**3GPP TSG-RAN WG3 Meeting #125 *R3-244741***

**Maastricht, NL, 19 - 23 Aug, 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **CR** | **1336** | **rev** | **1** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction of Served Cell Specific Info Request in NG-RAN node configuration update procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Nokia, CMCC | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core, TEI17 | | | | |  | ***Date:*** | | | 2024-08-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)*  *Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In the NG-RAN node configuration update message, the *Served Cell Specific Info Request* IE can be used to request the additional MTC configuration.  However, in ASN.1 the NG-RAN Configuration Update **Acknowledge** message may include served-NR-Cells, which includes also the **ServedCellSpecificInfoReq-NR**. This leads to the misalignment between the ASN.1 and the Tabular. And it should be understood that the IE **should not** be signalled in the acknowledge message, given that there are no corresponding procedure texts.  Also, in the ASN.1 of the NG-RAN Configuration Update message, **the ServedCellSpecificInfoReq-NR**can be included in two places:   * under the top level of the gNB branch * the *Served Cells To Update NR* IE.   For the latter case, this is because the ServedCellsToUpdate-NR includes the served-Cells-ToAdd-NR referring to theServedCells-NR, which includes the ServedCellSpecificInfoReq-NR. But this IE is missing under the *Served Cells To Update NR* IE in the Tabular. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * In the NG-RAN Node Configuration Update Message, add the *Served Cell Specific Info Request* IE under the 9.2.2.15 Served Cells To Update NR IE. * In the NG-RAN Node Configuration Update Acknowledge message, add the *Served Cell Specific Info Request* IE under *Served NR Cells* IE.   Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact with the previous version of the specification (same release) because it impacts on the Served Cell Specific Info Request in NG-RAN Node Configuration Update procedure. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The IE is completely missing from the tabular which is inconsistent with the ASN.1 in the NG-RAN Node Configuration Update procedure. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.1.3.5, 9.2.2.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... 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:*** | | Initial version: R3-244242  Rev1: R3-244741  Remove the added semantic descriptions of the *Served Cell Specific Info Request* IE in section 9.1.3.5.  Update the cover page. | | | | | | | | |

*CHANGES START*

#### 9.1.3.4 NG-RAN NODE CONFIGURATION UPDATE

This message is sent by a NG-RAN node to a neighbouring NG-RAN node to transfer updated information for an Xn-C interface instance.

