3GPP TSG-RAN WG3 Meeting #123 R3-240911

Athens, Greece, 26 February - 01 March 2024

**Agenda item: 23.2**

**Source: Nokia, Nokia Shanghai Bell**

**Title: (TP for TS 38.413 BL CR) NGAP updates for NR positioning**

**Document for: Discussion and Decision**

# 1 Introduction

This paper cleans up some editorial errors and aligns with other specifications.

# Annex A: Text Proposal for TS 38.413

*Start of modifications*

## 3.2 Abbreviations

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

5GC 5G Core Network

5QI 5G QoS Identifier

ACL Access Control List

AMF Access and Mobility Management Function

CAG Closed Access Group

CGI Cell Global Identifier

CP Control Plane

DAPS Dual Active Protocol Stacks

DC Dual Connectivity

DL Downlink

EPC Evolved Packet Core

FN-RG Fixed Network Residential Gateway

GUAMI Globally Unique AMF Identifier

HFC Hybrid Fiber-Coax

IAB Integrated Access and Backhaul

IMEISV International Mobile station Equipment Identity and Software Version number

LMF Location Management Function

MBS Multicast/Broadcast Service

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*next modification*

#### 8.3.1.2 Successful Operation



Figure 8.3.1.2-1: Initial context setup: successful operation

In case of the establishment of a PDU session the 5GC shall be prepared to receive user data before the INITIAL CONTEXT SETUP RESPONSE message has been received by the AMF. If no UE-associated logical NG-connection exists, the UE-associated logical NG-connection shall be established at reception of the INITIAL CONTEXT SETUP REQUEST message.

The INITIAL CONTEXT SETUP REQUEST message shall contain the *Index to RAT/Frequency Selection Priority* IE, if available in the AMF.

If the *NAS-PDU* IE is included in the INITIAL CONTEXT SETUP REQUEST message, the NG-RAN node shall pass it transparently towards the UE.

If the *Masked IMEISV* IE is contained in the INITIAL CONTEXT SETUP REQUEST message the target NG-RAN node shall, if supported, use it to determine the characteristics of the UE for subsequent handling.

Upon receipt of the INITIAL CONTEXT SETUP REQUEST message the NG-RAN node shall

- attempt to execute the requested PDU session configuration;

- store the received UE Aggregate Maximum Bit Rate in the UE context, and use the received UE Aggregate Maximum Bit Rate for Non-GBR QoS flows for the concerned UE as specified in TS 23.501 [9];

- store the received Mobility Restriction List in the UE context;

- store the received UE Radio Capability in the UE context;

- store the received Index to RAT/Frequency Selection Priority in the UE context and use it as defined in TS 23.501 [9];

- store the received UE Security Capabilities in the UE context;

- store the received Security Key in the UE context and, if the NG-RAN node is required to activate security for the UE, take this security key into use;

- if supported, store the received SRVCC Operation Possible in the UE context and use it as defined in TS 23.216 [31];

- store the received NR V2X Services Authorization information, if supported, in the UE context;

- store the received LTE V2X Services Authorization information, if supported, in the UE context;

- store the received NR UE Sidelink Aggregate Maximum Bit Rate, if supported, in the UE context, and use it for the concerned UE’s sidelink communication in network scheduled mode for NR V2X services;

- store the received LTE UE Sidelink Aggregate Maximum Bit Rate, if supported, in the UE context, and use it for the concerned UE’s sidelink communication in network scheduled mode for LTE V2X services;

- store the received PC5 QoS Parameters, if supported, in the UE context and use it as defined in TS 23.287 [33];

- store the received Management Based MDT PLMN List information, if supported, in the UE context;

- if supported, store the received IAB Authorization information in the UE context, and use it accordingly for the IAB-MT;

- store the received 5G ProSe Authorization information in the UE context, if supported, and use it for the concerned UE’s sidelink communication in network scheduled mode for 5G ProSe services;

- store the 5G ProSe UE PC5 Aggregate Maximum Bit Rate in the UE context, if supported, and use it for the concerned UE’s sidelink communication in network scheduled mode for 5G ProSe services;

- store the 5G ProSe PC5 QoS Parameters, if supported, in the UE context and use it as defined in TS 23.304 [47];

- store the received Ranging and Sidelink Positioning service information, if supported, in the UE context;

- store the received Network Controlled Repeater Authorization, if supported, in the UE context;

- if supported, store the received Mobile IAB Authorization information in the UE context, and use it accordingly for the mobile IAB-MT;

- store the received PDU Set QoS parameters, if supported, in the UE context and use it as specified in TS 23.501 [9].

\*\* unmodified text skipped \*\*

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#### 8.3.4.2 Successful Operation



Figure 8.3.4.2-1: UE context modification: successful operation

Upon receipt of the UE CONTEXT MODIFICATION REQUEST message the NG-RAN node shall

- if supported, store the received IAB Authorization information in the UE context. If the *IAB Authorized* IE is set to "not authorized" for an IAB-MT, the NG-RAN node shall, if supported, initiate actions to ensure that the IAB node will not serve any UE(s).

\*\* unmodified text skipped \*\*

If the *Aerial UE Subscription Information* IE is included in the UE CONTEXT MODIFICATION REQUEST message, the NG-RAN node shall, if supported, store the information or overwrite any previously stored information in the UE context and use it as defined in TS 38.300 [8].

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

\*\* unmodified text skipped \*\*

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#### 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.

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If the *Partially Allowed NSSAI* IE is contained in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, deduce from it the partially allowed network slices for the UE, store and replace any previously received Partially Allowed NSSAI and use it as specified in TS 23.501 [9].

If the *Ranging and Sidelink Positioning Service Information* IE is contained in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, take it into account for the Ranging and Sidelink Positioning service.

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#### 8.4.4.2 Successful Operation



Figure 8.4.4.2-1: Path switch request: successful operation

The NG-RAN node initiates the procedure by sending the PATH SWITCH REQUEST message to the AMF. Upon reception of the PATH SWITCH REQUEST message the AMF shall, for each PDU session indicated in the *PDU Session ID* IE, transparently transfer the *Path Switch Request Transfer* IE to the SMF associated with the concerned PDU session.

\*\* unmodified text skipped \*\*

If the *Partially Allowed NSSAI* IE is contained in the PATH SWITCH REQUEST ACKNOWLEDGE message, the NG-RAN node shall, if supported, deduce from it the partially allowed network slices for the UE, store and replace any previously received Partially Allowed NSSAI and use it as specified in TS 23.501 [9].

If the *Ranging and Sidelink Positioning Service Information* IE is contained in the PATH SWITCH REQUEST ACKNOWLEDGE message, the NG-RAN node shall, if supported, update the Ranging and Sidelink Positioning service information for the UE accordingly. If the *Ranging and Sidelink Positioning Authorized* IEwithin the *Ranging and Sidelink Positioning Service Information* IE is set to "not authorized", the NG-RAN node shall, if supported, initiate actions to ensure that the UE is no longer accessing the Ranging and Sidelink Positioning service.

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## 8.10 NRPPa Transport Procedures

### 8.10.1 General

The purpose of the NRPPa Transport procedures is to carry NRPPa signalling (defined in TS 38.455 [19]) between the NG-RAN node and the LMF over the NG interface.

The Downlink UE Associated NRPPa Transport procedure and the Uplink UE Associated NRPPa Transport procedure use UE-associated signalling. The UE-associated signalling is used to support E-CID Location Information Transfer, Positioning Information Transfer, Measurement Preconfiguration Information Transfer, and Reporting of General Error Situations due to reception of an NRPPa message that utilized UE-associated signalling.

The Downlink Non UE Associated NRPPa Transport procedure and the Uplink Non UE Associated NRPPa Transport procedure use non-UE associated signalling. The non-UE associated signalling is used to support OTDOA Information Transfer, Assistance Information Transfer, TRP Information Transfer, Measurement Information Transfer, PRS Information Transfer, Area-specific SRS Information Transfer and Reporting of General Error Situations due to reception of an NRPPa message that utilized non-UE associated signalling.

