQUEST

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

UEContextSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextSetupRequestIEs} },

...

}

UEContextSetupRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY ignore TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

{ ID id-SpCell-ID CRITICALITY reject TYPE NRCGI PRESENCE mandatory }|

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

{ ID id-SpCellULConfigured CRITICALITY ignore TYPE CellULConfigured PRESENCE optional }|

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

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

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

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

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

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

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

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

{ ID id-RAT-FrequencyPriorityInformation CRITICALITY reject TYPE RAT-FrequencyPriorityInformation PRESENCE optional }|

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

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

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

{ ID id-GNB-DU-UE-AMBR-UL CRITICALITY ignore TYPE BitRate PRESENCE conditional }|

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

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

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

{ ID id-new-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

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

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

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

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

{ ID id-ConfiguredBAPAddress CRITICALITY reject TYPE BAPAddress PRESENCE optional }|

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

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

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

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

{ ID id-PC5LinkAMBR CRITICALITY ignore TYPE BitRate PRESENCE optional}|

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

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

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

{ ID id-ServingNID CRITICALITY reject TYPE NID PRESENCE optional }|

{ ID id-F1CTransferPath CRITICALITY reject TYPE F1CTransferPath PRESENCE optional }|

{ ID id-F1CTransferPathNRDC CRITICALITY reject TYPE F1CTransferPathNRDC PRESENCE optional }|

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

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

{ ID id-CG-SDTSessionInfoOld CRITICALITY ignore TYPE CG-SDTSessionInfo PRESENCE optional }|

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

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitrate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5LinkAMBR CRITICALITY ignore TYPE BitRate PRESENCE optional}|

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

{ ID id-PC5RLCChannelToBeSetupList CRITICALITY reject TYPE PC5RLCChannelToBeSetupList PRESENCE optional}|

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

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

{ ID id-MulticastMBSSessionSetupList CRITICALITY reject TYPE MulticastMBSSessionList PRESENCE optional }|

{ ID id-UE-MulticastMRBs-ToBeSetup-List CRITICALITY reject TYPE UE-MulticastMRBs-ToBeSetup-List PRESENCE optional }|

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

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

{ ID id-SDT-Volume-Threshold CRITICALITY ignore TYPE SDT-Volume-Threshold PRESENCE optional }|

{ ID id-LTMInformation-Setup CRITICALITY reject TYPE LTMInformation-Setup PRESENCE optional }|

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

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

{ ID id-Source-gNB-DU-ID CRITICALITY reject TYPE GNB-DU-ID PRESENCE optional }|

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

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

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

{ ID id-NRUESidelinkAggregateMaximumBitrateForA2X CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-LTEUESidelinkAggregateMaximumBitrateForA2X CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

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

...

}

Candidate-SpCell-List::= SEQUENCE (SIZE(1..maxnoofCandidateSpCells)) OF ProtocolIE-SingleContainer { { Candidate-SpCell-ItemIEs} }

SCell-ToBeSetup-List::= SEQUENCE (SIZE(1..maxnoofSCells)) OF ProtocolIE-SingleContainer { { SCell-ToBeSetup-ItemIEs} }

SRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-ToBeSetup-ItemIEs} }

DRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-ToBeSetup-ItemIEs} }

BHChannels-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-ToBeSetup-ItemIEs} }

SLDRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-ToBeSetup-ItemIEs} }

UE-MulticastMRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF ProtocolIE-SingleContainer { { UE-MulticastMRBs-ToBeSetup-ItemIEs} }

ServingCellMO-List ::= SEQUENCE (SIZE(1..maxnoofServingCellMOs)) OF ProtocolIE-SingleContainer { { ServingCellMO-List-ItemIEs} }

Candidate-SpCell-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Candidate-SpCell-Item CRITICALITY ignore TYPE Candidate-SpCell-Item PRESENCE mandatory },

...

}

SCell-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCell-ToBeSetup-Item CRITICALITY ignore TYPE SCell-ToBeSetup-Item PRESENCE mandatory },

...

}

SRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-ToBeSetup-Item CRITICALITY reject TYPE SRBs-ToBeSetup-Item PRESENCE mandatory},

...

}

DRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-ToBeSetup-Item CRITICALITY reject TYPE DRBs-ToBeSetup-Item PRESENCE mandatory},

...

}

BHChannels-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-ToBeSetup-Item CRITICALITY reject TYPE BHChannels-ToBeSetup-Item PRESENCE mandatory},

...

}

SLDRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-ToBeSetup-Item CRITICALITY reject TYPE SLDRBs-ToBeSetup-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-ToBeSetup-Item CRITICALITY reject TYPE UE-MulticastMRBs-ToBeSetup-Item PRESENCE mandatory},

...

}

ServingCellMO-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-ServingCellMO-List-Item CRITICALITY reject TYPE ServingCellMO-List-Item PRESENCE mandatory},

...

}

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

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-- UE CONTEXT SETUP RESPONSE

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

UEContextSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextSetupResponseIEs} },

...

}

UEContextSetupResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-requestedTargetCellGlobalID CRITICALITY reject TYPE NRCGI PRESENCE optional}|

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

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

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

{ ID id-PC5RLCChannelSetupList CRITICALITY ignore TYPE PC5RLCChannelSetupList PRESENCE optional}|

{ ID id-PC5RLCChannelFailedToBeSetupList CRITICALITY ignore TYPE PC5RLCChannelFailedToBeSetupList PRESENCE optional}|

{ ID id-ServingCellMO-encoded-in-CGC-List CRITICALITY ignore TYPE ServingCellMO-encoded-in-CGC-List PRESENCE optional}|

{ ID id-UE-MulticastMRBs-Setupnew-List CRITICALITY reject TYPE UE-MulticastMRBs-Setupnew-List PRESENCE optional}|

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

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

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

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

...

}

DRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-Setup-ItemIEs} }

SRBs-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-FailedToBeSetup-ItemIEs} }

DRBs-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-FailedToBeSetup-ItemIEs} }

SCell-FailedtoSetup-List ::= SEQUENCE (SIZE(1..maxnoofSCells)) OF ProtocolIE-SingleContainer { { SCell-FailedtoSetup-ItemIEs} }

SRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-Setup-ItemIEs} }

BHChannels-Setup-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-Setup-ItemIEs} }

BHChannels-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-FailedToBeSetup-ItemIEs} }

DRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-Setup-Item CRITICALITY ignore TYPE DRBs-Setup-Item PRESENCE mandatory},

...

}

SRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-Setup-Item CRITICALITY ignore TYPE SRBs-Setup-Item PRESENCE mandatory},

...

}

SRBs-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-FailedToBeSetup-Item CRITICALITY ignore TYPE SRBs-FailedToBeSetup-Item PRESENCE mandatory},

...

}

DRBs-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-FailedToBeSetup-Item CRITICALITY ignore TYPE DRBs-FailedToBeSetup-Item PRESENCE mandatory},

...

}

SCell-FailedtoSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCell-FailedtoSetup-Item CRITICALITY ignore TYPE SCell-FailedtoSetup-Item PRESENCE mandatory},

...

}

BHChannels-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-Setup-Item CRITICALITY ignore TYPE BHChannels-Setup-Item PRESENCE mandatory},

...

}

BHChannels-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-FailedToBeSetup-Item CRITICALITY ignore TYPE BHChannels-FailedToBeSetup-Item PRESENCE mandatory},

...

}

SLDRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-Setup-ItemIEs} }

SLDRBs-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-FailedToBeSetup-ItemIEs} }

SLDRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-Setup-Item CRITICALITY ignore TYPE SLDRBs-Setup-Item PRESENCE mandatory},

...

}

SLDRBs-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-FailedToBeSetup-Item CRITICALITY ignore TYPE SLDRBs-FailedToBeSetup-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-Setupnew-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF ProtocolIE-SingleContainer { { UE-MulticastMRBs-Setupnew-ItemIEs } }

UE-MulticastMRBs-Setupnew-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-Setupnew-Item CRITICALITY reject TYPE UE-MulticastMRBs-Setupnew-Item PRESENCE mandatory},

...

}

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

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-- UE CONTEXT SETUP FAILURE

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

UEContextSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextSetupFailureIEs} },

...

}

UEContextSetupFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY ignore TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

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

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

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

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

...

}

Potential-SpCell-List::= SEQUENCE (SIZE(0..maxnoofPotentialSpCells)) OF ProtocolIE-SingleContainer { { Potential-SpCell-ItemIEs} }

Potential-SpCell-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Potential-SpCell-Item CRITICALITY ignore TYPE Potential-SpCell-Item PRESENCE mandatory },

...

}

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

--

-- UE Context Release Request ELEMENTARY PROCEDURE

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

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

--

-- UE Context Release Request

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

UEContextReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ UEContextReleaseRequestIEs}},

...

}

UEContextReleaseRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

{ ID id-LTMCells-ToBeReleased-List CRITICALITY ignore TYPE LTMCells-ToBeReleased-List PRESENCE optional },

...

}

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

--

-- UE Context Release (gNB-CU initiated) ELEMENTARY PROCEDURE

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

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

--

-- UE CONTEXT RELEASE COMMAND

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

UEContextReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextReleaseCommandIEs} },

...

}

UEContextReleaseCommandIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

{ ID id-SRBID CRITICALITY ignore TYPE SRBID PRESENCE conditional }|

{ ID id-oldgNB-DU-UE-F1AP-ID CRITICALITY ignore TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

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

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

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

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

{ ID id-CG-SDTKeptIndicator CRITICALITY ignore TYPE CG-SDTKeptIndicator PRESENCE optional}|

{ ID id-LTMCells-ToBeReleased-List CRITICALITY ignore TYPE LTMCells-ToBeReleased-List PRESENCE optional },

...

}

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

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-- UE CONTEXT RELEASE COMPLETE

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

UEContextReleaseComplete ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextReleaseCompleteIEs} },

...

}

UEContextReleaseCompleteIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ ID id-Recommended-SSBs-for-Paging-List CRITICALITY ignore TYPE Recommended-SSBs-for-Paging-List PRESENCE optional },

...

}

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

--

-- UE Context Modification ELEMENTARY PROCEDURE

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

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

--

-- UE CONTEXT MODIFICATION REQUEST

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

UEContextModificationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationRequestIEs} },

...

}

UEContextModificationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-SpCell-ID CRITICALITY ignore TYPE NRCGI PRESENCE optional }|

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

{ ID id-SpCellULConfigured CRITICALITY ignore TYPE CellULConfigured PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-RAT-FrequencyPriorityInformation CRITICALITY reject TYPE RAT-FrequencyPriorityInformation PRESENCE optional }|

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

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

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

{ ID id-GNB-DUConfigurationQuery CRITICALITY reject TYPE GNB-DUConfigurationQuery PRESENCE optional }|

{ ID id-GNB-DU-UE-AMBR-UL CRITICALITY ignore TYPE BitRate PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-PC5LinkAMBR CRITICALITY ignore TYPE BitRate PRESENCE optional}|

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

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

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

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

{ ID id-F1CTransferPath CRITICALITY reject TYPE F1CTransferPath PRESENCE optional }|

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

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

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

{ ID id-F1CTransferPathNRDC CRITICALITY reject TYPE F1CTransferPathNRDC PRESENCE optional }|

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

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

{ ID id-CG-SDTQueryIndication CRITICALITY ignore TYPE CG-SDTQueryIndication PRESENCE optional }|

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

{ ID id-FiveG-ProSeUEPC5AggregateMaximumBitrate CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-FiveG-ProSePC5LinkAMBR CRITICALITY ignore TYPE BitRate PRESENCE optional}|

{ ID id-UpdatedRemoteUELocalID CRITICALITY ignore TYPE RemoteUELocalID PRESENCE optional }|

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

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

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

{ ID id-PC5RLCChannelToBeSetupList CRITICALITY reject TYPE PC5RLCChannelToBeSetupList PRESENCE optional}|

{ ID id-PC5RLCChannelToBeModifiedList CRITICALITY reject TYPE PC5RLCChannelToBeModifiedList PRESENCE optional}|

{ ID id-PC5RLCChannelToBeReleasedList CRITICALITY reject TYPE PC5RLCChannelToBeReleasedList PRESENCE optional}|

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

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

{ ID id-MulticastMBSSessionSetupList CRITICALITY reject TYPE MulticastMBSSessionList PRESENCE optional }|

{ ID id-MulticastMBSSessionRemoveList CRITICALITY reject TYPE MulticastMBSSessionList PRESENCE optional }|

{ ID id-UE-MulticastMRBs-ToBeSetup-atModify-List CRITICALITY reject TYPE UE-MulticastMRBs-ToBeSetup-atModify-List PRESENCE optional }|

{ ID id-UE-MulticastMRBs-ToBeReleased-List CRITICALITY reject TYPE UE-MulticastMRBs-ToBeReleased-List PRESENCE optional }|

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

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

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

{ ID id-DAPS-HO-Status CRITICALITY ignore TYPE DAPS-HO-Status PRESENCE optional }|

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

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

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

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

{ ID id-SDT-Volume-Threshold CRITICALITY ignore TYPE SDT-Volume-Threshold PRESENCE optional }|

{ ID id-LTMInformation-Modify CRITICALITY reject TYPE LTMInformation-Modify PRESENCE optional }|

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

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

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

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

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

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

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

{ ID id-NRUESidelinkAggregateMaximumBitrateForA2X CRITICALITY ignore TYPE NRUESidelinkAggregateMaximumBitrate PRESENCE optional }|

{ ID id-LTEUESidelinkAggregateMaximumBitrateForA2X CRITICALITY ignore TYPE LTEUESidelinkAggregateMaximumBitrate PRESENCE optional }|

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

...

}

SCell-ToBeSetupMod-List::= SEQUENCE (SIZE(1..maxnoofSCells)) OF ProtocolIE-SingleContainer { { SCell-ToBeSetupMod-ItemIEs} }

SCell-ToBeRemoved-List::= SEQUENCE (SIZE(1..maxnoofSCells)) OF ProtocolIE-SingleContainer { { SCell-ToBeRemoved-ItemIEs} }

SRBs-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-ToBeSetupMod-ItemIEs} }

DRBs-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-ToBeSetupMod-ItemIEs} }

BHChannels-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-ToBeSetupMod-ItemIEs} }

DRBs-ToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-ToBeModified-ItemIEs} }

BHChannels-ToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-ToBeModified-ItemIEs} }

SRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-ToBeReleased-ItemIEs} }

DRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-ToBeReleased-ItemIEs} }

BHChannels-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-ToBeReleased-ItemIEs} }

UE-MulticastMRBs-ToBeSetup-atModify-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF

ProtocolIE-SingleContainer { { UE-MulticastMRBs-ToBeSetup-atModify-ItemIEs} }

UE-MulticastMRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF ProtocolIE-SingleContainer { { UE-MulticastMRBs-ToBeReleased-ItemIEs} }

SCell-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCell-ToBeSetupMod-Item CRITICALITY ignore TYPE SCell-ToBeSetupMod-Item PRESENCE mandatory },

...

}

SCell-ToBeRemoved-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCell-ToBeRemoved-Item CRITICALITY ignore TYPE SCell-ToBeRemoved-Item PRESENCE mandatory },

...

}

SRBs-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-ToBeSetupMod-Item CRITICALITY reject TYPE SRBs-ToBeSetupMod-Item PRESENCE mandatory},

...

}

DRBs-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-ToBeSetupMod-Item CRITICALITY reject TYPE DRBs-ToBeSetupMod-Item PRESENCE mandatory},

...

}

DRBs-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-ToBeModified-Item CRITICALITY reject TYPE DRBs-ToBeModified-Item PRESENCE mandatory},

...

}

SRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-ToBeReleased-Item CRITICALITY reject TYPE SRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

DRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-ToBeReleased-Item CRITICALITY reject TYPE DRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

BHChannels-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-ToBeSetupMod-Item CRITICALITY reject TYPE BHChannels-ToBeSetupMod-Item PRESENCE mandatory},

...

}

BHChannels-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-ToBeModified-Item CRITICALITY reject TYPE BHChannels-ToBeModified-Item PRESENCE mandatory},

...

}

BHChannels-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-ToBeReleased-Item CRITICALITY reject TYPE BHChannels-ToBeReleased-Item PRESENCE mandatory},

...

}

SLDRBs-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-ToBeSetupMod-ItemIEs} }

SLDRBs-ToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-ToBeModified-ItemIEs} }

SLDRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-ToBeReleased-ItemIEs} }

SLDRBs-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-ToBeSetupMod-Item CRITICALITY reject TYPE SLDRBs-ToBeSetupMod-Item PRESENCE mandatory},

...

}

SLDRBs-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-ToBeModified-Item CRITICALITY reject TYPE SLDRBs-ToBeModified-Item PRESENCE mandatory},

...

}

SLDRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-ToBeReleased-Item CRITICALITY reject TYPE SLDRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-ToBeSetup-atModify-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-ToBeSetup-atModify-Item CRITICALITY reject TYPE UE-MulticastMRBs-ToBeSetup-atModify-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-ToBeReleased-Item CRITICALITY reject TYPE UE-MulticastMRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

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

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-- UE CONTEXT MODIFICATION RESPONSE

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

UEContextModificationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationResponseIEs} },

...

}

UEContextModificationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

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

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

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

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

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

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

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

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

{ ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional }|

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

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

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

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

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

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

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

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

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

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

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

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

{ ID id-requestedTargetCellGlobalID CRITICALITY reject TYPE NRCGI PRESENCE optional}|

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

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

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

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

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

{ ID id-PC5RLCChannelSetupList CRITICALITY ignore TYPE PC5RLCChannelSetupList PRESENCE optional}|

{ ID id-PC5RLCChannelFailedToBeSetupList CRITICALITY ignore TYPE PC5RLCChannelFailedToBeSetupList PRESENCE optional}|

{ ID id-PC5RLCChannelModifiedList CRITICALITY ignore TYPE PC5RLCChannelModifiedList PRESENCE optional}|

{ ID id-PC5RLCChannelFailedToBeModifiedList CRITICALITY ignore TYPE PC5RLCChannelFailedToBeModifiedList PRESENCE optional}|

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

{ ID id-UE-MulticastMRBs-Setup-List CRITICALITY reject TYPE UE-MulticastMRBs-Setup-List PRESENCE optional}|

{ ID id-ServingCellMO-encoded-in-CGC-List CRITICALITY ignore TYPE ServingCellMO-encoded-in-CGC-List PRESENCE optional}|

{ ID id-DedicatedSIDeliveryIndication CRITICALITY ignore TYPE DedicatedSIDeliveryIndication PRESENCE optional}| { ID id-Configured-BWP-List CRITICALITY ignore TYPE Configured-BWP-List PRESENCE optional}|

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

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

...