Direction: NG-RAN node1 🡪 NG-RAN node2.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.2.3.1 |  | YES | reject |
| TAI Support List | O |  | 9.2.3.20 | List of supported TAs and associated characteristics. | GLOBAL | reject |
| CHOICE *Initiating NodeType* | M |  |  |  | YES | ignore |
| *>gNB* |  |  |  |  |  |  |
| >>Served Cells To Update NR | O |  | 9.2.2.15 |  | YES | ignore |
| >>Cell Assistance Information NR | O |  | 9.2.2.17 |  | YES | ignore |
| >>Cell Assistance Information E-UTRA | O |  | 9.2.2.43 |  | YES | ignore |
| >>Served Cell Specific Info Request | O |  | 9.2.2.102 |  | YES | ignore |
| *>ng-eNB* |  |  |  |  |  |  |
| >>Served Cells to Update E-UTRA | O |  | 9.2.2.16 |  | YES | ignore |
| >>Cell Assistance Information NR | O |  | 9.2.2.17 |  | YES | ignore |
| >>Cell Assistance Information E-UTRA | O |  | 9.2.2.43 |  | YES | ignore |
| **TNLA To Add List** |  | *0..1* |  |  | YES | ignore |
| **>TNLA To Add Item** |  | *1..<maxnoofTNLAssociations>* |  |  | – |  |
| >>TNLA Transport Layer Information | M |  | CP Transport Layer Information  9.2.3.31 | CP Transport Layer Information of NG-RAN node1 | – |  |
| >>TNL Association Usage | M |  | 9.2.3.84 |  | – |  |
| **TNLA To Update List** |  | *0..1* |  |  | YES | ignore |
| **>TNLA To Update Item** |  | *1..<maxnoofTNLAssociations>* |  |  | – |  |
| >>TNLA Transport Layer Information | M |  | CP Transport Layer Information  9.2.3.31 | CP Transport Layer Information of NG-RAN node1 | – |  |
| >>TNL Association Usage | O |  | 9.2.3.84 |  | – |  |
| **TNLA To Remove List** |  | *0..1* |  |  | YES | ignore |
| **>TNLA To Remove Item** |  | *1..<maxnoofTNLAssociations>* |  |  | – |  |
| >>TNLA Transport Layer Information | M |  | CP Transport Layer Information  9.2.3.31 | CP Transport Layer Information of NG-RAN node1 | – |  |
| Global NG-RAN Node ID | O |  | 9.2.2.3 |  | YES | reject |
| AMF Region Information To Add | O |  | AMF Region Information  9.2.3.83 | List of all added AMF Regions to which the NG-RAN node belongs. | YES | reject |
| AMF Region Information To Delete | O |  | AMF Region Information  9.2.3.83 | List of all deleted AMF Regions to which the NG-RAN node belongs. | YES | reject |
| Interface Instance Indication | O |  | 9.2.2.39 |  | YES | reject |
| TNL Configuration Info | O |  | 9.2.3.96 |  | YES | ignore |
| **Coverage Modification List** |  | *0 .. 1* |  | List of cells with modified coverage. | GLOBAL | reject |
| **>Coverage Modification Item** |  | *0 .. <maxnoofCellsinNG-RAN node>* |  |  | – |  |
| >>Global NG-RAN Cell Identity | M |  | Global Cell Identity  9.2.2.73 | Global Cell Identity of the cell to be modified. In this version of the specification, only a NG-RAN cell identifier can be included. | – |  |
| >>Cell Coverage State | M |  | INTEGER (0..63, …) | Value ‘0’ indicates that the cell is inactive. Other values Indicates that the cell is active and also indicates the coverage configuration of the concerned cell. | – |  |
| >>Cell Deployment Status Indicator | O |  | ENUMERATED(pre-change-notification, ...) | Indicates the Cell Coverage State is planned to be used at the next reconfiguration. | – |  |
| **>>Cell Replacing Info** | C-ifCellDeploymentStatusIndicatorPresent |  |  |  | – |  |
| **>>>Replacing Cells** |  | *0 .. <maxnoofCellsinNG-RAN node>* |  |  | – |  |
| >>>>Global NG-RAN Cell Identity |  |  | Global NG-RAN Cell Identity  9.2.2.27 | NG-RAN Cell Global Identifier of a cell that may replace all or part of the coverage of the cell to be modified. | – |  |
| **>>SSB Coverage Modification List** |  | *0..1* |  | List of SSB beams with modified coverage. | – |  |
| **>>>SSB Coverage Modification Item** |  | *0..<maxnoofSSBAreas>* |  |  | – |  |
| >>>>SSB Index | M |  | INTEGER (0..63) | Identifier of the SSB beam to be modified. | – |  |
| >>>>SSB Coverage State | M |  | INTEGER (0..15, …) | Value ‘0’ indicates that the SSB beam is inactive. Other values Indicates that the SSB beam is active and also indicates the coverage configuration of the concerned SSB beam. | – |  |
| >>Coverage Modification Cause | O |  | ENUMERATED (coverage, cell edge capacity, ..., network energy saving) | Indicates the reason for the coverage modification in NG-RAN node1. | YES | ignore |
| Local NG-RAN Node Identifier | O |  | 9.2.2.101 |  | YES | ignore |
| **Neighbour NG-RAN Node List** |  | *0..<maxnoofNeighbourNG-RAN nodes>* |  |  | YES | ignore |
| *>*Global NG-RAN Node ID | M |  | 9.2.2.3 |  | – |  |
| >Local NG-RAN Node Identifier | M |  | 9.2.2.101 |  | – |  |
| Local NG-RAN Node Identifier Removal | O |  | Local NG-RAN Node Identifier  9.2.2.101 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTNLAssociations | Maximum numbers of TNL Associations between the NG RAN nodes. Value is 32. |
| maxnoofCellsinNG-RAN node | Maximum no. cells that can be served by a NG-RAN node. Value is 16384. |
| maxnoofSSBAreas | Maximum no. SSB Areas that can be served by a cell. Value is 64. |
| maxnoofNeighbourNG-RAN nodes | Maximum no. of neighbour NG-RAN nodes. Value is 256. |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifCellDeploymentStatusIndicatorPresent | This IE shall be present if the *Cell Deployment Status Indicator* IE is present. |

#### 9.1.3.5 NG-RAN NODE CONFIGURATION UPDATE ACKNOWLEDGE

This message is sent by a neighbouring NG-RAN node to a peer node to acknowledge update of information for a TNL association.

