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

Prague, Czech Republic, 13-17 October 2025

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **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, CSI-RS Resource Set to Release List, CSI-IM Resource to Release List*, and *CSI-IM Resource Set 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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 38.473 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 >>>>>>>>>>>>>>>>>>>

#### 9.2.3.224 CSI-RS Resource Configuration

This IE contains the CSI resource configuration used for LTM.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Periodic NZP CSI-RS Resource Configuration | O |  | NZP CSI-RS Resource Configuration  9.2.3.225 |  |
| Semi-Persistent NZP CSI-RS Resource Configuration | O |  | NZP CSI-RS Resource Configuration  9.2.3.225 |  |
| Periodic NZP CSI-RS Resource Set Configuration | O |  | NZP CSI-RS Resource Set Configuration  9.2.3.226 |  |
| Semi-Persistent NZP CSI-RS Resource Set Configuration | O |  | NZP CSI-RS Resource Set Configuration  9.2.3.226 |  |
| CSI-IM Resource Configuration | O |  | 9.2.3.227 |  |

#### 9.2.3.225 NZP 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 |
| CSI-RS Resource to AddMod List | O |  | OCTET STRING | Includes the*ltm-NZP-CSI-RS-ResourceToAddModList* as defined in TS 38.331 [10]. |

#### 9.2.3.226 NZP CSI-RS Resource Set Configuration

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| CSI-RS Resource Set to AddMod List | O |  | OCTET STRING | Includes *ltm-NZP-CSI-RS-ResourceSetToAddModList* contained in the *LTM-Config* IE as defined in TS 38.331 [10]. |

#### 9.2.3.227 CSI-IM Resource Configuration

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| CSI-IM Resource to AddMod List | O |  | OCTET STRING | Includes *ltm-CSI-IM-ResourceToAddModList* contained in the *LTM-Config* IE as defined in TS 38.331 [10]. |
| CSI-IM ResourceSet to AddMod List | O |  | OCTET STRING | Includes *ltm-CSI-IM-*ResourceSetToAddModList contained in the *LTM-Config* IE as defined in TS 38.331 [10]. |

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

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

### 9.3.5 Information Element definitions

-- ASN1START

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

--

-- Information Element Definitions

--

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

XnAP-IEs {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

id-CNTypeRestrictionsForEquivalent,

id-CNTypeRestrictionsForServing,

id-Additional-UL-NG-U-TNLatUPF-List,

id-ConfiguredTACIndication,

id-AlternativeQoSParaSetList,

id-CurrentQoSParaSetIndex,

id-DefaultDRB-Allowed,

id-DLCarrierList,

id-EndpointIPAddressAndPort,

id-ExtendedReportIntervalMDT,

id-ExtendedTAISliceSupportList,

id-FiveGCMobilityRestrictionListContainer,

id-SecondarydataForwardingInfoFromTarget-List,

id-LastE-UTRANPLMNIdentity,

id-LTEA2XUEPC5AggregateMaximumBitRate,

<<<<<<<<<<<<<<<<<<<< skip unchanged >>>>>>>>>>>>>>>>>>>

-- C

CAG-Identifier ::= BIT STRING (SIZE (32))

CandidateRelayUEInfoList ::= SEQUENCE (SIZE(1..maxnoofCandidateRelayUEs)) OF CandidateRelayUEInfoItem

CandidateRelayUEInfoItem ::= SEQUENCE {

candidateRelayUEID BIT STRING(SIZE(24)),

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

...

}

CandidateRelayUEInfoItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CapacityValue ::= INTEGER (0..100)

CapacityValueInfo ::= SEQUENCE {

capacityValue CapacityValue,

ssbAreaCapacityValueList SSBAreaCapacityValue-List OPTIONAL,

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

...

}

CapacityValueInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

Cause ::= CHOICE {

radioNetwork CauseRadioNetworkLayer,

transport CauseTransportLayer,

protocol CauseProtocol,

misc CauseMisc,

choice-extension ProtocolIE-Single-Container { {Cause-ExtIEs} }

}

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

...