}

DRBs-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-SetupMod-ItemIEs} }

DRBs-Modified-List::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-Modified-ItemIEs } }

SRBs-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-SetupMod-ItemIEs} }

SRBs-Modified-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-Modified-ItemIEs } }

DRBs-FailedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-FailedToBeModified-ItemIEs} }

SRBs-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-FailedToBeSetupMod-ItemIEs} }

DRBs-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-FailedToBeSetupMod-ItemIEs} }

SCell-FailedtoSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSCells)) OF ProtocolIE-SingleContainer { { SCell-FailedtoSetupMod-ItemIEs} }

BHChannels-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-SetupMod-ItemIEs} }

BHChannels-Modified-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-Modified-ItemIEs } }

BHChannels-FailedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-FailedToBeModified-ItemIEs} }

BHChannels-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-FailedToBeSetupMod-ItemIEs} }

Associated-SCell-List ::= SEQUENCE (SIZE(1.. maxnoofSCells)) OF ProtocolIE-SingleContainer { { Associated-SCell-ItemIEs} }

DRBs-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-SetupMod-Item CRITICALITY ignore TYPE DRBs-SetupMod-Item PRESENCE mandatory},

...

}

DRBs-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-Modified-Item CRITICALITY ignore TYPE DRBs-Modified-Item PRESENCE mandatory},

...

}

SRBs-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-SetupMod-Item CRITICALITY ignore TYPE SRBs-SetupMod-Item PRESENCE mandatory},

...

}

SRBs-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-Modified-Item CRITICALITY ignore TYPE SRBs-Modified-Item PRESENCE mandatory},

...

}

SRBs-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-FailedToBeSetupMod-Item CRITICALITY ignore TYPE SRBs-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

DRBs-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-FailedToBeSetupMod-Item CRITICALITY ignore TYPE DRBs-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

DRBs-FailedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-FailedToBeModified-Item CRITICALITY ignore TYPE DRBs-FailedToBeModified-Item PRESENCE mandatory},

...

}

SCell-FailedtoSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCell-FailedtoSetupMod-Item CRITICALITY ignore TYPE SCell-FailedtoSetupMod-Item PRESENCE mandatory},

...

}

Associated-SCell-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Associated-SCell-Item CRITICALITY ignore TYPE Associated-SCell-Item PRESENCE mandatory},

...

}

BHChannels-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-SetupMod-Item CRITICALITY ignore TYPE BHChannels-SetupMod-Item PRESENCE mandatory},

...

}

BHChannels-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-Modified-Item CRITICALITY ignore TYPE BHChannels-Modified-Item PRESENCE mandatory},

...

}

BHChannels-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-FailedToBeSetupMod-Item CRITICALITY ignore TYPE BHChannels-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

BHChannels-FailedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-FailedToBeModified-Item CRITICALITY ignore TYPE BHChannels-FailedToBeModified-Item PRESENCE mandatory},

...

}

SLDRBs-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-SetupMod-ItemIEs} }

SLDRBs-Modified-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-Modified-ItemIEs } }

SLDRBs-FailedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-FailedToBeModified-ItemIEs} }

SLDRBs-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-FailedToBeSetupMod-ItemIEs} }

SLDRBs-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-SetupMod-Item CRITICALITY ignore TYPE SLDRBs-SetupMod-Item PRESENCE mandatory},

...

}

SLDRBs-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-Modified-Item CRITICALITY ignore TYPE SLDRBs-Modified-Item PRESENCE mandatory},

...

}

SLDRBs-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-FailedToBeSetupMod-Item CRITICALITY ignore TYPE SLDRBs-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

SLDRBs-FailedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-FailedToBeModified-Item CRITICALITY ignore TYPE SLDRBs-FailedToBeModified-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF ProtocolIE-SingleContainer { { UE-MulticastMRBs-Setup-ItemIEs } }

UE-MulticastMRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-Setup-Item CRITICALITY reject TYPE UE-MulticastMRBs-Setup-Item PRESENCE mandatory},

...

}

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

--

-- UE CONTEXT MODIFICATION FAILURE

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

UEContextModificationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationFailureIEs} },

...

}

UEContextModificationFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID 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 NRCGI PRESENCE optional},

...

}

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

--

-- UE Context Modification Required (gNB-DU initiated) ELEMENTARY PROCEDURE

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

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

--

-- UE CONTEXT MODIFICATION REQUIRED

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

UEContextModificationRequired ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationRequiredIEs} },

...

}

UEContextModificationRequiredIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

{ ID id-DRBs-Required-ToBeModified-List CRITICALITY reject TYPE DRBs-Required-ToBeModified-List PRESENCE optional}|

{ ID id-SRBs-Required-ToBeReleased-List CRITICALITY reject TYPE SRBs-Required-ToBeReleased-List PRESENCE optional}|

{ ID id-DRBs-Required-ToBeReleased-List CRITICALITY reject TYPE DRBs-Required-ToBeReleased-List PRESENCE optional}|

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

{ ID id-BHChannels-Required-ToBeReleased-List CRITICALITY reject TYPE BHChannels-Required-ToBeReleased-List PRESENCE optional}|

{ ID id-SLDRBs-Required-ToBeModified-List CRITICALITY reject TYPE SLDRBs-Required-ToBeModified-List PRESENCE optional}|

{ ID id-SLDRBs-Required-ToBeReleased-List CRITICALITY reject TYPE SLDRBs-Required-ToBeReleased-List PRESENCE optional}|

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

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

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

{ ID id-PC5RLCChannelRequiredToBeModifiedList CRITICALITY reject TYPE PC5RLCChannelRequiredToBeModifiedList PRESENCE optional}|

{ ID id-PC5RLCChannelRequiredToBeReleasedList CRITICALITY reject TYPE PC5RLCChannelRequiredToBeReleasedList PRESENCE optional}|

{ ID id-UE-MulticastMRBs-RequiredToBeModified-List CRITICALITY reject TYPE UE-MulticastMRBs-RequiredToBeModified-List PRESENCE optional }|

{ ID id-UE-MulticastMRBs-RequiredToBeReleased-List CRITICALITY reject TYPE UE-MulticastMRBs-RequiredToBeReleased-List PRESENCE optional }|

{ ID id-LTMCells-ToBeReleased-List CRITICALITY ignore TYPE LTMCells-ToBeReleased-List PRESENCE optional },

...

}

DRBs-Required-ToBeModified-List::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-Required-ToBeModified-ItemIEs } }

DRBs-Required-ToBeReleased-List::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-Required-ToBeReleased-ItemIEs } }

SRBs-Required-ToBeReleased-List::= SEQUENCE (SIZE(1..maxnoofSRBs)) OF ProtocolIE-SingleContainer { { SRBs-Required-ToBeReleased-ItemIEs } }

BHChannels-Required-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofBHRLCChannels)) OF ProtocolIE-SingleContainer { { BHChannels-Required-ToBeReleased-ItemIEs } }

DRBs-Required-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-Required-ToBeModified-Item CRITICALITY reject TYPE DRBs-Required-ToBeModified-Item PRESENCE mandatory},

...

}

DRBs-Required-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-Required-ToBeReleased-Item CRITICALITY reject TYPE DRBs-Required-ToBeReleased-Item PRESENCE mandatory},

...

}

SRBs-Required-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SRBs-Required-ToBeReleased-Item CRITICALITY reject TYPE SRBs-Required-ToBeReleased-Item PRESENCE mandatory},

...

}

BHChannels-Required-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BHChannels-Required-ToBeReleased-Item CRITICALITY reject TYPE BHChannels-Required-ToBeReleased-Item PRESENCE mandatory},

...

}

SLDRBs-Required-ToBeModified-List::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-Required-ToBeModified-ItemIEs } }

SLDRBs-Required-ToBeReleased-List::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-Required-ToBeReleased-ItemIEs } }

SLDRBs-Required-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-Required-ToBeModified-Item CRITICALITY reject TYPE SLDRBs-Required-ToBeModified-Item PRESENCE mandatory},

...

}

SLDRBs-Required-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-Required-ToBeReleased-Item CRITICALITY reject TYPE SLDRBs-Required-ToBeReleased-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-RequiredToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF

ProtocolIE-SingleContainer { { UE-MulticastMRBs-RequiredToBeModified-ItemIEs} }

UE-MulticastMRBs-RequiredToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-RequiredToBeModified-Item CRITICALITY reject TYPE UE-MulticastMRBs-RequiredToBeModified-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-RequiredToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF

ProtocolIE-SingleContainer { { UE-MulticastMRBs-RequiredToBeReleased-ItemIEs} }

UE-MulticastMRBs-RequiredToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-RequiredToBeReleased-Item CRITICALITY reject TYPE UE-MulticastMRBs-RequiredToBeReleased-Item PRESENCE mandatory},

...

}

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

--

-- UE CONTEXT MODIFICATION CONFIRM

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

UEContextModificationConfirm::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationConfirmIEs} },

...

}

UEContextModificationConfirmIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

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

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

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

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

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

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

{ ID id-PC5RLCChannelModifiedList CRITICALITY reject TYPE PC5RLCChannelModifiedList PRESENCE optional }|

{ ID id-UE-MulticastMRBs-ConfirmedToBeModified-List CRITICALITY reject TYPE UE-MulticastMRBs-ConfirmedToBeModified-List PRESENCE optional },

...

}

DRBs-ModifiedConf-List::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRBs-ModifiedConf-ItemIEs } }

DRBs-ModifiedConf-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRBs-ModifiedConf-Item CRITICALITY ignore TYPE DRBs-ModifiedConf-Item PRESENCE mandatory},

...

}

SLDRBs-ModifiedConf-List::= SEQUENCE (SIZE(1..maxnoofSLDRBs)) OF ProtocolIE-SingleContainer { { SLDRBs-ModifiedConf-ItemIEs } }

SLDRBs-ModifiedConf-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SLDRBs-ModifiedConf-Item CRITICALITY ignore TYPE SLDRBs-ModifiedConf-Item PRESENCE mandatory},

...

}

UE-MulticastMRBs-ConfirmedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBsforUE)) OF

ProtocolIE-SingleContainer { { UE-MulticastMRBs-ConfirmedToBeModified-ItemIEs} }

UE-MulticastMRBs-ConfirmedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UE-MulticastMRBs-ConfirmedToBeModified-Item CRITICALITY reject TYPE UE-MulticastMRBs-ConfirmedToBeModified-Item PRESENCE mandatory},

...

}

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

--

-- UE CONTEXT MODIFICATION REFUSE

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

UEContextModificationRefuse::= SEQUENCE {

protocolIEs ProtocolIE-Container { { UEContextModificationRefuseIEs} },

...

}

UEContextModificationRefuseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- WRITE-REPLACE WARNING ELEMENTARY PROCEDURE

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

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

--

-- Write-Replace Warning Request

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

WriteReplaceWarningRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {WriteReplaceWarningRequestIEs} },

...

}

WriteReplaceWarningRequestIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

{ ID id-Cells-To-Be-Broadcast-List CRITICALITY reject TYPE Cells-To-Be-Broadcast-List PRESENCE optional },

...

}

Cells-To-Be-Broadcast-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-To-Be-Broadcast-List-ItemIEs } }

Cells-To-Be-Broadcast-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-To-Be-Broadcast-Item CRITICALITY reject TYPE Cells-To-Be-Broadcast-Item PRESENCE mandatory },

...

}

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

--

-- Write-Replace Warning Response

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

WriteReplaceWarningResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {WriteReplaceWarningResponseIEs} },

...

}

WriteReplaceWarningResponseIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-Cells-Broadcast-Completed-List CRITICALITY reject TYPE Cells-Broadcast-Completed-List PRESENCE optional }|

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

{ ID id-Dedicated-SIDelivery-NeededUE-List CRITICALITY ignore TYPE Dedicated-SIDelivery-NeededUE-List PRESENCE optional },

...

}

Cells-Broadcast-Completed-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-Broadcast-Completed-List-ItemIEs } }

Cells-Broadcast-Completed-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-Broadcast-Completed-Item CRITICALITY reject TYPE Cells-Broadcast-Completed-Item PRESENCE mandatory },

...

}

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

--

-- PWS CANCEL ELEMENTARY PROCEDURE

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

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--

-- PWS Cancel Request

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

PWSCancelRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSCancelRequestIEs} },

...

}

PWSCancelRequestIEs F1AP-PROTOCOL-IES ::= {

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

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

{ ID id-Broadcast-To-Be-Cancelled-List CRITICALITY reject TYPE Broadcast-To-Be-Cancelled-List PRESENCE optional }|

{ ID id-Cancel-all-Warning-Messages-Indicator CRITICALITY reject TYPE Cancel-all-Warning-Messages-Indicator PRESENCE optional }|

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

...

}

Broadcast-To-Be-Cancelled-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Broadcast-To-Be-Cancelled-List-ItemIEs } }

Broadcast-To-Be-Cancelled-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Broadcast-To-Be-Cancelled-Item CRITICALITY reject TYPE Broadcast-To-Be-Cancelled-Item PRESENCE mandatory },

...

}

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

--

-- PWS Cancel Response

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

PWSCancelResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {PWSCancelResponseIEs} },

...

}

PWSCancelResponseIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-Cells-Broadcast-Cancelled-List CRITICALITY reject TYPE Cells-Broadcast-Cancelled-List PRESENCE optional }|

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

...

}

Cells-Broadcast-Cancelled-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Cells-Broadcast-Cancelled-List-ItemIEs } }

Cells-Broadcast-Cancelled-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cells-Broadcast-Cancelled-Item CRITICALITY reject TYPE Cells-Broadcast-Cancelled-Item PRESENCE mandatory },

...

}

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

--

-- UE Inactivity Notification ELEMENTARY PROCEDURE

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--

-- UE Inactivity Notification

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

UEInactivityNotification ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ UEInactivityNotificationIEs}},

...

}

UEInactivityNotificationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

...

}

DRB-Activity-List::= SEQUENCE (SIZE(1..maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRB-Activity-ItemIEs } }

DRB-Activity-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRB-Activity-Item CRITICALITY reject TYPE DRB-Activity-Item PRESENCE mandatory},

...

}

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

--

-- Initial UL RRC Message Transfer ELEMENTARY PROCEDURE

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

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--

-- INITIAL UL RRC Message Transfer

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InitialULRRCMessageTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ InitialULRRCMessageTransferIEs}},

...

}

InitialULRRCMessageTransferIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ ID id-C-RNTI CRITICALITY reject TYPE C-RNTI PRESENCE mandatory }|

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

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

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

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

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

{ ID id-RRCContainer-RRCSetupComplete CRITICALITY ignore TYPE RRCContainer-RRCSetupComplete PRESENCE optional }|

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

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

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

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

...

}

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

--

-- DL RRC Message Transfer ELEMENTARY PROCEDURE

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

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--

-- DL RRC Message Transfer

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

DLRRCMessageTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ DLRRCMessageTransferIEs}},

...

}

DLRRCMessageTransferIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-oldgNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

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

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

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

{ ID id-RAT-FrequencyPriorityInformation CRITICALITY reject TYPE RAT-FrequencyPriorityInformation PRESENCE optional }|

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

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

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

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

{ ID id-new-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE optional }|

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

{ ID id-SRBMappingInfo CRITICALITY ignore TYPE UuRLCChannelID PRESENCE optional },

...

}

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

--

-- UL RRC Message Transfer ELEMENTARY PROCEDURE

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

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

--

-- UL RRC Message Transfer

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

ULRRCMessageTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ ULRRCMessageTransferIEs}},

...

}

ULRRCMessageTransferIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

{ ID id-SelectedPLMNID CRITICALITY reject TYPE PLMN-Identity PRESENCE optional }|

{ ID id-new-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE optional },

...

}

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

--

-- PRIVATE MESSAGE

--

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

PrivateMessage ::= SEQUENCE {

privateIEs PrivateIE-Container {{PrivateMessage-IEs}},

...

}

PrivateMessage-IEs F1AP-PRIVATE-IES ::= {

...

}

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

--

-- System Information ELEMENTARY PROCEDURE

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

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

--

-- System information Delivery Command

--

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

SystemInformationDeliveryCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ SystemInformationDeliveryCommandIEs}},

...

}

SystemInformationDeliveryCommandIEs F1AP-PROTOCOL-IES ::= {

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

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

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

{ ID id-ConfirmedUEID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory },

...

}

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

--

-- Paging PROCEDURE

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

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

--

-- Paging

--

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

Paging ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PagingIEs}},

...

}

PagingIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

{ ID id-ExtendedUEIdentityIndexValue CRITICALITY ignore TYPE ExtendedUEIdentityIndexValue 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 },

...

}

PagingCell-list::= SEQUENCE (SIZE(1.. maxnoofPagingCells)) OF ProtocolIE-SingleContainer { { PagingCell-ItemIEs } }

PagingCell-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-PagingCell-Item CRITICALITY ignore TYPE PagingCell-Item PRESENCE mandatory} ,

...

}

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

--

-- Notify

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

Notify ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ NotifyIEs}},

...

}

NotifyIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-DRB-Notify-List CRITICALITY reject TYPE DRB-Notify-List PRESENCE mandatory },

...