Direction: NG-RAN node2 🡪 NG-RAN node1.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.2.3.1 |  | YES | reject |
| CHOICE *Responding NodeType* | M |  |  |  | YES | ignore |
| >*ng-eNB* |  |  |  |  |  |  |
| **>>Served E-UTRA Cells** |  | *0 .. < maxnoofCellsinNG-RANnode>* |  | Complete or limited list of cells served by an ng-eNB, if requested by NG-RAN node1. | YES | ignore |
| >>>Served Cell Information E-UTRA | M |  | 9.2.2.12 |  | – |  |
| >>>Neighbour Information NR | O |  | 9.2.2.13 | NR neighbours. | – |  |
| >>>Neighbour Information E-UTRA | O |  | 9.2.2.14 | E-UTRA neighbours | – |  |
| >>>SFN Offset | O |  | 9.2.2.75 | Associated with the *ECGI* IE in the *Served Cell Information E-UTRA* IE | YES | ignore |
| >>Partial List Indicator E-UTRA | O |  | Partial List Indicator  9.2.2.46 | Value “partial” indicates that a partial list of cells is included in the *Served E-UTRA Cells* IE | YES | ignore |
| >>Cell and Capacity Assistance Information E-UTRA | O |  | 9.2.2.42 | Contains E-UTRA cell related assistance information. | YES | ignore |
| >*gNB* |  |  |  |  |  |  |
| **>>Served NR Cells** |  | *0 .. < maxnoofCellsinNG-RANnode>* |  | Complete or limited list of cells served by a gNB, if requested by NG-RAN node1. | – |  |
| >>>Served Cell Information NR | M |  | 9.2.2.11 |  | – |  |
| >>>Neighbour Information NR | O |  | 9.2.2.13 | NR neighbours. | – |  |
| >>>Neighbour Information E-UTRA | O |  | 9.2.2.14 | E-UTRA neighbours | – |  |
| >>>Served Cell Specific Info Request | O |  | 9.2.2.102 |  | YES | ignore |
| >>Partial List Indicator NR | O |  | Partial List Indicator  9.2.2.46 | Value “partial” indicates that a partial list of cells is included in the *Served NR Cells* IE | YES | ignore |
| >>Cell and Capacity Assistance Information NR | O |  | 9.2.2.41 | Contains NR cell related assistance information. | YES | ignore |
| **TNLA Setup List** |  | *0..1* |  |  | YES | ignore |
| **>TNLA Setup Item** |  | *1..<maxnoofTNLAssociations>* |  |  | – |  |
| >>TNLA Transport Layer Address | M |  | CP Transport Layer Information  9.2.3.31 | CP Transport Layer Information as received from NG-RAN node1 | – |  |
| **TNLA Failed to Setup List** |  | *0..1* |  |  | YES | ignore |
| **>TNLA Failed To Setup Item** |  | *1..<maxnoofTNLAssociations>* |  |  | – |  |
| >>TNLA Transport Layer Address | M |  | CP Transport Layer Information  9.2.3.31 | CP Transport Layer Information as received from NG-RAN node1 | – |  |
| >>Cause | M |  | 9.2.3.2 |  | – |  |
| Criticality Diagnostics | O |  | 9.2.3.3 |  | YES | ignore |
| Interface Instance Indication | O |  | 9.2.2.39 |  | YES | reject |
| TNL Configuration Info | O |  | 9.2.3.96 |  | YES | ignore |
| Local NG-RAN Node Identifier | O |  | 9.2.2.101 |  | YES | ignore |
| **Neighbour NG-RAN Node List** |  | *0..<maxnoofNeighbourNG-RAN nodes>* |  |  | YES | ignore |
| >Global NG-RAN Node ID | M |  | 9.2.2.3 |  | – |  |
| >Local NG-RAN Node Identifier | M |  | 9.2.2.101 |  | – |  |
| Local NG-RAN Node Identifier Removal |  |  | Local NG-RAN Node Identifier  9.2.2.101 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofCellsinNGRANnode | Maximum no. cells that can be served by an NG-RAN node.  Value is 16384. |
| maxnoofTNLAssociations | Maximum numbers of TNL Associations between NG-RAN nodes. Value is 32. |
| maxnoofNeighbourNG-RAN nodes | Maximum no. of neighbour NG-RAN nodes. Value is 256. |