}

CauseRadioNetworkLayer ::= ENUMERATED {

cell-not-available,

handover-desirable-for-radio-reasons,

handover-target-not-allowed,

invalid-AMF-Set-ID,

no-radio-resources-available-in-target-cell,

partial-handover,

reduce-load-in-serving-cell,

resource-optimisation-handover,

time-critical-handover,

tXnRELOCoverall-expiry,

tXnRELOCprep-expiry,

unknown-GUAMI-ID,

unknown-local-NG-RAN-node-UE-XnAP-ID,

inconsistent-remote-NG-RAN-node-UE-XnAP-ID,

encryption-and-or-integrity-protection-algorithms-not-supported,

not-used-causes-value-1,

multiple-PDU-session-ID-instances,

unknown-PDU-session-ID,

unknown-QoS-Flow-ID,

multiple-QoS-Flow-ID-instances,

switch-off-ongoing,

not-supported-5QI-value,

tXnDCoverall-expiry,

tXnDCprep-expiry,

action-desirable-for-radio-reasons,

reduce-load,

resource-optimisation,

time-critical-action,

target-not-allowed,

no-radio-resources-available,

invalid-QoS-combination,

encryption-algorithms-not-supported,

procedure-cancelled,

rRM-purpose,

improve-user-bit-rate,

user-inactivity,

radio-connection-with-UE-lost,

failure-in-the-radio-interface-procedure,

bearer-option-not-supported,

up-integrity-protection-not-possible,

up-confidentiality-protection-not-possible,

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

ue-max-IP-data-rate-reason,

cP-integrity-protection-failure,

uP-integrity-protection-failure,

slice-not-supported-by-NG-RAN,

mN-Mobility,

sN-Mobility,

count-reaches-max-value,

unknown-old-NG-RAN-node-UE-XnAP-ID,

pDCP-Overload,

drb-id-not-available,

unspecified,

...,

ue-context-id-not-known,

non-relocation-of-context,

cho-cpc-resources-tobechanged,

rSN-not-available-for-the-UP,

npn-access-denied,

report-characteristics-empty,

existing-measurement-ID,

measurement-temporarily-not-available,

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

ue-power-saving,

not-existing-NG-RAN-node2-Measurement-ID,

insufficient-ue-capabilities,

normal-release,

value-out-of-allowed-range,

scg-activation-deactivation-failure,

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

ssb-not-available,

lTM-triggered,

no-Backhaul-Resource,

mIAB-node-not-authorized,

iAB-not-authorized

}

CauseTransportLayer ::= ENUMERATED {

transport-resource-unavailable,

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,

...

}

CauseMisc ::= ENUMERATED {

control-processing-overload,

hardware-failure,

o-and-M-intervention,

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

unspecified,

...

}

CellAssistanceInfo-NR ::= CHOICE {

limitedNR-List SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF NR-CGI,

full-List ENUMERATED {all-served-cells-NR, ...},

choice-extension ProtocolIE-Single-Container { {CellAssistanceInfo-NR-ExtIEs} }

}

CellAssistanceInfo-NR-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellAndCapacityAssistanceInfo-NR ::= SEQUENCE {

maximumCellListSize MaximumCellListSize OPTIONAL,

cellAssistanceInfo-NR CellAssistanceInfo-NR OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellAndCapacityAssistanceInfo-NR-ExtIEs} } OPTIONAL,

...

}

CellAndCapacityAssistanceInfo-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellAndCapacityAssistanceInfo-EUTRA ::= SEQUENCE {

maximumCellListSize MaximumCellListSize OPTIONAL,

cellAssistanceInfo-EUTRA CellAssistanceInfo-EUTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellAndCapacityAssistanceInfo-EUTRA-ExtIEs} } OPTIONAL,

...

}

CellAndCapacityAssistanceInfo-EUTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellAssistanceInfo-EUTRA ::= CHOICE {

limitedEUTRA-List SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF E-UTRA-CGI,

full-List ENUMERATED {all-served-cells-E-UTRA, ...},

choice-extension ProtocolIE-Single-Container { {CellAssistanceInfo-EUTRA-ExtIEs} }

}

CellAssistanceInfo-EUTRA-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellBasedMDT-NR::= SEQUENCE {

cellIdListforMDT-NR CellIdListforMDT-NR,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-NR-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-NR ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF NR-CGI

CellBasedQMC::= SEQUENCE {

cellIdListforQMC CellIdListforQMC,

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

...

