**3GPP TSG-CT WG1 Meeting #130-eC1-213099-draft-rev01**

**Electronic meeting, 20-28 May 2021 was C1-213099**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.501** | **CR** | **3219** | **rev** | **1** | **Current version:** | **17.2.1** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | UE's handling of the received MCC list | | | | | | | | | |
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| ***Source to WG:*** | OPPO | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GSAT\_ARCH-CT | | | | |  | ***Date:*** | | | 2021-05-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | 23.502CR#2482 (S2-2101667) introduced the provision of a MCC list by the AMF to the UE in certain reject messages. So in 24.501, the handling of this received MCC list has to be specified.  For instance, it has to be clear in CT1 NAS specifications if:-  - if the MCC list is applcable only in NTN or in both TN and NTN;  - if this MCC list is rceievd from AMF when not in NTN, how is it handled;  - duration or length of time the received MCC list is valid  This CR proposes  - MCC list is only applicable for use in NTN; - if MCC list is recived from a TN PLMN, it shall be disgarded;  - the received MCC list applies till UE successfully registers to another PLMN. The reasoning behind this proposal is that too early discard of the MCC list can lead to the UE selecting back to the same NTN PLMN that provided the reject and MCC list, even repeatedly. This will happen in following scenario:-  UE is in NTN PLMN-A. There is only one NTN PLMN around but there are TN PLMNs.  UE gets #79 with a MCC list. UE does a search , and maybe even search in TN radio … UE find a TN PLMN but gets rejected with #11. Then UE has to search for another PLMN again.  If the MCC list was deleted upon the last search (that resulted in attempt to the TN PLMN), the next search by the UE will lead the UE to re-attempt the NTN PLMN-A. | | | | | | | | |
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| ***Summary of change:*** | | The MCC list :-  - is only valid for NTN;  - can only be received from NTN network,  - when received valid for use till next successful initial registration to a NTN or when update by subsequent reject from a NTN network. | | | | | | | | |
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| ***Consequences if not approved:*** | | It remains unknown how to implement the use and handling of the received MCC list | | | | | | | | |
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| ***Clauses affected:*** | | 4.xx (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

## 4.XX NAS over Non-Terrestrial Network

### 4.XX.1 General

### 4.XX.2 Handling of MCC list

The MCC list is only applicable for a UE operating in satellite access mode.

The UE may receive a MCC list from the network in REGISTRATION REJECT, DEREGISTRATION REQUEST or SERVICE REJECT. If provided, the contents of the MCC list may be put to use in proeedures described in 3GPP TS 23.122 [5].

If a MCC list is provided to the UE, that list will be valid until the next successful initial registration to a PLMN through satellite access or when updated by the network.

If the UE receives the MCC list from a network not accessed through satellite access, the UE shall ignore the received MCC list.

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

\* \* \* End of Changes \* \* \* \*