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

#### 9.2.2.15 Served Cells To Update NR

This IE contains updated configuration information for served NR cells exchanged between NG-RAN nodes.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| **Served Cells NR To Add** |  | *0 .. < maxnoofCellsinNG-RAN node>* |  | List of added cells served by the NG-RAN node. | GLOBAL | reject |
| >Served Cell Information NR | M |  | 9.2.2.11 |  | – |  |
| >Neighbour Information NR | O |  | 9.2.2.13 |  | – |  |
| >Neighbour Information E-UTRA | O |  | 9.2.2.14 |  | – |  |
| >Served Cell Specific Info Request | O |  | 9.2.2.102 |  | YES | ignore |
| **Served Cells To Modify NR** |  | *0 .. < maxnoofCellsinNG-RAN node>* |  | List of modified cells served by the NG-RAN node. | YES | reject |
| >Old NR CGI | M |  | NR CGI  9.2.2.7 |  | – |  |
| >Served Cell Information NR | M |  | 9.2.2.11 |  | – |  |
| >Neighbour Information NR | O |  | 9.2.2.13 |  | – |  |
| >Neighbour Information E-UTRA | O |  | 9.2.2.14 |  | – |  |
| >Deactivation Indication | O |  | ENUMERATED (deactivated, ...) | Indicates that the concerned cell is switched off for energy saving reasons. | – |  |
| **Served Cells To Delete NR** |  | *0 .. < maxnooffCellsinNG-RAN node >* |  | List of deleted cells served by the NG-RAN node. | YES | reject |
| >Old NR-CGI | M |  | NR CGI  9.2.2.7 |  | – |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofCellsinNG-RAN node | Maximum no. cells that can be served by a NG-RAN node. Value is 16384. |

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

### 9.3.4 PDU Definitions

-- ASN1START

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-- PDU definitions for XnAP.

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

XnAP-PDU-Contents {

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

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

<<<<<<<<<<<<<<<<<<<< For Information Only >>>>>>>>>>>>>>>>>>>>

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

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-- NG-RAN NODE CONFIGURATION UPDATE

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

NGRANNodeConfigurationUpdate ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ NGRANNodeConfigurationUpdate-IEs}},

...

}

NGRANNodeConfigurationUpdate-IEs XNAP-PROTOCOL-IES ::= {

{ ID id-TAISupport-list CRITICALITY reject TYPE TAISupport-List PRESENCE optional }|

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

{ ID id-TNLA-To-Add-List CRITICALITY ignore TYPE TNLA-To-Add-List PRESENCE optional }|

{ ID id-TNLA-To-Remove-List CRITICALITY ignore TYPE TNLA-To-Remove-List PRESENCE optional }|

{ ID id-TNLA-To-Update-List CRITICALITY ignore TYPE TNLA-To-Update-List PRESENCE optional }|

{ ID id-GlobalNG-RAN-node-ID CRITICALITY reject TYPE GlobalNG-RANNode-ID PRESENCE optional }|

{ ID id-AMF-Region-Information-To-Add CRITICALITY reject TYPE AMF-Region-Information PRESENCE optional }|

{ ID id-AMF-Region-Information-To-Delete CRITICALITY reject TYPE AMF-Region-Information PRESENCE optional }|

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

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

{ ID id-Coverage-Modification-List CRITICALITY reject TYPE Coverage-Modification-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier-Removal CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional },

...

}

ConfigurationUpdateInitiatingNodeChoice ::= CHOICE {

gNB ProtocolIE-Container { {ConfigurationUpdate-gNB} },

ng-eNB ProtocolIE-Container { {ConfigurationUpdate-ng-eNB} },

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

}

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

...

}

ConfigurationUpdate-gNB XNAP-PROTOCOL-IES ::= {

{ ID id-servedCellsToUpdate-NR CRITICALITY ignore TYPE ServedCellsToUpdate-NR PRESENCE optional }|

{ ID id-cellAssistanceInfo-NR CRITICALITY ignore TYPE CellAssistanceInfo-NR PRESENCE optional }|

{ ID id-cellAssistanceInfo-EUTRA CRITICALITY ignore TYPE CellAssistanceInfo-EUTRA PRESENCE optional }|

{ ID id-ServedCellSpecificInfoReq-NR CRITICALITY ignore TYPE ServedCellSpecificInfoReq-NR PRESENCE optional},

...

}

ConfigurationUpdate-ng-eNB XNAP-PROTOCOL-IES ::= {

{ ID id-servedCellsToUpdate-E-UTRA CRITICALITY ignore TYPE ServedCellsToUpdate-E-UTRA PRESENCE optional }|

{ ID id-cellAssistanceInfo-NR CRITICALITY ignore TYPE CellAssistanceInfo-NR PRESENCE optional }|

{ ID id-cellAssistanceInfo-EUTRA CRITICALITY ignore TYPE CellAssistanceInfo-EUTRA PRESENCE optional },

...

}

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

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-- NG-RAN NODE CONFIGURATION UPDATE ACKNOWLEDGE

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

NGRANNodeConfigurationUpdateAcknowledge ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ NGRANNodeConfigurationUpdateAcknowledge-IEs}},

...

