3GPP TSG-RAN WG3 #129-bis R3-25xxxx

Prague, Czech Republic, 13-17 October 2025

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.473** | **CR** | **-** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Removal of CSI-RS resource configuration to release list | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2025-10-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Once the CSI-RS resource configuration cannot be released before the cell switch, the IE should not be included in the CSI-RS resource configuration. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Remove the *CSI-RS Resource Configuration To Release List* in the *CSI-RS Resource Configuration* IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No signaling support exists for the CSI-RS resource configurations to be released. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.3.1.360, 9.4.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 38.423 CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<<<<<<<<<<<<<<<<<<<< Start of Changes >>>>>>>>>>>>>>>>>>>

#### 9.3.1.360 CSI-RS Resource Configuration

This IE contains the CSI-RS resource configuration used for LTM.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Periodic CSI-RS Resource Configuration To AddModList | O |  | OCTET STRING | Contains the *ltm-NZP-CSI-RS-ResourceToAddModList* as defined in TS 38.331 [8]. |
| Semi Persistent CSI-RS Resource Configuration To AddModList | O |  | OCTET STRING | Contains the *ltm-NZP-CSI-RS-ResourceToAddModList* as defined in TS 38.331 [8]. |

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

### 9.4.5 Information Element Definitions

-- ASN1START

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

--

-- Information Element Definitions

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

F1AP-IEs {

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

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-gNB-CUSystemInformation,

id-HandoverPreparationInformation,

id-TAISliceSupportList,

id-RANAC,

id-BearerTypeChange,

id-Coverage-Modification-Cause,

id-Cell-Direction,

id-Cell-Type,

id-CellGroupConfig,

id-AvailablePLMNList,

id-PDUSessionID,

id-ULPDUSessionAggregateMaximumBitRate,

id-DC-Based-Duplication-Configured,

id-DC-Based-Duplication-Activation,

id-Duplication-Activation,

id-DLPDCPSNLength,

id-ULPDCPSNLength,

id-RLC-Status,

id-MeasurementTimingConfiguration,

id-DRB-Information,

id-QoSFlowMappingIndication,

id-ServingCellMO,

id-RLCMode,

id-ExtendedServedPLMNs-List,

id-ExtendedAvailablePLMN-List,

id-DRX-LongCycleStartOffset,

id-SelectedBandCombinationIndex,

id-SelectedFeatureSetEntryIndex,

id-Ph-InfoSCG,

id-latest-RRC-Version-Enhanced,

id-RequestedBandCombinationIndex,

id-RequestedFeatureSetEntryIndex,

id-DRX-Config,

id-UEAssistanceInformation,

id-PDCCH-BlindDetectionSCG,

id-Requested-PDCCH-BlindDetectionSCG,

id-BPLMN-ID-Info-List,

id-NotificationInformation,

id-TNLAssociationTransportLayerAddressgNBDU,

id-portNumber,

id-AdditionalSIBMessageList,

id-IgnorePRACHConfiguration,

id-CG-Config,

id-Ph-InfoMCG,

id-AggressorgNBSetID,

id-VictimgNBSetID,

id-MeasGapSharingConfig,

id-systemInformationAreaID,

id-areaScope,

id-IntendedTDD-DL-ULConfig,

id-QosMonitoringRequest,

id-BHInfo,

id-IAB-Info-IAB-DU,

id-IAB-Info-IAB-donor-CU,

id-IAB-Barred,

id-SIB12-message,

id-SIB13-message,

id-SIB14-message,

id-UEAssistanceInformationEUTRA,

id-SL-PHY-MAC-RLC-Config,

id-SL-ConfigDedicatedEUTRA-Info,

id-AlternativeQoSParaSetList,

id-CurrentQoSParaSetIndex,

id-CarrierList,

id-ULCarrierList,

id-FrequencyShift7p5khz,

id-SSB-PositionsInBurst,

id-NRPRACHConfig,

id-TDD-UL-DLConfigCommonNR,

id-CNPacketDelayBudgetDownlink,

id-CNPacketDelayBudgetUplink,

id-ExtendedPacketDelayBudget,

id-TSCTrafficCharacteristics,

id-AdditionalPDCPDuplicationTNL-List,

id-RLCDuplicationInformation,

id-AdditionalDuplicationIndication,

id-mdtConfiguration,

id-TraceCollectionEntityURI,

id-NID,

id-NPNSupportInfo,