*next modification*

## 9.3 Information Element Definitions

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#### 9.3.1.xx2 RSPP Transport QoS Parameters

This IE provides information on the RSPP transport QoS parameters.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **RSPP Transport QoS Flow List** |  | *1* |  |  |
| **>RSPP Transport QoS Flow Item** |  | *1..<maxnoofRSPPQoSFlows>* |  |  |
| >>PQI | M |  | INTEGER (0..255, …) | PQI is a special 5QI as specified in TS 23.501 [9]. |
| **>>RSPP Transport Bit Rates** |  | *0..1* |  | Only applies for GBR QoS flows. |
| >>>Guaranteed Flow Bit Rate | M |  | Bit Rate9.3.1.4 | Guaranteed Bit Rate for the RSPP QoS flow. Details in TS 23.501 [9]. |
| >>>Maximum Flow Bit Rate | M |  | Bit Rate9.3.1.4 | Maximum Bit Rate for the RSPP QoS flow. Details in TS 23.501 [9]. |
| >>Range | O |  | ENUMERATED (m50, m80, m180, m200, m350, m400, m500, m700, m1000, …) | Only applies for groupcast. |
| RSPP Transport Link Aggregate Bit Rates | O |  | Bit Rate9.3.1.4 | Only applies for Non-GBR QoS flows. |

|  |  |
| --- | --- |
| Range bound | Explanation |
| *maxnoofRSPPQoSFlows* | Maximum no. of RSPP QoS flows allowed towards one UE. Value is 2048. |

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### 9.4.4 PDU Definitions

-- ASN1START

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

--

-- PDU definitions for NGAP.

