**3GPP TSG-RAN WG3 #116-eR3-224060**

**Online, 9th - 19th May 2022 was R3-223987**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0800** | **rev** | 2 | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](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:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2022-04-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | This CR introduces a new approach to gain information on the level of support for a certain feature based on supported functionality at the target NG-RAN side associated with an NGAP IE based on the respective IE-Id. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The CR introduces the possibility to retrieve information on the level of support for a certain feature based on supported functionality at the target NG-RAN side associated with an NGAP IE based on the respective IE-Id by means of information provided within the CN transparent handover containers.  A new NGAP IE Support Information Request List IE is introduced in the *Source NG-RAN Node to Target NG-RAN Node Transparent Container* IE containing a list of NGAP Protocol IE-Ids, for which the target NG-RAN node shall provide support information ("supported" or "not supported") within either the *Target NG-RAN Node to Source NG-RAN Node Transparent Container* IE or the *Target NG-RAN Node to Source NG-RAN Node Transparent Failure Transparent Container* IE. In addition, information is provided whether the reported IE was actually received by the target NG-RAN node within the HANDOVER REQUEST message. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.4.2.2, 8.4.2.3, 9.3.1.29, 9.3.1.30, 9.3.1.187, 9.3.1.x (new), 9.3.1.y (new), 9.3.1.yy (new), 9.3.1.z (new), 9.4.5, 9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | r2: correcting tabular (missing presence in containers)  r1: removing “not available” codepoint, including “presence” information for the IE, and some editorials  r0: submission to R3#116-e | | | | | | | | |

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

### 8.4.2 Handover Resource Allocation

#### 8.4.2.1 General

The purpose of the Handover Resource Allocation procedure is to reserve resources at the target NG-RAN node for the handover of a UE. The procedure uses UE-associated signalling.

#### 8.4.2.2 Successful Operation



Figure 8.4.2.2-1: Handover resource allocation: successful operation

The AMF initiates the procedure by sending the HANDOVER REQUEST message to the target NG-RAN node.

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

If the *5G ProSe UE PC5 Aggregate Maximum Bit Rate* IE is included in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, use the received value for the concerned UE’s sidelink communication in network scheduled mode for 5G ProSe services.

If the *5G ProSe PC5 QoS Parameters* IE is included in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, use it as defined in TS 23.304 [47].

If the HANDOVER REQUEST message contains within the *Source NG-RAN Node to Target NG-RAN Node Transparent Container* IEthe *NGAP IE Support Information Request List* IE, the target NG-RAN node shall, if supported and the target NG-RAN node accepts the request for handover, for each included NGAP Protocol IE-Id provide within in the *Target NG-RAN Node to Source NG-RAN Node Transparent Container* IE in the HANDOVER REQUEST ACKNOWLEDGE message

- set the *NGAP Protocol IE Support Information* IE to "supported" if the target NG-RAN node has information that the functionality associated with the indicated IE is supported

- set the *NGAP Protocol IE Support Information* IE to "not-supported" if the target NG-RAN node has information that the functionality associated with the indicated IE is not supported

on the interface instance via which the HANDOVER REQUEST message has been received, and

* set the *NGAP Protocol IE Presence Information* IE to "present" if the target NG-RAN node has received the respective NGAP Protocol IE-Id in the HANDOVER REQUEST message, and “not-present” otherwise.

**Interactions with RRC Inactive Transition Report procedure:**

If the *RRC Inactive Transition Report Request* IE is included in the HANDOVER REQUEST message and set to "subsequent state transition report", the NG-RAN node shall, if supported, send the RRC INACTIVE TRANSITION REPORT message to the AMF to report the RRC state of the UE when the UE enters or leaves RRC\_INACTIVE state.

#### 8.4.2.3 Unsuccessful Operation



Figure 8.4.2.3-1: Handover resource allocation: unsuccessful operation

If the target NG-RAN node does not admit any of the PDU session resources, or a failure occurs during the Handover Preparation, it shall send the HANDOVER FAILURE message to the AMF with an appropriate cause value.

If the HANDOVER REQUEST message contains within the *Source NG-RAN Node to Target NG-RAN Node Transparent Container* IEthe *NGAP IE Support Information Request List* IE, the target NG-RAN node shall, if supported and the target NG-RAN node does not accept the request for handover, for each included NGAP Protocol IE-Id provide within in the *Target NG-RAN Node to Source NG-RAN Node Transparent Failure Transparent Container* IE in the HANDOVER FAILURE message

- set the *NGAP Protocol IE Support Information* IE to "supported" if the target NG-RAN node has information that the functionality associated with the indicated IE is supported

- set the *NGAP Protocol IE Support Information* IE to "not-supported" if the target NG-RAN node has information that the functionality associated with the indicated IE is not supported

on the interface instance via which the HANDOVER REQUEST message has been received, and

- set the *NGAP Protocol IE Presence Information* IE to "present" if the target NG-RAN node has received the respective NGAP Protocol IE-Id in the HANDOVER REQUEST message, and “not-present” otherwise.

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

#### 9.3.1.29 Source NG-RAN Node to Target NG-RAN Node Transparent Container

This IE is produced by the source NG-RAN node and is transmitted to the target NG-RAN node. For inter-system handovers to 5G, the IE is transmitted from the external handover source to the target NG-RAN node.

This IE is transparent to the 5GC.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| RRC Container | M |  | OCTET STRING | Includes the RRC *HandoverPreparationInformation* message as defined in TS 38.331 [18] if the target is a gNB.  Includes the RRC *HandoverPreparationInformation* message as defined in TS 36.331 [21] if the target is an ng-eNB. | - |  |
| **PDU Session Resource Information List** |  | *0..1* |  | For intra-system handovers in NG-RAN. | - |  |
| **>PDU Session Resource Information Item** |  | *1..<maxnoofPDUSessions>* |  |  | - |  |
| >>PDU Session ID | M |  | 9.3.1.50 |  | - |  |
| **>>QoS Flow Information List** |  | *1* |  |  | - |  |
| **>>>QoS Flow Information Item** |  | *1..<maxnoofQoSFlows>* |  |  | - |  |
| >>>>QoS Flow Identifier | M |  | 9.3.1.51 |  | - |  |
| >>>>DL Forwarding | O |  | 9.3.1.33 |  | - |  |
| >>>>UL Forwarding | O |  | 9.3.1.118 |  | YES | ignore |
| >>>>Source Transport Layer Address | O |  | Transport Layer Address  9.3.2.4 | Identifies the TNL address used by the sending node for direct data forwarding  towards the target NG-RAN node | YES | ignore |
| >>DRBs to QoS Flows Mapping List | O |  | 9.3.1.34 |  | - |  |
| **E-RAB Information List** |  | *0..1* |  | For inter-system handovers to 5G. | - |  |
| **>E-RAB Information Item** |  | *1..<maxnoofE-RABs>* |  |  | - |  |
| >>E-RAB ID | M |  | 9.3.2.3 |  | - |  |
| >>DL Forwarding | O |  | 9.3.1.33 |  | - |  |
| Target Cell ID | M |  | NG-RAN CGI  9.3.1.73 |  | - |  |
| Index to RAT/Frequency Selection Priority | O |  | 9.3.1.61 |  | - |  |
| UE History Information | M |  | 9.3.1.95 |  | - |  |
| SgNB UE X2AP ID | O |  | 9.3.1.127 | Allocated at the Source en-gNB | - |  |
| UE History Information from UE | O |  | 9.3.1.166 |  | YES | ignore |
| Source Node ID | O |  | 9.3.1.195 | Source SN ID | YES | ignore |
| UE Context Reference at Source | O |  | RAN UE NGAP ID  9.3.3.2 |  | YES | ignore |
| **MBS Session Information Source to Target List** |  | *0..<maxnoofMBSSessionsofUE>* |  |  | YES | ignore |
| >MBS Session ID | M |  | 9.3.1.206 |  | - |  |
| >MBS Area Session ID | O |  | 9.3.1.207 | MBS Area Session ID of the UE at the NG-RAN node from which the UE context is transferred | - |  |
| >MBS Service Area | O |  | 9.3.1.208 |  | - |  |
| **>MBS QoS Flow List** |  | *1..<maxnoofMBSQoSFlows>* |  |  | - |  |
| *>>*MBS QoS Flow Identifier | M |  | QoS Flow Identifier  9.3.1.51 |  | - |  |
| *>>*MBS QoS Flow Level QoS *Parameters* | M |  | QoS Flow Level QoS Parameters  9.3.1.12 |  | - |  |
| **>MBS Mapping and Data Forwarding Request** |  | *1 .. <maxnoofMRBs>* |  |  | - |  |
| >>MRB ID | M |  | 9.3.1.218 |  | - |  |
| **>>MBS QoS Flow List** |  | *1..<maxnoofMBSQoSflows>* |  |  | - |  |
| >>>MBS QoS Flow Identifier | M |  | QoS Flow Identifier  9.3.1.51 |  | - |  |
| >>MRB Progress Information | M |  | 9.3.1.219 | The SN information of the last packet which has already been delivered for the MRB. | - |  |
| QMC Configuration Information | O |  | 9.3.1.223 | Used for passing the signalling based QoE measurement information from the source NG-RAN node to the target NG-RAN node in NG-based handover. | YES | ignore |
| **NGAP IE Support Information Request List** |  | *0..<maxnoofIESupportInfo>* |  |  | YES | ignore |
| >NGAP Protocol IE-Id | M |  | 9.3.1.x |  | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofPDUSessions | Maximum no. of PDU sessions allowed towards one UE. Value is 256. |
| maxnoofQoSFlows | Maximum no. of QoS flows allowed within one PDU session. Value is 64. |
| maxnoofE-RABs | Maximum no. of E-RABs allowed towards one UE. Value is 256. |
| maxnoofMBSSessions | Maximum no. of MBS sessions allowed within one PDU session. Value is 32. |
| maxnoofMBSSessionsofUE | Maximum no. of MBS sessions allowed towards one UE. Value is 8192. |
| maxnoofMBSQoSflows | Maximum no. of MBS QoS flows allowed within one MBS session. Value is 64. |
| maxnoofMRBs | Maximum no. of MRBs. Value is 32. |
| maxnoofIESupportInfo | Maximum no. of IE Support Information. Value is 32. |