}

CellBasedQMC-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforQMC ::= SEQUENCE (SIZE(1..maxnoofCellIDforQMC)) OF GlobalNG-RANCell-ID

CellBasedMDT-EUTRA::= SEQUENCE {

cellIdListforMDT-EUTRA CellIdListforMDT-EUTRA,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-EUTRA-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-EUTRA-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-EUTRA ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF E-UTRA-CGI

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

CellDeploymentStatusIndicator ::= ENUMERATED {pre-change-notification, ...}

CellGroupID ::= INTEGER (0..maxnoofSCellGroups)

CellMeasurementResult ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellMeasurementResult-Item

CellMeasurementResult-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

radioResourceStatus RadioResourceStatus OPTIONAL,

tNLCapacityIndicator TNLCapacityIndicator OPTIONAL,

compositeAvailableCapacityGroup CompositeAvailableCapacityGroup OPTIONAL,

sliceAvailableCapacity SliceAvailableCapacity OPTIONAL,

numberofActiveUEs NumberofActiveUEs OPTIONAL,

rRCConnections RRCConnections OPTIONAL,

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

...

}

CellMeasurementResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

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

...

}

CellReplacingInfo ::= SEQUENCE {

replacingCells ReplacingCells,

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

...

}

CellReplacingInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellToReport ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellToReport-Item

CellToReport-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

sSBToReport-List SSBToReport-List OPTIONAL,

sliceToReport-List SliceToReport-List OPTIONAL,

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

...

}

CellToReport-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellToReportForDataCollection-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellToReportForDataCollection-Item

CellToReportForDataCollection-Item ::= SEQUENCE {

cell-ID GlobalNG-RANCell-ID,

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

...

}

CellToReportForDataCollection-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SliceToReportForDataCollection-List CRITICALITY ignore EXTENSION SliceToReportForDataCollection-List PRESENCE optional },

...

}

CellBasedUETrajectoryPrediction ::= SEQUENCE (SIZE(1..maxnoofCellsTrajectoryPredict)) OF PredictedUETrajectory-Item

CellMeasurementInitiationResult-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellMeasurementInitiationResult-Item

CellMeasurementInitiationResult-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

cellMeasurementFailureCause-List CellMeasurementFailureCause-List OPTIONAL,

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

...

}

CellMeasurementInitiationResult-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-SliceMeasurementInitiationResult CRITICALITY reject EXTENSION SliceMeasurementInitiationResult PRESENCE optional},

...

}

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

CLI-MeasurementResult-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

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 XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

CellMeasurementResultForDataCollection-List ::= SEQUENCE (SIZE(1..maxnoofCellsinNG-RANnode)) OF CellInfoResultForDataCollection-Item

CellInfoResultForDataCollection-Item ::= SEQUENCE {

cellID GlobalNG-RANCell-ID,

predictedRadioResourceStatus RadioResourceStatus OPTIONAL,

predictedNumberofActiveUEs NumberofActiveUEs OPTIONAL,

predictedRRCConnections RRCConnections OPTIONAL,

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

...

}

CellInfoResultForDataCollection-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-PredictedSliceAvailableCapacity CRITICALITY ignore EXTENSION PredictedSliceAvailableCapacityGroup PRESENCE optional},

...

}

Cell-Type-Choice ::= CHOICE {

ng-ran-e-utra E-UTRA-Cell-Identity,

ng-ran-nr NR-Cell-Identity,

e-utran E-UTRA-Cell-Identity,

choice-extension ProtocolIE-Single-Container { { Cell-Type-Choice-ExtIEs} }

}

Cell-Type-Choice-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CellMeasurementFailureCause-List ::= SEQUENCE (SIZE(1..maxFailedCellMeasObjects)) OF CellMeasurementFailureCause-Item

CellMeasurementFailureCause-Item ::= SEQUENCE {

cellmeasurementFailedReportCharacteristics BIT STRING(SIZE(32)),

cause Cause,

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

...

}

CellMeasurementFailureCause-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOConfiguration ::= SEQUENCE {

choCandidateCell-List CHOCandidateCell-List,

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

...

}

CHOConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOCandidateCell-List ::= SEQUENCE (SIZE(1..maxnoofCellsinCHO)) OF CHOCandidateCell-Item

CHOCandidateCell-Item ::= SEQUENCE {

choCandidateCellID GlobalNG-RANCell-ID,

choExecutionCondition-List CHOExecutionCondition-List,

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

...

