3GPP TSG-RAN WG3 Meeting #121 R3-234594

Toulouse, France, 21st– 25th August, 2023

**Agenda item:** 13.2

**Source:** Huawei

**Title:** (TP for NR\_mobile\_IAB BL CR for TS 38.473) New F1 setup

**Document Type:** Other

# Introduction

This is to provide the TP to reflect the online agreements, according to the CB:

**CB: # MobileIAB**

* **Agree to New TP to TS38.401 R3-234592**
* **Agree to TP to NGAP in R3-234593, revision of R3-23 3967**
* **R3-234141 is revised in R3-234594. Can the TP to TS38.473 to introduce two new class 2 procedures in R3-234594 be agreed?**
* **New TP to TS38.473 in R3-234595 to introduce the gNB-ID of the MT CU in F1 message. Can R3-234595 be agreed?**

(moderator - QC)

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

**START OF CHANGES**

## 8.1 List of F1AP Elementary procedures

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

Table 1: Class 1 procedures

| Elementary Procedure | Initiating Message | Successful Outcome | Unsuccessful Outcome |
| --- | --- | --- | --- |
| Response message | Response message |
| Reset | RESET | RESET ACKNOWLEDGE |  |
| F1 Setup | F1 SETUP REQUEST | F1 SETUP RESPONSE | F1 SETUP FAILURE |
| gNB-DU Configuration Update | GNB-DU CONFIGURATION UPDATE | GNB-DU CONFIGURATION UPDATE ACKNOWLEDGE | GNB-DU CONFIGURATION UPDATE FAILURE |
| gNB-CU Configuration Update | GNB-CU CONFIGURATION UPDATE | GNB-CU CONFIGURATION UPDATE ACKNOWLEDGE | GNB-CU CONFIGURATION UPDATE FAILURE |
| UE Context Setup | UE CONTEXT SETUP REQUEST | UE CONTEXT SETUP RESPONSE | UE CONTEXT SETUP FAILURE |
| UE Context Release (gNB-CU initiated) | UE CONTEXT RELEASE COMMAND | UE CONTEXT RELEASE COMPLETE |  |
| UE Context Modification (gNB-CU initiated) | UE CONTEXT MODIFICATION REQUEST | UE CONTEXT MODIFICATION RESPONSE | UE CONTEXT MODIFICATION FAILURE |
| UE Context Modification Required (gNB-DU initiated) | UE CONTEXT MODIFICATION REQUIRED | UE CONTEXT MODIFICATION CONFIRM | UE CONTEXT MODIFICATION REFUSE |
| Write-Replace Warning  | WRITE-REPLACE WARNING REQUEST | WRITE-REPLACE WARNING RESPONSE |  |
| PWS Cancel | PWS CANCEL REQUEST | PWS CANCEL RESPONSE |  |
| gNB-DU Resource Coordination | GNB-DU RESOURCE COORDINATION REQUEST | GNB-DU RESOURCE COORDINATION RESPONSE |  |
| F1 Removal | F1 REMOVAL REQUEST | F1 REMOVAL RESPONSE | F1 REMOVAL FAILURE |
| BAP Mapping Configuration | BAP MAPPING CONFIGURATION  | BAP MAPPING CONFIGURATION ACKNOWLEDGE | BAP MAPPING CONFIGURATION FAILURE |
| GNB-DU Resource Configuration | GNB-DU RESOURCE CONFIGURATION | GNB-DU RESOURCE CONFIGURATION ACKNOWLEDGE | GNB-DU RESOURCE CONFIGURATION FAILURE |
| IAB TNL Address Allocation | IAB TNL ADDRESS REQUEST | IAB TNL ADDRESS RESPONSE | IAB TNL ADDRESS FAILURE |
| IAB UP Configuration Update | IAB UP CONFIGURATION UPDATE REQUEST | IAB UP CONFIGURATION UPDATE RESPONSE | IAB UP CONFIGURATION UPDATE FAILURE |
| Resource Status Reporting Initiation | RESOURCE STATUS REQUEST | RESOURCE STATUS RESPONSE | RESOURCE STATUS FAILURE |
| Positioning Measurement | POSITIONING MEASUREMENT REQUEST | POSITIONING MEASUREMENT RESPONSE | POSITIONING MEASUREMENT FAILURE |
| Positioning Information Exchange | POSITIONING INFORMATION REQUEST | POSITIONING INFORMATION RESPONSE | POSITIONING INFORMATION FAILURE |
| TRP Information Exchange | TRP INFORMATION REQUEST | TRP INFORMATION RESPONSE | TRP INFORMATION FAILURE |
| Positioning Activation | POSITIONING ACTIVATION REQUEST | POSITIONING ACTIVATION RESPONSE | POSITIONING ACTIVATION FAILURE |
| E-CID Measurement Initiation | E-CID MEASUREMENT INITIATION REQUEST | E-CID MEASUREMENT INITIATION RESPONSE | E-CID MEASUREMENT INITIATION FAILURE |
| Broadcast Context Setup | BROADCAST CONTEXT SETUP REQUEST | BROADCAST CONTEXT SETUP RESPONSE | BROADCAST CONTEXT SETUP FAILURE |
| Broadcast Context Release | BROADCAST CONTEXT RELEASE COMMAND | BROADCAST CONTEXT RELEASE COMPLETE |  |
| Broadcast Context Modification | BROADCAST CONTEXT MODIFICATION REQUEST | BROADCAST CONTEXT MODIFICATION RESPONSE | BROADCAST CONTEXT MODIFICATION FAILURE |
| Multicast Context Setup | MULTICAST CONTEXT SETUP REQUEST | MULTICAST CONTEXT SETUP RESPONSE | MULTICAST CONTEXT SETUP FAILURE |
| Multicast Context Release | MULTICAST CONTEXT RELEASE COMMAND | MULTICAST CONTEXT RELEASE COMPLETE |  |
| Multicast Context Modification | MULTICAST CONTEXT MODIFICATION REQUEST | MULTICAST CONTEXT MODIFICATION RESPONSE | MULTICAST CONTEXT MODIFICATION FAILURE |
| Multicast Distribution Setup | MULTICAST DISTRIBUTION SETUP REQUEST | MULTICAST DISTRIBUTION SETUP RESPONSE | MULTICAST DISTRIBUTION SETUP FAILURE |
| Multicast Distribution Release | MULTICAST DISTRIBUTION RELEASE COMMAND | MULTICAST DISTRIBUTION RELEASE COMPLETE |  |
| PDC Measurement Initiation | PDC MEASUREMENT INITIATION REQUEST | PDC MEASUREMENT INITIATION RESPONSE | PDC MEASUREMENT INITIATION FAILURE |
| PRS Configuration Exchange | PRS CONFIGURATION REQUEST | PRS CONFIGURATION RESPONSE | PRS CONFIGURATION FAILURE |
| Measurement Preconfiguration | MEASUREMENT PRECONFIGURATION REQUIRED  | MEASUREMENT PRECONFIGURATION CONFIRM  | MEASUREMENT PRECONFIGURATION REFUSE |

