**3GPP TSG-RAN3 #110-e R3-207202**

Online, November 2nd – November 13th 2020

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.413** | **CR** | **1799** | **rev** |  | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Enabling URI configuration within Trace Activation over S1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_SON\_MDT-CORE | | | | |  | ***Date:*** | | | 2020-11-11 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12) Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To enable the URI confiugation in the Trace Activattion IE over the S1 interface | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | In this contribution we make a proposal to enable the URI confiugation in the Trace Activattion IE over the S1 interface, which has been confirmed by SA5 to be already supported in their specifications  Impact Analysis  This CR has limited functional impact. The CR has limited ASN.1 impacts. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | There is inconsistency between the RAN3 andSA5 specifications and it is not possible to enable the URI confiugation in the Trace Activattion IE over the S1 interface | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.2.1.4, 9.2.2.x (new), 9.3.4, 9.3.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **Y** |  | Other core specifications | | | | TS36.423 CR **1565** | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

#### 9.2.1.4 Trace Activation

Defines parameters related to a trace activation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| E-UTRAN Trace ID | M |  | OCTET STRING (SIZE(8)) | The E-UTRAN Trace ID IE is composed of the following: Trace Reference defined in TS 32.422 [10] (leftmost 6 octets, with PLMN information coded as in 9.2.3.8), and  Trace Recording Session Reference defined in TS 32.422 [10] (last 2 octets). |  |  |
| Interfaces To Trace | M |  | BIT STRING (SIZE(8)) | Each position in the bitmap represents an eNB or en-gNB interface:  first bit =S1-MME, second bit =X2, third bit =Uu, fourth bit =F1-C, fifth bit =E1:  other bits reserved for future use. Value ‘1’ indicates ‘should be traced’. Value ‘0’ indicates ‘should not be traced’. |  |  |
| Trace depth | M |  | ENUMERATED(  minimum, medium, maximum, MinimumWithoutVendorSpecificExtension,  MediumWithoutVendorSpecificExtension,  MaximumWithoutVendorSpecificExtension, …) | Defined in TS 32.422 [10]. |  |  |
| Trace Collection Entity IP Address | M |  | Transport Layer Address 9.2.2.1 | For File based Reporting. Defined in TS 32.422 [10].  This IE is ignored if the *Trace Collection Entity URI* IE is present |  |  |
| MDT Configuration | O |  | 9.2.1.81 |  | YES | ignore |
| UE Application layer measurement configuration | O |  | 9.2.1.128 |  | YES | Ignore |
| MDT Configuration NR | O |  | OCTET STRING | Defined in TS 38.413 [44]. Only the immediate MDT configurations are included in the IE in this version of the specification. | YES | ignore |
| Trace Collection Entity URI | O |  | URI  9.2.2.x | For Streaming based Reporting.  Defined in TS 32.422 [10]  Replaces Trace Collection Entity IP Address if present | YES | ignore |

<<<<<<<<<<<<<<<<<<<< End of 1st Change >>>>>>>>>>>>>>>>>>>>

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<<<<<<<<<<<<<<<<<<<< 2nd Change >>>>>>>>>>>>>>>>>>>>

#### 9.2.2.x URI

This IE is an URI.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| URI | M |  | VisibleString | String representing URI (Uniform Resource Identifier) |

<<<<<<<<<<<<<<<<<<<< End of 2nd Change >>>>>>>>>>>>>>>>>>>>

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<<<<<<<<<<<<<<<<<<<< 3rd Change >>>>>>>>>>>>>>>>>>>>

### 9.3.4 Information Element Definitions

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--

-- Information Element Definitions

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

S1AP-IEs {

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

eps-Access (21) modules (3) s1ap (1) version1 (1) s1ap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-E-RABInformationListItem,