Editor’s note: FFS whether to add an indication of which MBS session is active.

#### 9.3.1.30 Target NG-RAN Node to Source NG-RAN Node Transparent Container

This IE is produced by the target NG-RAN node and is transmitted to the source NG-RAN node. For inter-system handovers to 5G, the IE is transmitted from the target NG-RAN node to the external relocation source.

This IE is transparent to the 5GC.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| RRC Container | M |  | OCTET STRING | Includes the RRC *HandoverCommand* message as defined in TS 38.331 [18] if the target is a gNB.  Includes the RRC *HandoverCommand* message as defined in TS 36.331 [21] if the target is an ng-eNB. | - |  |
| DAPS Response Information List |  | *0..1* |  |  | YES | ignore |
| >DAPS Response Information Item |  | *1..<maxnoofDRBs>* |  |  | - |  |
| >>DRB ID | M |  | 9.3.1.53 |  | - |  |
| >>DAPS Response Information | M |  | 9.3.1.189 | Indicates the response to a requested DAPS Handover | - |  |
| Direct Forwarding Path Availability | O |  | 9.3.1.64 | Indicates whether a direct forwarding path between the source SN and the target NG-RAN node is available for inter-system handover | YES | ignore |
| **MBS Session Information Response Target to Source List** |  | *0..<maxnoofMBSSessionsofUE>* |  |  | YES | ignore |
| >MBS Session ID | M |  | 9.3.1.206 |  | - |  |
| **>Data Forwarding Response MRB List** |  | *1..<maxnoofMRBs>* |  |  | - |  |
| >>MRB ID | M |  | 9.3.1.218 |  | - |  |
| >>DL Forwarding UP TNL Information | M |  | UP Transport Layer Information  9.3.2.2 |  | - |  |
| >>MRB Progress Information | O |  | 9.3.1.219 | This IE includes the information of the oldest packet available at the target NG-RAN node for the MRB. | - |  |
| NGAP IE Support Information Response List | O |  | 9.3.1.z |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofDRBs | Maximum no. of DRBs allowed towards one UE. Value is 32. |
| maxnoofMBSSessionsofUE | Maximum no. of MBS sessions allowed towards one UE. Value is 8192. |
| maxnoofMRBs | Maximum no. of MRBs. Value is 32. |

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

#### 9.3.1.187 Target NG-RAN Node to Source NG-RAN Node Failure Transparent Container

This IE is produced by the target NG-RAN node and is transmitted to the source NG-RAN node in case of preparation failure.

This IE is transparent to the 5GC.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Cell CAG Information | O |  | 9.3.1.185 |  | - |  |
| NGAP IE Support Information Response List | O |  | 9.3.1.z |  | YES | ignore |

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

#### 9.3.1.x NGAP Protocol IE-Id

The *NGAP Protocol IE-Id* IE uniquely identifies an NGAP Protocol IE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| NGAP Protocol IE-Id | M |  | INTEGER (0..65535) |  |

#### 9.3.1.y NGAP Protocol IE Support Information

The *NGAP Protocol IE-Support Information* IE provides information about support of functions associated to an NGAP Protocol IE-Id.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| NGAP Protocol IE Support Information | M |  | ENUMERATED (supported, not-supported, ...) |  |

#### 9.3.1.yy NGAP Protocol IE Presence Information

The *NGAP Protocol IE-Presence Information* IE provides information on whether an NGAP Protocol IE-Id was received within the message requesting the information (i.e. HANDOVER REQUEST).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| NGAP Protocol IE Presence Information | M |  | ENUMERATED(present, not present) |  |

#### 9.3.1.z NGAP IE Support Information Response List

The *NGAP IE Support Information Response List* IE provides information about support of functions associated to a list of NGAP Protocol IE-Ids.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **NGAP IE Support Information Response Item** |  | *0..<maxnoofIESupportInfo>* |  |  |
| >NGAP Protocol IE-Id | M |  | 9.3.1.x |  |
| >NGAP Protocol IE Support Information | M |  | 9.3.1.y |  |
| >NGAP Protocol IE Presence Information | M |  | 9.3.1.yy |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofIESupportInfo | Maximum no. of IE Support Information. Value is 32. |

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

### 9.4.5 Information Element Definitions

-- ASN1START

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

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-- Information Element Definitions