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 |
| New F1 Setup Trigger | NEW F1 SETUP TRIGGER |
| New F1 Setup Notify | NEW F1 SETUP NOTIFY |

**NEXT CHANGE**

## 8.10 IAB Procedures

### 8.10.X New F1 Setup Trigger

#### 8.10.X.1 General

The purpose of the New F1 Setup Trigger procedure is to set up a new F1 interface between target F1-terminating IAB-donor-CU and target logical IAB-DU. This procedure uses non-UE associated signalling.

NOTE: This procedure is applicable for mobile IAB-nodes, where the term "gNB-DU" applies to mobile IAB-DU, and the term "gNB-CU" applies to source F1-terminating IAB-donor-CU.

#### 8.10.X.2 Successful Operation



Figure 8.10.X.2-1: New F1 Trigger procedure: Successful Operation

The gNB-CU initiates the procedure by sending the NEW F1 SETUP TRIGGER message to the gNB-DU. The gNB-DU initiates the F1 setup to the gNB-CU indicated by the *Target gNB ID* which is included in the NEW F1 SETUP TRIGGER message.

If the NEW F1 SETUP TRIGGER message contains the *Target gNB IP address* IE, the gNB-DU shall store the IP address and use it for establishing new F1 interface.

If the NEW F1 SETUP TRIGGER message contains the *Target SeGW IP address* IE, the gNB-DU shall store the IP address and use it for the security protection of new F1 interface.

#### 8.10.X.3 Abnormal Conditions

Not applicable.

**NEXT CHANGE**

### 8.10.Y New F1 Setup Notify

#### 8.10.Y.1 General

The purpose of the New F1 Setup Notify procedure is to report the success of the new F1 interface setup between the target IAB-donor-CU and target logical IAB-DU. This procedure uses non-UE associated signalling.

NOTE: This procedure is applicable for mobile IAB-nodes, where the term "gNB-DU" applies to mobile IAB-DU, and the term "gNB-CU" applies to source F1-terminating IAB-donor-CU.

#### 8.10.Y.2 Successful Operation



Figure 8.10.X.2-1: New F1 Setup Notify: Successful Operation

The gNB-DU initiates the procedure by sending the NEW F1 SETUP NOTIFY message to the gNB-CU. When the gNB-DU has successfully setup F1 connection to the target F1-terminating IAB-donor-CU, the gNB-DU shall send the NEW F1 SETUP NOTIFY message to the gNB-CU.

If the *Activated Cells Mapping List* is included in the NEW F1 SETUP NOTIFY message, the gNB-CU shall, if supported, take it into account when determine the mapping of the activated cells served by this gNB-DU and its co-located target logical IAB-DU.

#### 8.10.Y.3 Abnormal Conditions

Not applicable.

**NEXT CHANGE**

### 9.2.9 IAB messages

**UNCHANGED PART OMITTED**

#### 9.2.9.X1 NEW F1 SETUP TRIGGER

This message is sent by the gNB-CU to trigger the new F1 setup to the gNB-DU.

Direction: gNB-CU → gNB-DU

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| Target gNB ID | M |  | Global gNB ID 9.3.1.Y |  | YES | reject |
| Target gNB IP address | O |  | Transport Layer Address 9.3.2.3 |  | YES | ignore |
| Target SeGW IP address | O |  | Transport Layer Address 9.3.2.3 |  | YES | ignore |

#### 9.2.9.X2 NEW F1 SETUP NOTIFY

This message is sent by the gNB-DU to notify the gNB-CU that the new F1 interface setup towards target F1-terminating IAB-donor-CU was successful.