id-E-RABItem,

id-GUMMEIType,

id-Bearers-SubjectToStatusTransfer-Item,

id-Time-Synchronisation-Info,

id-x2TNLConfigurationInfo,

id-eNBX2ExtendedTransportLayerAddresses,

id-MDTConfiguration,

id-Time-UE-StayedInCell-EnhancedGranularity,

id-HO-Cause,

id-M3Configuration,

id-M4Configuration,

id-M5Configuration,

id-MDT-Location-Info,

id-SignallingBasedMDTPLMNList,

id-MobilityInformation,

id-ULCOUNTValueExtended,

id-DLCOUNTValueExtended,

id-ReceiveStatusOfULPDCPSDUsExtended,

id-eNBIndirectX2TransportLayerAddresses,

id-Muting-Availability-Indication,

id-Muting-Pattern-Information,

id-NRrestrictioninEPSasSecondaryRAT,

id-NRrestrictionin5GS,

id-Synchronisation-Information,

id-uE-HistoryInformationFromTheUE,

id-LoggedMBSFNMDT,

id-SON-Information-Report,

id-RecommendedCellItem,

id-RecommendedENBItem,

id-ProSeUEtoNetworkRelaying,

id-ULCOUNTValuePDCP-SNlength18,

id-DLCOUNTValuePDCP-SNlength18,

id-ReceiveStatusOfULPDCPSDUsPDCP-SNlength18,

id-M6Configuration,

id-M7Configuration,

id-RAT-Type,

id-extended-e-RAB-MaximumBitrateDL,

id-extended-e-RAB-MaximumBitrateUL,

id-extended-e-RAB-GuaranteedBitrateDL,

id-extended-e-RAB-GuaranteedBitrateUL,

id-extended-uEaggregateMaximumBitRateDL,

id-extended-uEaggregateMaximumBitRateUL,

id-SecondaryRATDataUsageReportItem,

id-E-RABUsageReportItem,

id-UEAppLayerMeasConfig,

id-serviceType,

id-UnlicensedSpectrumRestriction,

id-CNTypeRestrictions,

id-DownlinkPacketLossRate,

id-UplinkPacketLossRate,

id-BluetoothMeasurementConfiguration,

id-WLANMeasurementConfiguration,

id-LastNG-RANPLMNIdentity,

id-PSCellInformation,

id-IMSvoiceEPSfallbackfrom5G,

id-RequestTypeAdditionalInfo,

id-AdditionalRRMPriorityIndex,

id-ContextatSource,

id-IntersystemMeasurementConfiguration,

id-SourceNodeID,

id-NB-IoT-RLF-Report-Container,

id-MDTConfigurationNR,

id-DAPSRequestInfo,

id-DAPSResponseInfoList,

id-DAPSResponseInfoItem,

id-Bearers-SubjectToEarlyStatusTransfer-Item,

id-TraceCollectionEntityURI,

maxnoofCSGs,

maxnoofE-RABs,

maxnoofErrors,

maxnoofBPLMNs,

maxnoofPLMNsPerMME,

maxnoofTACs,

maxnoofEPLMNs,

maxnoofEPLMNsPlusOne,

maxnoofForbLACs,

maxnoofForbTACs,

maxnoofCellsinUEHistoryInfo,

maxnoofCellID,

maxnoofDCNs,

maxnoofEmergencyAreaID,

maxnoofTAIforWarning,

maxnoofCellinTAI,

maxnoofCellinEAI,

maxnoofeNBX2TLAs,

maxnoofeNBX2ExtTLAs,

maxnoofeNBX2GTPTLAs,

maxnoofRATs,

maxnoofGroupIDs,

maxnoofMMECs,

maxnoofTAforMDT,

maxnoofCellIDforMDT,

maxnoofMDTPLMNs,

maxnoofCellsforRestart,

maxnoofRestartTAIs,

maxnoofRestartEmergencyAreaIDs,

maxnoofMBSFNAreaMDT,

maxEARFCN,

maxnoofCellsineNB,

maxnoofRecommendedCells,

maxnoofRecommendedENBs,

maxnooftimeperiods,

maxnoofCellIDforQMC,

maxnoofTAforQMC,

maxnoofPLMNforQMC,

maxnoofBluetoothName,

maxnoofWLANName,

maxnoofConnectedengNBs,

maxnoofPC5QoSFlows,

maxnooffrequencies,

maxNARFCN,

maxRS-IndexCellQual

FROM S1AP-Constants

<<<<<<<<<<<<<<<<<<<< End of 3rd Change >>>>>>>>>>>>>>>>>>>>

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<<<<<<<<<<<<<<<<<<<< 4th Change >>>>>>>>>>>>>>>>>>>>

TraceActivation ::= SEQUENCE {

e-UTRAN-Trace-ID E-UTRAN-Trace-ID,

interfacesToTrace InterfacesToTrace,

traceDepth TraceDepth,

traceCollectionEntityIPAddress TransportLayerAddress,

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

...