}

CHOCandidateCell-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOExecutionCondition-List ::= SEQUENCE (SIZE(1..maxnoofCHOexecutioncond)) OF CHOExecutionCondition-Item

CHOExecutionCondition-Item ::= SEQUENCE { measObjectContainer MeasObjectContainer,

reportConfigContainer ReportConfigContainer,

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

...

}

CHOExecutionCondition-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityAcceptanceCriteria ::= SEQUENCE {

synchronisationState BIT STRING (SIZE(8, ...)) OPTIONAL,

traceabletoUTC ENUMERATED {true, ...} OPTIONAL,

traceabletoGNSS ENUMERATED {true, ...} OPTIONAL,

clockFrequencyStability BIT STRING (SIZE(16)) OPTIONAL,

clockAccuracy INTEGER (1..40000000, ...) OPTIONAL,

parentTimeSource BIT STRING (SIZE(16, ...)) OPTIONAL,

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

...

}

ClockQualityAcceptanceCriteria-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityReportingControlInfo ::= SEQUENCE {

clockQualityDetailLevel ClockQualityDetailLevel,

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

...

}

ClockQualityReportingControlInfo-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ClockQualityDetailLevel ::= CHOICE {

clockQualityMetrics NULL,

acceptanceIndication ClockQualityAcceptanceCriteria,

choice-extension ProtocolIE-Single-Container { {ClockQualityDetailLevel-ExtIEs} }

}

ClockQualityDetailLevel-ExtIEs XNAP-PROTOCOL-IES ::= {

...

}

CapabilityForBATAdaptation ::= ENUMERATED {true, ...}

CompositeAvailableCapacityGroup ::= SEQUENCE {

compositeAvailableCapacityDownlink CompositeAvailableCapacity,

compositeAvailableCapacityUplink CompositeAvailableCapacity,

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

...

}

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

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

...

}

CompositeAvailableCapacity ::= SEQUENCE {

cellCapacityClassValue CellCapacityClassValue OPTIONAL,

capacityValueInfo CapacityValueInfo, -- this IE represents the IE "CapacityValue" in 9.2.2.52, it’s used to distinguish the "CapacityValue" in 9.2.2.54

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

...

}

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

...

}

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

CHO-MRDC-EarlyDataForwarding ::= ENUMERATED {stop, ...}

CHO-MRDC-Indicator ::= ENUMERATED {true, ..., coordination-only }

CHOtrigger ::= ENUMERATED {

cho-initiation,

cho-replace,

...

}

CHOinformation-Req ::= SEQUENCE {

cho-trigger CHOtrigger,

targetNG-RANnodeUEXnAPID NG-RANnodeUEXnAPID OPTIONAL

-- This IE shall be present if the *CHO Trigger* IE is present and set to "CHO-replace" --,

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-Req-ExtIEs} } OPTIONAL,

...

}

CHOinformation-Req-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ID id-CHOTimeBasedInformation CRITICALITY reject EXTENSION CHOTimeBasedInformation PRESENCE optional}|

{ ID id-CHO-Maxnoof-CondReconfig CRITICALITY reject EXTENSION CHO-Maxnoof-CondReconfig PRESENCE optional },

...

}

CHOTimeBasedInformation ::= SEQUENCE {

cHO-HOWindowStart CHO-HandoverWindowStart,

cHO-HOWindowDuration CHO-HandoverWindowDuration,

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

...

}

CHOTimeBasedInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CHOinformation-Ack ::= SEQUENCE {

requestedTargetCellGlobalID Target-CGI,

maxCHOoperations MaxCHOpreparations OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-Ack-ExtIEs} } OPTIONAL,

...

}

CHOinformation-Ack-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

{ ID id-CHO-CPAC-Info CRITICALITY reject EXTENSION CHO-CPAC-Information PRESENCE optional },

...

}

CHOinformation-AddReq ::= SEQUENCE {

source-M-NGRAN-node-ID GlobalNG-RANNode-ID,

source-M-NGRAN-node-UE-XnAP-ID NG-RANnodeUEXnAPID,

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-AddReq-ExtIEs} } OPTIONAL,

...

}

CHOinformation-AddReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHOinformation-AddReqAck ::= SEQUENCE {

pCell-ID GlobalNG-RANCell-ID OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-AddReqAck-ExtIEs} } OPTIONAL,

...

}

CHOinformation-AddReqAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHOinformation-ModReq ::= SEQUENCE {

conditionalReconfig ENUMERATED {intra-mn-cho, ...},

cHO-EstimatedArrivalProbability CHO-Probability OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CHOinformation-ModReq-ExtIEs} } OPTIONAL,

...