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

NGAP-IEs {

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

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-AdditionalDLForwardingUPTNLInformation,

id-AdditionalULForwardingUPTNLInformation,

id-AdditionalDLQosFlowPerTNLInformation,

id-AdditionalDLUPTNLInformationForHOList,

id-AdditionalNGU-UP-TNLInformation,

id-AdditionalRedundantDL-NGU-UP-TNLInformation,

id-AdditionalRedundantDLQosFlowPerTNLInformation,

id-AdditionalRedundantNGU-UP-TNLInformation,

id-AdditionalRedundantUL-NGU-UP-TNLInformation,

id-AdditionalUL-NGU-UP-TNLInformation,

id-Alternative-SharedNG-U-Multicast-TNL-Information,

id-AlternativeQoSParaSetList,

id-BurstArrivalTimeDownlink,

id-Cause,

id-CNPacketDelayBudgetDL,

id-CNPacketDelayBudgetUL,

id-CNTypeRestrictionsForEquivalent,

id-CNTypeRestrictionsForServing,

id-CommonNetworkInstance,

id-ConfiguredTACIndication,

id-CurrentQoSParaSetIndex,

id-DAPSRequestInfo,

id-DAPSResponseInfoList,

id-DataForwardingNotPossible,

id-DataForwardingResponseERABList,

id-DirectForwardingPathAvailability,

id-DL-NGU-UP-TNLInformation,

id-EndpointIPAddressAndPort,

id-EnergySavingIndication,

id-ExtendedPacketDelayBudget,

id-ExtendedRATRestrictionInformation,

id-ExtendedReportIntervalMDT,

id-ExtendedSliceSupportList,

id-ExtendedTAISliceSupportList,

id-ExtendedUEIdentityIndexValue,

id-EUTRA-PagingeDRXInformation,

id-GlobalCable-ID,

id-GlobalRANNodeID,

id-GlobalTNGF-ID,

id-GlobalTWIF-ID,

id-GlobalW-AGF-ID,

id-GUAMIType,

id-IncludeBeamMeasurementsIndication,

id-IntersystemSONInformationRequest,

id-IntersystemSONInformationResponse,

id-IntersystemResourceStatusUpdate,

id-LastEUTRAN-PLMNIdentity,

id-LastVisitedPSCellList,

id-LocationReportingAdditionalInfo,

id-M4ReportAmount,

id-M5ReportAmount,

id-M6ReportAmount,

id-M6DelayThreshold,

id-M7ReportAmount,

id-MaximumIntegrityProtectedDataRate-DL,

id-MBS-AreaSessionID,

id-MBS-QoSFlows-ToBeSetupList,

id-MBS-QoSFlows-ToBeSetupModList,

id-MBS-ServiceArea,

id-MBS-SessionID,

id-MBS-SessionInformation-SourcetoTargetList,

id-MBS-SessionInformation-TargettoSourceList,

id-MBS-SupportIndicator,

id-MBSSessionInformationFailedtoSetupList,

id-MBSSessionInformationFailedtoSetuporModifyList,

id-MBSSessionInformationSetupList,

id-MBSSessionInformationSetuporModifyList,

id-MBSSessionInformationToBeRemoveList,

id-MBSSessionInformationToBeSetupList,

id-MBSSessionInformationToBeSetuporModifyList,

id-MBSSessionStatus,

id-MDTConfiguration,

id-MicoAllPLMN,

id-NetworkInstance,

id-NGAPIESupportInformationRequestList,

id-NGAPIESupportInformationResponseList,

id-NID,

id-NRNTNTAIInformation,

id-NPN-MobilityInformation,

id-NPN-PagingAssistanceInformation,

id-NPN-Support,

id-NR-PagingeDRXInformation,

id-OldAssociatedQosFlowList-ULendmarkerexpected,

id-OnboardingSupport,

id-PagingAssisDataforCEcapabUE,

id-PagingCauseIndicationForVoiceService,

id-PDUSessionAggregateMaximumBitRate,

id-PduSessionExpectedUEActivityBehaviour,

id-PDUSessionPairID,

id-PDUSessionResourceFailedToSetupListCxtFail,

id-PDUSessionResourceReleaseResponseTransfer,

id-PDUSessionType,

id-PEIPSassistanceInformation,

id-PSCellInformation,

id-QMCConfigInfo,

id-QosFlowAddOrModifyRequestList,

id-QosFlowFailedToSetupList,

id-QosFlowFeedbackList,

id-QosFlowParametersList,

id-QosFlowSetupRequestList,

id-QosFlowToReleaseList,

id-QosMonitoringRequest,

id-QosMonitoringReportingFrequency,

id-SuccessfulHandoverReportList,

id-UEContextReferenceAtSource,

id-RAT-Information,

id-RedundantCommonNetworkInstance,

id-RedundantDL-NGU-TNLInformationReused,

id-RedundantDL-NGU-UP-TNLInformation,

id-RedundantDLQosFlowPerTNLInformation,

id-RedundantPDUSessionInformation,

id-RedundantQosFlowIndicator,

id-RedundantUL-NGU-UP-TNLInformation,

id-SCTP-TLAs,

id-SecondaryRATUsageInformation,

id-SecurityIndication,

id-SecurityResult,

id-SharedNG-U-Multicast-TNL-Information,

id-SharedNG-U-Unicast-TNL-Information,

id-SgNB-UE-X2AP-ID,

id-S-NSSAI,

id-SONInformationReport,

id-SourceNodeID,

id-SourceTNLAddrInfo,

id-SurvivalTime,

id-TNLAssociationTransportLayerAddressNGRAN,

id-TargetRNC-ID,

id-TraceCollectionEntityURI,

id-TSCTrafficCharacteristics,

id-UEHistoryInformationFromTheUE,

id-UERadioCapabilityForPaging,

id-UERadioCapabilityForPagingOfNB-IoT,

id-UL-NGU-UP-TNLInformation,

id-UL-NGU-UP-TNLModifyList,

id-ULForwarding,

id-ULForwardingUP-TNLInformation,

id-UsedRSNInformation,

id-UserLocationInformationTNGF,

id-UserLocationInformationTWIF,

id-UserLocationInformationW-AGF,

maxnoofAllowedAreas,

maxnoofAllowedCAGsperPLMN,

maxnoofAllowedS-NSSAIs,

maxnoofBluetoothName,

maxnoofBPLMNs,

maxnoofCAGSperCell,

maxnoofCandidateCells,

maxnoofCellIDforMDT,

maxnoofCellIDforQMC,

maxnoofCellIDforWarning,

maxnoofCellinAoI,

maxnoofCellinEAI,

maxnoofCellsforMBS,

maxnoofCellsingNB,

maxnoofCellsinngeNB,

maxnoofCellsinNGRANNode,

maxnoofCellinTAI,

maxnoofCellsinUEHistoryInfo,

maxnoofCellsUEMovingTrajectory,

maxnoofDRBs,

maxnoofEmergencyAreaID,

maxnoofEAIforRestart,

maxnoofEPLMNs,

maxnoofEPLMNsPlusOne,

maxnoofE-RABs,

maxnoofErrors,

maxnoofExtSliceItems,

maxnoofForbTACs,

maxnoofFreqforMDT,

maxnoofMBSQoSFlows,

maxnoofMBSServiceAreaInformation,

maxnoofMBSAreaSessionIDs,

maxnoofMBSSessions,

maxnoofMBSSessionsofUE,

maxnoofMDTPLMNs,

maxnoofMRBs,

maxnoofMultiConnectivity,

maxnoofMultiConnectivityMinusOne,

maxnoofNeighPCIforMDT,

maxnoofNGAPIESupportInfo,

maxnoofNGConnectionsToReset,

maxNRARFCN,

maxnoofNRCellBands,

maxnoofPagingAreas,

maxnoofPC5QoSFlows,

maxnoofPDUSessions,

maxnoofPLMNs,

maxnoofPLMNforQMC,

maxnoofQosFlows,

maxnoofQosParaSets,

maxnoofRANNodeinAoI,

maxnoofRecommendedCells,

maxnoofRecommendedRANNodes,

maxnoofAoI,

maxnoofPSCellsPerPrimaryCellinUEHistoryInfo,

maxnoofReportedCells,

maxnoofSensorName,

maxnoofServedGUAMIs,

maxnoofSliceItems,

maxnoofSNSSAIforQMC,

maxnoofSuccessfulHOReports,

maxnoofTACs,

maxnoofTACsinNTN,

maxnoofTAforMDT,

maxnoofTAforQMC,

maxnoofTAIforInactive,

maxnoofTAIforMBS,

maxnoofTAIforPaging,

maxnoofTAIforRestart,

maxnoofTAIforWarning,

maxnoofTAIinAoI,

maxnoofTargetS-NSSAIs,

maxnoofTimePeriods,

maxnoofTNLAssociations,

maxnoofUEAppLayerMeas,

maxnoofUEsforPaging,

maxnoofWLANName,

maxnoofXnExtTLAs,

maxnoofXnGTP-TLAs,

maxnoofXnTLAs

FROM NGAP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

FROM NGAP-CommonDataTypes

ProtocolExtensionContainer{},

ProtocolIE-Container{},

NGAP-PROTOCOL-EXTENSION,

ProtocolIE-SingleContainer{},

NGAP-PROTOCOL-IES

FROM NGAP-Containers;

-- A

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

NGAPIESupportInformationRequestList ::= SEQUENCE (SIZE(1.. maxnoofNGAPIESupportInfo)) OF NGAPIESupportInformationRequestItem

NGAPIESupportInformationRequestItem ::= SEQUENCE {

ngap-IE-Id ProtocolIE-ID,

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

...

