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 canbe 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

--

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

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 >>>>>>>>>>>>>>>>>>>