--

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

NGAP-PDU-Contents {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

 A2X-PC5-QoS-Parameters,

 AerialUEsubscriptionInformation,

 AllowedNSSAI,

 AMFName,

 AMFSetID,

 AMF-TNLAssociationSetupList,

 AMF-TNLAssociationToAddList,

 AMF-TNLAssociationToRemoveList,

 AMF-TNLAssociationToUpdateList,

 AMF-UE-NGAP-ID,

 AssistanceDataForPaging,

 AssociatedSessionID,

 AuthenticatedIndication,

 BroadcastCancelledAreaList,

 BroadcastCompletedAreaList,

 BroadcastTransportFailureTransfer,

 BroadcastTransportRequestTransfer,

 BroadcastTransportResponseTransfer,

 CancelAllWarningMessages,

 Cause,

 CellIDListForRestart,

 CEmodeBrestricted,

 CEmodeBSupport-Indicator,

 CNAssistedRANTuning,

 ConcurrentWarningMessageInd,

 CoreNetworkAssistanceInformationForInactive,

 CPTransportLayerInformation,

 CriticalityDiagnostics,

 DataCodingScheme,

 DirectForwardingPathAvailability,

 DL-CP-SecurityInformation,

 DL-Signalling,

 EarlyStatusTransfer-TransparentContainer,

 EDT-Session,

 EmergencyAreaIDListForRestart,

 EmergencyFallbackIndicator,

 EN-DCSONConfigurationTransfer,

 EndIndication,

 Enhanced-CoverageRestriction,

 EUTRA-CGI,

 EUTRA-PagingeDRXInformation,

 Extended-AMFName,

 Extended-ConnectedTime,

 Extended-RANNodeName,

 FiveGCAction,

 FiveG-ProSeAuthorized,

 FiveG-ProSePC5QoSParameters,

 FiveG-S-TMSI,

 GlobalRANNodeID,

 GUAMI,

 HandoverFlag,

 HandoverType,

 IAB-Authorized,

 IABNodeIndication,

 IAB-Supported,

 IMSVoiceSupportIndicator,

 IndexToRFSP,

 InfoOnRecommendedCellsAndRANNodesForPaging,

 IntersystemSONConfigurationTransfer,

 LAI,

 LocationReportingRequestType,

 LTE-A2X-ServicesAuthorized,

 LTEM-Indication,

 LTEUESidelinkAggregateMaximumBitrate,

 LTEV2XServicesAuthorized,

 MaskedIMEISV,

 MBS-AreaSessionID,

 MBS-DistributionReleaseRequestTransfer,

 MBS-DistributionSetupRequestTransfer,

 MBS-DistributionSetupResponseTransfer,

 MBS-DistributionSetupUnsuccessfulTransfer,

 MBS-ServiceArea,

 MBS-SessionID,

 MBSSessionReleaseResponseTransfer,

 MBSSessionSetupOrModFailureTransfer,

 MBSSessionSetupOrModRequestTransfer,

 MBSSessionSetupOrModResponseTransfer,

 MDTPLMNList,

 MDTPLMNModificationList,

 MessageIdentifier,

 MobileIAB-Authorized,

 MobileIABNodeIndication,

 MobileIAB-Supported,

 MobilityRestrictionList,

 MulticastGroupPagingAreaList,

 MulticastSessionActivationRequestTransfer,

 MulticastSessionDeactivationRequestTransfer,

 MulticastSessionUpdateRequestTransfer,

 NAS-PDU,

 NASSecurityParametersFromNGRAN,

 NB-IoT-DefaultPagingDRX,

 NB-IoT-PagingDRX,

 NB-IoT-Paging-eDRXInfo,

 NB-IoT-UEPriority,

 NetworkControlledRepeaterAuthorized,

 NewSecurityContextInd,

 NGRAN-CGI,

 NGRAN-TNLAssociationToRemoveList,

 NGRANTraceID,

 NID,

 NoPDUSessionIndication,

 NotifySourceNGRANNode,

 NPN-AccessInformation,

 NR-A2X-ServicesAuthorized,

 NR-CGI,

 NR-PagingeDRXInformation,

 NRPPa-PDU,

 NRUESidelinkAggregateMaximumBitrate,

 NRV2XServicesAuthorized,

 NumberOfBroadcastsRequested,

 OverloadResponse,

 OverloadStartNSSAIList,

 PagingAssisDataforCEcapabUE,

 PagingCause,

 PagingDRX,

 PagingOrigin,

 PagingPolicyDifferentiation,

 PagingPriority,

 Partially-Allowed-NSSAI,

 PC5QoSParameters,

 PDUSessionAggregateMaximumBitRate,

 PDUSessionResourceAdmittedList,

 PDUSessionResourceFailedToModifyListModCfm,

 PDUSessionResourceFailedToModifyListModRes,

 PDUSessionResourceFailedToResumeListRESReq,

 PDUSessionResourceFailedToResumeListRESRes,

 PDUSessionResourceFailedToSetupListCxtFail,

 PDUSessionResourceFailedToSetupListCxtRes,

 PDUSessionResourceFailedToSetupListHOAck,

 PDUSessionResourceFailedToSetupListPSReq,

 PDUSessionResourceFailedToSetupListSURes,

 PDUSessionResourceHandoverList,

 PDUSessionResourceListCxtRelCpl,

 PDUSessionResourceListCxtRelReq,

 PDUSessionResourceListHORqd,

 PDUSessionResourceModifyListModCfm,

 PDUSessionResourceModifyListModInd,

 PDUSessionResourceModifyListModReq,

 PDUSessionResourceModifyListModRes,

 PDUSessionResourceNotifyList,

 PDUSessionResourceReleasedListNot,

 PDUSessionResourceReleasedListPSAck,

 PDUSessionResourceReleasedListPSFail,

 PDUSessionResourceReleasedListRelRes,

 PDUSessionResourceResumeListRESReq,

 PDUSessionResourceResumeListRESRes,

 PDUSessionResourceSecondaryRATUsageList,

 PDUSessionResourceSetupListCxtReq,

 PDUSessionResourceSetupListCxtRes,

 PDUSessionResourceSetupListHOReq,

 PDUSessionResourceSetupListSUReq,

 PDUSessionResourceSetupListSURes,

 PDUSessionResourceSuspendListSUSReq,

 PDUSessionResourceSwitchedList,

 PDUSessionResourceToBeSwitchedDLList,

 PDUSessionResourceToReleaseListHOCmd,

 PDUSessionResourceToReleaseListRelCmd,

 PEIPSassistanceInformation,

 PLMNIdentity,

 PLMNSupportList,

 PrivacyIndicator,

 PWSFailedCellIDList,

 QMCConfigInfo,

 QMCDeactivation,

 RANNodeName,

 RANPagingPriority,

 RANStatusTransfer-TransparentContainer,

 RANTimingSynchronisationStatusInfo,

 RAN-TSSRequestType,

 RAN-TSSScope,

 RAN-UE-NGAP-ID,

 RedCapIndication,

 RedirectionVoiceFallback,

 RelativeAMFCapacity,

 RepetitionPeriod,

 ResetType,

 RGLevelWirelineAccessCharacteristics,

 RIMInformationTransfer,

 RoutingID,

 RRCEstablishmentCause,

 RRCInactiveTransitionReportRequest,

 RRCState,

 SecurityContext,

 SecurityKey,

 SerialNumber,

 ServedGUAMIList,

 SliceSupportList,

 SLPositioningRangingServiceInfo,

 S-NSSAI,

 SONConfigurationTransfer,

 SourceToTarget-AMFInformationReroute,

 SourceToTarget-TransparentContainer,

 SRVCCOperationPossible,

 SupportedTAList,

 Suspend-Request-Indication,

 Suspend-Response-Indication,

 TAI,

 TAIListForPaging,

 TAIListForRestart,

 TargetID,

 TargetNSSAIInformation,

 TargettoSource-Failure-TransparentContainer,

 TargetToSource-TransparentContainer,

 TimeSyncAssistanceInfo,

 TimeToWait,

 TNLAssociationList,

 TraceActivation,

 TrafficLoadReductionIndication,

 TransportLayerAddress,

 UEAggregateMaximumBitRate,

 UE-associatedLogicalNG-connectionList,

 UECapabilityInfoRequest,

 UEContextRequest,

 UE-DifferentiationInfo,

 UE-NGAP-IDs,

 UEPagingIdentity,

 UEPresenceInAreaOfInterestList,

 UERadioCapability,

 UERadioCapabilityForPaging,

 UERadioCapabilityID,

 UERetentionInformation,

 UESecurityCapabilities,

 UESliceMaximumBitRateList,

 UE-UP-CIoT-Support,

 UL-CP-SecurityInformation,

 UnavailableGUAMIList,

 URI-address,

 UserLocationInformation,

 WarningAreaCoordinates,

 WarningAreaList,

 WarningMessageContents,

 WarningSecurityInfo,

 WarningType,

 WUS-Assistance-Information

FROM NGAP-IEs

 PrivateIE-Container{},

 ProtocolExtensionContainer{},

 ProtocolIE-Container{},

 ProtocolIE-ContainerList{},

 ProtocolIE-ContainerPair{},

 ProtocolIE-SingleContainer{},

 NGAP-PRIVATE-IES,

 NGAP-PROTOCOL-EXTENSION,

 NGAP-PROTOCOL-IES,

 NGAP-PROTOCOL-IES-PAIR

FROM NGAP-Containers

 id-A2X-PC5-QoS-Parameters,

 id-AerialUEsubscriptionInformation,

 id-AllowedNSSAI,

 id-AMFName,

 id-AMFOverloadResponse,

 id-AMFSetID,

 id-AMF-TNLAssociationFailedToSetupList,

 id-AMF-TNLAssociationSetupList,

 id-AMF-TNLAssociationToAddList,

 id-AMF-TNLAssociationToRemoveList,

 id-AMF-TNLAssociationToUpdateList,

 id-AMFTrafficLoadReductionIndication,

 id-AMF-UE-NGAP-ID,

 id-AssistanceDataForPaging,

 id-AssociatedSessionID,

 id-AuthenticatedIndication,

 id-BroadcastCancelledAreaList,

 id-BroadcastCompletedAreaList,

 id-BroadcastTransportFailureTransfer,

 id-BroadcastTransportRequestTransfer,

 id-BroadcastTransportResponseTransfer,

 id-CancelAllWarningMessages,

 id-Cause,

 id-CellIDListForRestart,

 id-CEmodeBrestricted,

 id-CEmodeBSupport-Indicator,

 id-CNAssistedRANTuning,

 id-ConcurrentWarningMessageInd,

 id-CoreNetworkAssistanceInformationForInactive,

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 id-DataCodingScheme,

 id-DefaultPagingDRX,

 id-DirectForwardingPathAvailability,

 id-DL-CP-SecurityInformation,

 id-DL-Signalling,

 id-EarlyStatusTransfer-TransparentContainer,

 id-EDT-Session,

 id-EmergencyAreaIDListForRestart,

 id-EmergencyFallbackIndicator,

 id-ENDC-SONConfigurationTransferDL,

 id-ENDC-SONConfigurationTransferUL,

 id-EndIndication,

 id-Enhanced-CoverageRestriction,

 id-EUTRA-CGI,

 id-EUTRA-PagingeDRXInformation,

 id-Extended-AMFName,

 id-Extended-ConnectedTime,

 id-Extended-RANNodeName,

 id-FiveGCAction,

 id-FiveG-ProSeAuthorized,

 id-FiveG-ProSePC5QoSParameters,

 id-FiveG-ProSeUEPC5AggregateMaximumBitRate,

 id-FiveG-S-TMSI,

 id-GlobalRANNodeID,

 id-GUAMI,

 id-HandoverFlag,

 id-HandoverType,

 id-IAB-Authorized,

 id-IABNodeIndication,

 id-IAB-Supported,

 id-IMSVoiceSupportIndicator,

 id-IndexToRFSP,

 id-InfoOnRecommendedCellsAndRANNodesForPaging,

 id-IntersystemSONConfigurationTransferDL,

 id-IntersystemSONConfigurationTransferUL,

 id-LocationReportingRequestType,

 id-LTE-A2X-ServicesAuthorized,

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

 id-LTEM-Indication,

 id-LTEUESidelinkAggregateMaximumBitrate,

 id-LTEV2XServicesAuthorized,

 id-ManagementBasedMDTPLMNList,

 id-ManagementBasedMDTPLMNModificationList,

 id-MaskedIMEISV,

 id-MBS-AreaSessionID,

 id-MBS-DistributionReleaseRequestTransfer,

 id-MBS-DistributionSetupRequestTransfer,

 id-MBS-DistributionSetupResponseTransfer,

 id-MBS-DistributionSetupUnsuccessfulTransfer,

 id-MBS-ServiceArea,

 id-MBS-SessionID,

 id-MBSSessionModificationFailureTransfer,

 id-MBSSessionModificationRequestTransfer,

 id-MBSSessionModificationResponseTransfer,

 id-MBSSessionReleaseResponseTransfer,

 id-MBSSessionSetupFailureTransfer,

 id-MBSSessionSetupRequestTransfer,

 id-MBSSessionSetupResponseTransfer,

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 id-MobileIABNodeIndication,

 id-MobileIAB-Supported,

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 id-MulticastSessionDeactivationRequestTransfer,

 id-MulticastSessionUpdateRequestTransfer,

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 id-NAS-PDU,

 id-NASSecurityParametersFromNGRAN,

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 id-NB-IoT-PagingDRX,

 id-NB-IoT-Paging-eDRXInfo,

 id-NB-IoT-UEPriority,

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 id-NewAMF-UE-NGAP-ID,

 id-NewGUAMI,

 id-NewSecurityContextInd,

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 id-NR-PagingeDRXInformation,

 id-NRPPa-PDU,

 id-NRUESidelinkAggregateMaximumBitrate,

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 id-PDUSessionResourceFailedToModifyListModRes,

 id-PDUSessionResourceFailedToResumeListRESReq,

 id-PDUSessionResourceFailedToResumeListRESRes,

 id-PDUSessionResourceFailedToSetupListCxtFail,

 id-PDUSessionResourceFailedToSetupListCxtRes,

 id-PDUSessionResourceFailedToSetupListHOAck,

 id-PDUSessionResourceFailedToSetupListPSReq,

 id-PDUSessionResourceFailedToSetupListSURes,

 id-PDUSessionResourceHandoverList,

 id-PDUSessionResourceListCxtRelCpl,

 id-PDUSessionResourceListCxtRelReq,

 id-PDUSessionResourceListHORqd,

 id-PDUSessionResourceModifyListModCfm,

 id-PDUSessionResourceModifyListModInd,

 id-PDUSessionResourceModifyListModReq,

 id-PDUSessionResourceModifyListModRes,

 id-PDUSessionResourceNotifyList,

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 id-PDUSessionResourceReleasedListPSFail,

 id-PDUSessionResourceReleasedListRelRes,

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 id-PDUSessionResourceResumeListRESRes,