id-NPNBroadcastInformation,

id-AvailableSNPN-ID-List,

id-SIB10-message,

id-RequestedP-MaxFR2,

id-DLCarrierList,

id-ExtendedTAISliceSupportList,

id-E-CID-MeasurementQuantities-Item,

id-ConfiguredTACIndication,

id-NRCGI,

id-SFN-Offset,

id-TransmissionStopIndicator,

id-SrsFrequency,

id-EstimatedArrivalProbability,

id-Supported-MBS-FSA-ID-List,

id-TRPType,

id-SRSSpatialRelationPerSRSResource,

id-MBS-Broadcast-NeighbourCellList,

id-PDCPTerminatingNodeDLTNLAddrInfo,

id-ENBDLTNLAddress,

id-PRS-Resource-ID,

id-LocationMeasurementInformation,

id-SliceRadioResourceStatus,

id-CompositeAvailableCapacity-SUL,

id-NR-U,

id-NR-U-Channel-List,

id-MIMOPRBusageInformation,

id-IngressNonF1terminatingTopologyIndicator,

id-NonF1terminatingTopologyIndicator,

id-EgressNonF1terminatingTopologyIndicator,

id-rBSetConfiguration,

id-frequency-Domain-HSNA-Configuration-List,

id-child-IAB-Nodes-NA-Resource-List,

id-Parent-IAB-Nodes-NA-Resource-Configuration-List,

id-uL-FreqInfo,

id-uL-Transmission-Bandwidth,

id-dL-FreqInfo,

id-dL-Transmission-Bandwidth,

id-uL-NR-Carrier-List,

id-dL-NR-Carrier-List,

id-nRFreqInfo,

id-transmission-Bandwidth,

id-nR-Carrier-List,

id-permutation,

id-M5ReportAmount,

id-M6ReportAmount,

id-M7ReportAmount,

id-SurvivalTime,

id-PDCMeasurementQuantities-Item,

id-OnDemandPRS,

id-AoA-SearchWindow,

id-ZoAInformation,

id-ARPLocationInfo,

id-ARP-ID,

id-MultipleULAoA,

id-UL-SRS-RSRPP,

id-SRSResourcetype,

id-ExtendedAdditionalPathList,

id-LoS-NLoSInformation,

id-NumberOfTRPRxTEG,

id-NumberOfTRPRxTxTEG,

id-TRPTxTEGAssociation,

id-TRPTEGInformation,

id-TRPRx-TEGInformation,

id-TRPBeamAntennaInformation,

id-Redcap-Bcast-Information,

id-NR-TADV,

id-SDT-MAC-PHY-CG-Config,

id-CG-SDTindicatorSetup,

id-CG-SDTindicatorMod,

id-SDTRLCBearerConfiguration,

id-SRBMappingInfo,

id-DRBMappingInfo,

id-LastUsedCellIndication,

id-Recommended-SSBs-List,

id-SSBs-withinTheCell-tobe-Activated-List,

id-SIB17-message,

id-MUSIM-GapConfig,

id-SIB20-message,

id-pathPower,

id-DU-RX-MT-RX-Extend,

id-DU-TX-MT-TX-Extend,

id-DU-RX-MT-TX-Extend,

id-DU-TX-MT-RX-Extend,

id-TAINSAGSupportList,

id-SL-RLC-ChannelToAddModList,

id-SIB15-message,

id-InterFrequencyConfig-NoGap,

id-MBSInterestIndication,

id-L571Info,

id-L1151Info,

id-SCS-480,

id-SCS-960,

id-SRSPortIndex,

id-PEISubgroupingSupportIndication,

id-NeedForGapsInfoNR,

id-NeedForGapNCSGInfoNR,

id-NeedForGapNCSGInfoEUTRA,

id-Source-MRB-ID,

id-RedCapIndication,

id-UL-GapFR2-Config,

id-ConfigRestrictInfoDAPS,

id-MulticastF1UContextReferenceCU,

id-TwoPHRModeMCG,

id-TwoPHRModeSCG,

id-ncd-SSB-RedCapInitialBWP-SDT,

id-nrofSymbolsExtended,

id-repetitionFactorExtended,

id-startRBHopping,

id-startRBIndex,

id-transmissionCombn8,

id-ServCellInfoList,

id-Preconfigured-measurement-GAP-Request,

id-BWP-Id,

id-ExtendedResourceSymbolOffset,

id-MusimCapabilityRestrictionIndication,

id-duplicationIndication,

id-dRB-List,

id-ChannelOccupancyTimePercentageUL,

id-RadioResourceStatusNR-U,

id-FiveG-ProSeLayer2Multipath,

id-FiveG-ProSeLayer2UEtoUERelay,

id-FiveG-ProSeLayer2UEtoUERemote,

id-TSCTrafficCharacteristicsFeedback,

id-RANfeedbacktype,

id-Mobile-TRP-LocationInformation,

id-Mobile-IAB-MT-UE-ID,

id-MobileAccessPointLocation,

id-SIB24-message,

id-PDUSetQoSParameters,

id-N6JitterInformation,

id-ECNMarkingorCongestionInformationReportingRequest,

id-ECNMarkingorCongestionInformationReportingStatus,

id-ERedcap-Bcast-Information,

id-NeedForInterruptionInfoNR,

id-SCPAC-Request,

id-MobileIAB-Barred,

id-F1UTunnelNotEstablished,

id-S-CPACLowerLayerReferenceConfigRequest,

id-MusimCandidateBandList,

id-PSIbasedSDUdiscardUL,

id-SIB22-message,

id-U2URLCChannelQoS,

id-SL-PHY-MAC-RLC-ConfigExt,

id-UL-RSCP,

id-BW-Aggregation-Request-Indication,

id-ReportingGranularitykminus1,

id-ReportingGranularitykminus1additionalpath,

id-ReportingGranularitykminus2,

id-ReportingGranularitykminus2additionalpath,

id-ReportingGranularitykminus3,