}

NGAPIESupportInformationRequestItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

NGAPIESupportInformationResponseList ::= SEQUENCE (SIZE(1.. maxnoofNGAPIESupportInfo)) OF NGAPIESupportInformationResponseItem

NGAPIESupportInformationResponseItem ::= SEQUENCE {

ngap-IE-Id ProtocolIE-ID,

ngap-ProtocolIESupportInfo ENUMERATED {supported, not-supported, ...},

ngap-ProtocolIEPresenceInfo ENUMERATED {present, not-present, ...},

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

...

}

NGAPIESupportInformationResponseItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

SourceNGRANNode-ToTargetNGRANNode-TransparentContainer ::= SEQUENCE {

rRCContainer RRCContainer,

pDUSessionResourceInformationList PDUSessionResourceInformationList OPTIONAL,

e-RABInformationList E-RABInformationList OPTIONAL,

targetCell-ID NGRAN-CGI,

indexToRFSP IndexToRFSP OPTIONAL,

uEHistoryInformation UEHistoryInformation,

iE-Extensions ProtocolExtensionContainer { {SourceNGRANNode-ToTargetNGRANNode-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

SourceNGRANNode-ToTargetNGRANNode-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-SgNB-UE-X2AP-ID CRITICALITY ignore EXTENSION SgNB-UE-X2AP-ID PRESENCE optional }|

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

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

{ ID id-UEContextReferenceAtSource CRITICALITY ignore EXTENSION RAN-UE-NGAP-ID PRESENCE optional }|

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

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

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

...

}

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

TargetNGRANNode-ToSourceNGRANNode-TransparentContainer ::= SEQUENCE {

rRCContainer RRCContainer,

iE-Extensions ProtocolExtensionContainer { {TargetNGRANNode-ToSourceNGRANNode-TransparentContainer-ExtIEs} } OPTIONAL,

...

}

TargetNGRANNode-ToSourceNGRANNode-TransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

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

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

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

{ ID id- id-NGAPIESupportInformationResponseList CRITICALITY ignore EXTENSION NGAPIESupportInformationResponseList PRESENCEoptional },

...

}

TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer ::= SEQUENCE {

cell-CAGInformation Cell-CAGInformation OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer-ExtIEs} } OPTIONAL,

...

}

TargetNGRANNode-ToSourceNGRANNode-FailureTransparentContainer-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id- id-NGAPIESupportInformationResponseList CRITICALITY ignore EXTENSION NGAPIESupportInformationResponseList PRESENCEoptional }, ...

}

<<<<<<<<<<<<<<<<<<<< Last Change >>>>>>>>>>>>>>>>>>>>

### 9.4.7 Constant Definitions

-- ASN1START

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

--

-- Constant definitions

--

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

NGAP-Constants {

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

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM NGAP-CommonDataTypes;