}

CHOinformation-ModReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-Maxnoof-CondReconfig ::= INTEGER (1..8,...)

CHO-CPAC-Information ::= SEQUENCE {

cHO-CPAC-config-indicator CHO-CPAC-Config-Indicator OPTIONAL,

cHO-target-SN-node-list CHO-target-SN-node-list,

iE-Extensions ProtocolExtensionContainer { {CHO-CPAC-Information-ExtIEs}} OPTIONAL,

...

}

CHO-CPAC-Information-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-CPAC-Config-Indicator ::= ENUMERATED {

cho-only-not-prepared,

...

}

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

CHO-HandoverWindowStart ::= INTEGER (0.. 549755813887)

CHO-HandoverWindowDuration ::= INTEGER (1..6000)

CHO-target-SN-node-list ::= SEQUENCE (SIZE(1.. maxnoofTargetSNs)) OF CHO-target-SN-node-Item

CHO-target-SN-node-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

pduSessionResourcesAdmittedList PDUSessionResourcesAdmitted-List,

cho-Candidate-PSCells-list CHO-Candidate-PSCells-list,

iE-Extensions ProtocolExtensionContainer { {CHO-target-SN-node-Item-ExtIEs}} OPTIONAL,

...

}

CHO-target-SN-node-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CHO-Candidate-PSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CHO-Candidate-PSCells-Item

CHO-Candidate-PSCells-Item ::= SEQUENCE {

pscell-id NR-CGI,

target2source-NG-RANNode-Container OCTET STRING,

iE-Extensions ProtocolExtensionContainer { {CHO-Candidate-PSCells-Item-ExtIEs}} OPTIONAL,

...

}

CHO-Candidate-PSCells-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

Circle ::= SEQUENCE {

referenceLocation OCTET STRING,

distanceRadius INTEGER(1..65535, ...),

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

...

}

Circle-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

CompleteCandidateConfig-Indicator ::= ENUMERATED {complete-candidate-config, ...}

Conditional-Reconfig-List ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF Conditional-Reconfig-Item

Conditional-Reconfig-Item ::= SEQUENCE {

pCell-ID Target-CGI,

pSCell-ID NR-CGI OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Conditional-Reconfig-Item-ExtIEs} } OPTIONAL,

...

}

Conditional-Reconfig-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ConfiguredTACIndication ::= ENUMERATED {

true,

...

}

Connectivity-Support ::= SEQUENCE {

eNDC-Support ENUMERATED {supported, not-supported, ...},

iE-Extensions ProtocolExtensionContainer { {Connectivity-Support-ExtIEs} } OPTIONAL,

...

}

Connectivity-Support-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ContainerAppLayerMeasConfig ::= OCTET STRING (SIZE (1..8000))

COUNT-PDCP-SN12 ::= SEQUENCE {

pdcp-SN12 INTEGER (0..4095),

hfn-PDCP-SN12 INTEGER (0..1048575),

iE-Extensions ProtocolExtensionContainer { {COUNT-PDCP-SN12-ExtIEs} } OPTIONAL,

...

}

COUNT-PDCP-SN12-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

COUNT-PDCP-SN18 ::= SEQUENCE {

pdcp-SN18 INTEGER (0..262143),

hfn-PDCP-SN18 INTEGER (0..16383),

iE-Extensions ProtocolExtensionContainer { {COUNT-PDCP-SN18-ExtIEs} } OPTIONAL,

...

}

COUNT-PDCP-SN18-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CoverageModificationCause ::= ENUMERATED {

coverage,

cell-edge-capacity,

...,

network-energy-saving}

Coverage-Modification-List ::= SEQUENCE (SIZE (0..maxnoofCellsinNG-RANnode)) OF Coverage-Modification-List-Item

Coverage-Modification-List-Item ::= SEQUENCE {

globalNG-RANCell-ID GlobalCell-ID,

cellCoverageState INTEGER (0..63, ...),

cellDeploymentStatusIndicator CellDeploymentStatusIndicator OPTIONAL,

cellReplacingInfo CellReplacingInfo OPTIONAL,

-- This IE shall be present if the *Cell Deployment Status Indicator* IE is present.

sSB-Coverage-Modification-List SSB-Coverage-Modification-List,

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

...