id-ReportingGranularitykminus3additionalpath,

id-ReportingGranularitykminus4,

id-ReportingGranularitykminus4additionalpath,

id-ReportingGranularitykminus5,

id-ReportingGranularitykminus5additionalpath,

id-ReportingGranularitykminus6,

id-ReportingGranularitykminus6additionalpath,

id-TimingReportingGranularityFactorExtended,

id-PosValidityAreaCellList,

id-SymbolIndex,

id-AggregatedPosSRSResourceIDList,

id-PhaseQuality,

id-PRSBWAggregationRequestInfoList,

id-AggregatedPRSResourceSetList,

id-MeasuredFrequencyHops,

id-TxHoppingConfiguration,

id-AggregatedPosSRSResourceSetList,

id-ValidityAreaSpecificSRSInformation,

id-PeerUE-ID,

id-MeasBasedOnAggregatedResources,

id-SIB23-message,

id-PointA,

id-SCS-SpecificCarrier,

id-NR-PCI,

id-E-CID-MeasuredResultsAssociatedInfoList,

id-XR-Bcast-Information,

id-MaxDataBurstVolume,

id-BarringExemptionforEmerCallInfo,

id-SIB17bis-message,

id-ReportingIntervalIMs,

id-Transmission-Bandwidth-asymmetric,

id-TagIDPointer,

id-LocalOrigin,

id-SRSPosPeriodicConfigHyperSFNIndex,

id-candidatePSCellsToCancel,

id-ValidityAreaSpecificSRSInformationExtended,

id-TCIStatesConfigurationsList,

id-E-CID-AoA-NR-per-TRP,

id-PSIbasedSDUdiscardDL,

id-PduSetDelayBudgetDownlink,

id-PduSetDelayBudgetUplink,

id-PduSetErrorRateDownlink,

id-PduSetErrorRateUplink,

id-MonitoringRequestonAvailableBitrate,

id-MMSID,

id-Indication-of-Bitrate-Adaptation,

id-DLPDUSetInformationMarkingSupportIndication,

id-FiveGProSeLayer3MHUEtoNetworkRelay,

id-FiveGProSeLayer2MHUEtoNetworkRelay,

id-FiveGProSeLayer2MHIntermediateUEtoNetworkRelay,

id-FiveGProSeLayer2MHRemote,

id-LPWUSSubgroupingSupportIndication,

id-SBFD-Frequency-Configuration,

id-SSB-resource-config,

id-NZP-CSI-RS-Resources-Config,

id-SRS-Resource-Configuration,

id-rLFReportFailureType,

id-C-RNTI,

id-OnDemandSIB1,

id-PagingAdaptationIndication,

id-PEISubgroupingSupportIndication-PagingAdaptation,

id-ServingCellMO-Ondemand,

id-LTMgNB-ID,

id-L1ExecutionConditionList,

id-LTMSecurityInformation,

id-RequestforCSI-RSResourceConfigforL1Measure,

id-CSI-RSResourceConfigforL1Measure,

id-CSI-RSResourceConfigforCSIAcquisition,

id-CSIReportConfgforCSIAcquisition,

id-RequestforL1ExecutionCondition,

id-CSI-RSMeasurementsList,

id-LTMResidualTAInfoList,

id-ChannelResponseInformation,

id-UL-SRS-TDCT,

id-PerformanceDelayMonitoring,

maxNRARFCN,

maxnoofErrors,

maxnoofBPLMNs,

maxnoofBPLMNsNR,

maxnoofDLUPTNLInformation,

maxnoofNrCellBands,

maxnoofULUPTNLInformation,

maxnoofQoSFlows,

maxnoofSliceItems,

maxnoofSIBTypes,

maxnoofSITypes,

maxCellineNB,

maxnoofExtendedBPLMNs,

maxnoofAdditionalSIBs,

maxnoofUACPLMNs,

maxnoofUACperPLMN,

maxCellingNBDU,

maxnoofTLAs,

maxnoofGTPTLAs,

maxnoofslots,

maxnoofNonUPTrafficMappings,

maxnoofServingCells,

maxnoofServedCellsIAB,

maxnoofChildIABNodes,

maxnoofIABSTCInfo,

maxnoofDUFSlots,

maxnoofHSNASlots,

maxnoofEgressLinks,

maxnoofMappingEntries,

maxnoofDSInfo,

maxnoofQoSParaSets,

maxnoofPC5QoSFlows,

maxnoofSSBAreas,

maxnoofNRSCSs,

maxnoofPhysicalResourceBlocks,

maxnoofPhysicalResourceBlocks-1,

maxnoofPRACHconfigs,

maxnoofRAReports,

maxnoofRLFReports,

maxnoofAdditionalPDCPDuplicationTNL,

maxnoofRLCDuplicationState,

maxnoofCHOcells,

maxnoofMDTPLMNs,

maxnoofCAGsupported,

maxnoofNIDsupported,

maxnoofExtSliceItems,

maxnoofPosMeas,

maxnoofTRPInfoTypes,

maxnoofSRSTriggerStates,

maxnoofSpatialRelations,

maxnoBcastCell,

maxnoofTRPs,

maxnooflcs-gcs-translation,

maxnoofPath,

maxnoofMeasE-CID,

maxnoofSSBs,

maxnoSRS-ResourceSets,

maxnoSRS-ResourcePerSet,

maxnoSRS-Carriers,

maxnoSCSs,

maxnoSRS-Resources,

maxnoSRS-PosResources,

maxnoSRS-PosResourceSets,

maxnoSRS-PosResourcePerSet,

maxnoofPRS-ResourceSets,

maxnoofPRS-ResourcesPerSet,

maxNoOfMeasTRPs,

maxnoofPRSresourceSets,

maxnoofPRSresources,

maxnoofSuccessfulHOReports,

maxnoofNR-UChannelIDs,

maxServedCellforSON,

maxNeighbourCellforSON,

maxAffectedCells,

maxnoofMBSQoSFlows,

maxnoofMBSFSAs,

maxnoofMBSAreaSessionIDs,