}

TraceActivation-ExtIEs S1AP-PROTOCOL-EXTENSION ::= {

-- Extension for Rel-10 to support MDT --

{ ID id-MDTConfiguration CRITICALITY ignore EXTENSION MDT-Configuration PRESENCE optional }|

-- Extension for Rel-15 to support QMC –

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

{ ID id-MDTConfigurationNR CRITICALITY ignore EXTENSION MDT-ConfigurationNR PRESENCE optional }|

{ ID id-TraceCollectionEntityURI CRITICALITY ignore EXTENSION URI\_address PRESENCE optional },

...

}

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URI\_address ::= VisibleString

UserLocationInformation ::= SEQUENCE {

eutran-cgi EUTRAN-CGI,

tai TAI,

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

...

}

UserLocationInformation-ExtIEs S1AP-PROTOCOL-EXTENSION ::= {

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

...

}

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### 9.3.6 Constant Definitions

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

--

-- Constant definitions

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

S1AP-Constants {

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

eps-Access (21) modules (3) s1ap (1) version1 (1) s1ap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

--

-- IE parameter types from other modules.

--

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

IMPORTS

ProcedureCode,

ProtocolIE-ID

FROM S1AP-CommonDataTypes;

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

--

-- Elementary Procedures

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

id-HandoverPreparation ProcedureCode ::= 0

id-HandoverResourceAllocation ProcedureCode ::= 1

id-HandoverNotification ProcedureCode ::= 2

id-PathSwitchRequest ProcedureCode ::= 3

id-HandoverCancel ProcedureCode ::= 4

id-E-RABSetup ProcedureCode ::= 5

id-E-RABModify ProcedureCode ::= 6

id-E-RABRelease ProcedureCode ::= 7

id-E-RABReleaseIndication ProcedureCode ::= 8

id-InitialContextSetup ProcedureCode ::= 9

id-Paging ProcedureCode ::= 10

id-downlinkNASTransport ProcedureCode ::= 11

id-initialUEMessage ProcedureCode ::= 12

id-uplinkNASTransport ProcedureCode ::= 13

id-Reset ProcedureCode ::= 14

id-ErrorIndication ProcedureCode ::= 15

id-NASNonDeliveryIndication ProcedureCode ::= 16

id-S1Setup ProcedureCode ::= 17

id-UEContextReleaseRequest ProcedureCode ::= 18

id-DownlinkS1cdma2000tunnelling ProcedureCode ::= 19

id-UplinkS1cdma2000tunnelling ProcedureCode ::= 20

id-UEContextModification ProcedureCode ::= 21

id-UECapabilityInfoIndication ProcedureCode ::= 22

id-UEContextRelease ProcedureCode ::= 23

id-eNBStatusTransfer ProcedureCode ::= 24

id-MMEStatusTransfer ProcedureCode ::= 25

id-DeactivateTrace ProcedureCode ::= 26

id-TraceStart ProcedureCode ::= 27

id-TraceFailureIndication ProcedureCode ::= 28

id-ENBConfigurationUpdate ProcedureCode ::= 29

id-MMEConfigurationUpdate ProcedureCode ::= 30

id-LocationReportingControl ProcedureCode ::= 31

id-LocationReportingFailureIndication ProcedureCode ::= 32