}

NGRANNodeConfigurationUpdateAcknowledge-IEs XNAP-PROTOCOL-IES ::= {

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

{ ID id-TNLA-Setup-List CRITICALITY ignore TYPE TNLA-Setup-List PRESENCE optional }|

{ ID id-TNLA-Failed-To-Setup-List CRITICALITY ignore TYPE TNLA-Failed-To-Setup-List PRESENCE optional }|

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

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

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

{ ID id-Local-NG-RAN-Node-Identifier CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional }|

{ ID id-Neighbour-NG-RAN-Node-List CRITICALITY ignore TYPE Neighbour-NG-RAN-Node-List PRESENCE optional }|

{ ID id-Local-NG-RAN-Node-Identifier-Removal CRITICALITY ignore TYPE Local-NG-RAN-Node-Identifier PRESENCE optional },

...

}

RespondingNodeTypeConfigUpdateAck ::= CHOICE {

ng-eNB RespondingNodeTypeConfigUpdateAck-ng-eNB,

gNB RespondingNodeTypeConfigUpdateAck-gNB,

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

}

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

...

}

RespondingNodeTypeConfigUpdateAck-ng-eNB ::= SEQUENCE {

iE-Extension ProtocolExtensionContainer { {RespondingNodeTypeConfigUpdateAck-ng-eNB-ExtIEs} } OPTIONAL,

...

}

RespondingNodeTypeConfigUpdateAck-ng-eNB-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-List-of-served-cells-E-UTRA CRITICALITY ignore EXTENSION ServedCells-E-UTRA PRESENCE optional }|

{ ID id-PartialListIndicator-EUTRA CRITICALITY ignore EXTENSION PartialListIndicator PRESENCE optional }|

{ ID id-CellAndCapacityAssistanceInfo-EUTRA CRITICALITY ignore EXTENSION CellAndCapacityAssistanceInfo-EUTRA PRESENCE optional },

...

}

RespondingNodeTypeConfigUpdateAck-gNB ::= SEQUENCE {

served-NR-Cells ServedCells-NR OPTIONAL,

iE-Extension ProtocolExtensionContainer { {RespondingNodeTypeConfigUpdateAck-gNB-ExtIEs} } OPTIONAL,

...

}

RespondingNodeTypeConfigUpdateAck-gNB-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-PartialListIndicator-NR CRITICALITY ignore EXTENSION PartialListIndicator PRESENCE optional }|

{ ID id-CellAndCapacityAssistanceInfo-NR CRITICALITY ignore EXTENSION CellAndCapacityAssistanceInfo-NR PRESENCE optional },

...

}

<<<<<<<<<<<<<<<<<<<< For Information Only >>>>>>>>>>>>>>>>>>>>

### 9.3.5 Information Element definitions

-- ASN1START

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-- Information Element Definitions

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

XnAP-IEs {

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

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

<<<<<<<<<<<<<<<<<<<< For Information Only >>>>>>>>>>>>>>>>>>>>

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

ServedCells-NR-Item ::= SEQUENCE {

served-cell-info-NR ServedCellInformation-NR,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {ServedCells-NR-Item-ExtIEs} } OPTIONAL,

...

}

ServedCells-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-ServedCellSpecificInfoReq-NR CRITICALITY ignore EXTENSION ServedCellSpecificInfoReq-NR PRESENCE optional },

...

}

ServedCells-ToModify-NR ::= SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF ServedCells-ToModify-NR-Item

ServedCells-ToModify-NR-Item ::= SEQUENCE {

old-NR-CGI NR-CGI,

served-cell-info-NR ServedCellInformation-NR,

neighbour-info-NR NeighbourInformation-NR OPTIONAL,

neighbour-info-E-UTRA NeighbourInformation-E-UTRA OPTIONAL,

deactivation-indication ENUMERATED {deactivated, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { {Served-cells-ToModify-NR-Item-ExtIEs} } OPTIONAL,

...

}

Served-cells-ToModify-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

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

ServedCellSpecificInfoReq-NR-Item ::= SEQUENCE {

nRCGI NR-CGI,

additionalMTCListRequestIndicator ENUMERATED {additionalMTCListRequested, ...} OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ServedCellSpecificInfoReq-NR-Item-ExtIEs} } OPTIONAL,

...

}

ServedCellSpecificInfoReq-NR-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

ServedCellsToUpdate-NR ::= SEQUENCE {

served-Cells-ToAdd-NR ServedCells-NR OPTIONAL,

served-Cells-ToModify-NR ServedCells-ToModify-NR OPTIONAL,

served-Cells-ToDelete-NR SEQUENCE (SIZE (1..maxnoofCellsinNG-RANnode)) OF NR-CGI OPTIONAL,

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

...

}

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

...

}

*CHANGES END*