maxnoofMBSServiceAreaInformation,

maxnoofTAIforMBS,

maxnoofCellsforMBS,

maxnoofIABCongInd,

maxnoofBHRLCChannels,

maxnoofTLAsIAB,

maxnoofRBsetsPerCell,

maxnoofRBsetsPerCell-1,

maxnoofNeighbourNodeCellsIAB,

maxnoofMeasPDC,

maxnoARPs,

maxnoofULAoAs,

maxNoPathExtended,

maxnoTRPTEGs,

maxFreqLayers,

maxNumResourcesPerAngle,

maxnoAzimuthAngles,

maxnoElevationAngles,

maxnoofPRSTRPs,

maxnoofQoEInformation,

maxnoofUuRLCChannels,

maxnoofPC5RLCChannels,

maxnoofSMBRValues,

maxnoofMBSSessionsofUE,

maxnoofSLdestinations,

maxnoofNSAGs,

maxnoofSDTBearers,

maxnoofPosSITypes,

maxnoofMRBs,

maxNrofBWPs,

maxnoofUETypes,

maxnoofLTMCells,

maxnoofLTMgNB-DUs,

maxnoofTAList,

maxnoofDRBs,

maxnoofUEsInQMCTransferControlMessage,

maxnoofUEsforRAReportIndications,

maxnoofSuccessfulPSCellChangeReports,

maxnoofPeriodicities,

maxnoofThresholdMBS-1,

maxMBSSessionsinSessionInfoList,

maxnoofLBTFailureInformation,

maxnoofRSPPQoSFlows,

maxnoVACell,

maxnoAggregatedSRS-Resources,

maxnoAggregatedPosSRSResourceSets,

maxnoAggregatedPosPRSResourceSets,

maxnoofTimeWindowSRS,

maxnoofTimeWindowMea,

maxnoPreconfiguredSRS,

maxnoHopsMinusOne,

maxnoAggCombinations,

maxnoAggregatedPosSRSCombinations,

maxnoofCandidateCells,

maxnoofSSBIndices,

maxnoofPreambleIndex,

maxnoofThresholds,

maxnoofNZP-CSI-RS-ResourcesPerSet,

maxnoofSRS-Resources,

maxnoofCellsinUEHistoryInfo,

maxnoofTAs,

maxnoofLTMCSI-RSResourceConfig,

maxnoofCSI-RSs,

maxnoofChannelRes,

maxNeighbourCellReport

FROM F1AP-Constants

Criticality,

ProcedureCode,

ProtocolIE-ID,

TriggeringMessage

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

-- C

CAGID ::= BIT STRING (SIZE(32))

Cancel-all-Warning-Messages-Indicator ::= ENUMERATED {true, ...}

Candidate-SpCell-Item ::= SEQUENCE {

candidate-SpCell-ID NRCGI ,

iE-Extensions ProtocolExtensionContainer { { Candidate-SpCell-ItemExtIEs } } OPTIONAL,

...

}

Candidate-SpCell-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CandidateCellwithBeamInfo ::= SEQUENCE {

nRCGI NRCGI,

sSBIndex SSBIndex,

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

}

CandidateCellwithBeamInfo-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CandidateCellwithBeamInfoList ::= SEQUENCE (SIZE(1..maxnoofCandidateCells)) OF CandidateCellwithBeamInfo-Item

CandidateCellwithBeamInfo-Item ::= SEQUENCE {

nRCGI NRCGI,

sSBIndexList SSBIndexList,

iE-Extensions ProtocolExtensionContainer { { CandidateCellwithBeamInfo-Item-ExtIEs } } OPTIONAL

}

CandidateCellwithBeamInfo-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CandidateCellwithMeasurementsList ::= SEQUENCE (SIZE(1..maxnoofCandidateCells)) OF CandidateCellwithMeasurements-Item

CandidateCellwithMeasurements-Item ::= SEQUENCE {

nRCGI NRCGI,

sSBIndexwithMeasurementsList SSBIndexwithMeasurementsList,

iE-Extensions ProtocolExtensionContainer { { CandidateCellwithMeasurements-Item-ExtIEs } } OPTIONAL

}

CandidateCellwithMeasurements-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-CSI-RSMeasurementsList CRITICALITY ignore EXTENSION CSI-RSMeasurementsList PRESENCE optional },

...

}

CapacityValue::= SEQUENCE {

capacityValue INTEGER (0..100),

sSBAreaCapacityValueList SSBAreaCapacityValueList OPTIONAL,

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

}

CapacityValue-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cause ::= CHOICE {

radioNetwork CauseRadioNetwork,

transport CauseTransport,

protocol CauseProtocol,

misc CauseMisc,

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

}

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

...

}

CauseMisc ::= ENUMERATED {

control-processing-overload,

not-enough-user-plane-processing-resources,

hardware-failure,

om-intervention,

unspecified,

...

}

CauseProtocol ::= ENUMERATED {

transfer-syntax-error,

abstract-syntax-error-reject,

abstract-syntax-error-ignore-and-notify,

message-not-compatible-with-receiver-state,

semantic-error,

abstract-syntax-error-falsely-constructed-message,

unspecified,

...