Direction: gNB-DU → gNB-CU

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| **Activated Cells Mapping List** |  | *0..1* |  |  | YES | ignore |
| **>Activated Cells List Mapping Item IEs** |  | *1.. <maxCellingNBDU>* |  | List of activated cells  | EACH | ignore |
| >> NR CGI for target logical DU | M |  | NR CGI 9.3.1.12 | The IDs of the activated cells under the target logical DU of mobile IAB | - |  |
| >> NR CGI for source logical DU | M |  | NR CGI 9.3.1.12 | The IDs of the activated cells under the source logical DU of mobile IAB | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxCellingNBDU | Maximum no. cells that can be served by a gNB-DU. Value is 512. |

**NEXT CHANGE**

### 9.3.1 Radio Network Layer Related IEs

#### 9.3.1.Y Global gNB ID

This IE is used to globally identify a gNB (see TS 38.300 [6]).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| PLMN Identity | M |  | 9.3.1.14 |  |
| CHOICE *gNB ID* | M |  |  |  |
| *>gNB ID* |  |  |  |  |
| >>gNB ID | M |  | BIT STRING (SIZE(22..32)) | Equal to the leftmost bits of the *NR Cell Identity* IE contained in the *NR CGI* IE of each cell served by the gNB. |

**NEXT CHANGE**

### 9.4.3 Elementary Procedure Definitions

-- ASN1START

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

--

-- Elementary Procedure definitions

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

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,

 NewF1SetupTrigger,

 NewF1SetupNotify

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-NewF1SetupTrigger,

 id-NewF1SetupNotify

FROM F1AP-Constants

 ProtocolIE-SingleContainer{},

 F1AP-PROTOCOL-IES

FROM F1AP-Containers;

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

--

-- Interface Elementary Procedure Class

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

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

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

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

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

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 ,

 ...

}

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 |

 newF1SetupTrigger |

 newF1SetupNotify ,

 ...

}

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

--

-- Interface Elementary Procedures

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

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

}

newF1SetupTrigger F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE NewF1SetupTrigger

 PROCEDURE CODE id-NewF1SetupTrigger

 CRITICALITY ignore

}

newF1SetupNotify F1AP-ELEMENTARY-PROCEDURE ::= {

 INITIATING MESSAGE NewF1SetupNotify

 PROCEDURE CODE id-NewF1SetupNotify

 CRITICALITY ignore

}

END

-- ASN1STOP

### 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

 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-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,

 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,

 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,

 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,

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 id-Cause,

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 id-gNB-DU-ID,

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 id-gNB-CU-Name,

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 id-MBS-Session-ID,

 id-MBS-ServiceArea,

 id-MBSMulticastF1UContextDescriptor,

 id-MC-PagingCell-Item,

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 id-MulticastF1UContextReferenceCU,

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

 id-PLMNAssistanceInfoForNetShar,

 id-Potential-SpCell-Item,

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 id-RAT-FrequencyPriorityInformation,

 id-RedirectedRRCmessage,

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 id-RequestedSRSTransmissionCharacteristics,

 id-ResourceCoordinationTransferContainer,

 id-RRCContainer,

 id-RRCContainer-RRCSetupComplete,

 id-RRCReconfigurationCompleteIndicator,

 id-SCell-FailedtoSetup-List,

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 id-SCell-ToBeRemoved-Item,

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 id-SDT-Termination-Request,

 id-SelectedPLMNID,

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

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 id-ServCellIndex,

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 id-UEContextNotRetrievable,

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 id-UE-MulticastMRBs-ToBeSetup-List,

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 id-PagingCell-Item,

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

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

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 id-Associated-SCell-List,

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

 id-Child-Nodes-List,

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 id-IABIPv6RequestType,

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 id-TrafficMappingInformation,

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 id-NRV2XServicesAuthorized,

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 id-targetCellsToCancel,

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 id-LMF-UE-MeasurementID,

 id-RAN-UE-MeasurementID,

 id-SFNInitialisationTime,

 id-SystemFrameNumber,

 id-SlotNumber,

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 id-MeasurementBeamInfoRequest,

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 id-SCGIndicator,

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 id-PosMeasurementPeriodicityExtended,

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 id-Coverage-Modification-Notification,

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 id-IABConditionalRRCMessageDeliveryIndication,

 id-F1CTransferPathNRDC,

 id-BufferSizeThresh,

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 id-PosConextRevIndication,

 id-NRRedCapUEIndication,

 id-RANUEPagingDRX,

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 id-UuRLCChannelToBeSetupList,

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 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-Target-gNB-ID,

 id-Target-gNB-IP-address,

 id-Target-SeGW-IP-address,

 id-Activated-Cells-Mapping-List,

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

 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

FROM F1AP-Constants;

**UNCHANGED PART OMITTED**

-- NEW F1 SETUP TRIGGER PROCEDURE

--

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

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

--

-- NEW F1 SETUP TRIGGER

--

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

NewF1SetupTrigger ::= SEQUENCE {

 protocolIEs ProtocolIE-Container {{ NewF1SetupTriggerIEs}},

 ...

