**3GPP TSG-RAN3 Meeting #108-e *R3-20xxxx***

**E-Meeting, 01 – 11 June, 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.460** | **CR** | **0029** | **rev** | **5** | **Current version:** | **16.0.0** |  |
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| *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:***  | CR to TS 38.460 on support of NPN |
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| ***Source to WG:*** | Huawei, China Telecom, Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | RAN3 |
|  |  |
| ***Work item code:*** | NG\_RAN\_PRN |  | ***Date:*** | 2020-05-21 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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)* |
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| ***Reason for change:*** | It was agreed to support non-public network (NPN) for RAN in [RP-191563], which includes both the Stand-alone Non-Public Network (SNPN) and Public network integrated NPN. The agreements on NPN over E1 interface during RAN3#105 meeting were summarized in [R3-194686].These should be captured in specifications for disaggregatred gNB. |
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| ***Summary of change:*** | * Add description that the E1 setup and gNB-CU-UP Configuration Update functions functions allow to inform the supported NPN information by the gNB-DU

 Note: Stand-alone Non-Public Network (SNPN) info, i.e. NID, is included; PNI-NPN info (CAG ID) needs further discussion.  |
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| ***Consequences if not approved:*** | The NPN is not supported in case of CU-CP and CU-UP split architecture.  |
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| ***Clauses affected:*** | 5.1.1, 5.1.2 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev2: R3-201337 Update based on online comments. Rev3: R3-201567 Resubmit to RAN3#107Bis-e meeting. Rev4: R3-203022 Resubmit to RAN3#108-e meetingRev5: R3-20xxxx Remove the editor’s note as Rapporteur update for final completion of Rel-16 WI.  |

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## 5.1 General

The following clauses describe the functions supported over E1.

### 5.1.1 E1 interface management function

The error indication function is used by the gNB-CU-UP or gNB-CU-CP to indicate to the gNB-CU-CP or gNB-CU-UP that an error has occurred.

The reset function is used to initialize the peer entity after node setup and after a failure event occurred. This procedure can be used by both the gNB-CU-UP and the gNB-CU-CP.

The E1 setup function allows to exchange application level data needed for the gNB-CU-UP and gNB-CU-CP to interoperate correctly on the E1 interface. The E1 setup is initiated by both the gNB-CU-UP and gNB-CU-CP.

The gNB-CU-UP Configuration Update and gNB-CU-CP Configuration Update functions allow to update application level configuration data needed between the gNB-CU-CP and the gNB-CU-UP to interoperate correctly over the E1 interface.

The E1 setup and gNB-CU-UP Configuration Update functions allow to inform NR CGI(s), S-NSSAI(s), PLMN-ID(s), QoS information and NID(s) supported by the gNB-CU-UP.

The E1 setup and gNB-CU-UP Configuration Update functions allow the gNB-CU-UP to signal its capacity information to the gNB-CU-CP.

The E1 gNB-CU-UP Status Indication function allows to inform the overloaded or non-overloaded status over the E1 interface.

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