id-LocationReport ProcedureCode ::= 33

id-OverloadStart ProcedureCode ::= 34

id-OverloadStop ProcedureCode ::= 35

id-WriteReplaceWarning ProcedureCode ::= 36

id-eNBDirectInformationTransfer ProcedureCode ::= 37

id-MMEDirectInformationTransfer ProcedureCode ::= 38

id-PrivateMessage ProcedureCode ::= 39

id-eNBConfigurationTransfer ProcedureCode ::= 40

id-MMEConfigurationTransfer ProcedureCode ::= 41

id-CellTrafficTrace ProcedureCode ::= 42

id-Kill ProcedureCode ::= 43

id-downlinkUEAssociatedLPPaTransport ProcedureCode ::= 44

id-uplinkUEAssociatedLPPaTransport ProcedureCode ::= 45

id-downlinkNonUEAssociatedLPPaTransport ProcedureCode ::= 46

id-uplinkNonUEAssociatedLPPaTransport ProcedureCode ::= 47

id-UERadioCapabilityMatch ProcedureCode ::= 48

id-PWSRestartIndication ProcedureCode ::= 49

id-E-RABModificationIndication ProcedureCode ::= 50

id-PWSFailureIndication ProcedureCode ::= 51

id-RerouteNASRequest ProcedureCode ::= 52

id-UEContextModificationIndication ProcedureCode ::= 53

id-ConnectionEstablishmentIndication ProcedureCode ::= 54

id-UEContextSuspend ProcedureCode ::= 55

id-UEContextResume ProcedureCode ::= 56

id-NASDeliveryIndication ProcedureCode ::= 57

id-RetrieveUEInformation ProcedureCode ::= 58

id-UEInformationTransfer ProcedureCode ::= 59

id-eNBCPRelocationIndication ProcedureCode ::= 60

id-MMECPRelocationIndication ProcedureCode ::= 61

id-SecondaryRATDataUsageReport ProcedureCode ::= 62

id-UERadioCapabilityIDMapping ProcedureCode ::= 63

id-HandoverSuccess ProcedureCode ::= 64

id-eNBEarlyStatusTransfer ProcedureCode ::= 65

id-MMEEarlyStatusTransfer ProcedureCode ::= 66

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

--

-- Extension constants

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

maxPrivateIEs INTEGER ::= 65535

maxProtocolExtensions INTEGER ::= 65535

maxProtocolIEs INTEGER ::= 65535

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

--

-- Lists

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

maxnoofCSGs INTEGER ::= 256

maxnoofE-RABs INTEGER ::= 256

maxnoofTAIs INTEGER ::= 256

maxnoofTACs INTEGER ::= 256

maxnoofErrors INTEGER ::= 256

maxnoofBPLMNs INTEGER ::= 6

maxnoofPLMNsPerMME INTEGER ::= 32

maxnoofEPLMNs INTEGER ::= 15

maxnoofEPLMNsPlusOne INTEGER ::= 16

maxnoofForbLACs INTEGER ::= 4096

maxnoofForbTACs INTEGER ::= 4096

maxnoofIndividualS1ConnectionsToReset INTEGER ::= 256

maxnoofCellsinUEHistoryInfo INTEGER ::= 16

maxnoofCellsineNB INTEGER ::= 256

maxnoofTAIforWarning INTEGER ::= 65535

maxnoofCellID INTEGER ::= 65535

maxnoofDCNs INTEGER ::= 32

maxnoofEmergencyAreaID INTEGER ::= 65535

maxnoofCellinTAI INTEGER ::= 65535

maxnoofCellinEAI INTEGER ::= 65535

maxnoofeNBX2TLAs INTEGER ::= 2

maxnoofeNBX2ExtTLAs INTEGER ::= 16

maxnoofeNBX2GTPTLAs INTEGER ::= 16

maxnoofRATs INTEGER ::= 8

maxnoofGroupIDs INTEGER ::= 65535

maxnoofMMECs INTEGER ::= 256

maxnoofCellIDforMDT INTEGER ::= 32

maxnoofTAforMDT INTEGER ::= 8

maxnoofMDTPLMNs INTEGER ::= 16