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

--

-- Elementary Procedures

--

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

id-AMFConfigurationUpdate ProcedureCode ::= 0

id-AMFStatusIndication ProcedureCode ::= 1

id-CellTrafficTrace ProcedureCode ::= 2

id-DeactivateTrace ProcedureCode ::= 3

id-DownlinkNASTransport ProcedureCode ::= 4

id-DownlinkNonUEAssociatedNRPPaTransport ProcedureCode ::= 5

id-DownlinkRANConfigurationTransfer ProcedureCode ::= 6

id-DownlinkRANStatusTransfer ProcedureCode ::= 7

id-DownlinkUEAssociatedNRPPaTransport ProcedureCode ::= 8

id-ErrorIndication ProcedureCode ::= 9

id-HandoverCancel ProcedureCode ::= 10

id-HandoverNotification ProcedureCode ::= 11

id-HandoverPreparation ProcedureCode ::= 12

id-HandoverResourceAllocation ProcedureCode ::= 13

id-InitialContextSetup ProcedureCode ::= 14

id-InitialUEMessage ProcedureCode ::= 15

id-LocationReportingControl ProcedureCode ::= 16

id-LocationReportingFailureIndication ProcedureCode ::= 17

id-LocationReport ProcedureCode ::= 18

id-NASNonDeliveryIndication ProcedureCode ::= 19

id-NGReset ProcedureCode ::= 20

id-NGSetup ProcedureCode ::= 21

id-OverloadStart ProcedureCode ::= 22

id-OverloadStop ProcedureCode ::= 23

id-Paging ProcedureCode ::= 24

id-PathSwitchRequest ProcedureCode ::= 25

id-PDUSessionResourceModify ProcedureCode ::= 26

id-PDUSessionResourceModifyIndication ProcedureCode ::= 27

id-PDUSessionResourceRelease ProcedureCode ::= 28

id-PDUSessionResourceSetup ProcedureCode ::= 29

id-PDUSessionResourceNotify ProcedureCode ::= 30

id-PrivateMessage ProcedureCode ::= 31

id-PWSCancel ProcedureCode ::= 32

id-PWSFailureIndication ProcedureCode ::= 33

id-PWSRestartIndication ProcedureCode ::= 34

id-RANConfigurationUpdate ProcedureCode ::= 35

id-RerouteNASRequest ProcedureCode ::= 36

id-RRCInactiveTransitionReport ProcedureCode ::= 37

id-TraceFailureIndication ProcedureCode ::= 38

id-TraceStart ProcedureCode ::= 39

id-UEContextModification ProcedureCode ::= 40

id-UEContextRelease ProcedureCode ::= 41

id-UEContextReleaseRequest ProcedureCode ::= 42

id-UERadioCapabilityCheck ProcedureCode ::= 43

id-UERadioCapabilityInfoIndication ProcedureCode ::= 44

id-UETNLABindingRelease ProcedureCode ::= 45

id-UplinkNASTransport ProcedureCode ::= 46

id-UplinkNonUEAssociatedNRPPaTransport ProcedureCode ::= 47

id-UplinkRANConfigurationTransfer ProcedureCode ::= 48

id-UplinkRANStatusTransfer ProcedureCode ::= 49

id-UplinkUEAssociatedNRPPaTransport ProcedureCode ::= 50

id-WriteReplaceWarning ProcedureCode ::= 51

id-SecondaryRATDataUsageReport ProcedureCode ::= 52

id-UplinkRIMInformationTransfer ProcedureCode ::= 53

id-DownlinkRIMInformationTransfer ProcedureCode ::= 54

id-RetrieveUEInformation ProcedureCode ::= 55

id-UEInformationTransfer ProcedureCode ::= 56

id-RANCPRelocationIndication ProcedureCode ::= 57

id-UEContextResume ProcedureCode ::= 58

id-UEContextSuspend ProcedureCode ::= 59

id-UERadioCapabilityIDMapping ProcedureCode ::= 60

id-HandoverSuccess ProcedureCode ::= 61

id-UplinkRANEarlyStatusTransfer ProcedureCode ::= 62

id-DownlinkRANEarlyStatusTransfer ProcedureCode ::= 63

id-AMFCPRelocationIndication ProcedureCode ::= 64

id-ConnectionEstablishmentIndication ProcedureCode ::= 65

id-BroadcastSessionModification ProcedureCode ::= 66

id-BroadcastSessionRelease ProcedureCode ::= 67

id-BroadcastSessionSetup ProcedureCode ::= 68

id-DistributionSetup ProcedureCode ::= 69

id-DistributionRelease ProcedureCode ::= 70

id-MulticastSessionActivation ProcedureCode ::= 71

id-MulticastSessionDeactivation ProcedureCode ::= 72

id-MulticastSessionUpdate ProcedureCode ::= 73

id-MulticastGroupPaging ProcedureCode ::= 74

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

--

-- Extension constants

--

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

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

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

--

-- Lists

--

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

maxnoofAllowedAreas INTEGER ::= 16

maxnoofAllowedCAGsperPLMN INTEGER ::= 256

maxnoofAllowedS-NSSAIs INTEGER ::= 8

maxnoofBluetoothName INTEGER ::= 4

maxnoofBPLMNs INTEGER ::= 12

maxnoofCAGSperCell INTEGER ::= 64

maxnoofCellIDforMDT INTEGER ::= 32

maxnoofCellIDforWarning INTEGER ::= 65535

maxnoofCellinAoI INTEGER ::= 256

maxnoofCellinEAI INTEGER ::= 65535

maxnoofCellinTAI INTEGER ::= 65535

maxnoofCellsforMBS INTEGER ::= 8192

maxnoofCellsingNB INTEGER ::= 16384

maxnoofCellsinngeNB INTEGER ::= 256

maxnoofCellsinNGRANNode INTEGER ::= 16384

maxnoofCellsinUEHistoryInfo INTEGER ::= 16

maxnoofCellsUEMovingTrajectory INTEGER ::= 16

maxnoofDRBs INTEGER ::= 32

maxnoofEmergencyAreaID INTEGER ::= 65535

maxnoofEAIforRestart INTEGER ::= 256

maxnoofEPLMNs INTEGER ::= 15

maxnoofEPLMNsPlusOne INTEGER ::= 16

maxnoofE-RABs INTEGER ::= 256

maxnoofErrors INTEGER ::= 256

maxnoofExtSliceItems INTEGER ::= 65535

maxnoofForbTACs INTEGER ::= 4096

maxnoofFreqforMDT INTEGER ::= 8

maxnoofMBSAreaSessionIDs INTEGER ::= 256 -- FFS

maxnoofMBSQoSFlows INTEGER ::= 64

maxnoofMBSSessions INTEGER ::= 32

maxnoofMBSSessionsofUE INTEGER ::= 8192

maxnoofMBSServiceAreaInformation INTEGER ::= 256 -- FFS

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofMRBs INTEGER ::= 32

maxnoofMultiConnectivity INTEGER ::= 4

maxnoofMultiConnectivityMinusOne INTEGER ::= 3

maxnoofNeighPCIforMDT INTEGER ::= 32

maxnoofNGAPIESupportInfo INTEGER ::= 32

maxnoofNGConnectionsToReset INTEGER ::= 65536

maxnoofNRCellBands INTEGER ::= 32

maxnoofPagingAreas INTEGER ::= 64

maxnoofPC5QoSFlows INTEGER ::= 2048

maxnoofPDUSessions INTEGER ::= 256

maxnoofPLMNs INTEGER ::= 12

maxnoofPSCellsPerPrimaryCellinUEHistoryInfo INTEGER ::= 8

maxnoofQosFlows INTEGER ::= 64

maxnoofQosParaSets INTEGER ::= 8

maxnoofRANNodeinAoI INTEGER ::= 64

maxnoofRecommendedCells INTEGER ::= 16

maxnoofRecommendedRANNodes INTEGER ::= 16

maxnoofAoI INTEGER ::= 64

maxnoofReportedCells INTEGER ::= 256

maxnoofSensorName INTEGER ::= 3

maxnoofServedGUAMIs INTEGER ::= 256

maxnoofSliceItems INTEGER ::= 1024

maxnoofSuccessfulHOReports INTEGER ::= 64

maxnoofTACs INTEGER ::= 256

maxnoofTACsinNTN INTEGER ::= 12

maxnoofTAforMDT INTEGER ::= 8

maxnoofTAIforInactive INTEGER ::= 16

