**3GPP TSG-CT WG1 Meeting #126-eC1-20xxxx**

**Electronic meeting, 15-23 October 2020 (was C1-205843)**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.502** | **CR** | **0153** | **rev** | **1** | **Current version:** | **17.0.0** |  |
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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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Alignment of the removing of PLMN from the list of "forbidden PLMNs for non-3GPP access to 5GCN" |
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| ***Source to WG:*** | vivo, Ericsson |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GProtoc17 |  | ***Date:*** | 2020-09-23 |
|  |  |  |  |  |
| ***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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)* |
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| ***Reason for change:*** | In TS 24.502, it is specified that the list of "forbidden PLMNs for non-3GPP access to 5GCN" is deleted when the MS is switched off.However, in TS 24.501 it is specified that when the MS is switched off and if the PLMN-specific attempt counter fulfil some conditions then the corresponding PLMN is removed from the forbidden PLMN list for non-3GPP access.Quote:"*When the UE is switched off, the UE shall, for each PLMN-specific attempt counter for non-3GPP access that has a value greater than zero and less than the UE implementation-specific maximum value, remove the respective PLMN from the forbidden PLMN list for non-3GPP access. When the USIM is removed, the UE should perform this action.*"Therefore, it is proposed to clarify that if the value of the PLMN-specific attempt counter for non-3GPP access for the PLMN has a value greater than zero and less than the UE implementation-specific maximum value, the corresponding VPLMN is removed from the forbidden PLMN list for non-3GPP access when the MS is switched off or the the USIM is removed. |
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| ***Summary of change:*** | Propose to clarify that if the value of the PLMN-specific attempt counter for non-3GPP access for the PLMN has a value greater than zero and less than the UE implementation-specific maximum value when the MS is switched off or the UICC containing the USIM is removed, then the corresponding VPLMN is removed from the list of "forbidden PLMNs for non-3GPP access to 5GCN" in the specification of TS 24.502 to align with TS 24.501. |
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| ***Consequences if not approved:*** | Incorrect specification on removing of PLMN from the list of "forbidden PLMNs for non-3GPP access to 5GCN" in TS 24.502, which is not aligned with TS 24.501. |
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| ***Clauses affected:*** | 4.6 |
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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:*** |  |

\*\*\*\*\* start of change \*\*\*\*\*

## 4.6 Forbidden PLMNs for non-3GPP access to 5GCN

A list of "forbidden PLMNs for non-3GPP access to 5GCN" contains a list of VPLMNs, 5GCN of which the UE is forbidden to access via non-3GPP access.

The HPLMN (if the equivalent HPLMN list is not present or is empty) or an equivalent HPLMN (if equivalent HPLMN list is present) shall not be stored on the list of "forbidden PLMNs for non-3GPP access".

3GPP TS 24.501 [4] specifies when a VPLMN is added to the list of "forbidden PLMNs for non-3GPP access to 5GCN".

When the UE is configured to use timer T3245 (see 3GPP TS 24.368 [38] or 3GPP TS 31.102 [35]), the UE adds a PLMN identity to the list of "forbidden PLMNs for non-3GPP access to 5GCN" and timer T3245 (see 3GPP TS 24.008 [28]) is not running, then the UE shall start timer T3245 as specified in 3GPP TS 24.008 [28], subclause 4.1.1.6.

If the list of "forbidden PLMNs for non-3GPP access to 5GCN" is stored in a non-volatile memory in the ME together with the SUPI from the USIM, this list can only be used if the SUPI from the USIM matches the SUPI stored in the non-volatile memory; else the UE shall delete this list.

A VPLMN is removed from the list of "forbidden PLMNs for non-3GPP access to 5GCN" if:

- there is a successful registration as specified in 3GPP TS 24.501 [4] over a non-3GPP access after a manual selection of the VPLMN for non-3GPP access connected to 5GCN;

- the UE is not configured to use timer T3245, and the value of the PLMN-specific attempt counter for non-3GPP access for the PLMN has a value greater than zero and less than the UE implementation-specific maximum value as defined in subclause 5.3.20 in 3GPP TS 24.501 [4] and T3247 expires;

- upon expiry of the timer T3245 if the UE is configured to use timer T3245; or

- the UE is not configured to use timer T3245, and the value of the PLMN-specific attempt counter for non-3GPP access for the PLMN has a value greater than zero and less than the UE implementation-specific maximum value as defined in subclause 5.3.20 in 3GPP TS 24.501 [4] when the MS is switched off or the UICC containing the USIM is removed.

\*\*\*\*\* End of changes \*\*\*\*\*