maxnoofCellsforRestart INTEGER ::= 256

maxnoofRestartTAIs INTEGER ::= 2048

maxnoofRestartEmergencyAreaIDs INTEGER ::= 256

maxEARFCN INTEGER ::= 262143

maxnoofMBSFNAreaMDT INTEGER ::= 8

maxnoofRecommendedCells INTEGER ::= 16

maxnoofRecommendedENBs INTEGER ::= 16

maxnooftimeperiods INTEGER ::= 2

maxnoofCellIDforQMC INTEGER ::= 32

maxnoofTAforQMC INTEGER ::= 8

maxnoofPLMNforQMC INTEGER ::= 16

maxnoofBluetoothName INTEGER ::= 4

maxnoofWLANName INTEGER ::= 4

maxnoofConnectedengNBs INTEGER ::= 256

maxnoofPC5QoSFlows INTEGER ::= 2048

maxnooffrequencies INTEGER ::= 64

maxNARFCN INTEGER ::= 32

maxRS-IndexCellQual INTEGER ::= 16

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

--

-- IEs

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

id-MME-UE-S1AP-ID ProtocolIE-ID ::= 0

id-HandoverType ProtocolIE-ID ::= 1

id-Cause ProtocolIE-ID ::= 2

id-SourceID ProtocolIE-ID ::= 3

id-TargetID ProtocolIE-ID ::= 4

id-eNB-UE-S1AP-ID ProtocolIE-ID ::= 8

id-E-RABSubjecttoDataForwardingList ProtocolIE-ID ::= 12

id-E-RABtoReleaseListHOCmd ProtocolIE-ID ::= 13

id-E-RABDataForwardingItem ProtocolIE-ID ::= 14

id-E-RABReleaseItemBearerRelComp ProtocolIE-ID ::= 15

id-E-RABToBeSetupListBearerSUReq ProtocolIE-ID ::= 16

id-E-RABToBeSetupItemBearerSUReq ProtocolIE-ID ::= 17

id-E-RABAdmittedList ProtocolIE-ID ::= 18

id-E-RABFailedToSetupListHOReqAck ProtocolIE-ID ::= 19

id-E-RABAdmittedItem ProtocolIE-ID ::= 20

id-E-RABFailedtoSetupItemHOReqAck ProtocolIE-ID ::= 21

id-E-RABToBeSwitchedDLList ProtocolIE-ID ::= 22

id-E-RABToBeSwitchedDLItem ProtocolIE-ID ::= 23

id-E-RABToBeSetupListCtxtSUReq ProtocolIE-ID ::= 24

id-TraceActivation ProtocolIE-ID ::= 25

id-NAS-PDU ProtocolIE-ID ::= 26

id-E-RABToBeSetupItemHOReq ProtocolIE-ID ::= 27

id-E-RABSetupListBearerSURes ProtocolIE-ID ::= 28

id-E-RABFailedToSetupListBearerSURes ProtocolIE-ID ::= 29

id-E-RABToBeModifiedListBearerModReq ProtocolIE-ID ::= 30

id-E-RABModifyListBearerModRes ProtocolIE-ID ::= 31

id-E-RABFailedToModifyList ProtocolIE-ID ::= 32

id-E-RABToBeReleasedList ProtocolIE-ID ::= 33

id-E-RABFailedToReleaseList ProtocolIE-ID ::= 34

id-E-RABItem ProtocolIE-ID ::= 35

id-E-RABToBeModifiedItemBearerModReq ProtocolIE-ID ::= 36

id-E-RABModifyItemBearerModRes ProtocolIE-ID ::= 37

id-E-RABReleaseItem ProtocolIE-ID ::= 38

id-E-RABSetupItemBearerSURes ProtocolIE-ID ::= 39

id-SecurityContext ProtocolIE-ID ::= 40

id-HandoverRestrictionList ProtocolIE-ID ::= 41

id-UEPagingID ProtocolIE-ID ::= 43

id-pagingDRX ProtocolIE-ID ::= 44

id-TAIList ProtocolIE-ID ::= 46

id-TAIItem ProtocolIE-ID ::= 47

id-E-RABFailedToSetupListCtxtSURes ProtocolIE-ID ::= 48

id-E-RABReleaseItemHOCmd ProtocolIE-ID ::= 49

id-E-RABSetupItemCtxtSURes ProtocolIE-ID ::= 50

id-E-RABSetupListCtxtSURes ProtocolIE-ID ::= 51

id-E-RABToBeSetupItemCtxtSUReq ProtocolIE-ID ::= 52

id-E-RABToBeSetupListHOReq ProtocolIE-ID ::= 53

id-GERANtoLTEHOInformationRes ProtocolIE-ID ::= 55

id-UTRANtoLTEHOInformationRes ProtocolIE-ID ::= 57