maxnoofTAIforMBS INTEGER ::= 1024

maxnoofTAIforPaging INTEGER ::= 16

maxnoofTAIforRestart INTEGER ::= 2048

maxnoofTAIforWarning INTEGER ::= 65535

maxnoofTAIinAoI INTEGER ::= 16

maxnoofTimePeriods INTEGER ::= 2

maxnoofTNLAssociations INTEGER ::= 32

maxnoofUEsforPaging INTEGER ::= 4096

maxnoofWLANName INTEGER ::= 4

maxnoofXnExtTLAs INTEGER ::= 16

maxnoofXnGTP-TLAs INTEGER ::= 16

maxnoofXnTLAs INTEGER ::= 2

maxnoofCandidateCells INTEGER ::= 32

maxnoofTargetS-NSSAIs INTEGER ::= 8

maxNRARFCN INTEGER ::= 3279165

maxnoofCellIDforQMC INTEGER ::= 32

maxnoofPLMNforQMC INTEGER ::= 16

maxnoofUEAppLayerMeas INTEGER ::= 16

maxnoofSNSSAIforQMC INTEGER ::= 16

maxnoofTAforQMC INTEGER ::= 8

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

--

-- IEs

--

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

id-AllowedNSSAI ProtocolIE-ID ::= 0

id-AMFName ProtocolIE-ID ::= 1

id-AMFOverloadResponse ProtocolIE-ID ::= 2

id-AMFSetID ProtocolIE-ID ::= 3

id-AMF-TNLAssociationFailedToSetupList ProtocolIE-ID ::= 4

id-AMF-TNLAssociationSetupList ProtocolIE-ID ::= 5

id-AMF-TNLAssociationToAddList ProtocolIE-ID ::= 6

id-AMF-TNLAssociationToRemoveList ProtocolIE-ID ::= 7

id-AMF-TNLAssociationToUpdateList ProtocolIE-ID ::= 8

id-AMFTrafficLoadReductionIndication ProtocolIE-ID ::= 9

id-AMF-UE-NGAP-ID ProtocolIE-ID ::= 10

id-AssistanceDataForPaging ProtocolIE-ID ::= 11

id-BroadcastCancelledAreaList ProtocolIE-ID ::= 12

id-BroadcastCompletedAreaList ProtocolIE-ID ::= 13

id-CancelAllWarningMessages ProtocolIE-ID ::= 14

id-Cause ProtocolIE-ID ::= 15

id-CellIDListForRestart ProtocolIE-ID ::= 16

id-ConcurrentWarningMessageInd ProtocolIE-ID ::= 17

id-CoreNetworkAssistanceInformationForInactive ProtocolIE-ID ::= 18

id-CriticalityDiagnostics ProtocolIE-ID ::= 19

id-DataCodingScheme ProtocolIE-ID ::= 20

id-DefaultPagingDRX ProtocolIE-ID ::= 21

id-DirectForwardingPathAvailability ProtocolIE-ID ::= 22

id-EmergencyAreaIDListForRestart ProtocolIE-ID ::= 23

id-EmergencyFallbackIndicator ProtocolIE-ID ::= 24

id-EUTRA-CGI ProtocolIE-ID ::= 25

id-FiveG-S-TMSI ProtocolIE-ID ::= 26

id-GlobalRANNodeID ProtocolIE-ID ::= 27

id-GUAMI ProtocolIE-ID ::= 28

id-HandoverType ProtocolIE-ID ::= 29

id-IMSVoiceSupportIndicator ProtocolIE-ID ::= 30

id-IndexToRFSP ProtocolIE-ID ::= 31

id-InfoOnRecommendedCellsAndRANNodesForPaging ProtocolIE-ID ::= 32

id-LocationReportingRequestType ProtocolIE-ID ::= 33

id-MaskedIMEISV ProtocolIE-ID ::= 34

id-MessageIdentifier ProtocolIE-ID ::= 35

id-MobilityRestrictionList ProtocolIE-ID ::= 36

id-NASC ProtocolIE-ID ::= 37

id-NAS-PDU ProtocolIE-ID ::= 38

id-NASSecurityParametersFromNGRAN ProtocolIE-ID ::= 39

id-NewAMF-UE-NGAP-ID ProtocolIE-ID ::= 40

id-NewSecurityContextInd ProtocolIE-ID ::= 41

id-NGAP-Message ProtocolIE-ID ::= 42

id-NGRAN-CGI ProtocolIE-ID ::= 43

id-NGRANTraceID ProtocolIE-ID ::= 44

id-NR-CGI ProtocolIE-ID ::= 45

id-NRPPa-PDU ProtocolIE-ID ::= 46

id-NumberOfBroadcastsRequested ProtocolIE-ID ::= 47

id-OldAMF ProtocolIE-ID ::= 48

id-OverloadStartNSSAIList ProtocolIE-ID ::= 49

id-PagingDRX ProtocolIE-ID ::= 50

id-PagingOrigin ProtocolIE-ID ::= 51

id-PagingPriority ProtocolIE-ID ::= 52

id-PDUSessionResourceAdmittedList ProtocolIE-ID ::= 53

id-PDUSessionResourceFailedToModifyListModRes ProtocolIE-ID ::= 54

id-PDUSessionResourceFailedToSetupListCxtRes ProtocolIE-ID ::= 55

id-PDUSessionResourceFailedToSetupListHOAck ProtocolIE-ID ::= 56

id-PDUSessionResourceFailedToSetupListPSReq ProtocolIE-ID ::= 57

id-PDUSessionResourceFailedToSetupListSURes ProtocolIE-ID ::= 58

id-PDUSessionResourceHandoverList ProtocolIE-ID ::= 59

id-PDUSessionResourceListCxtRelCpl ProtocolIE-ID ::= 60

id-PDUSessionResourceListHORqd ProtocolIE-ID ::= 61

id-PDUSessionResourceModifyListModCfm ProtocolIE-ID ::= 62

id-PDUSessionResourceModifyListModInd ProtocolIE-ID ::= 63

id-PDUSessionResourceModifyListModReq ProtocolIE-ID ::= 64

id-PDUSessionResourceModifyListModRes ProtocolIE-ID ::= 65

id-PDUSessionResourceNotifyList ProtocolIE-ID ::= 66

id-PDUSessionResourceReleasedListNot ProtocolIE-ID ::= 67

id-PDUSessionResourceReleasedListPSAck ProtocolIE-ID ::= 68

id-PDUSessionResourceReleasedListPSFail ProtocolIE-ID ::= 69

id-PDUSessionResourceReleasedListRelRes ProtocolIE-ID ::= 70

id-PDUSessionResourceSetupListCxtReq ProtocolIE-ID ::= 71

id-PDUSessionResourceSetupListCxtRes ProtocolIE-ID ::= 72

id-PDUSessionResourceSetupListHOReq ProtocolIE-ID ::= 73

id-PDUSessionResourceSetupListSUReq ProtocolIE-ID ::= 74

id-PDUSessionResourceSetupListSURes ProtocolIE-ID ::= 75

id-PDUSessionResourceToBeSwitchedDLList ProtocolIE-ID ::= 76

id-PDUSessionResourceSwitchedList ProtocolIE-ID ::= 77

id-PDUSessionResourceToReleaseListHOCmd ProtocolIE-ID ::= 78

id-PDUSessionResourceToReleaseListRelCmd ProtocolIE-ID ::= 79

id-PLMNSupportList ProtocolIE-ID ::= 80

id-PWSFailedCellIDList ProtocolIE-ID ::= 81

id-RANNodeName ProtocolIE-ID ::= 82

id-RANPagingPriority ProtocolIE-ID ::= 83

id-RANStatusTransfer-TransparentContainer ProtocolIE-ID ::= 84

id-RAN-UE-NGAP-ID ProtocolIE-ID ::= 85

id-RelativeAMFCapacity ProtocolIE-ID ::= 86

id-RepetitionPeriod ProtocolIE-ID ::= 87

id-ResetType ProtocolIE-ID ::= 88

id-RoutingID ProtocolIE-ID ::= 89

id-RRCEstablishmentCause ProtocolIE-ID ::= 90

id-RRCInactiveTransitionReportRequest ProtocolIE-ID ::= 91

id-RRCState ProtocolIE-ID ::= 92

id-SecurityContext ProtocolIE-ID ::= 93

id-SecurityKey ProtocolIE-ID ::= 94

id-SerialNumber ProtocolIE-ID ::= 95

id-ServedGUAMIList ProtocolIE-ID ::= 96

id-SliceSupportList ProtocolIE-ID ::= 97

id-SONConfigurationTransferDL ProtocolIE-ID ::= 98

id-SONConfigurationTransferUL ProtocolIE-ID ::= 99

id-SourceAMF-UE-NGAP-ID ProtocolIE-ID ::= 100

id-SourceToTarget-TransparentContainer ProtocolIE-ID ::= 101

id-SupportedTAList ProtocolIE-ID ::= 102

id-TAIListForPaging ProtocolIE-ID ::= 103

id-TAIListForRestart ProtocolIE-ID ::= 104

id-TargetID ProtocolIE-ID ::= 105

id-TargetToSource-TransparentContainer ProtocolIE-ID ::= 106

id-TimeToWait ProtocolIE-ID ::= 107

id-TraceActivation ProtocolIE-ID ::= 108

id-TraceCollectionEntityIPAddress ProtocolIE-ID ::= 109

id-UEAggregateMaximumBitRate ProtocolIE-ID ::= 110

id-UE-associatedLogicalNG-connectionList ProtocolIE-ID ::= 111