}

DRB-Notify-List::= SEQUENCE (SIZE(1.. maxnoofDRBs)) OF ProtocolIE-SingleContainer { { DRB-Notify-ItemIEs } }

DRB-Notify-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DRB-Notify-Item CRITICALITY reject TYPE DRB-Notify-Item PRESENCE mandatory},

...

}

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

--

-- NETWORK ACCESS RATE REDUCTION ELEMENTARY PROCEDURE

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

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

--

-- Network Access Rate Reduction

--

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

NetworkAccessRateReduction ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ NetworkAccessRateReductionIEs }},

...

}

NetworkAccessRateReductionIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-UAC-Assistance-Info CRITICALITY reject TYPE UAC-Assistance-Info PRESENCE mandatory },

...

}

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

--

-- PWS RESTART INDICATION ELEMENTARY PROCEDURE

--

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

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

--

-- PWS Restart Indication

--

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

PWSRestartIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PWSRestartIndicationIEs} },

...

}

PWSRestartIndicationIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-NR-CGI-List-For-Restart-List CRITICALITY reject TYPE NR-CGI-List-For-Restart-List PRESENCE mandatory },

...

}

NR-CGI-List-For-Restart-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { NR-CGI-List-For-Restart-List-ItemIEs } }

NR-CGI-List-For-Restart-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-NR-CGI-List-For-Restart-Item CRITICALITY reject TYPE NR-CGI-List-For-Restart-Item PRESENCE mandatory },

...

}

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

--

-- PWS FAILURE INDICATION ELEMENTARY PROCEDURE

--

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

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

--

-- PWS Failure Indication

--

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

PWSFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PWSFailureIndicationIEs} },

...

}

PWSFailureIndicationIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-PWS-Failed-NR-CGI-List CRITICALITY reject TYPE PWS-Failed-NR-CGI-List PRESENCE optional },

...

}

PWS-Failed-NR-CGI-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { PWS-Failed-NR-CGI-List-ItemIEs } }

PWS-Failed-NR-CGI-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-PWS-Failed-NR-CGI-Item CRITICALITY reject TYPE PWS-Failed-NR-CGI-Item PRESENCE mandatory },

...

}

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

--

-- gNB-DU STATUS INDICATION ELEMENTARY PROCEDURE

--

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

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

--

-- gNB-DU Status Indication

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

GNBDUStatusIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {GNBDUStatusIndicationIEs} },

...

}

GNBDUStatusIndicationIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- RRC Delivery Report ELEMENTARY PROCEDURE

--

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

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

--

-- RRC Delivery Report

--

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

RRCDeliveryReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ RRCDeliveryReportIEs}},

...

}

RRCDeliveryReportIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- F1 Removal ELEMENTARY PROCEDURE

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

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

--

-- F1 Removal Request

--

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

F1RemovalRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ F1RemovalRequestIEs }},

...

}

F1RemovalRequestIEs F1AP-PROTOCOL-IES ::= {

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

...

}

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

--

-- F1 Removal Response

--

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

F1RemovalResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ F1RemovalResponseIEs }},

...

}

F1RemovalResponseIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- F1 Removal Failure

--

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

F1RemovalFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ F1RemovalFailureIEs }},

...

}

F1RemovalFailureIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- TRACE ELEMENTARY PROCEDURES

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

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

--

-- TRACE START

--

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

TraceStart ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {TraceStartIEs} },

...

}

TraceStartIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

...

}

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

--

-- DEACTIVATE TRACE

--

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

DeactivateTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {DeactivateTraceIEs} },

...

}

DeactivateTraceIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

...

}

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

--

-- CELL TRAFFIC TRACE

--

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

CellTrafficTrace ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {CellTrafficTraceIEs} },

...

}

CellTrafficTraceIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ID id-TraceCollectionEntityIPAddress CRITICALITY ignore TYPE TransportLayerAddress PRESENCE mandatory }|

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

{ID id-TraceCollectionEntityURI CRITICALITY ignore TYPE URI-address PRESENCE optional },

...

}

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

--

-- DU-CU Radio Information Transfer ELEMENTARY PROCEDURE

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

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

--

-- DU-CU Radio Information Transfer

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

DUCURadioInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ DUCURadioInformationTransferIEs}},

...

}

DUCURadioInformationTransferIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- CU-DU Radio Information Transfer ELEMENTARY PROCEDURE

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

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

--

-- CU-DU Radio Information Transfer

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

CUDURadioInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ CUDURadioInformationTransferIEs}},

...

}

CUDURadioInformationTransferIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- IAB PROCEDURES

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

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

--

-- BAP Mapping Configuration ELEMENTARY PROCEDURE

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

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

--

-- BAP MAPPING CONFIGURATION

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

BAPMappingConfiguration ::= SEQUENCE {

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

...

}

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

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

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

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

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

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

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

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

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

...

}

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

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

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

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

...

}

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

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

...

}

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

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

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

...

}

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

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

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

...

}

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

--

-- BAP MAPPING CONFIGURATION ACKNOWLEDGE

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

BAPMappingConfigurationAcknowledge ::= SEQUENCE {

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

...

}

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

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

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

...

}

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

--

-- BAP MAPPING CONFIGURATION FAILURE

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

BAPMappingConfigurationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BAPMappingConfigurationFailureIEs} },

...

}

BAPMappingConfigurationFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- GNB-DU Configuration ELEMENTARY PROCEDURE

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

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

--

-- GNB-DU RESOURCE CONFIGURATION

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

GNBDUResourceConfiguration ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ GNBDUResourceConfigurationIEs}},

...

}

GNBDUResourceConfigurationIEs F1AP-PROTOCOL-IES ::= {

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

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

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

{ ID id-Neighbour-Node-Cells-List CRITICALITY reject TYPE Neighbour-Node-Cells-List PRESENCE optional}|

{ ID id-Serving-Cells-List CRITICALITY reject TYPE Serving-Cells-List PRESENCE optional},

...

}

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

--

-- GNB-DU RESOURCE CONFIGURATION ACKNOWLEDGE

--

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

GNBDUResourceConfigurationAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { GNBDUResourceConfigurationAcknowledgeIEs} },

...

}

GNBDUResourceConfigurationAcknowledgeIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- GNB-DU RESOURCE CONFIGURATION FAILURE

--

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

GNBDUResourceConfigurationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { GNBDUResourceConfigurationFailureIEs} },

...

}

GNBDUResourceConfigurationFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- IAB TNL Address Allocation ELEMENTARY PROCEDURE

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

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

--

-- IAB TNL ADDRESS REQUEST

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

IABTNLAddressRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {IABTNLAddressRequestIEs} },

...

}

IABTNLAddressRequestIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-IABv4AddressesRequested CRITICALITY reject TYPE IABv4AddressesRequested PRESENCE optional }|

{ ID id-IABIPv6RequestType CRITICALITY reject TYPE IABIPv6RequestType PRESENCE optional }|

{ ID id-IAB-TNL-Addresses-To-Remove-List CRITICALITY reject TYPE IAB-TNL-Addresses-To-Remove-List PRESENCE optional }|

{ ID id-IAB-TNL-Addresses-Exception CRITICALITY reject TYPE IAB-TNL-Addresses-Exception PRESENCE optional },

...

}

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

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

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

...

}

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

--

-- IAB TNL ADDRESS RESPONSE

--

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

IABTNLAddressResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { {IABTNLAddressResponseIEs} },

...

}

IABTNLAddressResponseIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

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

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

...

}

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

--

-- IAB TNL ADDRESS FAILURE

--

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

IABTNLAddressFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { IABTNLAddressFailureIEs} },

...

}

IABTNLAddressFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

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

--

-- IAB UP Configuration Update ELEMENTARY PROCEDURE

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

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

--

-- IAB UP Configuration Update Request

--

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

IABUPConfigurationUpdateRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { IABUPConfigurationUpdateRequestIEs} },

...

}

IABUPConfigurationUpdateRequestIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-UL-UP-TNL-Information-to-Update-List CRITICALITY ignore TYPE UL-UP-TNL-Information-to-Update-List PRESENCE optional }|

{ ID id-UL-UP-TNL-Address-to-Update-List CRITICALITY ignore TYPE UL-UP-TNL-Address-to-Update-List PRESENCE optional },

...

}

UL-UP-TNL-Information-to-Update-List ::= SEQUENCE (SIZE(1.. maxnoofULUPTNLInformationforIAB)) OF ProtocolIE-SingleContainer { { UL-UP-TNL-Information-to-Update-List-ItemIEs } }

UL-UP-TNL-Information-to-Update-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UL-UP-TNL-Information-to-Update-List-Item CRITICALITY ignore TYPE UL-UP-TNL-Information-to-Update-List-Item PRESENCE mandatory },

...

}

UL-UP-TNL-Address-to-Update-List ::= SEQUENCE (SIZE(1.. maxnoofUPTNLAddresses)) OF ProtocolIE-SingleContainer { { UL-UP-TNL-Address-to-Update-List-ItemIEs } }

UL-UP-TNL-Address-to-Update-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UL-UP-TNL-Address-to-Update-List-Item CRITICALITY ignore TYPE UL-UP-TNL-Address-to-Update-List-Item PRESENCE mandatory },

...

}

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

--

-- IAB UP Configuration Update Response

--

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

IABUPConfigurationUpdateResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { IABUPConfigurationUpdateResponseIEs} },

...

}

IABUPConfigurationUpdateResponseIEs F1AP-PROTOCOL-IES ::= {

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

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

{ ID id-DL-UP-TNL-Address-to-Update-List CRITICALITY reject TYPE DL-UP-TNL-Address-to-Update-List PRESENCE optional },

...

}

DL-UP-TNL-Address-to-Update-List ::= SEQUENCE (SIZE(1.. maxnoofUPTNLAddresses)) OF ProtocolIE-SingleContainer { { DL-UP-TNL-Address-to-Update-List-ItemIEs } }

DL-UP-TNL-Address-to-Update-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-DL-UP-TNL-Address-to-Update-List-Item CRITICALITY ignore TYPE DL-UP-TNL-Address-to-Update-List-Item PRESENCE mandatory },

...

}

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

--

-- IAB UP Configuration Update Failure

--

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

IABUPConfigurationUpdateFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { IABUPConfigurationUpdateFailureIEs} },

...

}

IABUPConfigurationUpdateFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ 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 },

...

}

-- MIAB F1 SETUP TRIGGERING PROCEDURE

--

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

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

--

-- MIAB F1 SETUP TRIGGERING

--

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

MIABF1SetupTriggering ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MIABF1SetupTriggeringIEs}},

...

}

MIABF1SetupTriggeringIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-Target-gNB-ID CRITICALITY reject TYPE GlobalGNB-ID PRESENCE mandatory }|

{ ID id-Target-gNB-IP-address CRITICALITY ignore TYPE TransportLayerAddress PRESENCE optional }|

{ ID id-Target-SeGW-IP-address CRITICALITY ignore TYPE TransportLayerAddress PRESENCE optional },

...

}

-- MIAB F1 SETUP OUTCOME NOTIFICATION PROCEDURE

--

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

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

--

-- MIAB F1 SETUP OUTCOME NOTIFICATION

--

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

MIABF1SetupOutcomeNotification ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MIABF1SetupOutcomeNotificationIEs}},

...

}

MIABF1SetupOutcomeNotificationIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-F1SetupOutcome CRITICALITY reject TYPE F1SetupOutcome PRESENCE mandatory }|

{ ID id-Activated-Cells-Mapping-List CRITICALITY ignore TYPE Activated-Cells-Mapping-List PRESENCE optional }|

{ ID id-RRC-Terminating-IAB-Donor-gNB-ID CRITICALITY ignore TYPE GlobalGNB-ID PRESENCE optional },

...

}

F1SetupOutcome ::= ENUMERATED {success, failure,...}

Activated-Cells-Mapping-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF ProtocolIE-SingleContainer { { Activated-Cells-Mapping-List-ItemIEs } }

Activated-Cells-Mapping-List-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Activated-Cells-Mapping-List-Item CRITICALITY ignore TYPE Activated-Cells-Mapping-List-Item PRESENCE mandatory },

...

}

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

--

-- Resource Status Reporting Initiation ELEMENTARY PROCEDURE

--

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

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

--

-- Resource Status Request

--

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

ResourceStatusRequest::= SEQUENCE {

protocolIEs ProtocolIE-Container { {ResourceStatusRequestIEs} },

...

}

ResourceStatusRequestIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNBCUMeasurementID CRITICALITY reject TYPE GNBCUMeasurementID PRESENCE mandatory }|

{ ID id-gNBDUMeasurementID CRITICALITY ignore TYPE GNBDUMeasurementID PRESENCE conditional }|

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

{ ID id-ReportCharacteristics CRITICALITY ignore TYPE ReportCharacteristics PRESENCE conditional }|

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

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

...

}

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

--

-- Resource Status Response

--

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

ResourceStatusResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { ResourceStatusResponseIEs} },

...

}

ResourceStatusResponseIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNBCUMeasurementID CRITICALITY reject TYPE GNBCUMeasurementID PRESENCE mandatory }|

{ ID id-gNBDUMeasurementID CRITICALITY ignore TYPE GNBDUMeasurementID PRESENCE mandatory }|

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

...

}

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

--

-- Resource Status Failure

--

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

ResourceStatusFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { ResourceStatusFailureIEs} },

...

}

ResourceStatusFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNBCUMeasurementID CRITICALITY reject TYPE GNBCUMeasurementID PRESENCE mandatory }|

{ ID id-gNBDUMeasurementID CRITICALITY ignore TYPE GNBDUMeasurementID PRESENCE mandatory }|

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

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

...

}

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

--

-- Resource Status Reporting ELEMENTARY PROCEDURE

--

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

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

--

-- Resource Status Update

--

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

ResourceStatusUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ ResourceStatusUpdateIEs}},

...

}

ResourceStatusUpdateIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-gNBCUMeasurementID CRITICALITY reject TYPE GNBCUMeasurementID PRESENCE mandatory }|

{ ID id-gNBDUMeasurementID CRITICALITY ignore TYPE GNBDUMeasurementID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- Access And Mobility Indication ELEMENTARY PROCEDURE

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

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

--

-- Access And Mobility Indication

--

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

AccessAndMobilityIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { AccessAndMobilityIndicationIEs} },

...

}

AccessAndMobilityIndicationIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

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

...

}

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

--

-- REFERENCE TIME INFORMATION REPORTING CONTROL

--

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

ReferenceTimeInformationReportingControl::= SEQUENCE {

protocolIEs ProtocolIE-Container { { ReferenceTimeInformationReportingControlIEs} },

...

}

ReferenceTimeInformationReportingControlIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- REFERENCE TIME INFORMATION REPORT

--

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

ReferenceTimeInformationReport::= SEQUENCE {

protocolIEs ProtocolIE-Container { { ReferenceTimeInformationReportIEs} },

...

}

ReferenceTimeInformationReportIEs F1AP-PROTOCOL-IES ::= {

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

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

...

}

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

--

-- Access Success

--

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

AccessSuccess ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ AccessSuccessIEs}},

...

}

AccessSuccessIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

...

}

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

--

-- POSITIONING ASSISTANCE INFORMATION CONTROL ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Assistance Information Control

--

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

PositioningAssistanceInformationControl ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PositioningAssistanceInformationControlIEs}},

...

}

PositioningAssistanceInformationControlIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

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

...

}

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

--

-- POSITIONING ASSISTANCE INFORMATION FEEDBACK ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Assistance Information Feedback

--

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

PositioningAssistanceInformationFeedback ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PositioningAssistanceInformationFeedbackIEs}},

...

}

PositioningAssistanceInformationFeedbackIEs F1AP-PROTOCOL-IES ::= {

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

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

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

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

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

...

}

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

--

-- POSITONING MEASUREMENT EXCHANGE ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Measurement Request

--

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

PositioningMeasurementRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementRequestIEs} },

...

}

PositioningMeasurementRequestIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory}|

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

{ ID id-TRP-MeasurementRequestList CRITICALITY reject TYPE TRP-MeasurementRequestList PRESENCE mandatory}|

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

{ ID id-PosMeasurementPeriodicity CRITICALITY reject TYPE MeasurementPeriodicity PRESENCE conditional }|

-- The above IE shall be present if the PosReportCharacteristics IE is set to “periodic” --

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

{ ID id-SFNInitialisationTime CRITICALITY ignore TYPE RelativeTime1900 PRESENCE optional }|

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

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

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

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

{ ID id-PosMeasurementPeriodicityExtended CRITICALITY reject TYPE MeasurementPeriodicityExtended PRESENCE conditional }|

-- The IE shall be present the MeasurementPeriodicity IE is set to the value "extended"

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

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

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

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

{ ID id-TimeWindowInformation-Measurement-List CRITICALITY ignore TYPE TimeWindowInformation-Measurement-List PRESENCE optional },

...

}

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

--

-- Positioning Measurement Response

--

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

PositioningMeasurementResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementResponseIEs} },

...

}

PositioningMeasurementResponseIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory}|

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

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

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

...

}

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

--

-- Positioning Measurement Failure

--

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

PositioningMeasurementFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementFailureIEs} },

...

}

PositioningMeasurementFailureIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory }|

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

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

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

...

}

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

--

-- POSITIONING MEASUREMENT REPORT ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Measurement Report

--

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

PositioningMeasurementReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementReportIEs} },

...

}

PositioningMeasurementReportIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory }|

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

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

...

}

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

--

-- POSITIONING MEASUREMENT ABORT ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Measurement Abort

--

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

PositioningMeasurementAbort ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementAbortIEs} },

...

}

PositioningMeasurementAbortIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory }|

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

...

}

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

--

-- POSITIONING MEASUREMENT FAILURE INDICATION ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Measurement Failure Indication

--

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

PositioningMeasurementFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementFailureIndicationIEs} },

...

}

PositioningMeasurementFailureIndicationIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory }|

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

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

...

}

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

--

-- POSITIONING MEASUREMENT UPDATE ELEMENTARY PROCEDURE

--

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

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

--

-- Positioning Measurement Update

--

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

PositioningMeasurementUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningMeasurementUpdateIEs} },

...

