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 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-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 messageImpact 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.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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}},

 ...

}

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