}

CauseRadioNetwork ::= ENUMERATED {

unspecified,

rl-failure-rlc,

unknown-or-already-allocated-gnb-cu-ue-f1ap-id,

unknown-or-already-allocated-gnb-du-ue-f1ap-id,

unknown-or-inconsistent-pair-of-ue-f1ap-id,

interaction-with-other-procedure,

not-supported-qci-Value,

action-desirable-for-radio-reasons,

no-radio-resources-available,

procedure-cancelled,

normal-release,

...,

cell-not-available,

rl-failure-others,

ue-rejection,

resources-not-available-for-the-slice,

amf-initiated-abnormal-release,

release-due-to-pre-emption,

plmn-not-served-by-the-gNB-CU,

multiple-drb-id-instances,

unknown-drb-id,

multiple-bh-rlc-ch-id-instances,

unknown-bh-rlc-ch-id,

cho-cpc-resources-tobechanged,

nPN-not-supported,

nPN-access-denied,

gNB-CU-Cell-Capacity-Exceeded,

report-characteristics-empty,

existing-measurement-ID,

measurement-temporarily-not-available,

measurement-not-supported-for-the-object,

unknown-bh-address,

unknown-bap-routing-id,

insufficient-ue-capabilities,

scg-activation-deactivation-failure,

scg-deactivation-failure-due-to-data-transmission,

requested-item-not-supported-on-time,

unknown-or-already-allocated-gNB-CU-MBS-F1AP-ID,

unknown-or-already-allocated-gNB-DU-MBS-F1AP-ID,

unknown-or-inconsistent-pair-of-MBS-F1AP-ID,

unknown-or-inconsistent-MRB-ID,

tat-sdt-expiry,

lTM-command-triggered,

sSB-not-available

}

CauseTransport ::= ENUMERATED {

unspecified,

transport-resource-unavailable,

...,

unknown-TNL-address-for-IAB,

unknown-UP-TNL-information-for-IAB

}

CellGroupConfig ::= OCTET STRING

CellCapacityClassValue ::= INTEGER (1..100,...)

Cell-Direction ::= ENUMERATED {dl-only, ul-only}

CellMeasurementResultList ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF CellMeasurementResultItem

CellMeasurementResultItem ::= SEQUENCE {

cellID NRCGI,

radioResourceStatus RadioResourceStatus OPTIONAL,

compositeAvailableCapacityGroup CompositeAvailableCapacityGroup OPTIONAL,

sliceAvailableCapacity SliceAvailableCapacity OPTIONAL,

numberofActiveUEs NumberofActiveUEs OPTIONAL,

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

}

CellMeasurementResultItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-NR-U-Channel-List CRITICALITY ignore EXTENSION NR-U-Channel-List PRESENCE optional },

...

}

Cell-Portion-ID ::= INTEGER (0..4095,...)

CellsForSON-List ::= SEQUENCE (SIZE(1.. maxServedCellforSON)) OF CellsForSON-Item

CellsForSON-Item ::= SEQUENCE {

nRCGI NRCGI,

neighbourNR-CellsForSON-List NeighbourNR-CellsForSON-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellsForSON-Item-ExtIEs} } OPTIONAL,

...

}

CellsForSON-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-Failed-to-be-Activated-List-Item ::= SEQUENCE {

nRCGI NRCGI,

cause Cause,

iE-Extensions ProtocolExtensionContainer { { Cells-Failed-to-be-Activated-List-ItemExtIEs } } OPTIONAL,

...

}

Cells-Failed-to-be-Activated-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-Status-Item ::= SEQUENCE {

nRCGI NRCGI,

service-status Service-Status,

iE-Extensions ProtocolExtensionContainer { { Cells-Status-ItemExtIEs } } OPTIONAL,

...

}

Cells-Status-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-To-Be-Broadcast-Item ::= SEQUENCE {

nRCGI NRCGI,

iE-Extensions ProtocolExtensionContainer { { Cells-To-Be-Broadcast-ItemExtIEs } } OPTIONAL,

...

}

Cells-To-Be-Broadcast-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-Broadcast-Completed-Item ::= SEQUENCE {

nRCGI NRCGI,

iE-Extensions ProtocolExtensionContainer { { Cells-Broadcast-Completed-ItemExtIEs } } OPTIONAL,

...

}

Cells-Broadcast-Completed-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Broadcast-To-Be-Cancelled-Item ::= SEQUENCE {

nRCGI NRCGI,

iE-Extensions ProtocolExtensionContainer { { Broadcast-To-Be-Cancelled-ItemExtIEs } } OPTIONAL,

...

}

Broadcast-To-Be-Cancelled-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-Broadcast-Cancelled-Item ::= SEQUENCE {

nRCGI NRCGI,

numberOfBroadcasts NumberOfBroadcasts,

iE-Extensions ProtocolExtensionContainer { { Cells-Broadcast-Cancelled-ItemExtIEs } } OPTIONAL,

...

}

Cells-Broadcast-Cancelled-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-to-be-Activated-List-Item ::= SEQUENCE {

nRCGI NRCGI,

nRPCI NRPCI OPTIONAL,

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

...

}

Cells-to-be-Activated-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-gNB-CUSystemInformation CRITICALITY reject EXTENSION GNB-CUSystemInformation PRESENCE optional }|

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

{ ID id-ExtendedAvailablePLMN-List CRITICALITY ignore EXTENSION ExtendedAvailablePLMN-List PRESENCE optional }|

{ ID id-IAB-Info-IAB-donor-CU CRITICALITY ignore EXTENSION IAB-Info-IAB-donor-CU PRESENCE optional}|

{ ID id-AvailableSNPN-ID-List CRITICALITY ignore EXTENSION AvailableSNPN-ID-List PRESENCE optional }|

{ ID id-MBS-Broadcast-NeighbourCellList CRITICALITY ignore EXTENSION MBS-Broadcast-NeighbourCellList PRESENCE optional }|

{ ID id-SSBs-withinTheCell-tobe-Activated-List CRITICALITY reject EXTENSION SSBs-toBeActivated-List PRESENCE optional },

...