}

NewF1SetupTriggerIEs 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 },

 ...

}

-- NEW F1 SETUP NOTIFY PROCEDURE

--

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

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

--

-- NEW F1 SETUP NOTIFY

--

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

NewF1SetupNotify ::= SEQUENCE {

 protocolIEs ProtocolIE-Container {{ NewF1SetupNotifyIEs}},

 ...

}

NewF1SetupNotifyIEs F1AP-PROTOCOL-IES ::= {

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

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

 ...

}

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 },

 ...

}

END

-- ASN1STOP

### 9.4.5 Information Element Definitions

**UNCHANGED PART OMITTED**

-- A

Activated-Cells-Mapping-List-Item ::= SEQUENCE {

 nRCGIforTargetLogicalDU NRCGI,

 nRCGIforSourceLogicalDU NRCGI,

 iE-Extensions ProtocolExtensionContainer { { Activated-Cells-Mapping-List-ItemExtIEs } } OPTIONAL,

 ...

}

Activated-Cells-Mapping-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

 ...

}

**UNCHANGED PART OMITTED**

-- G

GlobalGNB-ID ::= SEQUENCE {

 pLMNIdentity PLMN-Identity,

 gNB-ID GNB-ID,

 iE-Extensions ProtocolExtensionContainer { {GlobalGNB-ID-ExtIEs} } OPTIONAL,

 ...

}

GlobalGNB-ID-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

 ...

}

GNB-ID ::= CHOICE {

 gNB-ID BIT STRING (SIZE(22..32)),

 choice-Extensions ProtocolIE-SingleContainer { {GNB-ID-ExtIEs} }

}

GNB-ID-ExtIEs F1AP-PROTOCOL-IES ::= {

 ...

}

**UNCHANGED PART OMITTED**

### 9.4.7 Constant Definitions

-- ASN1START

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

--

-- Constant definitions

--

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

F1AP-Constants {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

 ProcedureCode,

 ProtocolIE-ID

FROM F1AP-CommonDataTypes;

