**3GPP TSG-RAN WG3 Meeting #107bis-e *R3-202593***

**E-meeting, 20 – 30 April, 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.413** | **CR** | **1766** | **rev** | **1** | **Current version:** | **15.8.0** |  |
|  | | | | | | | | |
| *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 | **X** |

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| ***Title:*** | Correction of connected en-gNBs | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-04-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-15 |
|  | *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:*** | | ASN.1 includes en-gNB ID instead of Global en-gNB ID in Connected en-gNB List in the S1 SETUP REQUEST message. Similar issues in the ENB CONFIGURATION UPDATE message. | | | | | | | | |
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| ***Summary of change:*** | | Correction of S1 SETUP REQUEST and ENB CONFIGURATION UPDATE:   * Aligning tabular on ASN.1.   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 the changes are backwards compatible.  This CR has no impact under functional point of view. | | | | | | | | |
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| ***Consequences if not approved:*** | | Tabular and ASN.1 would not be aligned. | | | | | | | | |
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| ***Clauses affected:*** | | 9.1.8.4, 9.1.8.7 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | | Rev. 1: Solution without ASN.1 impact. | | | | | | | | |

#### 9.1.8.4 S1 SETUP REQUEST

This message is sent by the eNB to transfer information for a TNL association.

Direction: eNB → MME

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.1.1 |  | YES | reject |
| Global eNB ID | M |  | 9.2.1.37 |  | YES | reject |
| eNB Name | O |  | PrintableString(SIZE(1..150,…)) |  | YES | ignore |
| **Supported TAs** |  | *1..<maxnoofTACs>* |  | Supported TAs in the eNB. | GLOBAL | reject |
| >TAC | M |  | 9.2.3.7 | Broadcast TAC. | - |  |
| **>Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | - |  |
| >>PLMN Identity | M |  | 9.2.3.8 |  |  |  |
| >RAT-Type | O |  | 9.2.1.117 | RAT-Type associated with the TAC of the indicated PLMN(s). | YES | reject |
| Default Paging DRX | M |  | 9.2.1.16 |  | YES | ignore |
| **CSG Id List** |  | *0..1* |  |  | GLOBAL | reject |
| >CSG Id |  | *1 .. <maxnoofCSGIds>* | 9.2.1.62 |  |  |  |
| UE Retention Information | O |  | 9.2.1.112 |  | YES | ignore |
| NB-IoT Default Paging DRX | O |  | 9.2.1.114 |  | YES | ignore |
| **Connected en-gNB List** |  | *<0.. maxnoofConnecteden-gNBs>* |  |  | GLOBAL | ignore |
| >en-gNB ID | M |  | BIT STRING (SIZE(22..32)) |  |  |  |
| **>Supported TAs** |  | *1..<maxnoofTACs>* |  | Supported (EPS) TAs in the en-gNB. | - |  |
| >>Configured TAC | M |  | TAC  9.2.3.7 | This information is used as specified in TS 36.300 [14]. | - |  |
| **>>Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | - |  |
| >>>PLMN Identity | M |  | 9.2.3.8 |  |  |  |

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| Range bound | Explanation |
| maxnoofTACs | Maximum no. of TACs. Value is 256. |
| maxnoofBPLMNs | Maximum no. of Broadcast PLMNs. Value is 6. |
| maxnoofCSGIds | Maximum no. of CSG Ids within the CSG Id List. Value is 256. |
| maxnoofConnecteden-gNBs | Maximum no. of en-gNBs connected to the eNB. Value is 256. |

#### 9.1.8.7 ENB CONFIGURATION UPDATE

This message is sent by the eNB to transfer updated information for a TNL association.

Direction: eNB → MME

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.1.1 |  | YES | reject |
| eNB Name | O |  | PrintableString(SIZE(1..150,…)) |  | YES | ignore |
| **Supported TAs** |  | *0..<maxnoofTACs>* |  | Supported TAs in the eNB. | GLOBAL | reject |
| >TAC | M |  | 9.2.3.7 | Broadcast TAC. | - |  |
| **>Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | - |  |
| >>PLMN Identity | M |  | 9.2.3.8 |  | - |  |
| >RAT-Type | O |  | 9.2.1.117 | RAT Type associated with the TAC of the indicated PLMN(s). | YES | reject |
| **CSG Id List** |  | *0..1* |  |  | GLOBAL | reject |
| >CSG Id |  | *1 .. <maxnoofCSGId>* | 9.2.1.62 |  | - |  |
| Default Paging DRX | O |  | 9.2.1.16 |  | YES | ignore |
| NB-IoT Default Paging DRX | O |  | 9.2.1.114 |  | YES | ignore |
| **Connected en-gNB To Be Added List** |  | *<0.. maxnoofConnecteden-gNBs>* |  |  | GLOBAL | ignore |
| >en-gNB ID | M |  | BIT STRING (SIZE(22..32)) |  |  |  |
| >**Supported TAs** |  | *1..<maxnoofTACs>* |  | Supported TAs in the en-gNB. | - |  |
| >>Configured TAC | M |  | TAC  9.2.3.7 |  | - |  |
| >>**Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | - |  |
| >>>PLMN Identity | M |  | 9.2.3.8 |  |  |  |
| **Connected en-gNB To Be Removed List** |  | *<0.. maxnoofConnecteden-gNBs>* |  |  | GLOBAL | ignore |
| >en-gNB ID | M |  | BIT STRING (SIZE(22..32)) |  |  |  |
| >**Supported TAs** |  | *1..<maxnoofTACs>* |  | Supported TAs in the en-gNB. | - |  |
| >>Configured TAC | M |  | TAC  9.2.3.7 |  | - |  |
| >>**Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | - |  |
| >>>PLMN Identity | M |  | 9.2.3.8 |  |  |  |

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| --- | --- |
| Range bound | Explanation |
| maxnoofTACs | Maximum no. of TACs. Value is 256. |
| maxnoofBPLMNs | Maximum no. of Broadcast PLMNs. Value is 6. |
| maxnoofCSGIds | Maximum no. of CSG Ids within the CSG Id List. Value is 256. |
| maxnoofConnecteden-gNBs | Maximum no. of en-gNBs connected to the eNB. Value is 256. |