id-UEContextRequest ProtocolIE-ID ::= 112

id-UE-NGAP-IDs ProtocolIE-ID ::= 114

id-UEPagingIdentity ProtocolIE-ID ::= 115

id-UEPresenceInAreaOfInterestList ProtocolIE-ID ::= 116

id-UERadioCapability ProtocolIE-ID ::= 117

id-UERadioCapabilityForPaging ProtocolIE-ID ::= 118

id-UESecurityCapabilities ProtocolIE-ID ::= 119

id-UnavailableGUAMIList ProtocolIE-ID ::= 120

id-UserLocationInformation ProtocolIE-ID ::= 121

id-WarningAreaList ProtocolIE-ID ::= 122

id-WarningMessageContents ProtocolIE-ID ::= 123

id-WarningSecurityInfo ProtocolIE-ID ::= 124

id-WarningType ProtocolIE-ID ::= 125

id-AdditionalUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 126

id-DataForwardingNotPossible ProtocolIE-ID ::= 127

id-DL-NGU-UP-TNLInformation ProtocolIE-ID ::= 128

id-NetworkInstance ProtocolIE-ID ::= 129

id-PDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 130

id-PDUSessionResourceFailedToModifyListModCfm ProtocolIE-ID ::= 131

id-PDUSessionResourceFailedToSetupListCxtFail ProtocolIE-ID ::= 132

id-PDUSessionResourceListCxtRelReq ProtocolIE-ID ::= 133

id-PDUSessionType ProtocolIE-ID ::= 134

id-QosFlowAddOrModifyRequestList ProtocolIE-ID ::= 135

id-QosFlowSetupRequestList ProtocolIE-ID ::= 136

id-QosFlowToReleaseList ProtocolIE-ID ::= 137

id-SecurityIndication ProtocolIE-ID ::= 138

id-UL-NGU-UP-TNLInformation ProtocolIE-ID ::= 139

id-UL-NGU-UP-TNLModifyList ProtocolIE-ID ::= 140

id-WarningAreaCoordinates ProtocolIE-ID ::= 141

id-PDUSessionResourceSecondaryRATUsageList ProtocolIE-ID ::= 142

id-HandoverFlag ProtocolIE-ID ::= 143

id-SecondaryRATUsageInformation ProtocolIE-ID ::= 144

id-PDUSessionResourceReleaseResponseTransfer ProtocolIE-ID ::= 145

id-RedirectionVoiceFallback ProtocolIE-ID ::= 146

id-UERetentionInformation ProtocolIE-ID ::= 147

id-S-NSSAI ProtocolIE-ID ::= 148

id-PSCellInformation ProtocolIE-ID ::= 149

id-LastEUTRAN-PLMNIdentity ProtocolIE-ID ::= 150

id-MaximumIntegrityProtectedDataRate-DL ProtocolIE-ID ::= 151

id-AdditionalDLForwardingUPTNLInformation ProtocolIE-ID ::= 152

id-AdditionalDLUPTNLInformationForHOList ProtocolIE-ID ::= 153

id-AdditionalNGU-UP-TNLInformation ProtocolIE-ID ::= 154

id-AdditionalDLQosFlowPerTNLInformation ProtocolIE-ID ::= 155

id-SecurityResult ProtocolIE-ID ::= 156

id-ENDC-SONConfigurationTransferDL ProtocolIE-ID ::= 157

id-ENDC-SONConfigurationTransferUL ProtocolIE-ID ::= 158

id-OldAssociatedQosFlowList-ULendmarkerexpected ProtocolIE-ID ::= 159

id-CNTypeRestrictionsForEquivalent ProtocolIE-ID ::= 160

id-CNTypeRestrictionsForServing ProtocolIE-ID ::= 161

id-NewGUAMI ProtocolIE-ID ::= 162

id-ULForwarding ProtocolIE-ID ::= 163

id-ULForwardingUP-TNLInformation ProtocolIE-ID ::= 164

id-CNAssistedRANTuning ProtocolIE-ID ::= 165

id-CommonNetworkInstance ProtocolIE-ID ::= 166

id-NGRAN-TNLAssociationToRemoveList ProtocolIE-ID ::= 167

id-TNLAssociationTransportLayerAddressNGRAN ProtocolIE-ID ::= 168

id-EndpointIPAddressAndPort ProtocolIE-ID ::= 169

id-LocationReportingAdditionalInfo ProtocolIE-ID ::= 170

id-SourceToTarget-AMFInformationReroute ProtocolIE-ID ::= 171

id-AdditionalULForwardingUPTNLInformation ProtocolIE-ID ::= 172

id-SCTP-TLAs ProtocolIE-ID ::= 173

id-SelectedPLMNIdentity ProtocolIE-ID ::= 174

id-RIMInformationTransfer ProtocolIE-ID ::= 175

id-GUAMIType ProtocolIE-ID ::= 176

id-SRVCCOperationPossible ProtocolIE-ID ::= 177

id-TargetRNC-ID ProtocolIE-ID ::= 178

id-RAT-Information ProtocolIE-ID ::= 179

id-ExtendedRATRestrictionInformation ProtocolIE-ID ::= 180

id-QosMonitoringRequest ProtocolIE-ID ::= 181

id-SgNB-UE-X2AP-ID ProtocolIE-ID ::= 182

id-AdditionalRedundantDL-NGU-UP-TNLInformation ProtocolIE-ID ::= 183

id-AdditionalRedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 184

id-AdditionalRedundantNGU-UP-TNLInformation ProtocolIE-ID ::= 185

id-AdditionalRedundantUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 186

id-CNPacketDelayBudgetDL ProtocolIE-ID ::= 187

id-CNPacketDelayBudgetUL ProtocolIE-ID ::= 188

id-ExtendedPacketDelayBudget ProtocolIE-ID ::= 189

id-RedundantCommonNetworkInstance ProtocolIE-ID ::= 190

id-RedundantDL-NGU-TNLInformationReused ProtocolIE-ID ::= 191

id-RedundantDL-NGU-UP-TNLInformation ProtocolIE-ID ::= 192

id-RedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 193

id-RedundantQosFlowIndicator ProtocolIE-ID ::= 194

id-RedundantUL-NGU-UP-TNLInformation ProtocolIE-ID ::= 195

id-TSCTrafficCharacteristics ProtocolIE-ID ::= 196

id-RedundantPDUSessionInformation ProtocolIE-ID ::= 197

id-UsedRSNInformation ProtocolIE-ID ::= 198

id-IAB-Authorized ProtocolIE-ID ::= 199

id-IAB-Supported ProtocolIE-ID ::= 200

id-IABNodeIndication ProtocolIE-ID ::= 201

id-NB-IoT-PagingDRX ProtocolIE-ID ::= 202

id-NB-IoT-Paging-eDRXInfo ProtocolIE-ID ::= 203

id-NB-IoT-DefaultPagingDRX ProtocolIE-ID ::= 204

id-Enhanced-CoverageRestriction ProtocolIE-ID ::= 205

id-Extended-ConnectedTime ProtocolIE-ID ::= 206

id-PagingAssisDataforCEcapabUE ProtocolIE-ID ::= 207

id-WUS-Assistance-Information ProtocolIE-ID ::= 208

id-UE-DifferentiationInfo ProtocolIE-ID ::= 209

id-NB-IoT-UEPriority ProtocolIE-ID ::= 210

id-UL-CP-SecurityInformation ProtocolIE-ID ::= 211

id-DL-CP-SecurityInformation ProtocolIE-ID ::= 212

id-TAI ProtocolIE-ID ::= 213

id-UERadioCapabilityForPagingOfNB-IoT ProtocolIE-ID ::= 214

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 215

id-NRV2XServicesAuthorized ProtocolIE-ID ::= 216

id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 217

id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 218

id-PC5QoSParameters ProtocolIE-ID ::= 219

id-AlternativeQoSParaSetList ProtocolIE-ID ::= 220

id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 221

id-CEmodeBrestricted ProtocolIE-ID ::= 222

id-EUTRA-PagingeDRXInformation ProtocolIE-ID ::= 223

id-CEmodeBSupport-Indicator ProtocolIE-ID ::= 224

id-LTEM-Indication ProtocolIE-ID ::= 225

id-EndIndication ProtocolIE-ID ::= 226

id-EDT-Session ProtocolIE-ID ::= 227

id-UECapabilityInfoRequest ProtocolIE-ID ::= 228

id-PDUSessionResourceFailedToResumeListRESReq ProtocolIE-ID ::= 229

id-PDUSessionResourceFailedToResumeListRESRes ProtocolIE-ID ::= 230

id-PDUSessionResourceSuspendListSUSReq ProtocolIE-ID ::= 231

id-PDUSessionResourceResumeListRESReq ProtocolIE-ID ::= 232