}

PositioningMeasurementUpdateIEs F1AP-PROTOCOL-IES ::= {

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

{ ID id-LMF-MeasurementID CRITICALITY reject TYPE LMF-MeasurementID PRESENCE mandatory }|

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

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

{ ID id-TRP-MeasurementUpdateList CRITICALITY reject TYPE TRP-MeasurementUpdateList PRESENCE optional}|

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

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

...

}

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

--

-- TRP INFORMATION EXCHANGE ELEMENTARY PROCEDURE

--

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

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

--

-- TRP Information Request

--

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

TRPInformationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { TRPInformationRequestIEs} },

...

}

TRPInformationRequestIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

TRPInformationTypeListTRPReq ::= SEQUENCE (SIZE(1.. maxnoofTRPInfoTypes)) OF ProtocolIE-SingleContainer { { TRPInformationTypeItemTRPReq } }

TRPInformationTypeItemTRPReq F1AP-PROTOCOL-IES ::= {

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

...

}

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

--

-- TRP Information Response

--

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

TRPInformationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { TRPInformationResponseIEs} },

...

}

TRPInformationResponseIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

TRPInformationListTRPResp ::= SEQUENCE (SIZE(1.. maxnoofTRPs)) OF ProtocolIE-SingleContainer { { TRPInformationItemTRPResp } }

TRPInformationItemTRPResp F1AP-PROTOCOL-IES ::= {

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

...

}

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

--

-- TRP Information Failure

--

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

TRPInformationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { TRPInformationFailureIEs} },

...

}

TRPInformationFailureIEs F1AP-PROTOCOL-IES ::= {

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

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

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

...

}

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

--

-- POSITIONING INFORMATION EXCHANGE ELEMENTARY PROCEDURE

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

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

--

-- Positioning Information Request

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

PositioningInformationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningInformationRequestIEs} },

...

}

PositioningInformationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

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

{ ID id-TimeWindowInformation-SRS-List CRITICALITY ignore TYPE TimeWindowInformation-SRS-List PRESENCE optional},

...

}

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

--

-- Positioning Information Response

--

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

PositioningInformationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningInformationResponseIEs} },

...

}

PositioningInformationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ ID id-SFNInitialisationTime CRITICALITY ignore TYPE RelativeTime1900 PRESENCE optional}|

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

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

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

{ ID id-SRSPreconfiguration-List CRITICALITY ignore TYPE SRSPreconfiguration-List PRESENCE optional},

...

}

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

--

-- Positioning Information Failure

--

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

PositioningInformationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningInformationFailureIEs} },

...

}

PositioningInformationFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

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

...

}

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

--

-- POSITIONING ACTIVATION PROCEDURE

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

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

--

-- Positioning Activation Request

--

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

PositioningActivationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningActivationRequestIEs} },

...

}

PositioningActivationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

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

{ ID id-ActivationTime CRITICALITY ignore TYPE RelativeTime1900 PRESENCE optional },

...

}

SRSType ::= CHOICE {

semipersistentSRS SemipersistentSRS,

aperiodicSRS AperiodicSRS,

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

}

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

...

}

SemipersistentSRS ::= SEQUENCE {

sRSResourceSetID SRSResourceSetID,

sRSSpatialRelation SpatialRelationInfo OPTIONAL,

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

...

}

SemipersistentSRS-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-SRSSpatialRelationPerSRSResource CRITICALITY ignore EXTENSION SpatialRelationPerSRSResource PRESENCE optional},

...

}

AperiodicSRS ::= SEQUENCE {

aperiodic ENUMERATED {true, ...},

sRSResourceTrigger SRSResourceTrigger OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {AperiodicSRS-ExtIEs} } OPTIONAL,

...

}

AperiodicSRS-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Activation Response

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PositioningActivationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningActivationResponseIEs} },

...

}

PositioningActivationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-SystemFrameNumber CRITICALITY ignore TYPE SystemFrameNumber PRESENCE optional }|

{ ID id-SlotNumber CRITICALITY ignore TYPE SlotNumber PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Activation Failure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PositioningActivationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningActivationFailureIEs} },

...

}

PositioningActivationFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- POSITIONING DEACTIVATION PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Deactivation

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PositioningDeactivation ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningDeactivationIEs} },

...

}

PositioningDeactivationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-AbortTransmission CRITICALITY ignore TYPE AbortTransmission PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- POSITIONING INFORMATION UPDATE PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Information Update

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PositioningInformationUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PositioningInformationUpdateIEs} },

...

}

PositioningInformationUpdateIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-SRSConfiguration CRITICALITY ignore TYPE SRSConfiguration PRESENCE optional}|

{ ID id-SFNInitialisationTime CRITICALITY ignore TYPE RelativeTime1900 PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- SRS Information Reservation Notification

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SRSInformationReservationNotification ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ SRSInformationReservationNotificationIEs}},

...

}

SRSInformationReservationNotificationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory }|

{ ID id-SRSReservationType CRITICALITY ignore TYPE SRSReservationType PRESENCE mandatory }|

{ ID id-SRSInformation CRITICALITY ignore TYPE RequestedSRSTransmissionCharacteristics PRESENCE ignore },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID MEASUREMENT PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Initiation Request

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementInitiationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementInitiationRequest-IEs}},

...

}

E-CIDMeasurementInitiationRequest-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory }|

{ ID id-E-CID-ReportCharacteristics CRITICALITY reject TYPE E-CID-ReportCharacteristics PRESENCE mandatory }|

{ ID id-E-CID-MeasurementPeriodicity CRITICALITY reject TYPE MeasurementPeriodicity PRESENCE conditional }|

-- The above IE shall be present if the E-CID-ReportCharacteristics IE is set to “periodic” –-

{ ID id-E-CID-MeasurementQuantities CRITICALITY reject TYPE E-CID-MeasurementQuantities PRESENCE mandatory}|

{ ID id-PosMeasurementPeriodicityNR-AoA CRITICALITY reject TYPE PosMeasurementPeriodicityNR-AoA PRESENCE conditional},

-- The IE shall be present if the E-CID-ReportCharacteristics IE is set to “periodic” and the E-CID-MeasurementQuantities-Item IE in the E-CID-MeasurementQuantities IE is set to the value "angleOfArrivalNR"--

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Initiation Response

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementInitiationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementInitiationResponse-IEs}},

...

}

E-CIDMeasurementInitiationResponse-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory }|

{ ID id-E-CID-MeasurementResult CRITICALITY ignore TYPE E-CID-MeasurementResult PRESENCE optional}|

{ ID id-Cell-Portion-ID CRITICALITY ignore TYPE Cell-Portion-ID PRESENCE optional}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Initiation Failure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementInitiationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementInitiationFailure-IEs}},

...

}

E-CIDMeasurementInitiationFailure-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID MEASUREMENT FAILURE INDICATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Failure Indication

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementFailureIndication-IEs}},

...

}

E-CIDMeasurementFailureIndication-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID MEASUREMENT REPORT PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Report

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementReport-IEs}},

...

}

E-CIDMeasurementReport-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory }|

{ ID id-E-CID-MeasurementResult CRITICALITY ignore TYPE E-CID-MeasurementResult PRESENCE mandatory }|

{ ID id-Cell-Portion-ID CRITICALITY ignore TYPE Cell-Portion-ID PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID MEASUREMENT TERMINATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- E-CID Measurement Termination Command

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

E-CIDMeasurementTerminationCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{E-CIDMeasurementTerminationCommand-IEs}},

...

}

E-CIDMeasurementTerminationCommand-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-LMF-UE-MeasurementID CRITICALITY reject TYPE LMF-UE-MeasurementID PRESENCE mandatory }|

{ ID id-RAN-UE-MeasurementID CRITICALITY reject TYPE RAN-UE-MeasurementID PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT SETUP ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT SETUP REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextSetupRequestIEs} },

...

}

BroadcastContextSetupRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBS-Session-ID CRITICALITY reject TYPE MBS-Session-ID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MBS-CUtoDURRCInformation CRITICALITY reject TYPE MBS-CUtoDURRCInformation PRESENCE mandatory }|

{ ID id-SNSSAI CRITICALITY reject TYPE SNSSAI PRESENCE mandatory }|

{ ID id-BroadcastMRBs-ToBeSetup-List CRITICALITY reject TYPE BroadcastMRBs-ToBeSetup-List PRESENCE mandatory }|

{ ID id-SupportedUETypeList CRITICALITY ignore TYPE SupportedUETypeList PRESENCE optional }|

{ ID id-AssociatedSessionID CRITICALITY ignore TYPE AssociatedSessionID PRESENCE optional },

...

}

BroadcastMRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-ToBeSetup-ItemIEs} }

BroadcastMRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-ToBeSetup-Item CRITICALITY reject TYPE BroadcastMRBs-ToBeSetup-Item PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT SETUP RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextSetupResponseIEs} },

...

}

BroadcastContextSetupResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-BroadcastMRBs-Setup-List CRITICALITY reject TYPE BroadcastMRBs-Setup-List PRESENCE mandatory }|

{ ID id-BroadcastMRBs-FailedToBeSetup-List CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeSetup-List PRESENCE optional }|

{ ID id-BroadcastAreaScope CRITICALITY ignore TYPE BroadcastAreaScope PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }|

{ ID id-F1UTunnelNotEstablished CRITICALITY ignore TYPE F1UTunnelNotEstablished PRESENCE optional},

...

}

BroadcastMRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-Setup-ItemIEs} }

BroadcastMRBs-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-FailedToBeSetup-ItemIEs} }

BroadcastMRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-Setup-Item CRITICALITY reject TYPE BroadcastMRBs-Setup-Item PRESENCE mandatory},

...

}

BroadcastMRBs-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-FailedToBeSetup-Item CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeSetup-Item PRESENCE mandatory}, ...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT SETUP FAILURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextSetupFailureIEs} },

...

}

BroadcastContextSetupFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY ignore TYPE GNB-DU-UE-F1AP-ID PRESENCE optional }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT RELEASE ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT RELEASE COMMAND

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextReleaseCommandIEs} },

...

}

BroadcastContextReleaseCommandIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT RELEASE COMPLETE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextReleaseComplete ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextReleaseCompleteIEs} },

...

}

BroadcastContextReleaseCompleteIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- BROADCAST CONTEXT RELEASE REQUEST ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT RELEASE REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ BroadcastContextReleaseRequestIEs}},

...

}

BroadcastContextReleaseRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT MODIFICATION ELEMENTARY PROCEDURE

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--

-- BROADCAST CONTEXT MODIFICATION REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextModificationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextModificationRequestIEs} },

...

}

BroadcastContextModificationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MBS-CUtoDURRCInformation CRITICALITY reject TYPE MBS-CUtoDURRCInformation PRESENCE mandatory }|

{ ID id-BroadcastMRBs-ToBeSetupMod-List CRITICALITY reject TYPE BroadcastMRBs-ToBeSetupMod-List PRESENCE optional }|

{ ID id-BroadcastMRBs-ToBeModified-List CRITICALITY reject TYPE BroadcastMRBs-ToBeModified-List PRESENCE optional }|

{ ID id-BroadcastMRBs-ToBeReleased-List CRITICALITY reject TYPE BroadcastMRBs-ToBeReleased-List PRESENCE optional }|

{ ID id-SupportedUETypeList CRITICALITY ignore TYPE SupportedUETypeList PRESENCE optional },

...

}

BroadcastMRBs-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-ToBeSetupMod-ItemIEs} }

BroadcastMRBs-ToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-ToBeModified-ItemIEs} }

BroadcastMRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-ToBeReleased-ItemIEs} }

BroadcastMRBs-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-ToBeSetupMod-Item CRITICALITY reject TYPE BroadcastMRBs-ToBeSetupMod-Item PRESENCE mandatory},

...

}

BroadcastMRBs-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-ToBeModified-Item CRITICALITY reject TYPE BroadcastMRBs-ToBeModified-Item PRESENCE mandatory},

...

}

BroadcastMRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-ToBeReleased-Item CRITICALITY reject TYPE BroadcastMRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT MODIFICATION RESPONSE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextModificationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextModificationResponseIEs} },

...

}

BroadcastContextModificationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory}|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory}|

{ ID id-BroadcastMRBs-SetupMod-List CRITICALITY reject TYPE BroadcastMRBs-SetupMod-List PRESENCE optional}|

{ ID id-BroadcastMRBs-FailedToBeSetupMod-List CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeSetupMod-List PRESENCE optional}|

{ ID id-BroadcastMRBs-Modified-List CRITICALITY reject TYPE BroadcastMRBs-Modified-List PRESENCE optional}|

{ ID id-BroadcastMRBs-FailedToBeModified-List CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeModified-List PRESENCE optional}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional}|

{ ID id-BroadcastAreaScope CRITICALITY ignore TYPE BroadcastAreaScope PRESENCE optional},

...

}

BroadcastMRBs-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-SetupMod-ItemIEs} }

BroadcastMRBs-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-FailedToBeSetupMod-ItemIEs} }

BroadcastMRBs-Modified-List::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-Modified-ItemIEs } }

BroadcastMRBs-FailedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { BroadcastMRBs-FailedToBeModified-ItemIEs} }

BroadcastMRBs-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-SetupMod-Item CRITICALITY reject TYPE BroadcastMRBs-SetupMod-Item PRESENCE mandatory},

...

}

BroadcastMRBs-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-FailedToBeSetupMod-Item CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

BroadcastMRBs-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-Modified-Item CRITICALITY reject TYPE BroadcastMRBs-Modified-Item PRESENCE mandatory},

...

}

BroadcastMRBs-FailedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-BroadcastMRBs-FailedToBeModified-Item CRITICALITY ignore TYPE BroadcastMRBs-FailedToBeModified-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- BROADCAST CONTEXT MODIFICATION FAILURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastContextModificationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { BroadcastContextModificationFailureIEs} },

...

}

BroadcastContextModificationFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- BROADCAST TRANSPORT RESOURCE REQUEST ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- BROADCAST TRANSPORT RESOURCE REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BroadcastTransportResourceRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ BroadcastTransportResourceRequestIEs}},

...

}

BroadcastTransportResourceRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Multicast Group Paging PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- Multicast Group Paging

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastGroupPaging ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastGroupPagingIEs}},

...

}

MulticastGroupPagingIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MBS-Session-ID CRITICALITY reject TYPE MBS-Session-ID PRESENCE mandatory }|

{ ID id-UEIdentity-List-For-Paging-List CRITICALITY ignore TYPE UEIdentity-List-For-Paging-List PRESENCE optional }|

{ ID id-MC-PagingCell-List CRITICALITY ignore TYPE MC-PagingCell-list PRESENCE optional }|

{ ID id-IndicationMCInactiveReception CRITICALITY ignore TYPE IndicationMCInactiveReception PRESENCE optional },

...

}

UEIdentity-List-For-Paging-List ::= SEQUENCE (SIZE(1.. maxnoofUEIDforPaging)) OF ProtocolIE-SingleContainer { { UEIdentity-List-For-Paging-ItemIEs } }

UEIdentity-List-For-Paging-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-UEIdentity-List-For-Paging-Item CRITICALITY ignore TYPE UEIdentity-List-For-Paging-Item PRESENCE optional } ,

...

}

MC-PagingCell-list::= SEQUENCE (SIZE(1.. maxnoofPagingCells)) OF ProtocolIE-SingleContainer { { MC-PagingCell-ItemIEs } }

MC-PagingCell-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MC-PagingCell-Item CRITICALITY ignore TYPE MC-PagingCell-Item PRESENCE mandatory} ,

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT SETUP ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- MULTICAST CONTEXT SETUP REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextSetupRequestIEs}},

...

}

MulticastContextSetupRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBS-Session-ID CRITICALITY reject TYPE MBS-Session-ID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-SNSSAI CRITICALITY reject TYPE SNSSAI PRESENCE mandatory }|

{ ID id-MulticastMRBs-ToBeSetup-List CRITICALITY reject TYPE MulticastMRBs-ToBeSetup-List PRESENCE mandatory }|

{ ID id-MulticastCU2DURRCInfo CRITICALITY reject TYPE MulticastCU2DURRCInfo PRESENCE optional }|

{ ID id-MBSMulticastSessionReceptionState CRITICALITY reject TYPE MBSMulticastSessionReceptionState PRESENCE optional },

...

}

MulticastMRBs-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-ToBeSetup-ItemIEs} }

MulticastMRBs-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-ToBeSetup-Item CRITICALITY reject TYPE MulticastMRBs-ToBeSetup-Item PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT SETUP RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextSetupResponseIEs}},

...

}

MulticastContextSetupResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MulticastMRBs-Setup-List CRITICALITY reject TYPE MulticastMRBs-Setup-List PRESENCE mandatory }|

{ ID id-MulticastMRBs-FailedToBeSetup-List CRITICALITY ignore TYPE MulticastMRBs-FailedToBeSetup-List PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }|

{ ID id-MulticastDU2CURRCInfo CRITICALITY reject TYPE MulticastDU2CURRCInfo PRESENCE optional },

...

}

MulticastMRBs-Setup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-Setup-ItemIEs} }

MulticastMRBs-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-FailedToBeSetup-ItemIEs} }

MulticastMRBs-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-Setup-Item CRITICALITY reject TYPE MulticastMRBs-Setup-Item PRESENCE mandatory},

...

}

MulticastMRBs-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-FailedToBeSetup-Item CRITICALITY ignore TYPE MulticastMRBs-FailedToBeSetup-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT SETUP FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextSetupFailureIEs}},

...

}

MulticastContextSetupFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY ignore TYPE GNB-DU-MBS-F1AP-ID PRESENCE optional }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- MULTICAST CONTEXT RELEASE ELEMENTARY PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- MULTICAST CONTEXT RELEASE COMMAND

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextReleaseCommandIEs}},

...

