**3GPP TSG-CT WG1 Meeting #133-eC1-216694**

**E-meeting, 11-19 November 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.501** | **CR** | **3677** | **rev** | **2** | **Current version:** | **17.4.1** |  |
|  |
| *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 | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:***  | Applicability of 5GMM cause value #78 |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GSAT\_ARCH-CT |  | ***Date:*** | 2021-11-03 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Section 4.23.2 describes applicability and validity the indication of country of UE location. 5GMM cause value #78 should also be taken into account. |
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| ***Summary of change:*** | Applicability of 5GMM cause value #78 are clarified. |
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| ***Consequences if not approved:*** | It is not clear how 5GMM cause value #78 is used by the UE. |
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| ***Clauses affected:*** | 4.23.2 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### 4.23.2 Handling of 5GMM cause value #78 and network's indication of country of UE location

5GMM cause value #78 "PLMN not allowed to operate at the present UE location" and the network provided indication of country of UE location are only applicable for a UE accessing a PLMN using satellite NG-RAN. If the UE receives 5GMM cause value #78 "PLMN not allowed to operate at the present UE location" from a PLMN accessed via an access technology other than satellite NG-RAN, the UE shall consider it as an abnormal case and behave as described in subclauses 5.5.1.2.5, 5.5.1.3.5, 5.5.2.3.2, and 5.6.1.5. If the UE receives an indication of country of UE location from a network not accessed through satellite NG-RAN, the UE shall ignore the received indication.

The UE may receive 5GMM cause value #78 "PLMN not allowed to operate at the present UE location" or an indication of country of UE location, or both from the network in a REGISTRATION REJECT message, a DEREGISTRATION REQUEST message, or a SERVICE REJECT message. If provided, the 5GMM cause value and the indication of country of UE location may be used described in 3GPP TS 23.122 [5].

If an indication of country of UE location is provided to the UE, that indication will be valid until the next successful initial registration to a PLMN through satellite access or when updated by the network.

Editor's note [5GSAT\_ARCH-CT, CR#3219]: It is FFS if and how the HPLMN can influence the validity and use of the indication of country of UE location in the UE.

Editor's note [5GSAT\_ARCH-CT, CR#3219]: The name and the encoding of the information element providing the country of the UE location is FFS.