 id-PDUSessionResourceSecondaryRATUsageList,

 id-PDUSessionResourceSetupListCxtReq,

 id-PDUSessionResourceSetupListCxtRes,

 id-PDUSessionResourceSetupListHOReq,

 id-PDUSessionResourceSetupListSUReq,

 id-PDUSessionResourceSetupListSURes,

 id-PDUSessionResourceSuspendListSUSReq,

 id-PDUSessionResourceSwitchedList,

 id-PDUSessionResourceToBeSwitchedDLList,

 id-PDUSessionResourceToReleaseListHOCmd,

 id-PDUSessionResourceToReleaseListRelCmd,

 id-PEIPSassistanceInformation,

 id-PLMNSupportList,

 id-PrivacyIndicator,

 id-PWSFailedCellIDList,

 id-QMCConfigInfo,

 id-QMCDeactivation,

 id-RANNodeName,

 id-RANPagingPriority,

 id-RANStatusTransfer-TransparentContainer,

 id-RANTimingSynchronisationStatusInfo,

 id-RAN-TSSRequestType,

 id-RAN-TSSScope,

 id-RAN-UE-NGAP-ID,

 id-RedCapIndication,

 id-RedirectionVoiceFallback,

 id-RelativeAMFCapacity,

 id-RepetitionPeriod,

 id-ResetType,

 id-RGLevelWirelineAccessCharacteristics,

 id-RIMInformationTransfer,

 id-RoutingID,

 id-RRCEstablishmentCause,

 id-RRCInactiveTransitionReportRequest,

 id-RRC-Resume-Cause,

 id-RRCState,

 id-SecurityContext,

 id-SecurityKey,

 id-SelectedNID,

 id-SelectedPLMNIdentity,

 id-SerialNumber,

 id-ServedGUAMIList,

 id-SliceSupportList,

 id-S-NSSAI,

 id-SONConfigurationTransferDL,

 id-SONConfigurationTransferUL,

 id-SourceAMF-UE-NGAP-ID,

 id-SourceToTarget-AMFInformationReroute,

 id-SourceToTarget-TransparentContainer,

 id-SRVCCOperationPossible,

 id-SupportedTAList,

 id-Suspend-Request-Indication,

 id-Suspend-Response-Indication,

 id-TAI,

 id-TAIListForPaging,

 id-TAIListForRestart,

 id-TargetID,

 id-TargetNSSAIInformation,

 id-TargettoSource-Failure-TransparentContainer,

 id-TargetToSource-TransparentContainer,

 id-TimeSyncAssistanceInfo,

 id-TimeToWait,

 id-TNGFIdentityInformation,

 id-TraceActivation,

 id-TraceCollectionEntityIPAddress,

 id-TraceCollectionEntityURI,

 id-TWIFIdentityInformation,

 id-UEAggregateMaximumBitRate,

 id-UE-associatedLogicalNG-connectionList,

 id-UECapabilityInfoRequest,

 id-UEContextRequest,

 id-UE-DifferentiationInfo,

 id-UE-NGAP-IDs,

 id-UEPagingIdentity,

 id-UEPresenceInAreaOfInterestList,

 id-UERadioCapability,

 id-UERadioCapability-EUTRA-Format,

 id-UERadioCapabilityForPaging,

 id-UERadioCapabilityID,

 id-UERetentionInformation,

 id-UESecurityCapabilities,

 id-UESliceMaximumBitRateList,

 id-UE-UP-CIoT-Support,

 id-UL-CP-SecurityInformation,

 id-UnavailableGUAMIList,

 id-UserLocationInformation,

 id-W-AGFIdentityInformation,

 id-WarningAreaCoordinates,

 id-WarningAreaList,

 id-WarningMessageContents,

 id-WarningSecurityInfo,

 id-WarningType,

 id-WUS-Assistance-Information,

 id-SLPositioningRangingServiceInfo

**<Unchanged Text Omitted>**

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

--

-- INITIAL CONTEXT SETUP REQUEST

--

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

InitialContextSetupRequest ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {InitialContextSetupRequestIEs} },

 ...

}

InitialContextSetupRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 ...

}

**<Unchanged Text Omitted>**

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

--

-- UE CONTEXT MODIFICATION REQUEST

--

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

UEContextModificationRequest ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {UEContextModificationRequestIEs} },

 ...

}

UEContextModificationRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 ...

}

**<Unchanged Text Omitted>**

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

--

-- Handover Resource Allocation Elementary Procedure

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

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

--

-- HANDOVER REQUEST

--

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

HandoverRequest ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {HandoverRequestIEs} },

 ...

}

HandoverRequestIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 ...

}

**<Unchanged Text Omitted>**

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

--

-- PATH SWITCH REQUEST ACKNOWLEDGE

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

PathSwitchRequestAcknowledge ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { { PathSwitchRequestAcknowledgeIEs} },

 ...

}

PathSwitchRequestAcknowledgeIEs NGAP-PROTOCOL-IES ::= {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 ...

}

**<Unchanged Text Omitted>**

### 9.4.5 Information Element Definitions

-- ASN1START

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

--

-- 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-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-ExtendedMobilityInformation,

 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-HashedUEIdentityIndexValue,

 id-IncludeBeamMeasurementsIndication,

 id-IntersystemSONInformationRequest,

 id-IntersystemSONInformationReply,

 id-IntersystemResourceStatusUpdate,

 id-LastEUTRAN-PLMNIdentity,

 id-LastVisitedPSCellList,

 id-LocationReportingAdditionalInfo,

 id-M4ReportAmount,

 id-M5ReportAmount,

 id-M6ReportAmount,

 id-ExcessPacketDelayThresholdConfiguration,

 id-M7ReportAmount,

 id-MaximumIntegrityProtectedDataRate-DL,

 id-MBS-AreaSessionID,

 id-MBS-QoSFlowsToBeSetupList,

 id-MBS-QoSFlowsToBeSetupModList,

 id-MBS-QoSFlowToReleaseList,

 id-MBS-ServiceArea,

 id-MBS-SessionFSAIDList,

 id-MBS-SessionID,

 id-MBS-ActiveSessionInformation-SourcetoTargetList,

 id-MBS-ActiveSessionInformation-TargettoSourceList,

 id-MBS-SessionTNLInfo5GC,

 id-MBS-SupportIndicator,

 id-MBSSessionFailedtoSetupList,

 id-MBSSessionFailedtoSetuporModifyList,

 id-MBSSessionSetupResponseList,

 id-MBSSessionSetuporModifyResponseList,

 id-MBSSessionToReleaseList,

 id-MBSSessionSetupRequestList,

 id-MBSSessionSetuporModifyRequestList,

 id-MDTConfiguration,

 id-MicoAllPLMN,

 id-NetworkInstance,

 id-NGAPIESupportInformationRequestList,

 id-NGAPIESupportInformationResponseList,

 id-NID,

 id-NR-CGI,

 id-NRNTNTAIInformation,

 id-NPN-MobilityInformation,

 id-NPN-PagingAssistanceInformation,

 id-NPN-Support,

 id-NR-PagingeDRXInformation,

 id-OldAssociatedQosFlowList-ULendmarkerexpected,

 id-OnboardingSupport,

 id-PagingAssisDataforCEcapabUE,

 id-PagingCauseIndicationForVoiceService,

 id-PDUSessionAggregateMaximumBitRate,

 id-PduSessionExpectedUEActivityBehaviour,

 id-PDUSessionPairID,

 id-PDUSessionResourceFailedToSetupListCxtFail,

 id-PDUSessionResourceReleaseResponseTransfer,

 id-PDUSessionType,

 id-PEIPSassistanceInformation,

 id-PSCellInformation,

 id-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-SgNB-UE-X2AP-ID,

 id-S-NSSAI,

 id-SONInformationReport,

 id-SourceNodeID,

 id-SourceNodeTNLAddrInfo,

 id-SourceTNLAddrInfo,

 id-SurvivalTime,

 id-TNLAssociationTransportLayerAddressNGRAN,

 id-TAINSAGSupportList,

 id-TargetHomeENB-ID,

 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,

 id-EarlyMeasurement,

 id-BeamMeasurementsReportConfiguration,

 id-TAI,

 id-HFCNode-ID-new,

 id-GlobalCable-ID-new,

 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,

 maxnoofMBSFSAs,

 maxnoofMBSQoSFlows,

 maxnoofMBSServiceAreaInformation,

 maxnoofMBSAreaSessionIDs,

 maxnoofMBSSessions,

 maxnoofMBSSessionsofUE,

 maxnoofMDTPLMNs,

 maxnoofMRBs,

 maxnoofMultiConnectivity,

 maxnoofMultiConnectivityMinusOne,

 maxnoofNeighPCIforMDT,

 maxnoofNGAPIESupportInfo,

 maxnoofNGConnectionsToReset,

 maxNRARFCN,

 maxnoofNRCellBands,

 maxnoofNSAGs,

 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,

 maxnoofThresholdsForExcessPacketDelay,

 maxnoofRSPPQoSFlows

FROM NGAP-Constants

 Criticality,

 ProcedureCode,

 ProtocolIE-ID,

 TriggeringMessage

FROM NGAP-CommonDataTypes

 ProtocolExtensionContainer{},

 ProtocolIE-Container{},

 NGAP-PROTOCOL-EXTENSION,

 ProtocolIE-SingleContainer{},

 NGAP-PROTOCOL-IES

FROM NGAP-Containers;

**<Unchanged Text Omitted>**

-- S

**<Unchanged Text Omitted>**

SLPositioningRangingServiceInfo ::= SEQUENCE{

 sLPositioningRangingAuthorized SLPositioningRangingAuthorized,

 sLPositioningRangingQoSParameters SLPositioningRangingQoSParameters OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {SLPositioningRangingServiceInfo-ExtIEs} } OPTIONAL

}

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

 ...