}

MulticastContextReleaseCommandIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT RELEASE COMPLETE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextReleaseComplete ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextReleaseCompleteIEs}},

...

}

MulticastContextReleaseCompleteIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- MULTICAST CONTEXT RELEASE REQUEST ELEMENTARY PROCEDURE

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-- MULTICAST CONTEXT RELEASE REQUEST

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MulticastContextReleaseRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextReleaseRequestIEs}},

...

}

MulticastContextReleaseRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT MODIFICATION ELEMENTARY PROCEDURE

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--

-- MULTICAST CONTEXT MODIFICATION REQUEST

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextModificationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextModificationRequestIEs}},

...

}

MulticastContextModificationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBS-ServiceArea CRITICALITY reject TYPE MBS-ServiceArea PRESENCE optional }|

{ ID id-MulticastMRBs-ToBeSetupMod-List CRITICALITY reject TYPE MulticastMRBs-ToBeSetupMod-List PRESENCE optional }|

{ ID id-MulticastMRBs-ToBeModified-List CRITICALITY reject TYPE MulticastMRBs-ToBeModified-List PRESENCE optional }|

{ ID id-MulticastMRBs-ToBeReleased-List CRITICALITY reject TYPE MulticastMRBs-ToBeReleased-List PRESENCE optional }|

{ ID id-MulticastCU2DURRCInfo CRITICALITY reject TYPE MulticastCU2DURRCInfo PRESENCE optional }|

{ ID id-MBSMulticastSessionReceptionState CRITICALITY reject TYPE MBSMulticastSessionReceptionState PRESENCE optional },

...

}

MulticastMRBs-ToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-ToBeSetupMod-ItemIEs} }

MulticastMRBs-ToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-ToBeSetupMod-Item CRITICALITY reject TYPE MulticastMRBs-ToBeSetupMod-Item PRESENCE mandatory},

...

}

MulticastMRBs-ToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-ToBeModified-ItemIEs} }

MulticastMRBs-ToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-ToBeModified-Item CRITICALITY reject TYPE MulticastMRBs-ToBeModified-Item PRESENCE mandatory},

...

}

MulticastMRBs-ToBeReleased-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-ToBeReleased-ItemIEs} }

MulticastMRBs-ToBeReleased-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-ToBeReleased-Item CRITICALITY reject TYPE MulticastMRBs-ToBeReleased-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT MODIFICATION RESPONSE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextModificationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextModificationResponseIEs}},

...

}

MulticastContextModificationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MulticastMRBs-SetupMod-List CRITICALITY reject TYPE MulticastMRBs-SetupMod-List PRESENCE optional }|

{ ID id-MulticastMRBs-FailedToBeSetupMod-List CRITICALITY ignore TYPE MulticastMRBs-FailedToBeSetupMod-List PRESENCE optional }|

{ ID id-MulticastMRBs-Modified-List CRITICALITY reject TYPE MulticastMRBs-Modified-List PRESENCE optional }|

{ ID id-MulticastMRBs-FailedToBeModified-List CRITICALITY ignore TYPE MulticastMRBs-FailedToBeModified-List PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }|

{ ID id-MulticastDU2CURRCInfo CRITICALITY reject TYPE MulticastDU2CURRCInfo PRESENCE optional },

...

}

MulticastMRBs-SetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-SetupMod-ItemIEs} }

MulticastMRBs-SetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-SetupMod-Item CRITICALITY reject TYPE MulticastMRBs-SetupMod-Item PRESENCE mandatory},

...

}

MulticastMRBs-FailedToBeSetupMod-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-FailedToBeSetupMod-ItemIEs} }

MulticastMRBs-FailedToBeSetupMod-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-FailedToBeSetupMod-Item CRITICALITY ignore TYPE MulticastMRBs-FailedToBeSetupMod-Item PRESENCE mandatory},

...

}

MulticastMRBs-Modified-List::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-Modified-ItemIEs } }

MulticastMRBs-Modified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-Modified-Item CRITICALITY reject TYPE MulticastMRBs-Modified-Item PRESENCE mandatory},

...

}

MulticastMRBs-FailedToBeModified-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastMRBs-FailedToBeModified-ItemIEs} }

MulticastMRBs-FailedToBeModified-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastMRBs-FailedToBeModified-Item CRITICALITY ignore TYPE MulticastMRBs-FailedToBeModified-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT MODIFICATION FAILURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextModificationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastContextModificationFailureIEs}},

...

}

MulticastContextModificationFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT NOTIFICATION PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--

-- MULTICAST CONTEXT NOTIFICATION INDICATION

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextNotificationIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastContextNotificationIndicationIEs}},

...

}

MulticastContextNotificationIndicationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MulticastDU2CURRCInfo CRITICALITY reject TYPE MulticastDU2CURRCInfo PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT NOTIFICATION CONFIRM

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextNotificationConfirm ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastContextNotificationConfirmIEs}},

...

}

MulticastContextNotificationConfirmIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST CONTEXT NOTIFICATION REFUSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastContextNotificationRefuse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastContextNotificationRefuseIEs}},

...

}

MulticastContextNotificationRefuseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST COMMON CONFIGURATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST COMMON CONFIGURATION REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastCommonConfigurationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastCommonConfigurationRequestIEs}},

...

}

MulticastCommonConfigurationRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastCU2DUCommonRRCInfo CRITICALITY reject TYPE MulticastCU2DUCommonRRCInfo PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST COMMON CONFIGURATION RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastCommonConfigurationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastCommonConfigurationResponseIEs}},

...

}

MulticastCommonConfigurationResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST COMMON CONFIGURATION REFUSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastCommonConfigurationRefuse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{MulticastCommonConfigurationRefuseIEs}},

...

}

MulticastCommonConfigurationRefuseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION SETUP ELEMENTARY PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION SETUP REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastDistributionSetupRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastDistributionSetupRequestIEs}},

...

}

MulticastDistributionSetupRequestIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBSMulticastF1UContextDescriptor CRITICALITY reject TYPE MBSMulticastF1UContextDescriptor PRESENCE mandatory }|

{ ID id-MulticastF1UContext-ToBeSetup-List CRITICALITY reject TYPE MulticastF1UContext-ToBeSetup-List PRESENCE mandatory },

...

}

MulticastF1UContext-ToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF

ProtocolIE-SingleContainer { { MulticastF1UContext-ToBeSetup-ItemIEs} }

MulticastF1UContext-ToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastF1UContext-ToBeSetup-Item CRITICALITY reject TYPE MulticastF1UContext-ToBeSetup-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION SETUP RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastDistributionSetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastDistributionSetupResponseIEs}},

...

}

MulticastDistributionSetupResponseIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory}|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory}|

{ ID id-MBSMulticastF1UContextDescriptor CRITICALITY reject TYPE MBSMulticastF1UContextDescriptor PRESENCE mandatory}|

{ ID id-MulticastF1UContext-Setup-List CRITICALITY reject TYPE MulticastF1UContext-Setup-List PRESENCE mandatory}|

{ ID id-MulticastF1UContext-FailedToBeSetup-List CRITICALITY ignore TYPE MulticastF1UContext-FailedToBeSetup-List PRESENCE optional}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }|

{ ID id-MulticastF1UContextReferenceCU CRITICALITY reject TYPE MulticastF1UContextReferenceCU PRESENCE mandatory},

...

}

MulticastF1UContext-Setup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF ProtocolIE-SingleContainer { { MulticastF1UContext-Setup-ItemIEs} }

MulticastF1UContext-Setup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastF1UContext-Setup-Item CRITICALITY reject TYPE MulticastF1UContext-Setup-Item PRESENCE mandatory},

...

}

MulticastF1UContext-FailedToBeSetup-List ::= SEQUENCE (SIZE(1..maxnoofMRBs)) OF   
 ProtocolIE-SingleContainer { { MulticastF1UContext-FailedToBeSetup-ItemIEs} }

MulticastF1UContext-FailedToBeSetup-ItemIEs F1AP-PROTOCOL-IES ::= {

{ ID id-MulticastF1UContext-FailedToBeSetup-Item CRITICALITY ignore TYPE MulticastF1UContext-FailedToBeSetup-Item PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION SETUP FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastDistributionSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastDistributionSetupFailureIEs}},

...

}

MulticastDistributionSetupFailureIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY ignore TYPE GNB-DU-MBS-F1AP-ID PRESENCE optional }|

{ ID id-MBSMulticastF1UContextDescriptor CRITICALITY reject TYPE MBSMulticastF1UContextDescriptor PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION RELEASE ELEMENTARY PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION RELEASE COMMAND

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastDistributionReleaseCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastDistributionReleaseCommandIEs}},

...

}

MulticastDistributionReleaseCommandIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBSMulticastF1UContextDescriptor CRITICALITY reject TYPE MBSMulticastF1UContextDescriptor PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MULTICAST DISTRIBUTION RELEASE COMPLETE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MulticastDistributionReleaseComplete ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MulticastDistributionReleaseCompleteIEs}},

...

}

MulticastDistributionReleaseCompleteIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-CU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-MBS-F1AP-ID CRITICALITY reject TYPE GNB-DU-MBS-F1AP-ID PRESENCE mandatory }|

{ ID id-MBSMulticastF1UContextDescriptor CRITICALITY reject TYPE MBSMulticastF1UContextDescriptor PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC MEASUREMENT PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Initiation Request

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementInitiationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{PDCMeasurementInitiationRequest-IEs}},

...

}

PDCMeasurementInitiationRequest-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY reject TYPE RAN-UE-PDC-MeasID PRESENCE mandatory }|

{ ID id-PDCReportType CRITICALITY reject TYPE PDCReportType PRESENCE mandatory }|

{ ID id-PDCMeasurementPeriodicity CRITICALITY reject TYPE PDCMeasurementPeriodicity PRESENCE conditional }|

-- The above IE shall be present if the PDCReportType IE is set to “periodic” –-

{ ID id-PDCMeasurementQuantities CRITICALITY reject TYPE PDCMeasurementQuantities PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Initiation Response

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementInitiationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{PDCMeasurementInitiationResponse-IEs}},

...

}

PDCMeasurementInitiationResponse-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY reject TYPE RAN-UE-PDC-MeasID PRESENCE mandatory }|

{ ID id-PDCMeasurementResult CRITICALITY ignore TYPE PDCMeasurementResult PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Initiation Failure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementInitiationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{PDCMeasurementInitiationFailure-IEs}},

...

}

PDCMeasurementInitiationFailure-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY ignore TYPE RAN-UE-PDC-MeasID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC MEASUREMENT REPORT PROCEDURE

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Report

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementReport ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{PDCMeasurementReport-IEs}},

...

}

PDCMeasurementReport-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY reject TYPE RAN-UE-PDC-MeasID PRESENCE mandatory }|

{ ID id-PDCMeasurementResult CRITICALITY ignore TYPE PDCMeasurementResult PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC MEASUREMENT TERMINATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Termination

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementTerminationCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PDCMeasurementTerminationCommand-IEs} },

...

}

PDCMeasurementTerminationCommand-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY ignore TYPE RAN-UE-PDC-MeasID PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC MEASUREMENT FAILURE INDICATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDC Measurement Failure Indication

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PDCMeasurementFailureIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { PDCMeasurementFailureIndication-IEs} },

...

}

PDCMeasurementFailureIndication-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-RAN-UE-PDC-MeasID CRITICALITY ignore TYPE RAN-UE-PDC-MeasID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PPS CONFIGURATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PRS CONFIGURATION REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PRSConfigurationRequest ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{PRSConfigurationRequest-IEs}},

...

}

PRSConfigurationRequest-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory }|

{ ID id-PRSConfigRequestType CRITICALITY reject TYPE PRSConfigRequestType PRESENCE mandatory }|

{ ID id-PRSTRPList CRITICALITY ignore TYPE PRSTRPList PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PRS CONFIGURATION RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PRSConfigurationResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PRSConfigurationResponse-IEs}},

...

}

PRSConfigurationResponse-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory}|

{ ID id-PRSTransmissionTRPList CRITICALITY ignore TYPE PRSTransmissionTRPList PRESENCE optional}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PRS CONFIGURATION FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PRSConfigurationFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PRSConfigurationFailure-IEs}},

...

}

PRSConfigurationFailure-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory}|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory}|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MEASUREMENT PRECONFIGURATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Preconfiguration Required

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MeasurementPreconfigurationRequired ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ MeasurementPreconfigurationRequired-IEs}},

...

}

MeasurementPreconfigurationRequired-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory}|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory}|

{ ID id-TRP-PRS-Info-List CRITICALITY ignore TYPE TRP-PRS-Info-List PRESENCE mandatory},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Preconfiguration Confirm

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MeasurementPreconfigurationConfirm ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { MeasurementPreconfigurationConfirm-IEs} },

...

}

MeasurementPreconfigurationConfirm-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-PosMeasGapPreConfigList CRITICALITY ignore TYPE PosMeasGapPreConfigList PRESENCE optional }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning Preconfiguration Refuse

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MeasurementPreconfigurationRefuse ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { MeasurementPreconfigurationRefuse-IEs} },

...

}

MeasurementPreconfigurationRefuse-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- MEASUREMENT ACTIVATION PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Measurement Activation

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MeasurementActivation ::= SEQUENCE {

protocolIEs ProtocolIE-Container { { MeasurementActivation-IEs} },

...

}

MeasurementActivation-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-ActivationRequestType CRITICALITY reject TYPE ActivationRequestType PRESENCE mandatory}|

{ ID id-PRS-Measurement-Info-List CRITICALITY ignore TYPE PRS-Measurement-Info-List PRESENCE optional},

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- QOE INFORMATION TRANSFER

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- QoE Information Transfer

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

QoEInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{QoEInformationTransfer-IEs}},

...

}

QoEInformationTransfer-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-QoEInformation CRITICALITY ignore TYPE QoEInformation PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Positioning System information Delivery Command

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PosSystemInformationDeliveryCommand ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ PosSystemInformationDeliveryCommandIEs}},

...

}

PosSystemInformationDeliveryCommandIEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory }|

{ ID id-NRCGI CRITICALITY reject TYPE NRCGI PRESENCE mandatory }|

{ ID id-PosSItypeList CRITICALITY reject TYPE PosSItypeList PRESENCE mandatory }|

{ ID id-ConfirmedUEID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DU-CU Cell Switch Notification

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DUCUCellSwitchNotification ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ DUCUCellSwitchNotificationIEs}},

...

}

DUCUCellSwitchNotificationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-NRCGI CRITICALITY reject TYPE NRCGI PRESENCE mandatory }|

{ ID id-LTMCellSwitchInformation CRITICALITY ignore TYPE LTMCellSwitchInformation PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- CU-DU Cell Switch Notification

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CUDUCellSwitchNotification ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ CUDUCellSwitchNotificationIEs}},

...

}

CUDUCellSwitchNotificationIEs F1AP-PROTOCOL-IES ::= {

{ ID id-gNB-CU-UE-F1AP-ID CRITICALITY reject TYPE GNB-CU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-gNB-DU-UE-F1AP-ID CRITICALITY reject TYPE GNB-DU-UE-F1AP-ID PRESENCE mandatory }|

{ ID id-NRCGI CRITICALITY reject TYPE NRCGI PRESENCE mandatory }|

{ ID id-LTMCellSwitchInformation CRITICALITY ignore TYPE LTMCellSwitchInformation PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- DU-CU TA Information Transfer

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DUCUTAInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ DUCUTAInformationTransferIEs}},

...

}

DUCUTAInformationTransferIEs F1AP-PROTOCOL-IES ::= {

{ ID id-TAInformation-List CRITICALITY ignore TYPE TAInformation-List PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- CU-DU TA Information Transfer

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CUDUTAInformationTransfer ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ CUDUTAInformationTransferIEs}},

...

}

CUDUTAInformationTransferIEs F1AP-PROTOCOL-IES ::= {

{ ID id-TAInformation-List CRITICALITY ignore TYPE TAInformation-List PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- QOE INFORMATION TRANSFER CONTROL

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- QoE Information Transfer Control

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

QoEInformationTransferControl ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{QoEInformationTransferControl-IEs}},

...

}

QoEInformationTransferControl-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory }|

{ ID id-DeactivationIndication CRITICALITY ignore TYPE DeactivationIndication PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- RACH Indication ELEMENTARY PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- RACH Indication

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

RachIndication ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ RachIndication-IEs}},

...

}

RachIndication-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-RAReportIndicationList CRITICALITY reject TYPE RAReportIndicationList PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Timing Synchronisation Status Elementary Procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- TIMING SYNCHRONISATION STATUS REQUEST

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TimingSynchronisationStatusRequest::= SEQUENCE {

protocolIEs ProtocolIE-Container {{TimingSynchronisationStatusRequest-IEs}},

...

}

TimingSynchronisationStatusRequest-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-RANTSSRequestType CRITICALITY reject TYPE RANTSSRequestType PRESENCE mandatory },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- TIMING SYNCHRONISATION STATUS RESPONSE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TimingSynchronisationStatusResponse::= SEQUENCE {

protocolIEs ProtocolIE-Container {{TimingSynchronisationStatusResponse-IEs}},

...

}

TimingSynchronisationStatusResponse-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- TIMING SYNCHRONISATION STATUS FAILURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TimingSynchronisationStatusFailure::= SEQUENCE {

protocolIEs ProtocolIE-Container {{TimingSynchronisationStatusFailure-IEs}},

...

}

TimingSynchronisationStatusFailure-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|

{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

...

}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Timing Synchronisation Status Reporting Elementary Procedure

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- TIMING SYNCHRONISATION STATUS REPORT

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TimingSynchronisationStatusReport::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ TimingSynchronisationStatusReport-IEs}},

...

}

TimingSynchronisationStatusReport-IEs F1AP-PROTOCOL-IES ::= {

{ ID id-RANTimingSynchronisationStatusInfo CRITICALITY ignore TYPE RANTimingSynchronisationStatusInfo PRESENCE mandatory },

...