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

--

-- Elementary Procedures

--

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

id-Reset ProcedureCode ::= 0

id-F1Setup ProcedureCode ::= 1

id-ErrorIndication ProcedureCode ::= 2

id-gNBDUConfigurationUpdate ProcedureCode ::= 3

id-gNBCUConfigurationUpdate ProcedureCode ::= 4

id-UEContextSetup ProcedureCode ::= 5

id-UEContextRelease ProcedureCode ::= 6

id-UEContextModification ProcedureCode ::= 7

id-UEContextModificationRequired ProcedureCode ::= 8

id-UEMobilityCommand ProcedureCode ::= 9

id-UEContextReleaseRequest ProcedureCode ::= 10

id-InitialULRRCMessageTransfer ProcedureCode ::= 11

id-DLRRCMessageTransfer ProcedureCode ::= 12

id-ULRRCMessageTransfer ProcedureCode ::= 13

id-privateMessage ProcedureCode ::= 14

id-UEInactivityNotification ProcedureCode ::= 15

id-GNBDUResourceCoordination ProcedureCode ::= 16

id-SystemInformationDeliveryCommand ProcedureCode ::= 17

id-Paging ProcedureCode ::= 18

id-Notify ProcedureCode ::= 19

id-WriteReplaceWarning ProcedureCode ::= 20

id-PWSCancel ProcedureCode ::= 21

id-PWSRestartIndication ProcedureCode ::= 22

id-PWSFailureIndication ProcedureCode ::= 23

id-GNBDUStatusIndication ProcedureCode ::= 24

id-RRCDeliveryReport ProcedureCode ::= 25

id-F1Removal ProcedureCode ::= 26

id-NetworkAccessRateReduction ProcedureCode ::= 27

id-TraceStart ProcedureCode ::= 28

id-DeactivateTrace ProcedureCode ::= 29

id-DUCURadioInformationTransfer ProcedureCode ::= 30

id-CUDURadioInformationTransfer ProcedureCode ::= 31

id-BAPMappingConfiguration ProcedureCode ::= 32

id-GNBDUResourceConfiguration ProcedureCode ::= 33

id-IABTNLAddressAllocation ProcedureCode ::= 34

id-IABUPConfigurationUpdate ProcedureCode ::= 35

id-resourceStatusReportingInitiation ProcedureCode ::= 36

id-resourceStatusReporting ProcedureCode ::= 37

id-accessAndMobilityIndication ProcedureCode ::= 38

id-accessSuccess ProcedureCode ::= 39

id-cellTrafficTrace ProcedureCode ::= 40

id-PositioningMeasurementExchange ProcedureCode ::= 41

id-PositioningAssistanceInformationControl ProcedureCode ::= 42

id-PositioningAssistanceInformationFeedback ProcedureCode ::= 43

id-PositioningMeasurementReport ProcedureCode ::= 44

id-PositioningMeasurementAbort ProcedureCode ::= 45

id-PositioningMeasurementFailureIndication ProcedureCode ::= 46

id-PositioningMeasurementUpdate ProcedureCode ::= 47

id-TRPInformationExchange ProcedureCode ::= 48

id-PositioningInformationExchange ProcedureCode ::= 49

id-PositioningActivation ProcedureCode ::= 50

id-PositioningDeactivation ProcedureCode ::= 51

id-E-CIDMeasurementInitiation ProcedureCode ::= 52

id-E-CIDMeasurementFailureIndication ProcedureCode ::= 53

id-E-CIDMeasurementReport ProcedureCode ::= 54

id-E-CIDMeasurementTermination ProcedureCode ::= 55

id-PositioningInformationUpdate ProcedureCode ::= 56

id-ReferenceTimeInformationReport ProcedureCode ::= 57

id-ReferenceTimeInformationReportingControl ProcedureCode ::= 58

id-BroadcastContextSetup ProcedureCode ::= 59

id-BroadcastContextRelease ProcedureCode ::= 60

id-BroadcastContextReleaseRequest ProcedureCode ::= 61

id-BroadcastContextModification ProcedureCode ::= 62

id-MulticastGroupPaging ProcedureCode ::= 63

id-MulticastContextSetup ProcedureCode ::= 64

id-MulticastContextRelease ProcedureCode ::= 65

id-MulticastContextReleaseRequest ProcedureCode ::= 66