}

Cells-With-SSBs-Activated-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF Cells-With-SSBs-Activated-List-Item

Cells-With-SSBs-Activated-List-Item::= SEQUENCE {

nRCGI NRCGI,

sSBs-activated-List SSBs-activated-List,

iE-Extensions ProtocolExtensionContainer { { Cells-With-SSBs-Activated-List-Item-ExtIEs} } OPTIONAL

}

Cells-With-SSBs-Activated-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-Allowed-to-be-Deactivated-List-Item ::= SEQUENCE {

nRCGI NRCGI,

iE-Extensions ProtocolExtensionContainer { { Cells-Allowed-to-be-Deactivated-List-ItemExtIEs} } OPTIONAL,

...

}

Cells-Allowed-to-be-Deactivated-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-to-be-Deactivated-List-Item ::= SEQUENCE {

nRCGI NRCGI ,

iE-Extensions ProtocolExtensionContainer { { Cells-to-be-Deactivated-List-ItemExtIEs } } OPTIONAL,

...

}

Cells-to-be-Deactivated-List-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Cells-to-be-Barred-Item::= SEQUENCE {

nRCGI NRCGI ,

cellBarred CellBarred,

iE-Extensions ProtocolExtensionContainer { { Cells-to-be-Barred-Item-ExtIEs } } OPTIONAL

}

Cells-to-be-Barred-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-IAB-Barred CRITICALITY ignore EXTENSION IAB-Barred PRESENCE optional }|

{ ID id-MobileIAB-Barred CRITICALITY ignore EXTENSION MobileIAB-Barred PRESENCE optional },

...

}

CellBarred ::= ENUMERATED {barred, not-barred, ...}

CellSize ::= ENUMERATED {verysmall, small, medium, large, ...}

CellToReportList ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF CellToReportItem

CellToReportItem ::= SEQUENCE {

cellID NRCGI,

sSBToReportList SSBToReportList OPTIONAL,

sliceToReportList SliceToReportList OPTIONAL,

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

}

CellToReportItem-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CellType ::= SEQUENCE {

cellSize CellSize,

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

...

}

CellType-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CellULConfigured ::= ENUMERATED {none, ul, sul, ul-and-sul, ...}

CG-SDTQueryIndication ::= ENUMERATED {true, ...}

CG-SDTKeptIndicator ::= ENUMERATED {true, ...}

CG-SDTindicatorSetup ::= ENUMERATED {true, ...}

CG-SDTindicatorMod ::= ENUMERATED {true, false, ...}

CG-SDTSessionInfo ::= SEQUENCE {

gNB-CU-UE-F1AP-ID GNB-CU-UE-F1AP-ID,

gNB-DU-UE-F1AP-ID GNB-DU-UE-F1AP-ID,

iE-Extensions ProtocolExtensionContainer {{CG-SDTSessionInfo-ExtIEs}} OPTIONAL,

...

}

CG-SDTSessionInfo-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

ChannelOccupancyTimePercentage ::= INTEGER (0..100,...)

ChannelResponseInformation ::= SEQUENCE {

channelResponseWindowSize ENUMERATED {ws32, ws64, ws128, ...},

channelResponseNumber ENUMERATED {n8, n16, n24, ...},

iE-Extension ProtocolExtensionContainer { { ChannelResponseInformation-ExtIEs} } OPTIONAL,

...

}

ChannelResponseInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Child-IAB-Nodes-NA-Resource-List ::= SEQUENCE (SIZE(1..maxnoofChildIABNodes)) OF Child-IAB-Nodes-NA-Resource-List-Item

Child-IAB-Nodes-NA-Resource-List-Item::= SEQUENCE {

gNB-CU-UE-F1AP-ID GNB-CU-UE-F1AP-ID,

gNB-DU-UE-F1AP-ID GNB-DU-UE-F1AP-ID,

nA-Resource-Configuration-List NA-Resource-Configuration-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { Child-IAB-Nodes-NA-Resource-List-Item-ExtIEs} } OPTIONAL

}

Child-IAB-Nodes-NA-Resource-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Child-Node-Cells-List ::= SEQUENCE (SIZE(1..maxnoofChildIABNodes)) OF Child-Node-Cells-List-Item

Child-Node-Cells-List-Item ::= SEQUENCE{

nRCGI NRCGI,

iAB-DU-Cell-Resource-Configuration-Mode-Info IAB-DU-Cell-Resource-Configuration-Mode-Info OPTIONAL,

iAB-STC-Info IAB-STC-Info OPTIONAL,

rACH-Config-Common RACH-Config-Common OPTIONAL,

rACH-Config-Common-IAB RACH-Config-Common-IAB OPTIONAL,

cSI-RS-Configuration OCTET STRING OPTIONAL,

sR-Configuration OCTET STRING OPTIONAL,

pDCCH-ConfigSIB1 OCTET STRING OPTIONAL,

sCS-Common OCTET STRING OPTIONAL,

multiplexingInfo MultiplexingInfo OPTIONAL,

iE-Extensions ProtocolExtensionContainer {{Child-Node-Cells-List-Item-ExtIEs}} OPTIONAL

}

Child-Node-Cells-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

Child-Nodes-List ::= SEQUENCE (SIZE(1..maxnoofChildIABNodes)) OF Child-Nodes-List-Item

Child-Nodes-List-Item ::= SEQUENCE{

gNB-CU-UE-F1AP-ID GNB-CU-UE-F1AP-ID,

gNB-DU-UE-F1AP-ID GNB-DU-UE-F1AP-ID,

child-Node-Cells-List Child-Node-Cells-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer {{Child-Nodes-List-Item-ExtIEs}} OPTIONAL

}

Child-Nodes-List-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CHOtrigger-InterDU ::= ENUMERATED {

cho-initiation,

cho-replace,

...

}

CHOtrigger-IntraDU ::= ENUMERATED {

cho-initiation,

cho-replace,

cho-cancel,

...