}

Coverage-Modification-List-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

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

...

}

CPTransportLayerInformation ::= CHOICE {

endpointIPAddress TransportLayerAddress,

choice-extension ProtocolIE-Single-Container { {CPTransportLayerInformation-ExtIEs} }

}

CPTransportLayerInformation-ExtIEs XNAP-PROTOCOL-IES ::= {

{ ID id-EndpointIPAddressAndPort CRITICALITY reject TYPE EndpointIPAddressAndPort PRESENCE mandatory},

...

}

CPACcandidatePSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPACcandidatePSCells-item

CPACcandidatePSCells-item ::= SEQUENCE {

pscell-id NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CPACcandidatePSCells-item-ExtIEs}} OPTIONAL,

...

}

CPACcandidatePSCells-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACcandidatePSCells-wotherInfo-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPACcandidatePSCells-wotherInfo-item

CPACcandidatePSCells-wotherInfo-item ::= SEQUENCE {

pscell-id NR-CGI,

s-CPAC-CompleteCandidateConfig-Indicator CompleteCandidateConfig-Indicator OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {CPACcandidatePSCells-wotherInfo-item-ExtIEs}} OPTIONAL,

...

}

CPACcandidatePSCells-wotherInfo-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACConfiguration ::= SEQUENCE {

cpacCandidateCell-List CPACCandidateCell-List,

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

...

}

CPACConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACCandidateCell-List ::= SEQUENCE (SIZE(1..maxnoofPSCellsinCPAC)) OF CPACCandidateCell-Item

CPACCandidateCell-Item ::= SEQUENCE {

cpacCandidateCellID GlobalNG-RANCell-ID,

cpacExecutionCondition-List CPACExecutionCondition-List,

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

...

}

CPACCandidateCell-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPACExecutionCondition-List ::= SEQUENCE (SIZE(1..maxnoofCPACexecutioncond)) OF CPACExecutionCondition-Item

CPACExecutionCondition-Item ::= SEQUENCE {

measObjectContainer MeasObjectContainer,

reportConfigContainer ReportConfigContainer,

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

...

}

CPACExecutionCondition-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCindicator ::= ENUMERATED {cpc-initiation, cpc-modification, cpc-cancellation, ...}

CPAInformationRequest ::= SEQUENCE {

max-no-of-pscells INTEGER (1..maxnoofPSCellCandidates, ...),

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

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

...

}

CPAInformationRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-CPAC-Request-Info CRITICALITY reject EXTENSION S-CPAC-Request-Info PRESENCE optional}|

{ ID id-S-CPAC-ReferenceConfigRequest CRITICALITY ignore EXTENSION S-CPAC-ReferenceConfig-Request PRESENCE optional},

...

}

CPAInformationAck ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

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

...

}

CPAInformationAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPCInformationRequired::= SEQUENCE {

cpc-target-sn-required-list CPC-target-SN-required-list,

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

...

}

CPCInformationRequired-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

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

...

}

CPC-target-SN-required-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-required-list-Item

CPC-target-SN-required-list-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

cpc-indicator CPCindicator,

max-no-of-pscells INTEGER (1..maxnoofPSCellCandidates, ...),

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

sN-to-MN-Container OCTET STRING,

iE-Extensions ProtocolExtensionContainer { { CPC-target-SN-required-list-Item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-required-list-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCInformationConfirm ::= SEQUENCE {

cpc-target-sn-confirm-list CPC-target-SN-confirm-list,

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

...

}

CPCInformationConfirm-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPC-target-SN-confirm-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-confirm-list-Item

CPC-target-SN-confirm-list-Item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

candidate-pscells CPACcandidatePSCells-list,

iE-Extensions ProtocolExtensionContainer { { CPC-target-SN-confirm-list-Item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-confirm-list-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPAC-Preparation-Type CRITICALITY ignore EXTENSION CPAC-Preparation-Type PRESENCE optional},

...

}

CPAInformationModReq ::= SEQUENCE {

max-no-of-pscells INTEGER (1..8, ...) OPTIONAL,

cpac-EstimatedArrivalProbability CHO-Probability OPTIONAL,

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

...