id-CriticalityDiagnostics ProtocolIE-ID ::= 58

id-Global-ENB-ID ProtocolIE-ID ::= 59

id-eNBname ProtocolIE-ID ::= 60

id-MMEname ProtocolIE-ID ::= 61

id-ServedPLMNs ProtocolIE-ID ::= 63

id-SupportedTAs ProtocolIE-ID ::= 64

id-TimeToWait ProtocolIE-ID ::= 65

id-uEaggregateMaximumBitrate ProtocolIE-ID ::= 66

id-TAI ProtocolIE-ID ::= 67

id-E-RABReleaseListBearerRelComp ProtocolIE-ID ::= 69

id-cdma2000PDU ProtocolIE-ID ::= 70

id-cdma2000RATType ProtocolIE-ID ::= 71

id-cdma2000SectorID ProtocolIE-ID ::= 72

id-SecurityKey ProtocolIE-ID ::= 73

id-UERadioCapability ProtocolIE-ID ::= 74

id-GUMMEI-ID ProtocolIE-ID ::= 75

id-E-RABInformationListItem ProtocolIE-ID ::= 78

id-Direct-Forwarding-Path-Availability ProtocolIE-ID ::= 79

id-UEIdentityIndexValue ProtocolIE-ID ::= 80

id-cdma2000HOStatus ProtocolIE-ID ::= 83

id-cdma2000HORequiredIndication ProtocolIE-ID ::= 84

id-E-UTRAN-Trace-ID ProtocolIE-ID ::= 86

id-RelativeMMECapacity ProtocolIE-ID ::= 87

id-SourceMME-UE-S1AP-ID ProtocolIE-ID ::= 88

id-Bearers-SubjectToStatusTransfer-Item ProtocolIE-ID ::= 89

id-eNB-StatusTransfer-TransparentContainer ProtocolIE-ID ::= 90

id-UE-associatedLogicalS1-ConnectionItem ProtocolIE-ID ::= 91

id-ResetType ProtocolIE-ID ::= 92

id-UE-associatedLogicalS1-ConnectionListResAck ProtocolIE-ID ::= 93

id-E-RABToBeSwitchedULItem ProtocolIE-ID ::= 94

id-E-RABToBeSwitchedULList ProtocolIE-ID ::= 95

id-S-TMSI ProtocolIE-ID ::= 96

id-cdma2000OneXRAND ProtocolIE-ID ::= 97

id-RequestType ProtocolIE-ID ::= 98

id-UE-S1AP-IDs ProtocolIE-ID ::= 99

id-EUTRAN-CGI ProtocolIE-ID ::= 100

id-OverloadResponse ProtocolIE-ID ::= 101

id-cdma2000OneXSRVCCInfo ProtocolIE-ID ::= 102

id-E-RABFailedToBeReleasedList ProtocolIE-ID ::= 103

id-Source-ToTarget-TransparentContainer ProtocolIE-ID ::= 104

id-ServedGUMMEIs ProtocolIE-ID ::= 105

id-SubscriberProfileIDforRFP ProtocolIE-ID ::= 106

id-UESecurityCapabilities ProtocolIE-ID ::= 107

id-CSFallbackIndicator ProtocolIE-ID ::= 108

id-CNDomain ProtocolIE-ID ::= 109

id-E-RABReleasedList ProtocolIE-ID ::= 110

id-MessageIdentifier ProtocolIE-ID ::= 111

id-SerialNumber ProtocolIE-ID ::= 112

id-WarningAreaList ProtocolIE-ID ::= 113

id-RepetitionPeriod ProtocolIE-ID ::= 114

id-NumberofBroadcastRequest ProtocolIE-ID ::= 115

id-WarningType ProtocolIE-ID ::= 116

id-WarningSecurityInfo ProtocolIE-ID ::= 117

id-DataCodingScheme ProtocolIE-ID ::= 118

id-WarningMessageContents ProtocolIE-ID ::= 119

id-BroadcastCompletedAreaList ProtocolIE-ID ::= 120

id-Inter-SystemInformationTransferTypeEDT ProtocolIE-ID ::= 121

id-Inter-SystemInformationTransferTypeMDT ProtocolIE-ID ::= 122

id-Target-ToSource-TransparentContainer ProtocolIE-ID ::= 123

id-SRVCCOperationPossible ProtocolIE-ID ::= 124

id-SRVCCHOIndication ProtocolIE-ID ::= 125

id-NAS-DownlinkCount ProtocolIE-ID ::= 126

id-CSG-Id ProtocolIE-ID ::= 127

id-CSG-IdList ProtocolIE-ID ::= 128

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END

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