id-MulticastContextModification ProcedureCode ::= 67

id-MulticastDistributionSetup ProcedureCode ::= 68

id-MulticastDistributionRelease ProcedureCode ::= 69

id-PDCMeasurementInitiation ProcedureCode ::= 70

id-PDCMeasurementReport ProcedureCode ::= 71

id-PDCMeasurementInitiationRequest ProcedureCode ::= 72

id-PDCMeasurementInitiationResponse ProcedureCode ::= 73

id-PDCMeasurementInitiationFailure ProcedureCode ::= 74

id-pRSConfigurationExchange ProcedureCode ::= 75

id-measurementPreconfiguration ProcedureCode ::= 76

id-measurementActivation ProcedureCode ::= 77

id-QoEInformationTransfer ProcedureCode ::= 78

id-PDCMeasurementTerminationCommand ProcedureCode ::= 79

id-PDCMeasurementFailureIndication ProcedureCode ::= 80

id-PosSystemInformationDeliveryCommand ProcedureCode ::= 81

id-NewF1SetupTrigger ProcedureCode ::= xx

id-NewF1SetupNotify ProcedureCode ::= yy

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

--

-- Extension constants

--

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

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

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

--

-- Lists

--

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

maxNRARFCN INTEGER ::= 3279165

maxnoofErrors INTEGER ::= 256

maxnoofIndividualF1ConnectionsToReset INTEGER ::= 65536

maxCellingNBDU INTEGER ::= 512

maxnoofSCells INTEGER ::= 32

maxnoofSRBs INTEGER ::= 8

maxnoofDRBs INTEGER ::= 64

maxnoofULUPTNLInformation INTEGER ::= 2

maxnoofDLUPTNLInformation INTEGER ::= 2

maxnoofBPLMNs INTEGER ::= 6

maxnoofCandidateSpCells INTEGER ::= 64

maxnoofPotentialSpCells INTEGER ::= 64

maxnoofNrCellBands INTEGER ::= 32

maxnoofSIBTypes INTEGER ::= 32

maxnoofSITypes INTEGER ::= 32

maxnoofPagingCells INTEGER ::= 512

maxnoofTNLAssociations INTEGER ::= 32

maxnoofQoSFlows INTEGER ::= 64

maxnoofSliceItems INTEGER ::= 1024

maxCellineNB INTEGER ::= 256

maxnoofExtendedBPLMNs INTEGER ::= 6

maxnoofUEIDs INTEGER ::= 65536

maxnoofBPLMNsNR INTEGER ::= 12

maxnoofUACPLMNs INTEGER ::= 12

maxnoofUACperPLMN INTEGER ::= 64

maxnoofAdditionalSIBs INTEGER ::= 63

maxnoofslots INTEGER ::= 5120

maxnoofTLAs INTEGER ::= 16

maxnoofGTPTLAs INTEGER ::= 16

maxnoofBHRLCChannels INTEGER ::= 65536

maxnoofRoutingEntries INTEGER ::= 1024

maxnoofIABSTCInfo INTEGER ::= 45

maxnoofSymbols INTEGER ::= 14

maxnoofServingCells INTEGER ::= 32

maxnoofDUFSlots INTEGER ::= 320

maxnoofHSNASlots INTEGER ::= 5120

maxnoofServedCellsIAB INTEGER ::= 512

maxnoofChildIABNodes INTEGER ::= 1024

maxnoofNonUPTrafficMappings INTEGER ::= 32

maxnoofTLAsIAB INTEGER ::= 1024

maxnoofMappingEntries INTEGER ::= 67108864

maxnoofDSInfo INTEGER ::= 64

maxnoofEgressLinks INTEGER ::= 2

maxnoofULUPTNLInformationforIAB INTEGER ::= 32678

maxnoofUPTNLAddresses INTEGER ::= 8

maxnoofSLDRBs INTEGER ::= 512

maxnoofQoSParaSets INTEGER ::= 8

maxnoofPC5QoSFlows INTEGER ::= 2048

maxnoofSSBAreas INTEGER ::= 64

maxnoofPhysicalResourceBlocks INTEGER ::= 275

maxnoofPhysicalResourceBlocks-1 INTEGER ::= 274

maxnoofPRACHconfigs INTEGER ::= 16

maxnoofRACHReports INTEGER ::= 64

maxnoofRLFReports INTEGER ::= 64

maxnoofAdditionalPDCPDuplicationTNL INTEGER ::= 2

maxnoofRLCDuplicationState INTEGER ::= 3

maxnoofCHOcells INTEGER ::= 8

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofCAGsupported INTEGER ::= 12