}

END

-- ASN1STOP

### 9.4.5 Information Element Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Information Element Definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

F1AP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

id-RadioResourceStatusNR-U,

id-FiveG-ProSeLayer2Multipath,

id-FiveG-ProSeLayer2UEtoUERelay,

id-FiveG-ProSeLayer2UEtoUERemote,

id-TSCTrafficCharacteristicsFeedback,

id-RANfeedbacktype,

id-Mobile-TRP-LocationInformation,

id-Mobile-IAB-MT-UE-ID,

id-MobileAccessPointLocation,

id-SIBX-message,

id-PDUSetQoSParameters,

id-N6JitterInformation,

id-ECNMarkingorCongestionInformationReportingRequest,

id-ECNMarkingorCongestionInformationReportingStatus,

id-ERedcap-Bcast-Information,

id-NeedForInterruptionInfoNR,

id-LTMCells-ToBeReleased-Item,

id-UL-RSCP,

id-BW-Aggregation-Request-Indication,

id-ReportingGranularitykminus1,

id-ReportingGranularitykminus1additionalpath,

id-ReportingGranularitykminus2,

id-ReportingGranularitykminus2additionalpath,

id-ReportingGranularitykminus3,

id-ReportingGranularitykminus3additionalpath,

id-ReportingGranularitykminus4,

id-ReportingGranularitykminus4additionalpath,

id-ReportingGranularitykminus5,

id-ReportingGranularitykminus5additionalpath,

id-ReportingGranularitykminus6,

id-ReportingGranularitykminus6additionalpath,

id-TimingReportingGranularityFactorExtended,

id-PosValidityAreaCellList,

id-SymbolIndex,

id-AggregatedPosSRSResourceIDList,

id-PhaseQuality,

id-PRSBandwidthAggregationRequestIndication,

id-AggregatedPRSResourceSetList,

id-MeasuredFrequencyHops,

id-TxHoppingConfiguration,

id-AggregatedPosSRSResourceSetList,

id-ValidityAreaSpecificSRSInformation,

maxNRARFCN,

maxnoofErrors,

maxnoofBPLMNs,

maxnoofBPLMNsNR,

maxnoofDLUPTNLInformation,

maxnoofNrCellBands,

maxnoofULUPTNLInformation,

maxnoofQoSFlows,

maxnoofSliceItems,

maxnoofSIBTypes,

maxnoofSITypes,

maxCellineNB,

maxnoofExtendedBPLMNs,

maxnoofAdditionalSIBs,

maxnoofUACPLMNs,

maxnoofUACperPLMN,

maxCellingNBDU,

maxnoofTLAs,

maxnoofGTPTLAs,

maxnoofslots,

maxnoofNonUPTrafficMappings,

maxnoofServingCells,

maxnoofServedCellsIAB,

maxnoofChildIABNodes,

maxnoofIABSTCInfo,

maxnoofSymbols,

maxnoofDUFSlots,

maxnoofHSNASlots,

maxnoofEgressLinks,

maxnoofMappingEntries,

maxnoofDSInfo,

maxnoofQoSParaSets,

maxnoofPC5QoSFlows,

maxnoofSSBAreas,

maxnoofNRSCSs,

maxnoofPhysicalResourceBlocks,

maxnoofPhysicalResourceBlocks-1,

maxnoofPRACHconfigs,

maxnoofRAReports,

maxnoofRLFReports,

maxnoofAdditionalPDCPDuplicationTNL,

maxnoofRLCDuplicationState,

maxnoofCHOcells,

maxnoofMDTPLMNs,

maxnoofCAGsupported,

maxnoofNIDsupported,

maxnoofExtSliceItems,

maxnoofPosMeas,

maxnoofTRPInfoTypes,

maxnoofSRSTriggerStates,

maxnoofSpatialRelations,

maxnoBcastCell,

maxnoofTRPs,

maxnoofAngleInfo,

maxnooflcs-gcs-translation,

maxnoofPath,

maxnoofMeasE-CID,

maxnoofSSBs,

maxnoSRS-ResourceSets,

maxnoSRS-ResourcePerSet,

maxnoSRS-Carriers,

maxnoSCSs,

maxnoSRS-Resources,

maxnoSRS-PosResources,

maxnoSRS-PosResourceSets,

maxnoSRS-PosResourcePerSet,

maxnoofPRS-ResourceSets,

maxnoofPRS-ResourcesPerSet,

maxNoOfMeasTRPs,

maxnoofPRSresourceSets,

maxnoofPRSresources,

maxnoofSuccessfulHOReports,

maxnoofNR-UChannelIDs,

maxServedCellforSON,

maxNeighbourCellforSON,

maxAffectedCells,

maxnoofMBSQoSFlows,

maxnoofMBSFSAs,

maxnoofMBSAreaSessionIDs,

maxnoofMBSServiceAreaInformation,

maxnoofTAIforMBS,

maxnoofCellsforMBS,

maxnoofIABCongInd,

maxnoofBHRLCChannels,

maxnoofTLAsIAB,

maxnoofRBsetsPerCell,

maxnoofRBsetsPerCell-1,

maxnoofNeighbourNodeCellsIAB,

maxnoofMeasPDC,

maxnoARPs,

maxnoofULAoAs,

maxNoPathExtended,

maxnoTRPTEGs,

maxFreqLayers,

maxNumResourcesPerAngle,

maxnoAzimuthAngles,

maxnoElevationAngles,

maxnoofPRSTRPs,

maxnoofQoEInformation,

maxnoofUuRLCChannels,

maxnoofPC5RLCChannels,

maxnoofSMBRValues,

maxnoofMBSSessionsofUE,

maxnoofSLdestinations,

maxnoofNSAGs,

maxnoofSDTBearers,

maxnoofPosSITypes,

maxnoofMRBs,

maxNrofBWPs,

maxnoofUETypes,

maxnoofLTMCells,

maxnoofJointorDLTCIStates,

maxnoofULTCIStates,

maxnoofTAList,

maxnoofDRBs,

maxnoofUEsInQMCTransferControlMessage,

maxnoofUEsforRAReportIndications,

maxnoofSuccessfulPSCellChangeReports,

maxnoofPeriodicities,

maxnoofThresholdMBS,

maxMBSSessionsinSessionInfoList,

maxnoofRSPPQoSFlows,

maxnoVACell,

maxnoAggregatedSRS-Resources,

maxnoAggregatedPosSRSResourceSets,

maxnoAggregatedPosPRSResourceSets,

maxnoofTimeWindowSRS,

maxnoofTimeWindowMea,

maxnoPreconfiguredSRS

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

AffectedSSB-List::= SEQUENCE (SIZE (1..maxnoofSSBAreas)) OF AffectedSSB-Item

AffectedSSB-Item::= SEQUENCE {

sSB-Index INTEGER(0..63),

iE-Extensions ProtocolExtensionContainer { { AffectedSSB-Item-ExtIEs} } OPTIONAL,

...

}

AffectedSSB-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

AggregatedPosSRSResourceIDList ::= SEQUENCE (SIZE(1..maxnoAggregatedSRS-Resources)) OF Aggregated-PosSRS-Resource-ID-Item

Aggregated-PosSRS-Resource-ID-Item ::= SEQUENCE {

positioningSRS SRSPosResourceID,

iE-Extensions ProtocolExtensionContainer { { Aggregated-PosSRS-Resource-ID-Item-ExtIEs} } OPTIONAL,

...

}

Aggregated-PosSRS-Resource-ID-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

AggregatedPosSRSResourceSetList ::= SEQUENCE (SIZE(1..maxnoAggregatedPosSRSResourceSets)) OF AggregatedPosSRSResourceSet-Item

AggregatedPosSRSResourceSet-Item ::= SEQUENCE {

pointA INTEGER (0..3279165),

nRPCI NRPCI OPTIONAL,

posSRSResourceSetID INTEGER(0..15),

iE-Extensions ProtocolExtensionContainer { { AggregatedPosSRSResourceSet-Item-ExtIEs} } OPTIONAL,

...

}

AggregatedPosSRSResourceSet-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

AggregatedPRSResourceSetList ::= SEQUENCE (SIZE(1..maxnoAggregatedPosPRSResourceSets)) OF AggregatedPRSResourceSet-Item

AggregatedPRSResourceSet-Item ::= SEQUENCE {

pointA INTEGER (0..3279165),

pRSResourceSetID PRS-Resource-Set-ID,

iE-Extensions ProtocolExtensionContainer { { AggregatedPRSResourceSet-Item-ExtIEs} } OPTIONAL,

...

}

AggregatedPRSResourceSet-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

BroadcastCellList ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF Broadcast-Cell-List-Item

Broadcast-Cell-List-Item ::= SEQUENCE {

cellID NRCGI,

iE-Extensions ProtocolExtensionContainer { { Broadcast-Cell-List-ItemExtIEs} } OPTIONAL,

...

}

Broadcast-Cell-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

BufferSizeThresh ::= INTEGER(0..16777215)

BurstArrivalTime ::= OCTET STRING

BW-Aggregation-Request-Indication ::= ENUMERATED {true, ...}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

FiveG-ProSeLayer2UEtoUERemote ::= ENUMERATED {

authorized,

not-authorized,

...

}

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,

iE-Extensions ProtocolExtensionContainer { { Flows-Mapped-To-DRB-ItemExtIEs} } OPTIONAL

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

FR1-Bandwidth ::= ENUMERATED {bw5, bw10, bw20, bw40, bw50, bw80, bw100, ..., bw160, bw200}

FR2-Bandwidth ::= ENUMERATED {bw50, bw100, bw200, bw400, ..., bw800, bw1600, bw2000, bw600}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

GNBRxTxTimeDiffMeas ::= CHOICE {

k0 INTEGER (0.. 1970049),

k1 INTEGER (0.. 985025),

k2 INTEGER (0.. 492513),

k3 INTEGER (0.. 246257),

k4 INTEGER (0.. 123129),

k5 INTEGER (0.. 61565),

choice-extension ProtocolIE-SingleContainer { { GNBRxTxTimeDiffMeas-ExtIEs } }

}

GNBRxTxTimeDiffMeas-ExtIEs F1AP-PROTOCOL-IES ::= {

{ID id-ReportingGranularitykminus1 CRITICALITY ignore TYPE ReportingGranularitykminus1 PRESENCE mandatory}|

{ID id-ReportingGranularitykminus2 CRITICALITY ignore TYPE ReportingGranularitykminus2 PRESENCE mandatory }|

{ID id-ReportingGranularitykminus3 CRITICALITY ignore TYPE ReportingGranularitykminus3 PRESENCE mandatory}|

{ID id-ReportingGranularitykminus4 CRITICALITY ignore TYPE ReportingGranularitykminus4 PRESENCE mandatory }|

{ID id-ReportingGranularitykminus5 CRITICALITY ignore TYPE ReportingGranularitykminus5 PRESENCE mandatory}|

{ID id-ReportingGranularitykminus6 CRITICALITY ignore TYPE ReportingGranularitykminus6 PRESENCE mandatory },

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

PosSRSResource-Item ::= SEQUENCE {

srs-PosResourceId SRSPosResourceID,

transmissionCombPos TransmissionCombPos,

startPosition INTEGER (0..13),

nrofSymbols ENUMERATED {n1, n2, n4, n8, n12},

freqDomainShift INTEGER (0..268),

c-SRS INTEGER (0..63),

groupOrSequenceHopping ENUMERATED { neither, groupHopping, sequenceHopping },

resourceTypePos ResourceTypePos,

sequenceId INTEGER (0.. 65535),

spatialRelationPos SpatialRelationPos OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PosSRSResource-Item-ExtIEs} } OPTIONAL

}

PosSRSResource-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-TxHoppingConfiguration CRITICALITY ignore EXTENSION TxHoppingConfiguration PRESENCE optional},

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

MeasuredFrequencyHops ::= ENUMERATED {singleHop, multiHop, ...}

MeasuredResultsValue ::= CHOICE {

uL-AngleOfArrival UL-AoA,

uL-SRS-RSRP UL-SRS-RSRP,

uL-RTOA UL-RTOA-Measurement,

gNB-RxTxTimeDiff GNB-RxTxTimeDiff,

choice-extension ProtocolIE-SingleContainer { { MeasuredResultsValue-ExtIEs } }

}

MeasuredResultsValue-ExtIEs F1AP-PROTOCOL-IES ::= {

{ ID id-ZoAInformation CRITICALITY reject TYPE ZoAInformation PRESENCE mandatory}|

{ ID id-MultipleULAoA CRITICALITY reject TYPE MultipleULAoA PRESENCE mandatory}|

{ ID id-UL-SRS-RSRPP CRITICALITY reject TYPE UL-SRS-RSRPP PRESENCE mandatory}|

{ ID id-UL-RSCP CRITICALITY reject TYPE UL-RSCP PRESENCE mandatory},

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

RelativePathDelay ::= CHOICE {

k0 INTEGER (0..16351),

k1 INTEGER (0..8176),

k2 INTEGER (0..4088),

k3 INTEGER (0..2044),

k4 INTEGER (0..1022),

k5 INTEGER (0..511),

choice-extension ProtocolIE-SingleContainer { { RelativePathDelay-ExtIEs } }

}

RelativePathDelay-ExtIEs F1AP-PROTOCOL-IES ::= {

{ID id-ReportingGranularitykminus1additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus1AdditionalPath PRESENCE mandatory}|

{ID id-ReportingGranularitykminus2additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus2AdditionalPath PRESENCE mandatory }|

{ID id-ReportingGranularitykminus3additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus3AdditionalPath PRESENCE mandatory}|

{ID id-ReportingGranularitykminus4additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus4AdditionalPath PRESENCE mandatory }|

{ID id-ReportingGranularitykminus5additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus5AdditionalPath PRESENCE mandatory}|

{ID id-ReportingGranularitykminus6additionalpath CRITICALITY ignore TYPE ReportingGranularitykminus6AdditionalPath PRESENCE mandatory },

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

RelativeGeodeticLocation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

RemoteUELocalID ::= INTEGER (0..255, ...)

ReferenceTime ::= OCTET STRING

RegistrationRequest ::= ENUMERATED{start, stop, add, ...}

ReportCharacteristics ::= BIT STRING (SIZE(32))

ReportingGranularitykminus1 ::= INTEGER(0..3940097)

ReportingGranularitykminus2 ::= INTEGER(0..7880193)

ReportingGranularitykminus3 ::= INTEGER(0..15760385)

ReportingGranularitykminus4 ::= INTEGER(0..31520769)

ReportingGranularitykminus5 ::= INTEGER(0..63041537)

ReportingGranularitykminus6 ::= INTEGER(0..126083073)

ReportingGranularitykminus1AdditionalPath ::= INTEGER(0..32701)

ReportingGranularitykminus2AdditionalPath ::= INTEGER(0..65401)

ReportingGranularitykminus3AdditionalPath ::= INTEGER(0..130801)

ReportingGranularitykminus4AdditionalPath ::= INTEGER(0..261601)

ReportingGranularitykminus5AdditionalPath ::= INTEGER(0..523201)

ReportingGranularitykminus6AdditionalPath ::= INTEGER(0..1046401)

ReportingPeriodicity ::= ENUMERATED{ms500, ms1000, ms2000, ms5000, ms10000, ...}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

ResourceTypePeriodicPos ::= SEQUENCE {

periodicity SRS-Periodicity,

offset INTEGER(0..81919, ...),

iE-Extensions ProtocolExtensionContainer { { ResourceTypePeriodicPos-ExtIEs} } OPTIONAL

}

ResourceTypePeriodicPos-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ResourceTypeSemi-persistentPos ::= SEQUENCE {

periodicity SRS-Periodicity,

offset INTEGER(0..81919, ...),

iE-Extensions ProtocolExtensionContainer { { ResourceTypeSemi-persistentPos-ExtIEs} } OPTIONAL

}

ResourceTypeSemi-persistentPos-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

PosMeasurementQuantities ::= SEQUENCE (SIZE(1.. maxnoofPosMeas)) OF PosMeasurementQuantities-Item

PosMeasurementQuantities-Item ::= SEQUENCE {

posMeasurementType PosMeasurementType,

timingReportingGranularityFactor INTEGER (0..5) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PosMeasurementQuantities-ItemExtIEs} } OPTIONAL

}

PosMeasurementQuantities-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-TimingReportingGranularityFactorExtended CRITICALITY ignore EXTENSION TimingReportingGranularityFactorExtended PRESENCE optional},

...

}

PosMeasurementResult ::= SEQUENCE (SIZE (1.. maxnoofPosMeas)) OF PosMeasurementResultItem

PosMeasurementResultItem ::= SEQUENCE {

measuredResultsValue MeasuredResultsValue,

timeStamp TimeStamp,

measurementQuality TRPMeasurementQuality OPTIONAL,

measurementBeamInfo MeasurementBeamInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PosMeasurementResultItemExtIEs } } OPTIONAL

}

PosMeasurementResultItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-ARP-ID CRITICALITY ignore EXTENSION ARP-ID PRESENCE optional}|

{ ID id-SRSResourcetype CRITICALITY ignore EXTENSION SRSResourcetype PRESENCE optional}|

{ ID id-LoS-NLoSInformation CRITICALITY ignore EXTENSION LoS-NLoSInformation PRESENCE optional }|

{ ID id-Mobile-TRP-LocationInformation CRITICALITY ignore EXTENSION Mobile-TRP-LocationInformation PRESENCE optional }|

{ ID id-AggregatedPosSRSResourceIDList CRITICALITY ignore EXTENSION AggregatedPosSRSResourceIDList PRESENCE optional }|

{ ID id-MeasuredFrequencyHops CRITICALITY ignore EXTENSION MeasuredFrequencyHops PRESENCE optional },

...

}

PosMeasurementResultList ::= SEQUENCE (SIZE(1.. maxNoOfMeasTRPs)) OF PosMeasurementResultList-Item

PosMeasurementResultList-Item ::= SEQUENCE {

posMeasurementResult PosMeasurementResult,

tRPID TRPID,

iE-Extensions ProtocolExtensionContainer { { PosMeasurementResultList-ItemExtIEs} } OPTIONAL

}

PosMeasurementResultList-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-NRCGI CRITICALITY ignore EXTENSION NRCGI PRESENCE optional },

...