}

SLPositioningRangingAuthorized ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

SLPositioningRangingQoSParameters ::= SEQUENCE {

 rSPPQoSFlowList RSPPQoSFlowList,

 rSPPLinkAggregateBitRates BitRate OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { { SLPositioning-Ranging-QoS-Parameters-ExtIEs} } OPTIONAL,

 ...

}

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

 ...

}

**<Unchanged Text Omitted>**

-- R

**<Unchanged Text Omitted>**

RSPPQoSFlowList ::= SEQUENCE (SIZE(1..maxnoofRSPPQoSFlows)) OF RSPPQoSFlowItem

RSPPQoSFlowItem ::= SEQUENCE {

 pQI FiveQI,

 rSPPFlowBitRates RSPPFlowBitRates OPTIONAL,

 range Range OPTIONAL,

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

 ...

}

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

 ...

}

RSPPFlowBitRates ::= SEQUENCE {

 guaranteedFlowBitRate BitRate,

 maximumFlowBitRate BitRate,

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

 ...

}

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

 ...

}

**<Unchanged Text Omitted>**

### 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;

**<Unchanged Text Omitted>**

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

--

-- Lists

--

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

 maxnoofAllowedAreas INTEGER ::= 16

 maxnoofAllowedCAGsperPLMN INTEGER ::= 256

 maxnoofAllowedS-NSSAIs INTEGER ::= 8

 maxnoofBluetoothName INTEGER ::= 4

 maxnoofBPLMNs INTEGER ::= 12

 maxnoofCAGSperCell INTEGER ::= 64

 maxnoofCellIDforMDT INTEGER ::= 32

 maxnoofCellIDforWarning INTEGER ::= 65535

 maxnoofCellinAoI INTEGER ::= 256

 maxnoofCellinEAI INTEGER ::= 65535

 maxnoofCellinTAI INTEGER ::= 65535

 maxnoofCellsforMBS INTEGER ::= 8192

 maxnoofCellsingNB INTEGER ::= 16384

 maxnoofCellsinngeNB INTEGER ::= 256

 maxnoofCellsinNGRANNode INTEGER ::= 16384

 maxnoofCellsinUEHistoryInfo INTEGER ::= 16

 maxnoofCellsUEMovingTrajectory INTEGER ::= 16

 maxnoofDRBs INTEGER ::= 32

 maxnoofEmergencyAreaID INTEGER ::= 65535

 maxnoofEAIforRestart INTEGER ::= 256

 maxnoofEPLMNs INTEGER ::= 15

 maxnoofEPLMNsPlusOne INTEGER ::= 16

 maxnoofE-RABs INTEGER ::= 256

 maxnoofErrors INTEGER ::= 256

 maxnoofExtSliceItems INTEGER ::= 65535

 maxnoofForbTACs INTEGER ::= 4096

 maxnoofFreqforMDT INTEGER ::= 8

 maxnoofMBSAreaSessionIDs INTEGER ::= 256

 maxnoofMBSFSAs INTEGER ::= 64

 maxnoofMBSQoSFlows INTEGER ::= 64

 maxnoofMBSSessions INTEGER ::= 32

 maxnoofMBSSessionsofUE INTEGER ::= 256

 maxnoofMBSServiceAreaInformation INTEGER ::= 256

 maxnoofMDTPLMNs INTEGER ::= 16

 maxnoofMRBs INTEGER ::= 32

 maxnoofMultiConnectivity INTEGER ::= 4

 maxnoofMultiConnectivityMinusOne INTEGER ::= 3

 maxnoofNeighPCIforMDT INTEGER ::= 32

 maxnoofNGAPIESupportInfo INTEGER ::= 32

 maxnoofNGConnectionsToReset INTEGER ::= 65536

 maxnoofNRCellBands INTEGER ::= 32

 maxnoofNSAGs INTEGER ::= 256

 maxnoofPagingAreas INTEGER ::= 64

 maxnoofPC5QoSFlows INTEGER ::= 2048

 maxnoofPDUSessions INTEGER ::= 256

 maxnoofPLMNs INTEGER ::= 12

 maxnoofPSCellsPerPrimaryCellinUEHistoryInfo INTEGER ::= 8

 maxnoofQosFlows INTEGER ::= 64

 maxnoofQosParaSets INTEGER ::= 8

 maxnoofRANNodeinAoI INTEGER ::= 64

 maxnoofRecommendedCells INTEGER ::= 16

 maxnoofRecommendedRANNodes INTEGER ::= 16

 maxnoofAoI INTEGER ::= 64

 maxnoofAoIMinusOne INTEGER ::= 63

 maxnoofReportedCells INTEGER ::= 256

 maxnoofSensorName INTEGER ::= 3

 maxnoofServedGUAMIs INTEGER ::= 256

 maxnoofSliceItems INTEGER ::= 1024

 maxnoofSuccessfulHOReports INTEGER ::= 64

 maxnoofTACs INTEGER ::= 256

 maxnoofTACsinNTN INTEGER ::= 12

 maxnoofTAforMDT INTEGER ::= 8

 maxnoofTAIforInactive INTEGER ::= 16

 maxnoofTAIforMBS INTEGER ::= 1024

 maxnoofTAIforPaging INTEGER ::= 16

 maxnoofTAIforRestart INTEGER ::= 2048

 maxnoofTAIforWarning INTEGER ::= 65535

 maxnoofTAIinAoI INTEGER ::= 16

 maxnoofTimePeriods INTEGER ::= 2

 maxnoofTNLAssociations INTEGER ::= 32

 maxnoofUEsforPaging INTEGER ::= 4096

 maxnoofUETypes INTEGER ::= 8

 maxnoofWLANName INTEGER ::= 4

 maxnoofXnExtTLAs INTEGER ::= 16

 maxnoofXnGTP-TLAs INTEGER ::= 16

 maxnoofXnTLAs INTEGER ::= 2

 maxnoofCandidateCells INTEGER ::= 32

 maxnoofTargetS-NSSAIs INTEGER ::= 8

 maxNRARFCN INTEGER ::= 3279165

 maxnoofCellIDforQMC INTEGER ::= 32

 maxnoofPLMNforQMC INTEGER ::= 16

 maxnoofUEAppLayerMeas INTEGER ::= 16

 maxnoofSNSSAIforQMC INTEGER ::= 16

 maxnoofTAforQMC INTEGER ::= 8

 maxnoofThresholdsForExcessPacketDelay INTEGER ::= 255

 maxnoofESNPNs INTEGER ::= 15

 maxnoofCandidateRelayUEs INTEGER ::= 32

 maxnoofSuccessfulPSCellChangeReports INTEGER ::= 64

 maxnoofCellsTSS INTEGER ::= 16384

 maxnoofPeriodicities INTEGER ::= 8

 maxnoofCAGforMDT INTEGER ::= 256

 maxnoofMDTSNPNs INTEGER ::= 16

 maxnoofPartiallyAllowedS-NSSAIs INTEGER ::= 8

 maxnoofRSPPQoSFlows INTEGER ::= 2048

**<Unchanged Text Omitted>**

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

--

-- IEs

--

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

 id-AllowedNSSAI ProtocolIE-ID ::= 0

 id-AMFName ProtocolIE-ID ::= 1

 id-AMFOverloadResponse ProtocolIE-ID ::= 2

 id-AMFSetID ProtocolIE-ID ::= 3

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

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

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

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

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

 id-AMFTrafficLoadReductionIndication ProtocolIE-ID ::= 9

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

 id-AssistanceDataForPaging ProtocolIE-ID ::= 11

 id-BroadcastCancelledAreaList ProtocolIE-ID ::= 12

 id-BroadcastCompletedAreaList ProtocolIE-ID ::= 13

 id-CancelAllWarningMessages ProtocolIE-ID ::= 14

 id-Cause ProtocolIE-ID ::= 15

 id-CellIDListForRestart ProtocolIE-ID ::= 16

 id-ConcurrentWarningMessageInd ProtocolIE-ID ::= 17

 id-CoreNetworkAssistanceInformationForInactive ProtocolIE-ID ::= 18

 id-CriticalityDiagnostics ProtocolIE-ID ::= 19

 id-DataCodingScheme ProtocolIE-ID ::= 20

 id-DefaultPagingDRX ProtocolIE-ID ::= 21

 id-DirectForwardingPathAvailability ProtocolIE-ID ::= 22

 id-EmergencyAreaIDListForRestart ProtocolIE-ID ::= 23

 id-EmergencyFallbackIndicator ProtocolIE-ID ::= 24

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

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

 id-GlobalRANNodeID ProtocolIE-ID ::= 27

 id-GUAMI ProtocolIE-ID ::= 28

 id-HandoverType ProtocolIE-ID ::= 29

 id-IMSVoiceSupportIndicator ProtocolIE-ID ::= 30

 id-IndexToRFSP ProtocolIE-ID ::= 31

 id-InfoOnRecommendedCellsAndRANNodesForPaging ProtocolIE-ID ::= 32

 id-LocationReportingRequestType ProtocolIE-ID ::= 33

 id-MaskedIMEISV ProtocolIE-ID ::= 34

 id-MessageIdentifier ProtocolIE-ID ::= 35

 id-MobilityRestrictionList ProtocolIE-ID ::= 36

 id-NASC ProtocolIE-ID ::= 37