}

CPAInformationModReq-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-S-CPAC-Request-Info CRITICALITY reject EXTENSION S-CPAC-Request-Info PRESENCE optional}|

{ ID id-S-CPAC-ReferenceConfigRequest CRITICALITY ignore EXTENSION S-CPAC-ReferenceConfig-Request PRESENCE optional}|

{ ID id-S-CPAC-InterSN-ExecutionNotify CRITICALITY reject EXTENSION S-CPAC-InterSN-ExecutionNotify PRESENCE optional},

...

}

CPAInformationModReqAck ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

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

...

}

CPAInformationModReqAck-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPC-DataForwarding-Indicator ::= ENUMERATED {triggered, early-data-transmission-stop, ..., coordination-only}

CPAC-Preparation-Type ::= ENUMERATED {s-cpac, ...}

CPACInformationModRequired ::= SEQUENCE {

candidate-pscells CPACcandidatePSCells-list,

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

...

}

CPACInformationModRequired-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-CPACcandidatePSCells-wotherInfo-list CRITICALITY reject EXTENSION CPACcandidatePSCells-wotherInfo-list PRESENCE optional},

...

}

CPCInformationUpdate::= SEQUENCE {

cpc-target-sn-list CPC-target-SN-mod-list,

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

...

}

CPCInformationUpdate-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPC-target-SN-mod-list ::= SEQUENCE (SIZE(1..maxnoofTargetSNs)) OF CPC-target-SN-mod-item

CPC-target-SN-mod-item ::= SEQUENCE {

target-S-NG-RANnodeID GlobalNG-RANNode-ID,

candidate-pscells CPCInformationUpdatePSCells-list,

iE-Extensions ProtocolExtensionContainer { {CPC-target-SN-mod-item-ExtIEs} } OPTIONAL,

...

}

CPC-target-SN-mod-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CPCInformationUpdatePSCells-list ::= SEQUENCE (SIZE(1..maxnoofPSCellCandidates)) OF CPCInformationUpdatePSCells-item

CPCInformationUpdatePSCells-item ::= SEQUENCE {

pscell-id NR-CGI,

iE-Extensions ProtocolExtensionContainer { {CPCInformationUpdatePSCells-item-ExtIEs}} OPTIONAL,

...

}

CPCInformationUpdatePSCells-item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CriticalityDiagnostics ::= SEQUENCE {

procedureCode ProcedureCode OPTIONAL,

triggeringMessage TriggeringMessage OPTIONAL,

procedureCriticality Criticality OPTIONAL,

iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,

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

...

}

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

...

}

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

SEQUENCE {

iECriticality Criticality,

iE-ID ProtocolIE-ID,

typeOfError TypeOfError,

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

...

}

CriticalityDiagnostics-IE-List-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

C-RNTI ::= BIT STRING (SIZE(16))

CSI-RS-MTC-Configuration-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSconfigurations)) OF CSI-RS-MTC-Configuration-Item

CSI-RS-MTC-Configuration-Item ::= SEQUENCE {

csi-RS-Index INTEGER(0..95),

csi-RS-Status ENUMERATED {activated, deactivated, ...},

csi-RS-Neighbour-List CSI-RS-Neighbour-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-RS-MTC-Configuration-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-MTC-Configuration-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RS-Neighbour-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSneighbourCells)) OF CSI-RS-Neighbour-Item

CSI-RS-Neighbour-Item ::= SEQUENCE {

nr-cgi NR-CGI,

csi-RS-MTC-Neighbour-List CSI-RS-MTC-Neighbour-List OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-RS-Neighbour-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-Neighbour-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RS-MTC-Neighbour-List ::= SEQUENCE (SIZE(1..maxnoofCSIRSneighbourCellsInMTC)) OF CSI-RS-MTC-Neighbour-Item

CSI-RS-MTC-Neighbour-Item ::= SEQUENCE {

csi-RS-Index INTEGER(0..95),

iE-Extensions ProtocolExtensionContainer { { CSI-RS-MTC-Neighbour-Item-ExtIEs} } OPTIONAL,

...

}

CSI-RS-MTC-Neighbour-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CyclicPrefix-E-UTRA-DL ::= ENUMERATED {

normal,

extended,

...

}

CyclicPrefix-E-UTRA-UL ::= ENUMERATED {

normal,

extended,

...

}

CSI-RSTransmissionIndication ::= ENUMERATED {

activated,

deactivated,

...

}

CAGListforMDT ::= SEQUENCE (SIZE(1.. maxnoofCAGforMDT))OF CAGListforMDTItem

CAGListforMDTItem ::= SEQUENCE {

plmnID PLMN-Identity,

cAGID CAG-Identifier,

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

...