}

CLI-MeasurementResult-List ::= SEQUENCE (SIZE(1.. maxCellingNBDU)) OF CLI-MeasurementResult-Item

CLI-MeasurementResult-Item ::= SEQUENCE {

cellID NRCGI,

ssbIndex INTEGER(0..63,...) OPTIONAL,

nZP-CSI-RS-ResourceIndication INTEGER(1..64,...) OPTIONAL,

cLI-MitigationIndication CLI-MitigationIndication OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CLI-MeasurementResult-Item-ExtIEs} } OPTIONAL,

...

}

CLI-MeasurementResult-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CLI-MitigationIndication ::= ENUMERATED {true,...}

CNSubgroupID ::= INTEGER (0..7, ...)

CNSubgroupID-LP-WUS ::= INTEGER (0..30, ...)

CNUEPagingIdentity ::= CHOICE {

fiveG-S-TMSI BIT STRING (SIZE(48)),

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

}

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

...

}

CompositeAvailableCapacityGroup ::= SEQUENCE {

compositeAvailableCapacityDownlink CompositeAvailableCapacity,

compositeAvailableCapacityUplink CompositeAvailableCapacity,

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

}

CompositeAvailableCapacityGroup-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-CompositeAvailableCapacity-SUL CRITICALITY ignore EXTENSION CompositeAvailableCapacity PRESENCE optional },

...

}

CompositeAvailableCapacity ::= SEQUENCE {

cellCapacityClassValue CellCapacityClassValue OPTIONAL,

capacityValue CapacityValue,

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

}

CompositeAvailableCapacity-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CHO-Probability ::= INTEGER (1..100)

ConditionalInterDUMobilityInformation ::= SEQUENCE {

cho-trigger CHOtrigger-InterDU,

targetgNB-DUUEF1APID GNB-DU-UE-F1AP-ID OPTIONAL

-- The above IE shall be present if the cho-trigger IE is present and set to "cho-replace" --,

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

...

}

ConditionalInterDUMobilityInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::={

{ ID id-EstimatedArrivalProbability CRITICALITY ignore EXTENSION CHO-Probability PRESENCE optional }|

{ ID id-SCPAC-Request CRITICALITY reject EXTENSION SCPAC-Request PRESENCE optional }|

{ ID id-S-CPACLowerLayerReferenceConfigRequest CRITICALITY reject EXTENSION S-CPACLowerLayerReferenceConfigRequest PRESENCE optional },

...

}

ConditionalIntraDUMobilityInformation ::= SEQUENCE {

cho-trigger CHOtrigger-IntraDU,

targetCellsTocancel TargetCellList OPTIONAL,

-- The above IE shall be present if the cho-trigger IE is present and set to "cho-cancel"

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

...

}

ConditionalIntraDUMobilityInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::={

{ ID id-EstimatedArrivalProbability CRITICALITY ignore EXTENSION CHO-Probability PRESENCE optional }|

{ ID id-SCPAC-Request CRITICALITY reject EXTENSION SCPAC-Request PRESENCE optional }|

{ ID id-S-CPACLowerLayerReferenceConfigRequest CRITICALITY reject EXTENSION S-CPACLowerLayerReferenceConfigRequest PRESENCE optional },

...

}

ConfigRestrictInfoDAPS ::= OCTET STRING

ConfiguredTACIndication ::= ENUMERATED {

true,

...

}

Configured-BWP-List ::= SEQUENCE (SIZE(1.. maxNrofBWPs)) OF Configured-BWP-Item

Configured-BWP-Item ::= SEQUENCE {

bWP-Id BWP-Id,

bWP-Location-and-bandwidth INTEGER (0..37949),

iE-Extensions ProtocolExtensionContainer { { Configured-BWP-Item-ExtIEs } } OPTIONAL,

...

}

Configured-BWP-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CoordinateID ::= INTEGER (0..511, ...)

Coverage-Modification-Notification ::= SEQUENCE {

coverage-Modification-List Coverage-Modification-List,

iE-Extensions ProtocolExtensionContainer { { Coverage-Modification-Notification-ExtIEs} } OPTIONAL,

...

}

Coverage-Modification-Notification-ExtIEs F1AP-PROTOCOL-EXTENSION ::={

...

}

Coverage-Modification-List ::= SEQUENCE (SIZE (1..maxCellingNBDU)) OF Coverage-Modification-Item

Coverage-Modification-Item ::= SEQUENCE {

nRCGI NRCGI,

cellCoverageState CellCoverageState,

sSBCoverageModificationList SSBCoverageModification-List OPTIONAL,

iE-Extension ProtocolExtensionContainer { { Coverage-Modification-Item-ExtIEs} } OPTIONAL,

...

}

Coverage-Modification-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-Coverage-Modification-Cause CRITICALITY ignore EXTENSION CCO-issue-detection PRESENCE optional },

...

}

CellCoverageState ::= INTEGER (0..63, ...)

CCO-Assistance-Information ::= SEQUENCE {

cCO-issue-detection CCO-issue-detection OPTIONAL,

affectedCellsAndBeams-List AffectedCellsAndBeams-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CCO-Assistance-Information-ExtIEs} } OPTIONAL,

...

}

CCO-Assistance-Information-ExtIEs F1AP-PROTOCOL-EXTENSION ::={

...