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

 id-NASSecurityParametersFromNGRAN ProtocolIE-ID ::= 39

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

 id-NewSecurityContextInd ProtocolIE-ID ::= 41

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

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

 id-NGRANTraceID ProtocolIE-ID ::= 44

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

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

 id-NumberOfBroadcastsRequested ProtocolIE-ID ::= 47

 id-OldAMF ProtocolIE-ID ::= 48

 id-OverloadStartNSSAIList ProtocolIE-ID ::= 49

 id-PagingDRX ProtocolIE-ID ::= 50

 id-PagingOrigin ProtocolIE-ID ::= 51

 id-PagingPriority ProtocolIE-ID ::= 52

 id-PDUSessionResourceAdmittedList ProtocolIE-ID ::= 53

 id-PDUSessionResourceFailedToModifyListModRes ProtocolIE-ID ::= 54

 id-PDUSessionResourceFailedToSetupListCxtRes ProtocolIE-ID ::= 55

 id-PDUSessionResourceFailedToSetupListHOAck ProtocolIE-ID ::= 56

 id-PDUSessionResourceFailedToSetupListPSReq ProtocolIE-ID ::= 57

 id-PDUSessionResourceFailedToSetupListSURes ProtocolIE-ID ::= 58

 id-PDUSessionResourceHandoverList ProtocolIE-ID ::= 59

 id-PDUSessionResourceListCxtRelCpl ProtocolIE-ID ::= 60

 id-PDUSessionResourceListHORqd ProtocolIE-ID ::= 61

 id-PDUSessionResourceModifyListModCfm ProtocolIE-ID ::= 62

 id-PDUSessionResourceModifyListModInd ProtocolIE-ID ::= 63

 id-PDUSessionResourceModifyListModReq ProtocolIE-ID ::= 64

 id-PDUSessionResourceModifyListModRes ProtocolIE-ID ::= 65

 id-PDUSessionResourceNotifyList ProtocolIE-ID ::= 66

 id-PDUSessionResourceReleasedListNot ProtocolIE-ID ::= 67

 id-PDUSessionResourceReleasedListPSAck ProtocolIE-ID ::= 68

 id-PDUSessionResourceReleasedListPSFail ProtocolIE-ID ::= 69

 id-PDUSessionResourceReleasedListRelRes ProtocolIE-ID ::= 70

 id-PDUSessionResourceSetupListCxtReq ProtocolIE-ID ::= 71

 id-PDUSessionResourceSetupListCxtRes ProtocolIE-ID ::= 72

 id-PDUSessionResourceSetupListHOReq ProtocolIE-ID ::= 73

 id-PDUSessionResourceSetupListSUReq ProtocolIE-ID ::= 74

 id-PDUSessionResourceSetupListSURes ProtocolIE-ID ::= 75

 id-PDUSessionResourceToBeSwitchedDLList ProtocolIE-ID ::= 76

 id-PDUSessionResourceSwitchedList ProtocolIE-ID ::= 77

 id-PDUSessionResourceToReleaseListHOCmd ProtocolIE-ID ::= 78

 id-PDUSessionResourceToReleaseListRelCmd ProtocolIE-ID ::= 79

 id-PLMNSupportList ProtocolIE-ID ::= 80

 id-PWSFailedCellIDList ProtocolIE-ID ::= 81

 id-RANNodeName ProtocolIE-ID ::= 82

 id-RANPagingPriority ProtocolIE-ID ::= 83

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

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

 id-RelativeAMFCapacity ProtocolIE-ID ::= 86

 id-RepetitionPeriod ProtocolIE-ID ::= 87

 id-ResetType ProtocolIE-ID ::= 88

 id-RoutingID ProtocolIE-ID ::= 89

 id-RRCEstablishmentCause ProtocolIE-ID ::= 90

 id-RRCInactiveTransitionReportRequest ProtocolIE-ID ::= 91

 id-RRCState ProtocolIE-ID ::= 92

 id-SecurityContext ProtocolIE-ID ::= 93

 id-SecurityKey ProtocolIE-ID ::= 94

 id-SerialNumber ProtocolIE-ID ::= 95

 id-ServedGUAMIList ProtocolIE-ID ::= 96

 id-SliceSupportList ProtocolIE-ID ::= 97

 id-SONConfigurationTransferDL ProtocolIE-ID ::= 98

 id-SONConfigurationTransferUL ProtocolIE-ID ::= 99

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

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

 id-SupportedTAList ProtocolIE-ID ::= 102

 id-TAIListForPaging ProtocolIE-ID ::= 103

 id-TAIListForRestart ProtocolIE-ID ::= 104

 id-TargetID ProtocolIE-ID ::= 105

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

 id-TimeToWait ProtocolIE-ID ::= 107

 id-TraceActivation ProtocolIE-ID ::= 108

 id-TraceCollectionEntityIPAddress ProtocolIE-ID ::= 109

 id-UEAggregateMaximumBitRate ProtocolIE-ID ::= 110

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

 id-UEContextRequest ProtocolIE-ID ::= 112

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

 id-UEPagingIdentity ProtocolIE-ID ::= 115

 id-UEPresenceInAreaOfInterestList ProtocolIE-ID ::= 116

 id-UERadioCapability ProtocolIE-ID ::= 117

 id-UERadioCapabilityForPaging ProtocolIE-ID ::= 118

 id-UESecurityCapabilities ProtocolIE-ID ::= 119

 id-UnavailableGUAMIList ProtocolIE-ID ::= 120

 id-UserLocationInformation ProtocolIE-ID ::= 121

 id-WarningAreaList ProtocolIE-ID ::= 122

 id-WarningMessageContents ProtocolIE-ID ::= 123

 id-WarningSecurityInfo ProtocolIE-ID ::= 124

 id-WarningType ProtocolIE-ID ::= 125

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

 id-DataForwardingNotPossible ProtocolIE-ID ::= 127

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

 id-NetworkInstance ProtocolIE-ID ::= 129

 id-PDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 130

 id-PDUSessionResourceFailedToModifyListModCfm ProtocolIE-ID ::= 131

 id-PDUSessionResourceFailedToSetupListCxtFail ProtocolIE-ID ::= 132

 id-PDUSessionResourceListCxtRelReq ProtocolIE-ID ::= 133

 id-PDUSessionType ProtocolIE-ID ::= 134

 id-QosFlowAddOrModifyRequestList ProtocolIE-ID ::= 135

 id-QosFlowSetupRequestList ProtocolIE-ID ::= 136

 id-QosFlowToReleaseList ProtocolIE-ID ::= 137

 id-SecurityIndication ProtocolIE-ID ::= 138

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

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

 id-WarningAreaCoordinates ProtocolIE-ID ::= 141

 id-PDUSessionResourceSecondaryRATUsageList ProtocolIE-ID ::= 142

 id-HandoverFlag ProtocolIE-ID ::= 143

 id-SecondaryRATUsageInformation ProtocolIE-ID ::= 144

 id-PDUSessionResourceReleaseResponseTransfer ProtocolIE-ID ::= 145

 id-RedirectionVoiceFallback ProtocolIE-ID ::= 146

 id-UERetentionInformation ProtocolIE-ID ::= 147

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

 id-PSCellInformation ProtocolIE-ID ::= 149

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

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

 id-AdditionalDLForwardingUPTNLInformation ProtocolIE-ID ::= 152

 id-AdditionalDLUPTNLInformationForHOList ProtocolIE-ID ::= 153

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

 id-AdditionalDLQosFlowPerTNLInformation ProtocolIE-ID ::= 155

 id-SecurityResult ProtocolIE-ID ::= 156

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

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

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

 id-CNTypeRestrictionsForEquivalent ProtocolIE-ID ::= 160

 id-CNTypeRestrictionsForServing ProtocolIE-ID ::= 161

 id-NewGUAMI ProtocolIE-ID ::= 162

 id-ULForwarding ProtocolIE-ID ::= 163

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

 id-CNAssistedRANTuning ProtocolIE-ID ::= 165

 id-CommonNetworkInstance ProtocolIE-ID ::= 166

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

 id-TNLAssociationTransportLayerAddressNGRAN ProtocolIE-ID ::= 168