}

CAGListforMDTItem-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

CSIResourceConfiguration ::= SEQUENCE {

cSIResourceConfigurationToAddModList OCTET STRING OPTIONAL,

cSIResourceConfigurationToReleaseList OCTET STRING OPTIONAL,

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

...

}

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

...

}

CompleteCandidateConfigurationIndicator ::= ENUMERATED {complete, ...}

CSI-RSResourceConfiguration ::= SEQUENCE {

periodicNZP-CSI-RS-ResourceConfiguration NZP-CSI-RS-ResourceConfiguration OPTIONAL,

semiPersistentNZP-CSI-RS-ResourceConfiguration NZP-CSI-RS-ResourceConfiguration OPTIONAL,

periodicNZP-CSI-RS-ResourceSetConfiguration NZP-CSI-RS-ResourceSetConfiguration OPTIONAL,

semiPersistentNZP-CSI-RS-ResourceSetConfiguration NZP-CSI-RS-ResourceSetConfiguration OPTIONAL,

periodicCSI-IM-ResourceConfiguration CSI-IM-ResourceConfiguration OPTIONAL,

semiPersistentCSI-IM-ResourceConfiguration CSI-IM-ResourceConfiguration OPTIONAL,

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

...

}

CSI-RSResourceConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NZP-CSI-RS-ResourceConfiguration ::= SEQUENCE { cSI-RSResourceToAddModList OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NZP-CSI-RS-ResourceConfiguration-ExtIEs} } OPTIONAL,

...

}

NZP-CSI-RS-ResourceConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

NZP-CSI-RS-ResourceSetConfiguration ::= SEQUENCE { -- This IE may need to be refined.

cSI-RSResourceSetToAddModList OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { NZP-CSI-RS-ResourceSetConfiguration-ExtIEs} } OPTIONAL,

...

}

NZP-CSI-RS-ResourceSetConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-IM-ResourceConfiguration ::= SEQUENCE { -- This IE may need to be refined.

cSI-IMResourceToAddModList OCTET STRING OPTIONAL,

cSI-IMResourceSetToAddModList OCTET STRING OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CSI-IM-ResourceConfiguration-ExtIEs} } OPTIONAL,

...

}

CSI-IM-ResourceConfiguration-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

CellSwitchTAInformation-Item ::= SEQUENCE {

candidateCellID NR-CGI,

tAValue TAValue,

tagIDPointer TagIDPointer OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { CellSwitchTAInformation-List-ExtIEs } } OPTIONAL,

...

}

CellSwitchTAInformation-List-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSCoordinationRequest ::= SEQUENCE {

layer1MeasurementRequest-List Layer1MeasurementRequest-List OPTIONAL,

cSI-RSAcquisitionRequest-List CSI-RSAcquisitionRequest-List OPTIONAL,

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

...

}

-- This IE may need to be refined.

CSI-RSCoordinationRequest-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSAcquisitionRequest-List ::= SEQUENCE (SIZE(1..maxnoofCSIResourceConfigurationsPlus1)) OF CSI-RSAcquisitionRequest-Item

CSI-RSAcquisitionRequest-Item ::= SEQUENCE {

requestForSemiPersistentCSI-RSResources ENUMERATED {activate, deactivate,...},

cSIResourceConfigurationID CSIResourceConfigurationID,

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

...

}

CSI-RSAcquisitionRequest-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSCoordinationResponse ::= SEQUENCE {

layer1MeasurementResponse-List Layer1MeasurementResponse-List OPTIONAL,

cSI-RSAcquisitionResponse-List CSI-RSAcquisitionResponse-List OPTIONAL,

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

...

}

-- This IE may need to be refined.

CSI-RSCoordinationResponse-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSI-RSAcquisitionResponse-List ::= SEQUENCE (SIZE(1..maxnoofCSIResourceConfigurationsPlus1)) OF CSI-RSAcquisitionResponse-Item

CSI-RSAcquisitionResponse-Item ::= SEQUENCE {

semiPersistentCSI-RSResourceResponse ENUMERATED {activated, deactivated,...},

cSIResourceConfigurationID CSIResourceConfigurationID,

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

...

}

CSI-RSAcquisitionResponse-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CSIResourceConfigurationID ::= INTEGER (0..111, ...)

-- D

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