}

PosMeasurementType ::= ENUMERATED {

gnb-rx-tx,

ul-srs-rsrp,

ul-aoa,

ul-rtoa,

... ,

multiple-ul-aoa,

ul-srs-rsrpp,

ul-rscp

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

PosSRSResourceSet-Item ::= SEQUENCE {

possrsResourceSetID INTEGER(0..15),

possRSResourceID-List PosSRSResourceID-List,

posresourceSetType PosResourceSetType,

iE-Extensions ProtocolExtensionContainer { { PosSRSResourceSet-Item-ExtIEs} } OPTIONAL

}

PosSRSResourceSet-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-AggregatedPosSRSResourceSetList CRITICALITY ignore EXTENSION AggregatedPosSRSResourceSetList PRESENCE optional},

...

}

PosValidityAreaCellList ::= SEQUENCE (SIZE(1.. maxnoVACell)) OF PosValidityAreaCellList-Item

PosValidityAreaCellList-Item ::= SEQUENCE {

nRCGI NRCGI,

nRPCI INTEGER (0..1007) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PosValidityAreaCellList-Item-ExtIEs } } OPTIONAL

}

PosValidityAreaCellList-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

PRSResource-List::= SEQUENCE (SIZE (1..maxnoofPRSresources)) OF PRSResource-Item

PRSResource-Item ::= SEQUENCE {

pRSResourceID PRS-Resource-ID,

sequenceID INTEGER(0..4095),

rEOffset INTEGER(0..11,...),

resourceSlotOffset INTEGER(0..511),

resourceSymbolOffset INTEGER(0..12),

qCLInfo PRSResource-QCLInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { PRSResource-Item-ExtIEs} } OPTIONAL

}

PRSResource-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-ExtendedResourceSymbolOffset CRITICALITY ignore EXTENSION ExtendedResourceSymbolOffset PRESENCE optional}|

{ID id-AggregatedPRSResourceSetList CRITICALITY ignore EXTENSION AggregatedPRSResourceSetList PRESENCE optional},

...

}

PRSBandwidthAggregationRequestIndication ::= ENUMERATED{true, ...}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

RequestedDLPRSTransmissionCharacteristics ::= SEQUENCE {

requestedDLPRSResourceSet-List RequestedDLPRSResourceSet-List,

numberofFrequencyLayers INTEGER(1..4) OPTIONAL,

startTimeAndDuration StartTimeAndDuration OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RequestedDLPRSTransmissionCharacteristics-ExtIEs} } OPTIONAL,

...

}

RequestedDLPRSTransmissionCharacteristics-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-PRSBandwidthAggregationRequestIndication CRITICALITY ignore EXTENSION PRSBandwidthAggregationRequestIndication PRESENCE optional},

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

-- R

RACH-Config-Common ::= OCTET STRING

RACH-Config-Common-IAB ::= OCTET STRING

Range ::= ENUMERATED {m50, m80, m180, m200, m350, m400, m500, m700, m1000, ...}

RAReportContainer::= OCTET STRING

RAReportList ::= SEQUENCE (SIZE(1.. maxnoofRAReports)) OF RAReportItem

RAReportItem ::= SEQUENCE {

rAReportContainer RAReportContainer,

uEAssitantIdentifier GNB-DU-UE-F1AP-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RAReportItem-ExtIEs} } OPTIONAL,

...

}

RAReportItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

RequestedSRSPreconfigurationCharacteristics-List ::= SEQUENCE (SIZE (1.. maxnoPreconfiguredSRS)) OF RequestedSRSPreconfigurationCharacteristics-Item

RequestedSRSPreconfigurationCharacteristics-Item ::= SEQUENCE {

requestedSRSTransmissionCharacteristics RequestedSRSTransmissionCharacteristics,

iE-Extensions ProtocolExtensionContainer {{ RequestedSRSPreconfigurationCharacteristics-Item-ExtIEs}} OPTIONAL,

...

}

RequestedSRSPreconfigurationCharacteristics-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

RequestedSRSTransmissionCharacteristics ::= SEQUENCE {

numberOfTransmissions INTEGER (0..500, ...) OPTIONAL,

-- The IE shall be present if the Resource Type IE is set to “periodic” --

resourceType ENUMERATED {periodic, semi-persistent, aperiodic,...},

bandwidthSRS BandwidthSRS,

sRSResourceSetList SRSResourceSetList OPTIONAL,

sSBInformation SSBInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { RequestedSRSTransmissionCharacteristics-ExtIEs} } OPTIONAL

}

RequestedSRSTransmissionCharacteristics-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-SrsFrequency CRITICALITY ignore EXTENSION SrsFrequency PRESENCE optional }|

{ ID id-BW-Aggregation-Request-Indication CRITICALITY ignore EXTENSION BW-Aggregation-Request-Indication PRESENCE optional }|

{ ID id-PosValidityAreaCellList CRITICALITY ignore EXTENSION PosValidityAreaCellList PRESENCE optional }|

{ ID id-ValidityAreaSpecificSRSInformation CRITICALITY ignore EXTENSION ValidityAreaSpecificSRSInformation PRESENCE optional },

...

}

RequestType ::= ENUMERATED {offer, execution, ...}

ResourceCoordinationEUTRACellInfo ::= SEQUENCE {

eUTRA-Mode-Info EUTRA-Coex-Mode-Info,

eUTRA-PRACH-Configuration EUTRA-PRACH-Configuration,

iE-Extensions ProtocolExtensionContainer { { ResourceCoordinationEUTRACellInfo-ExtIEs } } OPTIONAL,

...

}

ResourceCoordinationEUTRACellInfo-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-IgnorePRACHConfiguration CRITICALITY reject EXTENSION IgnorePRACHConfiguration PRESENCE optional },

...

}

ResourceCoordinationTransferInformation ::= SEQUENCE {

meNB-Cell-ID EUTRA-Cell-ID,

resourceCoordinationEUTRACellInfo ResourceCoordinationEUTRACellInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ResourceCoordinationTransferInformation-ExtIEs } } OPTIONAL,

...

}

ResourceCoordinationTransferInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ResourceCoordinationTransferContainer ::= OCTET STRING

ResourceMapping ::= SEQUENCE {

startPosition INTEGER (0..13),

nrofSumbols ENUMERATED {n1, n2, n4, n8, n12},

iE-Extensions ProtocolExtensionContainer { { ResourceMapping-ExtIEs} } OPTIONAL,

...

}

ResourceMapping-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

SliceToReportItem ::= SEQUENCE {

pLMNIdentity PLMN-Identity,

sNSSAIlist SNSSAI-list,

iE-Extensions ProtocolExtensionContainer { { SliceToReportItem-ExtIEs} } OPTIONAL

}

SliceToReportItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SlotNumber ::= INTEGER (0..79)

SLPositioning-Ranging-Service-Info ::= SEQUENCE{

sLPositioning-Ranging-Authorized SLPositioning-Ranging-Authorized,

rSPP-transport-QoS-parameters RSPP-transport-QoS-parameters OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SLPositioning-Ranging-Service-Info-ExtIEs} } OPTIONAL,

...

}

SLPositioning-Ranging-Service-Info-ExtIEs F1AP-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 F1AP-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 F1AP-PROTOCOL-EXTENSION ::= {

...

}

RSPPFlowBitRates ::= SEQUENCE {

guaranteedFlowBitRate BitRate,

maximumFlowBitRate BitRate,

iE-Extensions ProtocolExtensionContainer { { RSPPFlowBitRates-ExtIEs} } OPTIONAL,

...

}

RSPPFlowBitRates-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

Slot-Configuration-List ::= SEQUENCE (SIZE(1.. maxnoofslots)) OF Slot-Configuration-Item

Slot-Configuration-Item ::= SEQUENCE {

slotIndex INTEGER (0..5119, ...),

symbolAllocInSlot SymbolAllocInSlot,

iE-Extensions ProtocolExtensionContainer { { Slot-Configuration-ItemExtIEs } } OPTIONAL

}

Slot-Configuration-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SlotOffsetForRemainingHopsList ::= SEQUENCE (SIZE (1..maxnoHopsMinusOne)) OF SlotOffsetForRemainingHopsItem

SlotOffsetForRemainingHopsItem ::= SEQUENCE {

slotOffsetRemainingHops SlotOffsetRemainingHops,

iE-Extensions ProtocolExtensionContainer { { SlotOffsetForRemainingHopsItem-ExtIEs} } OPTIONAL,

...

}

SlotOffsetForRemainingHopsItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SlotOffsetRemainingHops ::= CHOICE {

aperiodic SlotOffsetRemainingHopsAperiodic,

semi-persistent SlotOffsetRemainingHopsSemiPersistent,

periodic SlotOffsetRemainingHopsPeriodic,

choice-extension ProtocolIE-Single-Container {{ SlotOffsetRemainingHops-ExtIEs }}

}

SlotOffsetRemainingHops-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

SlotOffsetRemainingHopsAperiodic ::= SEQUENCE {

slotOffset INTEGER (1..32) OPTIONAL,

startPosition INTEGER (0..13) OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SlotOffsetRemainingHopsAperiodic-ExtIEs} } OPTIONAL,

...

}

SlotOffsetRemainingHopsAperiodic-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SlotOffsetRemainingHopsSemiPersistent ::= SEQUENCE {

sRSperiodicity SRSPeriodicity,

offset INTEGER(0..81919, ...),

iE-Extensions ProtocolExtensionContainer { { SlotOffsetRemainingHopsSemiPersistent-ExtIEs} } OPTIONAL,

...

}

SlotOffsetRemainingHopsSemiPersistent-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SlotOffsetRemainingHopsPeriodic ::= SEQUENCE {

sRSperiodicity SRSPeriodicity,

offset INTEGER(0..81919, ...),

iE-Extensions ProtocolExtensionContainer { { SlotOffsetRemainingHopsSemiPeriodic-ExtIEs} } OPTIONAL,

...

}

SlotOffsetRemainingHopsSemiPeriodic-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

SrsFrequency ::= INTEGER (0..3279165)

SRSPortIndex ::= ENUMERATED {id1000, id1001, id1002, id1003,...}

SRSPosResourceID ::= INTEGER (0..63)

SRSPreconfiguration-List ::= SEQUENCE (SIZE (1.. maxnoPreconfiguredSRS)) OF SRSPreconfiguration-Item

SRSPreconfiguration-Item ::= SEQUENCE {

sRSPosRRCInactiveValidityAreaConfig SRSPosRRCInactiveValidityAreaConfig,

posValidityAreaCellList PosValidityAreaCellList,

iE-Extensions ProtocolExtensionContainer {{ SRSPreconfiguration-Item-ExtIEs}} OPTIONAL,

...

}

SRSPreconfiguration-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SRSResource::= SEQUENCE {

sRSResourceID SRSResourceID,

nrofSRS-Ports ENUMERATED {port1, ports2, ports4},

transmissionComb TransmissionComb,

startPosition INTEGER (0..13),

nrofSymbols ENUMERATED {n1, n2, n4},

repetitionFactor ENUMERATED {n1, n2, n4},

freqDomainPosition INTEGER (0..67),

freqDomainShift INTEGER (0..268),

c-SRS INTEGER (0..63),

b-SRS INTEGER (0..3),

b-hop INTEGER (0..3),

groupOrSequenceHopping ENUMERATED { neither, groupHopping, sequenceHopping },

resourceType ResourceType,

sequenceId INTEGER (0..1023),

iE-Extensions ProtocolExtensionContainer { { SRSResource-ExtIEs } } OPTIONAL

}

SRSResource-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-nrofSymbolsExtended CRITICALITY ignore EXTENSION NrofSymbolsExtended PRESENCE optional}|

{ ID id-repetitionFactorExtended CRITICALITY ignore EXTENSION RepetitionFactorExtended PRESENCE optional}|

{ ID id-startRBHopping CRITICALITY ignore EXTENSION StartRBHopping PRESENCE optional}|

{ ID id-startRBIndex CRITICALITY ignore EXTENSION StartRBIndex PRESENCE optional},

...

}

SRSResourceID ::= INTEGER (0..63)

SRSResourceID-List::= SEQUENCE (SIZE (1..maxnoSRS-ResourcePerSet)) OF SRSResourceID

SRSResource-List ::= SEQUENCE (SIZE (1..maxnoSRS-Resources)) OF SRSResource

SRSResourceSet::= SEQUENCE {

sRSResourceSetID SRSResourceSetID,

sRSResourceID-List SRSResourceID-List,

resourceSetType ResourceSetType,

iE-Extensions ProtocolExtensionContainer { { SRSResourceSet-ExtIEs } } OPTIONAL

}

SRSResourceSet-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SRSResourceSetID ::= INTEGER (0..15, ...)

SRSResourceSetList ::= SEQUENCE (SIZE(1.. maxnoSRS-ResourceSets)) OF SRSResourceSetItem

SRSResourceSetItem ::= SEQUENCE {

numSRSresourcesperset INTEGER (1..16, ...) OPTIONAL,

periodicityList PeriodicityList OPTIONAL,

spatialRelationInfo SpatialRelationInfo OPTIONAL,

pathlossReferenceInfo PathlossReferenceInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { SRSResourceSetItemExtIEs } } OPTIONAL

}

SRSResourceSetItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-SRSSpatialRelationPerSRSResource CRITICALITY ignore EXTENSION SpatialRelationPerSRSResource PRESENCE optional},

...

}

SRSResourceSet-List ::= SEQUENCE (SIZE (1..maxnoSRS-ResourceSets)) OF SRSResourceSet

SRSResourceTrigger ::= SEQUENCE {

aperiodicSRSResourceTriggerList AperiodicSRSResourceTriggerList,

iE-Extensions ProtocolExtensionContainer { {SRSResourceTrigger-ExtIEs} } OPTIONAL

}

SRSResourceTrigger-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

SRSResourcetype ::= SEQUENCE {

sRSResourceTypeChoice SRSResourceTypeChoice,

iE-Extensions ProtocolExtensionContainer { { SRSResourcetype-ExtIEs} } OPTIONAL,

...

}

SRSResourcetype-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-SRSPortIndex CRITICALITY ignore EXTENSION SRSPortIndex PRESENCE optional },

...

}

SRSResourceTypeChoice ::= CHOICE {

sRSResourceInfo SRSInfo,

posSRSResourceInfo PosSRSInfo,

choice-extension ProtocolIE-SingleContainer { { SRSResourceTypeChoice-ExtIEs} }

}

SRSResourceTypeChoice-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

SRSInfo ::= SEQUENCE {

sRSResource SRSResourceID,

...

}

SRS-Periodicity ::= ENUMERATED{slot1, slot2, slot4, slot5, slot8, slot10, slot16, slot20, slot32, slot40, slot64, slot80, slot160, slot320, slot640, slot1280, slot2560, slot5120, slot10240, slot40960, slot81920, ..., slot128, slot256, slot512, slot20480}

SRSPosRRCInactiveConfig ::= OCTET STRING

SRSPosRRCInactiveValidityAreaConfig ::= OCTET STRING

SRSPosRRCInactiveQueryIndication ::= ENUMERATED {true, ...}

PosSRSInfo ::= SEQUENCE {

posSRSResourceID SRSPosResourceID,

...

}

SRSReservationType ::= ENUMERATED {reserve, release, ...}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

SymbolAllocInSlot-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

SymbolIndex ::= INTEGER (0..13)

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

TimeStamp ::= SEQUENCE {

systemFrameNumber SystemFrameNumber,

slotIndex TimeStampSlotIndex,

measurementTime RelativeTime1900 OPTIONAL,

iE-Extension ProtocolExtensionContainer { { TimeStamp-ExtIEs} } OPTIONAL

}

TimeStamp-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-SymbolIndex CRITICALITY ignore EXTENSION SymbolIndex PRESENCE optional },

...

}

TimeStampSlotIndex ::= CHOICE {

sCS-15 INTEGER(0..9),

sCS-30 INTEGER(0..19),

sCS-60 INTEGER(0..39),

sCS-120 INTEGER(0..79),

choice-extension ProtocolIE-SingleContainer { { TimeStampSlotIndex-ExtIEs} }

}

TimeStampSlotIndex-ExtIEs F1AP-PROTOCOL-IES ::= {

{ ID id-SCS-480 CRITICALITY reject TYPE SCS-480 PRESENCE mandatory}|

{ ID id-SCS-960 CRITICALITY reject TYPE SCS-960 PRESENCE mandatory},

...

}

TimeToWait ::= ENUMERATED {v1s, v2s, v5s, v10s, v20s, v60s, ...}

TimingErrorMargin ::= ENUMERATED {m0Tc, m2Tc, m4Tc, m6Tc, m8Tc, m12Tc, m16Tc, m20Tc, m24Tc, m32Tc, m40Tc, m48Tc, m56Tc, m64Tc, m72Tc, m80Tc, ...}

TimingMeasurementQuality ::= SEQUENCE {

measurementQuality INTEGER(0..31),

resolution ENUMERATED{m0dot1, m1, m10, m30, ...},

iE-Extensions ProtocolExtensionContainer { { TimingMeasurementQuality-ExtIEs} } OPTIONAL

}

TimingMeasurementQuality-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

TimingReportingGranularityFactorExtended ::=INTEGER(-6..-1,...)