id-PDUSessionResourceResumeListRESRes ProtocolIE-ID ::= 233

id-UE-UP-CIoT-Support ProtocolIE-ID ::= 234

id-Suspend-Request-Indication ProtocolIE-ID ::= 235

id-Suspend-Response-Indication ProtocolIE-ID ::= 236

id-RRC-Resume-Cause ProtocolIE-ID ::= 237

id-RGLevelWirelineAccessCharacteristics ProtocolIE-ID ::= 238

id-W-AGFIdentityInformation ProtocolIE-ID ::= 239

id-GlobalTNGF-ID ProtocolIE-ID ::= 240

id-GlobalTWIF-ID ProtocolIE-ID ::= 241

id-GlobalW-AGF-ID ProtocolIE-ID ::= 242

id-UserLocationInformationW-AGF ProtocolIE-ID ::= 243

id-UserLocationInformationTNGF ProtocolIE-ID ::= 244

id-AuthenticatedIndication ProtocolIE-ID ::= 245

id-TNGFIdentityInformation ProtocolIE-ID ::= 246

id-TWIFIdentityInformation ProtocolIE-ID ::= 247

id-UserLocationInformationTWIF ProtocolIE-ID ::= 248

id-DataForwardingResponseERABList ProtocolIE-ID ::= 249

id-IntersystemSONConfigurationTransferDL ProtocolIE-ID ::= 250

id-IntersystemSONConfigurationTransferUL ProtocolIE-ID ::= 251

id-SONInformationReport ProtocolIE-ID ::= 252

id-UEHistoryInformationFromTheUE ProtocolIE-ID ::= 253

id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 254

id-MDTConfiguration ProtocolIE-ID ::= 255

id-PrivacyIndicator ProtocolIE-ID ::= 256

id-TraceCollectionEntityURI ProtocolIE-ID ::= 257

id-NPN-Support ProtocolIE-ID ::= 258

id-NPN-AccessInformation ProtocolIE-ID ::= 259

id-NPN-PagingAssistanceInformation ProtocolIE-ID ::= 260

id-NPN-MobilityInformation ProtocolIE-ID ::= 261

id-TargettoSource-Failure-TransparentContainer ProtocolIE-ID ::= 262

id-NID ProtocolIE-ID ::= 263

id-UERadioCapabilityID ProtocolIE-ID ::= 264

id-UERadioCapability-EUTRA-Format ProtocolIE-ID ::= 265

id-DAPSRequestInfo ProtocolIE-ID ::= 266

id-DAPSResponseInfoList ProtocolIE-ID ::= 267

id-EarlyStatusTransfer-TransparentContainer ProtocolIE-ID ::= 268

id-NotifySourceNGRANNode ProtocolIE-ID ::= 269

id-ExtendedSliceSupportList ProtocolIE-ID ::= 270

id-ExtendedTAISliceSupportList ProtocolIE-ID ::= 271

id-ConfiguredTACIndication ProtocolIE-ID ::= 272

id-Extended-RANNodeName ProtocolIE-ID ::= 273

id-Extended-AMFName ProtocolIE-ID ::= 274

id-GlobalCable-ID ProtocolIE-ID ::= 275

id-QosMonitoringReportingFrequency ProtocolIE-ID ::= 276

id-QosFlowParametersList ProtocolIE-ID ::= 277

id-QosFlowFeedbackList ProtocolIE-ID ::= 278

id-BurstArrivalTimeDownlink ProtocolIE-ID ::= 279

id-ExtendedUEIdentityIndexValue ProtocolIE-ID ::= 280

id-PduSessionExpectedUEActivityBehaviour ProtocolIE-ID ::= 281

id-MicoAllPLMN ProtocolIE-ID ::= 282

id-QosFlowFailedToSetupList ProtocolIE-ID ::= 283

id-SourceTNLAddrInfo ProtocolIE-ID ::= 284

id-ExtendedReportIntervalMDT ProtocolIE-ID ::= 285

id-SourceNodeID ProtocolIE-ID ::= 286

id-NRNTNTAIInformation ProtocolIE-ID ::= 287

id-UEContextReferenceAtSource ProtocolIE-ID ::= 288

id-LastVisitedPSCellList ProtocolIE-ID ::= 289

id-IntersystemSONInformationRequest ProtocolIE-ID ::= 290

id-IntersystemSONInformationResponse ProtocolIE-ID ::= 291

id-EnergySavingIndication ProtocolIE-ID ::= 292

id-IntersystemResourceStatusUpdate ProtocolIE-ID ::= 293

id-SuccessfulHandoverReportList ProtocolIE-ID ::= 294

id-MBS-AreaSessionID ProtocolIE-ID ::= 295

id-MBS-QoSFlows-ToBeSetupList ProtocolIE-ID ::= 296

id-MBS-QoSFlows-ToBeSetupModList ProtocolIE-ID ::= 297

id-MBS-ServiceArea ProtocolIE-ID ::= 298

id-MBS-SessionID ProtocolIE-ID ::= 299

id-MBS-DistributionReleaseRequestTransfer ProtocolIE-ID ::= 300

id-MBS-DistributionSetupRequestTransfer ProtocolIE-ID ::= 301

id-MBS-DistributionSetupResponseTransfer ProtocolIE-ID ::= 302

id-MBS-DistributionSetupUnsuccessfulTransfer ProtocolIE-ID ::= 303

id-MulticastSessionActivationRequestTransfer ProtocolIE-ID ::= 304

id-MulticastSessionDeactivationRequestTransfer ProtocolIE-ID ::= 305

id-MulticastSessionUpdateRequestTransfer ProtocolIE-ID ::= 306

id-MulticastGroupPagingAreaList ProtocolIE-ID ::= 307

id-Alternative-SharedNG-U-Multicast-TNL-Information ProtocolIE-ID ::= 308

id-MBS-SupportIndicator ProtocolIE-ID ::= 309

id-MBSSessionInformationFailedtoSetupList ProtocolIE-ID ::= 310

id-MBSSessionInformationFailedtoSetuporModifyList ProtocolIE-ID ::= 311

id-MBSSessionInformationSetupList ProtocolIE-ID ::= 312

id-MBSSessionInformationSetuporModifyList ProtocolIE-ID ::= 313

id-MBSSessionInformationFailureTransfer ProtocolIE-ID ::= 314

id-MBSSessionInformationRequestTransfer ProtocolIE-ID ::= 315

id-MBSSessionInformationResponseTransfer ProtocolIE-ID ::= 316

id-MBSSessionInformationToBeRemoveList ProtocolIE-ID ::= 317

id-MBSSessionInformationToBeSetupList ProtocolIE-ID ::= 318

id-MBSSessionInformationToBeSetuporModifyList ProtocolIE-ID ::= 319

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id-SharedNG-U-Multicast-TNL-Information ProtocolIE-ID ::= 321

id-SharedNG-U-Unicast-TNL-Information ProtocolIE-ID ::= 322

id-MBS-SessionInformation-SourcetoTargetList ProtocolIE-ID ::= 323

id-MBS-SessionInformation-TargettoSourceList ProtocolIE-ID ::= 324

id-OnboardingSupport ProtocolIE-ID ::= 325

id-TimeSyncAssistanceInfo ProtocolIE-ID ::= 326

id-SurvivalTime ProtocolIE-ID ::= 327

id-QMCConfigInfo ProtocolIE-ID ::= 328

id-QMCDeactivation ProtocolIE-ID ::= 329

id-UE-QMC-Capability ProtocolIE-ID ::= 330

id-PDUSessionPairID ProtocolIE-ID ::= 331

id-NR-PagingeDRXInformation ProtocolIE-ID ::= 332

id-RedCapIndication ProtocolIE-ID ::= 333

id-TargetNSSAIInformation ProtocolIE-ID ::= 334

id-UESliceMaximumBitRateList ProtocolIE-ID ::= 335

id-M4ReportAmount ProtocolIE-ID ::= 336

id-M5ReportAmount ProtocolIE-ID ::= 337

id-M6ReportAmount ProtocolIE-ID ::= 338

id-M7ReportAmount ProtocolIE-ID ::= 339

id-IncludeBeamMeasurementsIndication ProtocolIE-ID ::= 340

id-M6DelayThreshold ProtocolIE-ID ::= 341

id-PagingCause ProtocolIE-ID ::= 342

id-PagingCauseIndicationForVoiceService ProtocolIE-ID ::= 343

id-PEIPSassistanceInformation ProtocolIE-ID ::= 344

id-FiveG-ProSeAuthorized ProtocolIE-ID ::= 345

id-FiveG-ProSeUEPC5AggregateMaximumBitRate ProtocolIE-ID ::= 346

id-FiveG-ProSePC5QoSParameters ProtocolIE-ID ::= 347

id-NGAPIESupportInformationRequestList ProtocolIE-ID ::= 990 -- to be assigned

id-NGAPIESupportInformationResponseList ProtocolIE-ID ::= 991 -- to be assigned

END

-- ASN1STOP

<<<<<<<<<<<<<<<<<<<< End of Changes >>>>>>>>>>>>>>>>>>>>