 id-EndpointIPAddressAndPort ProtocolIE-ID ::= 169

 id-LocationReportingAdditionalInfo ProtocolIE-ID ::= 170

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

 id-AdditionalULForwardingUPTNLInformation ProtocolIE-ID ::= 172

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

 id-SelectedPLMNIdentity ProtocolIE-ID ::= 174

 id-RIMInformationTransfer ProtocolIE-ID ::= 175

 id-GUAMIType ProtocolIE-ID ::= 176

 id-SRVCCOperationPossible ProtocolIE-ID ::= 177

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

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

 id-ExtendedRATRestrictionInformation ProtocolIE-ID ::= 180

 id-QosMonitoringRequest ProtocolIE-ID ::= 181

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

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

 id-AdditionalRedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 184

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

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

 id-CNPacketDelayBudgetDL ProtocolIE-ID ::= 187

 id-CNPacketDelayBudgetUL ProtocolIE-ID ::= 188

 id-ExtendedPacketDelayBudget ProtocolIE-ID ::= 189

 id-RedundantCommonNetworkInstance ProtocolIE-ID ::= 190

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

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

 id-RedundantDLQosFlowPerTNLInformation ProtocolIE-ID ::= 193

 id-RedundantQosFlowIndicator ProtocolIE-ID ::= 194

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

 id-TSCTrafficCharacteristics ProtocolIE-ID ::= 196

 id-RedundantPDUSessionInformation ProtocolIE-ID ::= 197

 id-UsedRSNInformation ProtocolIE-ID ::= 198

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

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

 id-IABNodeIndication ProtocolIE-ID ::= 201

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

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

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

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

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

 id-PagingAssisDataforCEcapabUE ProtocolIE-ID ::= 207

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

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

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

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

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

 id-TAI ProtocolIE-ID ::= 213

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

 id-LTEV2XServicesAuthorized ProtocolIE-ID ::= 215

 id-NRV2XServicesAuthorized ProtocolIE-ID ::= 216

 id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 217

 id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= 218

 id-PC5QoSParameters ProtocolIE-ID ::= 219

 id-AlternativeQoSParaSetList ProtocolIE-ID ::= 220

 id-CurrentQoSParaSetIndex ProtocolIE-ID ::= 221

 id-CEmodeBrestricted ProtocolIE-ID ::= 222

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

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

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

 id-EndIndication ProtocolIE-ID ::= 226

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

 id-UECapabilityInfoRequest ProtocolIE-ID ::= 228

 id-PDUSessionResourceFailedToResumeListRESReq ProtocolIE-ID ::= 229

 id-PDUSessionResourceFailedToResumeListRESRes ProtocolIE-ID ::= 230

 id-PDUSessionResourceSuspendListSUSReq ProtocolIE-ID ::= 231

 id-PDUSessionResourceResumeListRESReq ProtocolIE-ID ::= 232

 id-PDUSessionResourceResumeListRESRes ProtocolIE-ID ::= 233

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

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

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

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

 id-RGLevelWirelineAccessCharacteristics ProtocolIE-ID ::= 238

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

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

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

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

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

 id-UserLocationInformationTNGF ProtocolIE-ID ::= 244

 id-AuthenticatedIndication ProtocolIE-ID ::= 245

 id-TNGFIdentityInformation ProtocolIE-ID ::= 246

 id-TWIFIdentityInformation ProtocolIE-ID ::= 247

 id-UserLocationInformationTWIF ProtocolIE-ID ::= 248

 id-DataForwardingResponseERABList ProtocolIE-ID ::= 249

 id-IntersystemSONConfigurationTransferDL ProtocolIE-ID ::= 250

 id-IntersystemSONConfigurationTransferUL ProtocolIE-ID ::= 251

 id-SONInformationReport ProtocolIE-ID ::= 252

 id-UEHistoryInformationFromTheUE ProtocolIE-ID ::= 253

 id-ManagementBasedMDTPLMNList ProtocolIE-ID ::= 254

 id-MDTConfiguration ProtocolIE-ID ::= 255

 id-PrivacyIndicator ProtocolIE-ID ::= 256

 id-TraceCollectionEntityURI ProtocolIE-ID ::= 257

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

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

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

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

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

 id-NID ProtocolIE-ID ::= 263

 id-UERadioCapabilityID ProtocolIE-ID ::= 264

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

 id-DAPSRequestInfo ProtocolIE-ID ::= 266

 id-DAPSResponseInfoList ProtocolIE-ID ::= 267

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

 id-NotifySourceNGRANNode ProtocolIE-ID ::= 269

 id-ExtendedSliceSupportList ProtocolIE-ID ::= 270

 id-ExtendedTAISliceSupportList ProtocolIE-ID ::= 271

 id-ConfiguredTACIndication ProtocolIE-ID ::= 272

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

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

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

 id-QosMonitoringReportingFrequency ProtocolIE-ID ::= 276

 id-QosFlowParametersList ProtocolIE-ID ::= 277

 id-QosFlowFeedbackList ProtocolIE-ID ::= 278

 id-BurstArrivalTimeDownlink ProtocolIE-ID ::= 279

 id-ExtendedUEIdentityIndexValue ProtocolIE-ID ::= 280

 id-PduSessionExpectedUEActivityBehaviour ProtocolIE-ID ::= 281

 id-MicoAllPLMN ProtocolIE-ID ::= 282

 id-QosFlowFailedToSetupList ProtocolIE-ID ::= 283

 id-SourceTNLAddrInfo ProtocolIE-ID ::= 284

 id-ExtendedReportIntervalMDT ProtocolIE-ID ::= 285

 id-SourceNodeID ProtocolIE-ID ::= 286

 id-NRNTNTAIInformation ProtocolIE-ID ::= 287

 id-UEContextReferenceAtSource ProtocolIE-ID ::= 288

 id-LastVisitedPSCellList ProtocolIE-ID ::= 289

 id-IntersystemSONInformationRequest ProtocolIE-ID ::= 290

 id-IntersystemSONInformationReply ProtocolIE-ID ::= 291

 id-EnergySavingIndication ProtocolIE-ID ::= 292

 id-IntersystemResourceStatusUpdate ProtocolIE-ID ::= 293

 id-SuccessfulHandoverReportList ProtocolIE-ID ::= 294

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

 id-MBS-QoSFlowsToBeSetupList ProtocolIE-ID ::= 296