TimeWindowInformation-Measurement-List ::= SEQUENCE (SIZE (1.. maxnoofTimeWindowMea)) OF TimeWindowInformation-Measurement-Item

TimeWindowInformation-Measurement-Item ::= SEQUENCE {

timeWindowDurationMeasurement TimeWindowDurationMeasurement,

timeWindowType ENUMERATED {single, periodic, ...},

timeWindowPeriodicityMeasurement TimeWindowPeriodicityMeasurement OPTIONAL,

iE-Extension ProtocolExtensionContainer { { TimeWindowInformation-Measurement-Item-ExtIEs} } OPTIONAL,

...}

TimeWindowInformation-Measurement-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

TimeWindowInformation-SRS-List ::= SEQUENCE (SIZE (1.. maxnoofTimeWindowSRS)) OF TimeWindowInformation-SRS-Item

TimeWindowInformation-SRS-Item ::= SEQUENCE {

timeWindowStartSRS TimeWindowStartSRS,

timeWindowDurationSRS TimeWindowDurationSRS,

timeWindowType ENUMERATED {single, periodic, ...},

timeWindowPeriodicitySRS TimeWindowPeriodicitySRS OPTIONAL,

iE-Extension ProtocolExtensionContainer { { TimeWindowInformation-SRS-ExtIEs} } OPTIONAL,

...

}

TimeWindowInformation-SRS-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

TimeWindowDurationMeasurement ::= CHOICE {

durationSlots ENUMERATED {n1, n2, n4, n6, n8, n12, n16, ...},

choice-extension ProtocolIE-SingleContainer { { TimeWindowDurationMeasurement-ExtIEs} }

}

TimeWindowDurationMeasurement-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

TimeWindowDurationSRS ::= CHOICE {

durationSymbols ENUMERATED {n1, n2, n4, n8, n12, ...},

durationSlots ENUMERATED {n1, n2, n4, n6, n8, n12, n16, ...},

choice-extension ProtocolIE-SingleContainer { { TimeWindowDurationSRS-ExtIEs} }

}

TimeWindowDurationSRS-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

TimeWindowPeriodicityMeasurement ::= ENUMERATED {ms160, ms320, ms640, ms1280, ms2560, ms5120, ms10240, ms20480, ms40960, ms61440, ms81920, ms368640, ms737280, ms1843200, ...}

TimeWindowPeriodicitySRS ::= ENUMERATED {ms0dot125, ms0dot25, ms0dot5, ms0dot625, ms1, ms1dot25, ms2, ms2dot5, ms4, ms5, ms8, ms10, ms16, ms20, ms32, ms40, ms64, ms80, ms160, ms320, ms640, ms1280, ms2560, ms5120, ms10240, ...}

TimeWindowStartSRS ::= SEQUENCE {

systemFrameNumber SystemFrameNumber,

slotNumber SlotNumber,

symbolIndex SymbolIndex,

iE-Extension ProtocolExtensionContainer { { TimeWindowStartSRS-ExtIEs} } OPTIONAL,

...

}

TimeWindowStartSRS-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

TRPList ::= SEQUENCE (SIZE(1.. maxnoofTRPs)) OF TRPListItem

TRPListItem ::= SEQUENCE {

tRPID TRPID,

iE-Extensions ProtocolExtensionContainer { { TRPListItem-ExtIEs } } OPTIONAL

}

TRPListItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ID id-PRSBandwidthAggregationRequestIndication CRITICALITY ignore EXTENSION PRSBandwidthAggregationRequestIndication PRESENCE optional},

...

}

TRPMeasurementQuality ::= SEQUENCE {

tRPmeasurementQuality-Item TRPMeasurementQuality-Item,

iE-Extensions ProtocolExtensionContainer { {TRPMeasurementQuality-ExtIEs} } OPTIONAL

}

TRPMeasurementQuality-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

TRPMeasurementQuality-Item ::= CHOICE {

timingMeasurementQuality TimingMeasurementQuality,

angleMeasurementQuality AngleMeasurementQuality,

choice-extension ProtocolIE-SingleContainer { { TRPMeasurementQuality-Item-ExtIEs } }

}

TRPMeasurementQuality-Item-ExtIEs F1AP-PROTOCOL-IES ::= {

{ID id-PhaseQuality CRITICALITY ignore TYPE PhaseQuality PRESENCE mandatory},

...

}

PhaseQuality ::= SEQUENCE {

phaseQualityIndex INTEGER(0..179),

phaseQualityResolution ENUMERATED(deg0dot1, deg1, ...),

iE-Extensions ProtocolExtensionContainer { { PhaseQuality-ExtIEs } } OPTIONAL

}

PhaseQuality-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

TwoPHRModeMCG ::= ENUMERATED {enabled, ...}

TwoPHRModeSCG ::= ENUMERATED {enabled, ...}

TxHoppingConfiguration ::= SEQUENCE {

overlapValue ENUMERATED {rb0, rb1, rb2, rb4},

numberOfHops INTEGER (1..6),

slotOffsetForRemainingHopsList SlotOffsetForRemainingHopsList,

iE-extensions ProtocolExtensionContainer { { TxHoppingConfiguration-ExtIEs } } OPTIONAL,

...

}

TxHoppingConfiguration-ExtIEs NRPPA-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

UL-RTOA-MeasurementItem ::= CHOICE {

k0 INTEGER (0..1970049),

k1 INTEGER (0..985025),

k2 INTEGER (0..492513),

k3 INTEGER (0..246257),

k4 INTEGER (0..123129),

k5 INTEGER (0..61565),

choice-extension ProtocolIE-SingleContainer { { UL-RTOA-MeasurementItem-ExtIEs } }

}

UL-RTOA-MeasurementItem-ExtIEs F1AP-PROTOCOL-IES ::= {

{ID id-ReportingGranularitykminus1 CRITICALITY ignore TYPE ReportingGranularitykminus1 PRESENCE mandatory}|

{ID id-ReportingGranularitykminus2 CRITICALITY ignore TYPE ReportingGranularitykminus2 PRESENCE mandatory },

...

}

UL-SRS-RSRP ::= INTEGER (0..126)

UL-SRS-RSRPP ::= SEQUENCE {

firstPathRSRPP INTEGER (0..126),

iE-extensions ProtocolExtensionContainer { { UL-SRS-RSRPP-ExtIEs } } OPTIONAL,

...

}

UL-SRS-RSRPP-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

UL-RSCP ::= SEQUENCE {

uLRSCP INTEGER (0..3599),

iE-extensions ProtocolExtensionContainer { { UL-RSCP-ExtIEs } } OPTIONAL,

...

}

UL-RSCP-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

-- V

ValidityAreaSpecificSRSInformation ::= SEQUENCE {

transmissionCombPos TransmissionCombPos OPTIONAL,

resourceMapping ResourceMapping OPTIONAL,

freqDomainShift INTEGER (0..268) OPTIONAL,

c-SRS INTEGER (0..63) OPTIONAL,

resourceTypePos ResourceTypePos OPTIONAL,

sequenceIDPos INTEGER (0..65535) OPTIONAL,

iE-extensions ProtocolExtensionContainer { { ValidityAreaSpecificSRSInformation-ExtIEs } } OPTIONAL,

...

}

ValidityAreaSpecificSRSInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

-- W

-- X

-- Y

-- Z

<<<<<<<<<<<<<<<<<<<< next change >>>>>>>>>>>>>>>>>>>>

### 9.4.7 Constant Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Constant definitions

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

F1AP-Constants {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IE parameter types from other modules.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM F1AP-CommonDataTypes;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Elementary Procedures

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-Reset ProcedureCode ::= 0

id-F1Setup ProcedureCode ::= 1

id-ErrorIndication ProcedureCode ::= 2

id-gNBDUConfigurationUpdate ProcedureCode ::= 3

id-gNBCUConfigurationUpdate ProcedureCode ::= 4

id-UEContextSetup ProcedureCode ::= 5

id-UEContextRelease ProcedureCode ::= 6

id-UEContextModification ProcedureCode ::= 7

id-UEContextModificationRequired ProcedureCode ::= 8

id-UEMobilityCommand ProcedureCode ::= 9

id-UEContextReleaseRequest ProcedureCode ::= 10

id-InitialULRRCMessageTransfer ProcedureCode ::= 11

id-DLRRCMessageTransfer ProcedureCode ::= 12

id-ULRRCMessageTransfer ProcedureCode ::= 13

id-privateMessage ProcedureCode ::= 14

id-UEInactivityNotification ProcedureCode ::= 15

id-GNBDUResourceCoordination ProcedureCode ::= 16

id-SystemInformationDeliveryCommand ProcedureCode ::= 17

id-Paging ProcedureCode ::= 18

id-Notify ProcedureCode ::= 19

id-WriteReplaceWarning ProcedureCode ::= 20

id-PWSCancel ProcedureCode ::= 21

id-PWSRestartIndication ProcedureCode ::= 22

id-PWSFailureIndication ProcedureCode ::= 23

id-GNBDUStatusIndication ProcedureCode ::= 24

id-RRCDeliveryReport ProcedureCode ::= 25

id-F1Removal ProcedureCode ::= 26

id-NetworkAccessRateReduction ProcedureCode ::= 27

id-TraceStart ProcedureCode ::= 28

id-DeactivateTrace ProcedureCode ::= 29

id-DUCURadioInformationTransfer ProcedureCode ::= 30

id-CUDURadioInformationTransfer ProcedureCode ::= 31

id-BAPMappingConfiguration ProcedureCode ::= 32

id-GNBDUResourceConfiguration ProcedureCode ::= 33

id-IABTNLAddressAllocation ProcedureCode ::= 34

id-IABUPConfigurationUpdate ProcedureCode ::= 35

id-resourceStatusReportingInitiation ProcedureCode ::= 36

id-resourceStatusReporting ProcedureCode ::= 37

id-accessAndMobilityIndication ProcedureCode ::= 38

id-accessSuccess ProcedureCode ::= 39

id-cellTrafficTrace ProcedureCode ::= 40

id-PositioningMeasurementExchange ProcedureCode ::= 41

id-PositioningAssistanceInformationControl ProcedureCode ::= 42

id-PositioningAssistanceInformationFeedback ProcedureCode ::= 43

id-PositioningMeasurementReport ProcedureCode ::= 44

id-PositioningMeasurementAbort ProcedureCode ::= 45

id-PositioningMeasurementFailureIndication ProcedureCode ::= 46

id-PositioningMeasurementUpdate ProcedureCode ::= 47

id-TRPInformationExchange ProcedureCode ::= 48

id-PositioningInformationExchange ProcedureCode ::= 49

id-PositioningActivation ProcedureCode ::= 50

id-PositioningDeactivation ProcedureCode ::= 51

id-E-CIDMeasurementInitiation ProcedureCode ::= 52

id-E-CIDMeasurementFailureIndication ProcedureCode ::= 53

id-E-CIDMeasurementReport ProcedureCode ::= 54

id-E-CIDMeasurementTermination ProcedureCode ::= 55

id-PositioningInformationUpdate ProcedureCode ::= 56

id-ReferenceTimeInformationReport ProcedureCode ::= 57

id-ReferenceTimeInformationReportingControl ProcedureCode ::= 58

id-BroadcastContextSetup ProcedureCode ::= 59

id-BroadcastContextRelease ProcedureCode ::= 60

id-BroadcastContextReleaseRequest ProcedureCode ::= 61

id-BroadcastContextModification ProcedureCode ::= 62

id-MulticastGroupPaging ProcedureCode ::= 63

id-MulticastContextSetup ProcedureCode ::= 64

id-MulticastContextRelease ProcedureCode ::= 65

id-MulticastContextReleaseRequest ProcedureCode ::= 66

id-MulticastContextModification ProcedureCode ::= 67

id-MulticastDistributionSetup ProcedureCode ::= 68

id-MulticastDistributionRelease ProcedureCode ::= 69

id-PDCMeasurementInitiation ProcedureCode ::= 70

id-PDCMeasurementReport ProcedureCode ::= 71

id-PDCMeasurementInitiationRequest ProcedureCode ::= 72

id-PDCMeasurementInitiationResponse ProcedureCode ::= 73

id-PDCMeasurementInitiationFailure ProcedureCode ::= 74

id-pRSConfigurationExchange ProcedureCode ::= 75

id-measurementPreconfiguration ProcedureCode ::= 76

id-measurementActivation ProcedureCode ::= 77

id-QoEInformationTransfer ProcedureCode ::= 78

id-PDCMeasurementTerminationCommand ProcedureCode ::= 79

id-PDCMeasurementFailureIndication ProcedureCode ::= 80

id-PosSystemInformationDeliveryCommand ProcedureCode ::= 81

id-DUCUCellSwitchNotification ProcedureCode ::= 82

id-CUDUCellSwitchNotification ProcedureCode ::= 83

id-DUCUTAInformationTransfer ProcedureCode ::= 84

id-CUDUTAInformationTransfer ProcedureCode ::= 85

id-QoEInformationTransferControl ProcedureCode ::= 86

id-RachIndication ProcedureCode ::= 87

id-TimingSynchronisationStatus ProcedureCode ::= 88

id-TimingSynchronisationStatusReport ProcedureCode ::= 89

id-MIABF1SetupTriggering ProcedureCode ::= 90

id-MIABF1SetupOutcomeNotification ProcedureCode ::= 91

id-MulticastContextNotification ProcedureCode ::= 92

id-MulticastCommonConfiguration ProcedureCode ::= 93

id-BroadcastTransportResourceRequest ProcedureCode ::= 94

id-SRSInformationReservationNotification ProcedureCode ::= 95

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

maxnoofUETypes INTEGER ::= 8

maxnoofLTMCells INTEGER ::= 8

maxnoofJointorDLTCIStates INTEGER ::= 128

maxnoofULTCIStates INTEGER ::= 64

maxnoofTAList INTEGER ::= 8

maxnoofUEsInQMCTransferControlMessage INTEGER ::= 512

maxnoofUEsforRAReportIndications INTEGER ::= 64

maxnoofSuccessfulPSCellChangeReports INTEGER ::= 64

maxnoofPeriodicities INTEGER ::= 8

maxnoofThresholdMBS INTEGER ::= 64

maxMBSSessionsinSessionInfoList INTEGER ::= 1024

maxnoofRSPPQoSFlows INTEGER ::= 2048

maxnoVACell INTEGER ::= 32

maxnoAggregatedSRS-Resources INTEGER ::= 3

maxnoAggregatedPosSRSResourceSets INTEGER ::= 48

maxnoAggregatedPosPRSResourceSets INTEGER ::= 3

maxnoofTimeWindowSRS INTEGER ::= 16

maxnoofTimeWindowMea INTEGER ::= 16

maxnoPreconfiguredSRS INTEGER ::= 16

<<<<<<<<<<<<<<<<<<< Omitted text unchanged >>>>>>>>>>>>>>>>>>>>

id-MulticastCU2DUCommonRRCInfo ProtocolIE-ID ::= 774

id-PDUSetQoSParameters ProtocolIE-ID ::= 775

id-N6JitterInformation ProtocolIE-ID ::= 776

id-ECNMarkingorCongestionInformationReportingRequest ProtocolIE-ID ::= 777

id-ECNMarkingorCongestionInformationReportingStatus ProtocolIE-ID ::= 778

id-NRA2XServicesAuthorized ProtocolIE-ID ::= 779

id-LTEA2XServicesAuthorized ProtocolIE-ID ::= 780

id-NRUESidelinkAggregateMaximumBitrateForA2X ProtocolIE-ID ::= 781

id-LTEUESidelinkAggregateMaximumBitrateForA2X ProtocolIE-ID ::= 782id-NReRedCapUEIndication ProtocolIE-ID ::= 783

id-ERedcap-Bcast-Information ProtocolIE-ID ::= 784

id-NRPaginglongeDRXInformationforRRCINACTIVE ProtocolIE-ID ::= 785

id-SLPositioning-Ranging-Service-Info ProtocolIE-ID ::= xx0

id-TimeWindowInformation-SRS-List ProtocolIE-ID ::= xx1

id-TimeWindowInformation-Measurement-List ProtocolIE-ID ::= xx2

id-UL-RSCP ProtocolIE-ID ::= xx3

id-BW-Aggregation-Request-Indication ProtocolIE-ID ::= xx4

id-ReportingGranularitykminus1 ProtocolIE-ID ::= xx5

id-ReportingGranularitykminus2 ProtocolIE-ID ::= xx6

id-ReportingGranularitykminus1additionalpath ProtocolIE-ID ::= xx7

id-ReportingGranularitykminus2additionalpath ProtocolIE-ID ::= xx8

id-TimingReportingGranularityFactorExtended ProtocolIE-ID ::= xx9

id-SRSPosRRCInactiveValidityAreaConfig ProtocolIE-ID ::= x10

id-PosValidityAreaCellList ProtocolIE-ID ::= x11

id-SRSReservationType ProtocolIE-ID ::= x12

id-SymbolIndex ProtocolIE-ID ::= x13

id-PRSBandwidthAggregationRequestIndication ProtocolIE-ID ::= x14

id-AggregatedPosSRSResourceIDList ProtocolIE-ID ::= x15

id-AggregatedPRSResourceSetList ProtocolIE-ID ::= x16

id-PhaseQuality ProtocolIE-ID ::= x17

id-MeasuredFrequencyHops ProtocolIE-ID ::= x18

id-TxHoppingConfiguration ProtocolIE-ID ::= x19

id-ReportingGranularitykminus3 ProtocolIE-ID ::= x20

id-ReportingGranularitykminus4 ProtocolIE-ID ::= x21

id-ReportingGranularitykminus5 ProtocolIE-ID ::= x22

id-ReportingGranularitykminus6 ProtocolIE-ID ::= x23

id-ReportingGranularitykminus3additionalpath ProtocolIE-ID ::= x24

id-ReportingGranularitykminus4additionalpath ProtocolIE-ID ::= x25

id-ReportingGranularitykminus5additionalpath ProtocolIE-ID ::= x26

id-ReportingGranularitykminus6additionalpath ProtocolIE-ID ::= x27

id-AggregatedPosSRSResourceSetList ProtocolIE-ID ::= x28

id-RequestedSRSPreconfigurationCharacteristics-List ProtocolIE-ID ::= x29

id-SRSPreconfiguration-List ProtocolIE-ID ::= x30

id-SRSInformation ProtocolIE-ID ::= x31

id-ValidityAreaSpecificSRSInformation ProtocolIE-ID ::= x32

<<<<<<<<<<<<<<<<<<<< End of change >>>>>>>>>>>>>>>>>>>>