maxnoofNIDsupported INTEGER ::= 12

maxnoofNRSCSs INTEGER ::= 5

maxnoofExtSliceItems INTEGER ::= 65535

maxnoofPosMeas INTEGER ::= 16384

maxnoofTRPInfoTypes INTEGER ::= 64

maxnoofTRPs INTEGER ::= 65535

maxnoofSRSTriggerStates INTEGER ::= 3

maxnoofSpatialRelations INTEGER ::= 64

maxnoBcastCell INTEGER ::= 16384

maxnoofAngleInfo INTEGER ::= 65535

maxnooflcs-gcs-translation INTEGER ::= 3

maxnoofPath INTEGER ::= 2

maxnoofMeasE-CID INTEGER ::= 64

maxnoofSSBs INTEGER ::= 255

maxnoSRS-ResourceSets INTEGER ::= 16

maxnoSRS-ResourcePerSet INTEGER ::= 16

maxnoSRS-Carriers INTEGER ::= 32

maxnoSCSs INTEGER ::= 5

maxnoSRS-Resources INTEGER ::= 64

maxnoSRS-PosResources INTEGER ::= 64

maxnoSRS-PosResourceSets INTEGER ::= 16

maxnoSRS-PosResourcePerSet INTEGER ::= 16

maxnoofPRS-ResourceSets INTEGER ::= 2

maxnoofPRS-ResourcesPerSet INTEGER ::= 64

maxNoOfMeasTRPs INTEGER ::= 64

maxnoofPRSresourceSets INTEGER ::= 8

maxnoofPRSresources INTEGER ::= 64

maxnoofSuccessfulHOReports INTEGER ::= 64

maxnoofNR-UChannelIDs INTEGER ::= 16

maxServedCellforSON INTEGER ::= 256

maxNeighbourCellforSON INTEGER ::= 32

maxAffectedCells INTEGER ::= 32

maxnoofMRBs INTEGER ::= 32

maxnoofMBSQoSFlows INTEGER ::= 64

maxnoofMBSFSAs INTEGER ::= 256

maxnoofUEIDforPaging INTEGER ::= 4096

maxnoofCellsforMBS INTEGER ::= 512

maxnoofTAIforMBS INTEGER ::= 512

maxnoofMBSAreaSessionIDs INTEGER ::= 256

maxnoofMBSServiceAreaInformation INTEGER ::= 256

maxnoofIABCongInd INTEGER ::= 1024

maxnoofNeighbourNodeCellsIAB INTEGER ::= 1024

maxnoofRBsetsPerCell INTEGER ::= 8

maxnoofRBsetsPerCell-1 INTEGER ::= 7

maxnoofMeasPDC INTEGER ::= 16

maxnoARPs INTEGER ::= 16

maxnoofULAoAs INTEGER ::= 8

maxNoPathExtended INTEGER ::= 8

maxnoTRPTEGs INTEGER ::= 8

maxFreqLayers INTEGER ::= 4

maxNumResourcesPerAngle INTEGER ::= 24

maxnoAzimuthAngles INTEGER ::= 3600

maxnoElevationAngles INTEGER ::= 1801

maxnoofPRSTRPs INTEGER ::= 256

maxnoofQoEInformation INTEGER ::= 16

maxnoofUuRLCChannels INTEGER ::= 32

maxnoofPC5RLCChannels INTEGER ::= 512

maxnoofSMBRValues INTEGER ::= 8

maxnoofMRBsforUE INTEGER ::= 64

maxnoofMBSSessionsofUE INTEGER ::= 256

maxnoofSLdestinations INTEGER ::= 32

maxnoofNSAGs INTEGER ::= 256

maxnoofSDTBearers INTEGER ::= 72

maxnoofServingCellMOs INTEGER ::= 16

maxNrofBWPs INTEGER ::= 8

maxnoofPosSITypes INTEGER ::= 32

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

--

-- IEs

--

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

id-Cause ProtocolIE-ID ::= 0

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

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

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

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

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

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

id-CriticalityDiagnostics ProtocolIE-ID ::= 7

id-CUtoDURRCInformation ProtocolIE-ID ::= 9

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

id-DRXCycle ProtocolIE-ID ::= 38

id-DUtoCURRCInformation ProtocolIE-ID ::= 39

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

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

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

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

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

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

id-NRCellID ProtocolIE-ID ::= 46

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

id-ResetType ProtocolIE-ID ::= 48

id-ResourceCoordinationTransferContainer ProtocolIE-ID ::= 49

id-RRCContainer ProtocolIE-ID ::= 50

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

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

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

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

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

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

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

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

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

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

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

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

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

id-SRBID ProtocolIE-ID ::= 64

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

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

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

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

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

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

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

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

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

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

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

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

id-TimeToWait ProtocolIE-ID ::= 77

id-TransactionID ProtocolIE-ID ::= 78

id-TransmissionActionIndicator ProtocolIE-ID ::= 79

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

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

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

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

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

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

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

id-RRCReconfigurationCompleteIndicator ProtocolIE-ID ::= 87

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

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

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

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

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

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

id-FullConfiguration ProtocolIE-ID ::= 94

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

id-SpCellULConfigured ProtocolIE-ID ::= 96

id-InactivityMonitoringRequest ProtocolIE-ID ::= 97

id-InactivityMonitoringResponse ProtocolIE-ID ::= 98

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

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

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

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

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

id-RequestType ProtocolIE-ID ::= 106

id-ServCellIndex ProtocolIE-ID ::= 107

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

id-ExecuteDuplication ProtocolIE-ID ::= 109

id-NRCGI ProtocolIE-ID ::= 111

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

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

id-PagingDRX ProtocolIE-ID ::= 114

id-PagingPriority ProtocolIE-ID ::= 115

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

id-UEIdentityIndexValue ProtocolIE-ID ::= 117

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

id-HandoverPreparationInformation ProtocolIE-ID ::= 119

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

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

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

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

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

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

id-MaskedIMEISV ProtocolIE-ID ::= 126

id-PagingIdentity ProtocolIE-ID ::= 127

id-DUtoCURRCContainer ProtocolIE-ID ::= 128

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

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

id-TAISliceSupportList ProtocolIE-ID ::= 131

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

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

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

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

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

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

id-NotficationControl ProtocolIE-ID ::= 138

id-RANAC ProtocolIE-ID ::= 139

id-PWSSystemInformation ProtocolIE-ID ::= 140

id-RepetitionPeriod ProtocolIE-ID ::= 141

id-NumberofBroadcastRequest ProtocolIE-ID ::= 142

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

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

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

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

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

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

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

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

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

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

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

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

id-ConfirmedUEID ProtocolIE-ID ::= 156

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

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

id-DRXConfigurationIndicator ProtocolIE-ID ::= 159

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

id-DLPDCPSNLength ProtocolIE-ID ::= 161

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

id-MeasurementTimingConfiguration ProtocolIE-ID ::= 163

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id-PC5RLCChannelToBeModifiedList ProtocolIE-ID ::= 609