 id-MBS-QoSFlowsToBeSetupModList ProtocolIE-ID ::= 297

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

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

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

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

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

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

 id-MulticastSessionActivationRequestTransfer ProtocolIE-ID ::= 304

 id-MulticastSessionDeactivationRequestTransfer ProtocolIE-ID ::= 305

 id-MulticastSessionUpdateRequestTransfer ProtocolIE-ID ::= 306

 id-MulticastGroupPagingAreaList ProtocolIE-ID ::= 307

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

 id-MBSSessionFailedtoSetupList ProtocolIE-ID ::= 310

 id-MBSSessionFailedtoSetuporModifyList ProtocolIE-ID ::= 311

 id-MBSSessionSetupResponseList ProtocolIE-ID ::= 312

 id-MBSSessionSetuporModifyResponseList ProtocolIE-ID ::= 313

 id-MBSSessionSetupFailureTransfer ProtocolIE-ID ::= 314

 id-MBSSessionSetupRequestTransfer ProtocolIE-ID ::= 315

 id-MBSSessionSetupResponseTransfer ProtocolIE-ID ::= 316

 id-MBSSessionToReleaseList ProtocolIE-ID ::= 317

 id-MBSSessionSetupRequestList ProtocolIE-ID ::= 318

 id-MBSSessionSetuporModifyRequestList ProtocolIE-ID ::= 319

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

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

 id-OnboardingSupport ProtocolIE-ID ::= 325

 id-TimeSyncAssistanceInfo ProtocolIE-ID ::= 326

 id-SurvivalTime ProtocolIE-ID ::= 327

 id-QMCConfigInfo ProtocolIE-ID ::= 328

 id-QMCDeactivation ProtocolIE-ID ::= 329

 id-PDUSessionPairID ProtocolIE-ID ::= 331

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

 id-RedCapIndication ProtocolIE-ID ::= 333

 id-TargetNSSAIInformation ProtocolIE-ID ::= 334

 id-UESliceMaximumBitRateList ProtocolIE-ID ::= 335

 id-M4ReportAmount ProtocolIE-ID ::= 336

 id-M5ReportAmount ProtocolIE-ID ::= 337

 id-M6ReportAmount ProtocolIE-ID ::= 338

 id-M7ReportAmount ProtocolIE-ID ::= 339

 id-IncludeBeamMeasurementsIndication ProtocolIE-ID ::= 340

 id-ExcessPacketDelayThresholdConfiguration ProtocolIE-ID ::= 341

 id-PagingCause ProtocolIE-ID ::= 342

 id-PagingCauseIndicationForVoiceService ProtocolIE-ID ::= 343

 id-PEIPSassistanceInformation ProtocolIE-ID ::= 344

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

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

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

 id-MBSSessionModificationFailureTransfer ProtocolIE-ID ::= 348

 id-MBSSessionModificationRequestTransfer ProtocolIE-ID ::= 349

 id-MBSSessionModificationResponseTransfer ProtocolIE-ID ::= 350

 id-MBS-QoSFlowToReleaseList ProtocolIE-ID ::= 351

 id-MBS-SessionTNLInfo5GC ProtocolIE-ID ::= 352

 id-TAINSAGSupportList ProtocolIE-ID ::= 353

 id-SourceNodeTNLAddrInfo ProtocolIE-ID ::= 354

 id-NGAPIESupportInformationRequestList ProtocolIE-ID ::= 355

 id-NGAPIESupportInformationResponseList ProtocolIE-ID ::= 356

 id-MBS-SessionFSAIDList ProtocolIE-ID ::= 357

 id-MBSSessionReleaseResponseTransfer ProtocolIE-ID ::= 358

 id-ManagementBasedMDTPLMNModificationList ProtocolIE-ID ::= 359

 id-EarlyMeasurement ProtocolIE-ID ::= 360

 id-BeamMeasurementsReportConfiguration ProtocolIE-ID ::= 361

 id-HFCNode-ID-new ProtocolIE-ID ::= 362

 id-GlobalCable-ID-new ProtocolIE-ID ::= 363

 id-TargetHomeENB-ID ProtocolIE-ID ::= 364

 id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 365

 id-ExtendedMobilityInformation ProtocolIE-ID ::= 366

 id-NetworkControlledRepeaterAuthorized ProtocolIE-ID ::= 367

 id-AdditionalCancelledlocationReportingReferenceIDList ProtocolIE-ID ::= 368

 id-Selected-Target-SNPN-Identity ProtocolIE-ID ::= 369

 id-EquivalentSNPNsList ProtocolIE-ID ::= 370

 id-SelectedNID ProtocolIE-ID ::= 371

 id-SupportedUETypeList ProtocolIE-ID ::= 372

 id-AerialUEsubscriptionInformation ProtocolIE-ID ::= 373

 id-NR-A2X-ServicesAuthorized ProtocolIE-ID ::= 374

 id-LTE-A2X-ServicesAuthorized ProtocolIE-ID ::= 375

 id-NR-A2X-UE-PC5-AggregateMaximumBitRate ProtocolIE-ID ::= 376

 id-LTE-A2X-UE-PC5-AggregateMaximumBitRate ProtocolIE-ID ::= 377

 id-A2X-PC5-QoS-Parameters ProtocolIE-ID ::= 378

 id-FiveGProSeLayer2Multipath ProtocolIE-ID ::= 379

 id-FiveGProSeLayer2UEtoUERelay ProtocolIE-ID ::= 380

 id-FiveGProSeLayer2UEtoUERemote ProtocolIE-ID ::= 381

 id-CandidateRelayUEInformationList ProtocolIE-ID ::= 382

 id-SuccessfulPSCellChangeReportList ProtocolIE-ID ::= 383

 id-IntersystemMobilityFailureforVoiceFallback ProtocolIE-ID ::= 384

 id-TargetCellCRNTI ProtocolIE-ID ::= 385

 id-TimeSinceFailure ProtocolIE-ID ::= 386

 id-RANTimingSynchronisationStatusInfo ProtocolIE-ID ::= 387

 id-RAN-TSSRequestType ProtocolIE-ID ::= 388

 id-RAN-TSSScope ProtocolIE-ID ::= 389

 id-ClockQualityReportingControlInfo ProtocolIE-ID ::= 390

 id-RANfeedbacktype ProtocolIE-ID ::= 391

 id-QoSFlowTSCList ProtocolIE-ID ::= 392

 id-TSCTrafficCharacteristicsFeedback ProtocolIE-ID ::= 393

 id-DownlinkTLContainer ProtocolIE-ID ::= 394

 id-UplinkTLContainer ProtocolIE-ID ::= 395

 id-ANPacketDelayBudgetUL ProtocolIE-ID ::= 396

 id-QosFlowAdditionalInfoList ProtocolIE-ID ::= 397

 id-AssistanceInformationQoE-Meas ProtocolIE-ID ::= 398

 id-MBSCommServiceType ProtocolIE-ID ::= 399

 id-MobileIAB-Authorized ProtocolIE-ID ::= 400

 id-IAB-MTUserLocationInformation ProtocolIE-ID ::= 401

 id-MobileIABNodeIndication ProtocolIE-ID ::= 402

 id-NoPDUSessionIndication ProtocolIE-ID ::= 403

 id-MobileIAB-Supported ProtocolIE-ID ::= 404

 id-CN-MT-CommunicationHandling ProtocolIE-ID ::= 405

 id-FiveGCAction ProtocolIE-ID ::= 406

 id-PagingPolicyDifferentiation ProtocolIE-ID ::= 407

 id-DL-Signalling ProtocolIE-ID ::= 408

 id-PNI-NPN-AreaScopeofMDT ProtocolIE-ID ::= 409

 id-PNI-NPNBasedMDT ProtocolIE-ID ::= 410

 id-SNPN-CellBasedMDT ProtocolIE-ID ::= 411

 id-SNPN-TAIBasedMDT ProtocolIE-ID ::= 412

 id-SNPN-BasedMDT ProtocolIE-ID ::= 413

 id-Partially-Allowed-NSSAI ProtocolIE-ID ::= 414

 id-AssociatedSessionID ProtocolIE-ID ::= 415

 id-MBS-AssistanceInformation ProtocolIE-ID ::= 416

 id-BroadcastTransportFailureTransfer ProtocolIE-ID ::= 417

 id-BroadcastTransportRequestTransfer ProtocolIE-ID ::= 418

 id-BroadcastTransportResponseTransfer ProtocolIE-ID ::= 419

 id-TimeBasedHandoverInformation ProtocolIE-ID ::= 420

 id-DLDiscarding ProtocolIE-ID ::= 421

 id-PDUsetQoSParameters ProtocolIE-ID ::= 422

 id-PDUSetbasedHandlingIndicator ProtocolIE-ID ::= 423

 id-N6JitterInformation ProtocolIE-ID ::= 424

 id-ECNMarkingorCongestionInformationReportingRequest ProtocolIE-ID ::= 425

 id-ECNMarkingorCongestionInformationReportingStatus ProtocolIE-ID ::= 426

 id-SLPositioningRangingServiceInfo ProtocolIE-ID ::= xxx

<<<<<<<<<<<<<<<<<<<< End of change >>>>>>>>>>>>>>>>>>>>