3GPP TSG-RAN WG3 Meeting #109-e R3-20xxxx

**Online, 17th – 27th August 2020**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.423** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | EN-DC X2 SETUP RESPONSE message missing in ASN.1 TNL Transport Layer Address Info IE from CR1421 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Rapporteur (Ericsson) | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-08-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CR1421 introduced in tabular and ASN.1 the TNL Transport Layer Address Info IE in the EN-DC X2 SETUP RESPONSE message, but during CR implementation the IE was only introduced in the tabular | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | (Re-)introducing in ASN.1 the *TNL Transport Layer Address Info* IE in the EN-DC X2 SETUP RESPONSE message  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 introduces corrects the EN-DC X2 Setup function for a priori setup of IPSec in X2.  The impact can be considered isolated because the change affects only the EN-DC X2 Setup function for a priori setup of IPSec in X2 function.  The CR has impact on ASN.1. The ASN.1 correction is performed in a backwards compatible way. | | | | | | | | |
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| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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#### 9.1.2.32 EN-DC X2 SETUP RESPONSE

This message is sent by a neighbouring node to an initiating node, both nodes able to interact for EN-DC, to transfer the initialization information for a TNL association.

Direction: eNB → en-gNB, en-gNB → eNB.

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| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.13 |  | YES | reject |
| CHOICE *Responding NodeType* | M |  |  |  | YES | reject |
| >*eNB* |  |  |  |  |  |  |
| >>Global eNB ID | M |  | 9.2.22 |  | YES | reject |
| **>>List of Served E-UTRA Cells** |  | *1 .. <maxCellineNB>* |  | Complete list of cells served by the eNB | YES | reject |
| >>>Served E-UTRA Cell Information | M |  | Served Cell Information 9.2.8 |  | – |  |
| >>>NR Neighbour Information | O |  | 9.2.98 | NR neighbours | – |  |
| >>Cell and Capacity Assistance Information | O |  | 9.2.146 |  | YES | ignore |
| >*en-gNB* |  |  |  |  |  |  |
| >>Global en-gNB ID | M |  | 9.2.112 |  | YES | reject |
| **>>List of Served NR Cells** |  | *1 .. <maxCellinengNB>* |  | List of cells served by the en-gNB. If a partial list of cells is signalled, it contains at least one cell per carrier configured at the gNB. | YES | reject |
| >>>Served NR Cell Information | M |  | 9.2.110 |  | – |  |
| >>>NR Neighbour Information | O |  | 9.2.98 | NR neighbours | – |  |
| >>Partial List Indicator | O |  | ENUMERATED (partial, ...) | Value “partial” indicates that a partial list of cells is included in the *List of Served NR Cells* IE | YES | ignore |
| Interface Instance Indication | O |  | 9.2.143 |  | YES | reject |
| TNL Transport Layer Address info | O |  | 9.2.149 |  | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxCellineNB | Maximum no. cells that can be served by an eNB. Value is 256. |
| maxCellinengNB | Maximum no. cells that can be served by an en-gNB. Value is 16384. |

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### 9.3.4 PDU Definitions

-- ASN1START

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

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-- PDU definitions for X2AP.

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

X2AP-PDU-Contents {

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

eps-Access (21) modules (3) x2ap (2) version1 (1) x2ap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

<<<<<<<<<<<<<<<<<<<< Unmodified Text omitted >>>>>>>>>>>>>>>>>>>>

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

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-- EN-DC X2 SETUP RESPONSE

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

ENDCX2SetupResponse ::= SEQUENCE {

protocolIEs ProtocolIE-Container {{ENDCX2SetupResponse-IEs}},

...

}

ENDCX2SetupResponse-IEs X2AP-PROTOCOL-IES ::= {

{ ID id-RespondingNodeType-EndcX2Setup CRITICALITY reject TYPE RespondingNodeType-EndcX2Setup PRESENCE mandatory}|

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

...

}

RespondingNodeType-EndcX2Setup ::= CHOICE {

respond-eNB ProtocolIE-Container {{ENB-ENDCX2SetupReqAckIEs}},

respond-en-gNB ProtocolIE-Container {{En-gNB-ENDCX2SetupReqAckIEs}},

...

}

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