id-PC5RLCChannelToBeReleasedList ProtocolIE-ID ::= 610

id-PC5RLCChannelSetupList ProtocolIE-ID ::= 611

id-PC5RLCChannelFailedToBeSetupList ProtocolIE-ID ::= 612

id-PC5RLCChannelFailedToBeModifiedList ProtocolIE-ID ::= 613

id-PC5RLCChannelRequiredToBeModifiedList ProtocolIE-ID ::= 614

id-PC5RLCChannelRequiredToBeReleasedList ProtocolIE-ID ::= 615

id-PC5RLCChannelModifiedList ProtocolIE-ID ::= 616

id-SidelinkRelayConfiguration ProtocolIE-ID ::= 617

id-UpdatedRemoteUELocalID ProtocolIE-ID ::= 618

id-PathSwitchConfiguration ProtocolIE-ID ::= 619

id-PagingCause ProtocolIE-ID ::= 620

id-MUSIM-GapConfig ProtocolIE-ID ::= 621

id-PEIPSAssistanceInfo ProtocolIE-ID ::= 622

id-UEPagingCapability ProtocolIE-ID ::= 623

id-LastUsedCellIndication ProtocolIE-ID ::= 624

id-SIB17-message ProtocolIE-ID ::= 625

id-GNBDUUESliceMaximumBitRateList ProtocolIE-ID ::= 626

id-SIB20-message ProtocolIE-ID ::= 627

id-UE-MulticastMRBs-ToBeReleased-List ProtocolIE-ID ::= 628

id-UE-MulticastMRBs-ToBeReleased-Item ProtocolIE-ID ::= 629

id-UE-MulticastMRBs-ToBeSetup-List ProtocolIE-ID ::= 630

id-UE-MulticastMRBs-ToBeSetup-Item ProtocolIE-ID ::= 631

id-MulticastMBSSessionSetupList ProtocolIE-ID ::= 632

id-MulticastMBSSessionRemoveList ProtocolIE-ID ::= 633

id-PosMeasurementAmount ProtocolIE-ID ::= 634

id-SDT-Termination-Request ProtocolIE-ID ::= 635

id-pathPower ProtocolIE-ID ::= 636

id-DU-RX-MT-RX-Extend ProtocolIE-ID ::= 637

id-DU-TX-MT-TX-Extend ProtocolIE-ID ::= 638

id-DU-RX-MT-TX-Extend ProtocolIE-ID ::= 639

id-DU-TX-MT-RX-Extend ProtocolIE-ID ::= 640

id-BAP-Header-Rewriting-Removed-List ProtocolIE-ID ::= 641

id-BAP-Header-Rewriting-Removed-List-Item ProtocolIE-ID ::= 642

id-SLDRXCycleList ProtocolIE-ID ::= 643

id-TAINSAGSupportList ProtocolIE-ID ::= 644

id-SL-RLC-ChannelToAddModList ProtocolIE-ID ::= 645

id-BroadcastAreaScope ProtocolIE-ID ::= 646

id-ManagementBasedMDTPLMNModificationList ProtocolIE-ID ::= 647

id-SIB15-message ProtocolIE-ID ::= 648

id-ActivationRequestType ProtocolIE-ID ::= 649

id-PosMeasGapPreConfigList ProtocolIE-ID ::= 650

id-InterFrequencyConfig-NoGap ProtocolIE-ID ::= 651

id-MBSInterestIndication ProtocolIE-ID ::= 652

id-UE-MulticastMRBs-ConfirmedToBeModified-List ProtocolIE-ID ::= 653

id-UE-MulticastMRBs-ConfirmedToBeModified-Item ProtocolIE-ID ::= 654

id-UE-MulticastMRBs-RequiredToBeModified-List ProtocolIE-ID ::= 655

id-UE-MulticastMRBs-RequiredToBeModified-Item ProtocolIE-ID ::= 656

id-UE-MulticastMRBs-RequiredToBeReleased-List ProtocolIE-ID ::= 657

id-UE-MulticastMRBs-RequiredToBeReleased-Item ProtocolIE-ID ::= 658

id-L571Info ProtocolIE-ID ::= 659

id-L1151Info ProtocolIE-ID ::= 660

id-SCS-480 ProtocolIE-ID ::= 661

id-SCS-960 ProtocolIE-ID ::= 662

id-SRSPortIndex ProtocolIE-ID ::= 663

id-PEISubgroupingSupportIndication ProtocolIE-ID ::= 664

id-NeedForGapsInfoNR ProtocolIE-ID ::= 665

id-NeedForGapNCSGInfoNR ProtocolIE-ID ::= 666

id-NeedForGapNCSGInfoEUTRA ProtocolIE-ID ::= 667

id-procedure-code-668-not-to-be-used ProtocolIE-ID ::= 668

id-procedure-code-669-not-to-be-used ProtocolIE-ID ::= 669

id-procedure-code-670-not-to-be-used ProtocolIE-ID ::= 670

id-Source-MRB-ID ProtocolIE-ID ::= 671

id-PosMeasurementPeriodicityNR-AoA ProtocolIE-ID ::= 672

id-RedCapIndication ProtocolIE-ID ::= 673

id-SRSPosRRCInactiveConfig ProtocolIE-ID ::= 674

id-SDTBearerConfigurationQueryIndication ProtocolIE-ID ::= 675

id-SDTBearerConfigurationInfo ProtocolIE-ID ::= 676

id-UL-GapFR2-Config ProtocolIE-ID ::= 677

id-ConfigRestrictInfoDAPS ProtocolIE-ID ::= 678

id-UE-MulticastMRBs-Setup-List ProtocolIE-ID ::= 679

id-UE-MulticastMRBs-Setup-Item ProtocolIE-ID ::= 680

id-MulticastF1UContextReferenceCU ProtocolIE-ID ::= 681

id-PosSItypeList ProtocolIE-ID ::= 682

id-DAPS-HO-Status ProtocolIE-ID ::= 683

id-UplinkTxDirectCurrentTwoCarrierListInfo ProtocolIE-ID ::= 684

id-UE-MulticastMRBs-ToBeSetup-atModify-List ProtocolIE-ID ::= 685

id-UE-MulticastMRBs-ToBeSetup-atModify-Item ProtocolIE-ID ::= 686

id-MC-PagingCell-List ProtocolIE-ID ::= 687

id-MC-PagingCell-Item ProtocolIE-ID ::= 688

id-SRSPosRRCInactiveQueryIndication ProtocolIE-ID ::= 689

id-UlTxDirectCurrentMoreCarrierInformation ProtocolIE-ID ::= 690

id-CPACMCGInformation ProtocolIE-ID ::= 691

id-TwoPHRModeMCG ProtocolIE-ID ::= 692

id-TwoPHRModeSCG ProtocolIE-ID ::= 693

id-ExtendedUEIdentityIndexValue ProtocolIE-ID ::= 694

id-ServingCellMO-List ProtocolIE-ID ::= 695

id-ServingCellMO-List-Item ProtocolIE-ID ::= 696

id-ServingCellMO-encoded-in-CGC-List ProtocolIE-ID ::= 697

id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 698

id-UE-MulticastMRBs-Setupnew-List ProtocolIE-ID ::= 699

id-UE-MulticastMRBs-Setupnew-Item ProtocolIE-ID ::= 700

id-ncd-SSB-RedCapInitialBWP-SDT ProtocolIE-ID ::= 701

id-nrofSymbolsExtended ProtocolIE-ID ::= 702

id-repetitionFactorExtended ProtocolIE-ID ::= 703

id-startRBHopping ProtocolIE-ID ::= 704

id-startRBIndex ProtocolIE-ID ::= 705

id-transmissionCombn8 ProtocolIE-ID ::= 706

id-Target-gNB-ID ProtocolIE-ID ::= XX1

id-Target-gNB-IP-address ProtocolIE-ID ::= XX2

id-Target-SeGW-IP-address ProtocolIE-ID ::= XX3

id-Activated-Cells-Mapping-List ProtocolIE-ID ::= XX4

id-Activated-Cells-Mapping-List-Item ProtocolIE-ID ::= XX5

END

-- ASN1STOP

**END OF CHANGES**