}

CCO-issue-detection ::= ENUMERATED {

coverage,

cell-edge-capacity,

...,

network-energy-saving}

CP-TransportLayerAddress ::= CHOICE {

endpoint-IP-address TransportLayerAddress,

endpoint-IP-address-and-port Endpoint-IP-address-and-port,

choice-extension ProtocolIE-SingleContainer { { CP-TransportLayerAddress-ExtIEs } }

}

CP-TransportLayerAddress-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

CPACMCGInformation ::= SEQUENCE {

cpac-trigger CPAC-trigger,

pscellid NRCGI,

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

...

}

CPACMCGInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-candidatePSCellsToCancel CRITICALITY ignore EXTENSION PSCellList PRESENCE optional },

-- The above IE shall be present if the cpac-trigger IE is present and set to "cpac-cancel"

...

}

CPAC-trigger ::= ENUMERATED {

cpac-preparation,

cpac-executed,

... ,

cpac-cancel

}

CPTrafficType ::= INTEGER (1..3,...)

CriticalityDiagnostics ::= SEQUENCE {

procedureCode ProcedureCode OPTIONAL,

triggeringMessage TriggeringMessage OPTIONAL,

procedureCriticality Criticality OPTIONAL,

transactionID TransactionID OPTIONAL,

iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,

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

...

}

CriticalityDiagnostics-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1.. maxnoofErrors)) OF CriticalityDiagnostics-IE-Item

CriticalityDiagnostics-IE-Item ::= SEQUENCE {

iECriticality Criticality,

iE-ID ProtocolIE-ID,

typeOfError TypeOfError,

iE-Extensions ProtocolExtensionContainer {{CriticalityDiagnostics-IE-Item-ExtIEs}} OPTIONAL,

...

}

CriticalityDiagnostics-IE-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

C-RNTI ::= INTEGER (0..65535, ...)

CUDURadioInformationType ::= CHOICE {

rIM CUDURIMInformation,

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

}

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

...

}

CUDURIMInformation ::= SEQUENCE {

victimgNBSetID GNBSetID,

rIMRSDetectionStatus RIMRSDetectionStatus,

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

}

CUDURIMInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CUtoDURRCInformation ::= SEQUENCE {

cG-ConfigInfo CG-ConfigInfo OPTIONAL,

uE-CapabilityRAT-ContainerList UE-CapabilityRAT-ContainerList OPTIONAL,

measConfig MeasConfig OPTIONAL,

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

...

}

CUtoDURRCInformation-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

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

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

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

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

{ ID id-CG-Config CRITICALITY ignore EXTENSION CG-Config PRESENCE optional }|

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

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

{ ID id-MUSIM-GapConfig CRITICALITY reject EXTENSION MUSIM-GapConfig PRESENCE optional }|

{ ID id-SDT-MAC-PHY-CG-Config CRITICALITY ignore EXTENSION SDT-MAC-PHY-CG-Config PRESENCE optional }|

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

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

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

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

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

{ ID id-Preconfigured-measurement-GAP-Request CRITICALITY ignore EXTENSION Preconfigured-measurement-GAP-Request PRESENCE optional }|

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

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

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

...

}

CUtoDUTAInformation-List ::= SEQUENCE (SIZE(1.. maxnoofTAList)) OF CUtoDUTAInformation-Item

CUtoDUTAInformation-Item ::= SEQUENCE {

nRCGI NRCGI,

tAValue TAValue,

preambleIndex PreambleIndex,

rA-RNTI RA-RNTI,

tagIDPointer TagIDPointer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CUtoDUTAInformation-Item-ExtIEs} } OPTIONAL,

...

}

CUtoDUTAInformation-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CSIResourceConfiguration ::= SEQUENCE {

cSIResourceConfigToAddModList OCTET STRING OPTIONAL,

cSIResourceConfigToReleaseList OCTET STRING OPTIONAL,

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

}

CSIResourceConfiguration-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSResourceConfig ::= SEQUENCE {

periodicCSI-RSResourceConfigurationToAddModList OCTET STRING OPTIONAL,

spCSI-RSResourceConfigurationToAddModList OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-RSResourceConfig-ExtIEs} } OPTIONAL,

...

}

CSI-RSResourceConfig-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CSIReportConfig ::= OCTET STRING

CSI-RSCoordinationRequestList ::= SEQUENCE (SIZE(1.. maxnoofLTMCSI-RSResourceConfig)) OF CSI-RSCoordinationRequest-Item

CSI-RSCoordinationRequest-Item ::= SEQUENCE {

ltmCSIResourceConfigurationID INTEGER (0..111),

transmissionRequest ENUMERATED{activate, deactivate},

iE-Extensions ProtocolExtensionContainer { { CSI-RSCoordinationRequest-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RSCoordinationRequest-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSCoordinationResultList ::= SEQUENCE (SIZE(1.. maxnoofLTMCSI-RSResourceConfig)) OF CSI-RSCoordinationResult-Item

CSI-RSCoordinationResult-Item ::= SEQUENCE {

ltmCSIResourceConfigurationID INTEGER (0..111),

transmissionStatus ENUMERATED{activated, deactivated},

iE-Extensions ProtocolExtensionContainer { { CSI-RSCoordinationResult-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RSCoordinationResult-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSMeasurementsList ::= SEQUENCE (SIZE(1..maxnoofCSI-RSs)) OF CSI-RSMeasurements-Item

CSI-RSMeasurements-Item ::= SEQUENCE {

csi-rsResourceID INTEGER (0..192),

selectedMeasurementQuantities SelectedMeasurementQuantities,

iE-Extensions ProtocolExtensionContainer { { CSI-RSMeasurements-Item-ExtIEs } } OPTIONAL,

...

}

CSI-RSMeasurements-Item-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

-- D

DAPS-HO-Status::= ENUMERATED{initiation,... }

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