**3GPP TSG-CT WG1 Meeting #141eC1-23xxxx**

**Online 17– 21 April 2023 *was C1-232405***

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  | **24.501** | **CR** | **5289** | **rev** | **1** | **Current version:** | **18.2.1** |  |
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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:***  | Clarification on handling of received T3502 in registration reject message |
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| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | C1 |
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| ***Work item code:*** | 5GProtoc18 |  | ***Date:*** | 2023-03-20 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | About how to apply the T3502 in the registration reject message, following issues need to be clarified:**Issue 1**: whether the network shall include the T3502 in every registration reject message if the network wants to apply this T3502, because the following is contradicted.The value of timer T3502 can be sent by the network to the UE in the REGISTRATION REJECT message during the initial registration. If a REGISTRATION REJECT message including timer T3502 value was received integrity protected, the UE shall apply this value until a new value is received with integrity protection or a new PLMN or SNPN is selected. Otherwise, the default value of this timer is used.As specified, only during the initial registration(attach procedure in LTE), the T3502 can be sent in the registration reject message:The value of timer T3502 can be sent by the network to the UE in the REGISTRATION REJECT message during the initial registration. If a REGISTRATION REJECT message including timer T3502 value was received integrity protected, the UE shall apply this value until a new value is received with integrity protection or a new PLMN or SNPN is selected. Otherwise, the default value of this timer is used.but never consider the following issue:**Issue 2**: the UE performs the mobility registration, is rejected by the network(e.g.with CC cause #22 or #62) but without the T3502, then the UE performs the mobility registration to the same PLMN fives times without response from the network, then needs to start T3502, what the value shall be applied as the T3502?About issue 1, to make it clear that the network shall include the T3502 in every registration reject message if the network wants to apply this T3502, it is proposed to remove “until a new value is received”. About issue 2, because the received T3502 in the registration accept message is applicable in the registration area, if the UE is rejected by the network, the UE may not know whether it is in the registration area, hence applying the received T3502 in the registration accept message is not suitable. Hence for this case, it is proposed to apply the default value.Hence, it is proposed:If the UE is rejected in the mobility registration (e.g.with CC cause #22 or #62), performs the mobility registration to the same PLMN again, the UE shall apply the default value. |
| ***a)*** |  |
| ***Summary of change:*** | It is proposed:1. The network shall include the T3502 in every registration reject message during the initial registration peocedure, if the network wants to apply this T3502;
2. If the UE is rejected in the mobility registration (e.g.with CC cause #22 or #62), performs the mobility registration to the same PLMN again, the UE shall apply the default value.
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| ***Consequences if not approved:*** | 1. The UE may keep using the stored T3502 if not receiving T3502 in registation reject message;
2. The UE may keep using the stored T3502 received n the registration accept message, if:

the UE receives the REGISTRATION REJECT message during the registration procedure for mobility and periodic registration update, enters the substate 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE, performs the registration procedure for mobility and periodic registration update to the same PLMN again, but fails and the registration attempt counter is equal to 5. |
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| ***Clauses affected:*** | 5.3.8 |
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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:*** |  |

\*\*\*\*\*First change \*\*\*\*\*

### 5.3.8 Handling of timer T3502

The value of timer T3502 can be sent by the network to the UE in the REGISTRATION ACCEPT message. The UE shall apply this value in all tracking areas of the registration area assigned to the UE, until a new value is received.

The value of timer T3502 can be sent by the network to the UE in the REGISTRATION REJECT message during the initial registration. If a REGISTRATION REJECT message including timer T3502 value was received integrity protected, the UE shall apply this value. Otherwise, the default value of this timer is used.

The default value of this timer is also used by the UE in the following cases:

a) REGISTRATION ACCEPT message is received without a value specified;

b) the UE does not have a stored value for this timer;

c) a new PLMN which is not in the list of equivalent PLMNs or a new SNPN has been entered, the initial registration procedure fails, the registration attempt counter is equal to 5 and no REGISTRATION REJECT message was received from the new PLMN or SNPN;

d) the network indicates that the timer is "deactivated";

e) a new PLMN which is not in the list of equivalent PLMNs or a new SNPN has been entered, the registration procedure for mobility and periodic registration update fails and the registration attempt counter is equal to 5or

x) The UE receives the REGISTRATION REJECT message during the registration procedure for mobility and periodic registration update, enters the substate 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE, performs the registration procedure for mobility and periodic registration update to the same PLMN again, but fails and the registration attempt counter is equal to 5.

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