**3GPP TSG-CT1 Meeting #123-e**C1-203530

**Online, , 16th Apr 2020 - 24th Apr 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
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|  | **25.501** | **CR** | **1415** | **rev** | **8** | **Current version:** | **16.4.1** |  |
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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:***  | Handling of MCS data in various 5GMM states. |
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| ***Source to WG:*** | Samsung, Ericsson?? |
| ***Source to TSG:*** | C1 |
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| ***Work item code:*** | 5GProtoc16 |  | ***Date:*** | 2020-05-26 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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:*** | The UE configured for high priority access in selected PLMN can not initiate signaling in following conditons. The UE configured as high priority access should be allowed to initiates siganling in following state upon request from the upper layer. 1. The UE is in 5GMM.DEREGISTERED.ATTEMPTING-REGISTRATION state.
2. The UE is in a 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE state.
3. The UE is in a 5GMM-REGISTERED with 5GMM IDLE state.

There are exception defined for UE configured for high priority access. An exmple is given below.*c)  Timer T3346 is running.**The UE shall not start the service request procedure unless:**1)  the UE receives a paging;**2)  the UE receives a NOTIFICATION message over non-3GPP access when the UE is in 5GMM-CONNECTED mode over non-3GPP access and in 5GMM-IDLE mode over 3GPP access;**3)  the UE receives a NOTIFICATION message over 3GPP access when the UE is in 5GMM-CONNECTED mode over 3GPP access and in 5GMM-IDLE mode over non-3GPP access;**4)  the UE is a UE configured for high priority access in selected PLMN;**5)  the UE has an emergency PDU session established or is establishing an emergency PDU session; or**6)  the service request is initiated for emergency services fallback.* |
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| ***Summary of change:*** | Specificy following1. The UE in 5GMM.DEREGISTERED.ATTEMPTING-REGISTRATION state initiates initial registration procedure when the UE is configured as high priority access.
2. The UE in a 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE state initiates registration update procedure when the UE is configured as high priority access.
3. The UE in a 5GMM-REGISTERED with 5GMM IDLE state.
4. initiates service request procedure when the UE is configured as high priority access..
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| ***Consequences if not approved:*** | Sending data for the UE configured to access high priority will be delayed. |
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| ***Clauses affected:*** | 5.2.2.3.3 and 5.2.3.2.3 |
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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:*** |  |
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| ***This CR's revision history:*** |  |

##### 5.2.2.3.3 ATTEMPTING-REGISTRATION

The UE in 3GPP access:

a) shall initiate an initial registration procedure on the expiry of timers T3502, T3511 or T3346;

b) may initiate an initial registration procedure for emergency services even if timer T3346 is running;

b1) may initiate an initial registration procedure even if timer T3346 is running, the UE is a UE configured for high priority access in selected PLMN;

c) shall initiate an initial registration procedure when entering a new PLMN, except

i) if timer T3346 is running and the new PLMN is equivalent to the PLMN where the UE started timer T3346;

ii) if the PLMN identity of the new cell is in the forbidden PLMN lists; or

ii) if the tracking area is in one of the lists of 5GS forbidden tracking areas;

d) shall initiate an initial registration procedure when the tracking area of the serving cell has changed, if timer T3346 is not running, the PLMN identity of the new cell is not in one of the forbidden PLMN lists and the tracking area of the new cell is not in one of the lists of 5GS forbidden tracking areas; and

e) shall initiate an initial registration procedure if the 5GS update status is set to 5U2 NOT UPDATED, and timers T3511, T3502 and T3346 are not running.

The UE in non-3GPP access:

a) shall initiate an initial registration procedure on the expiry of timers T3502, T3511 or T3346;

b) may initiate an initial registration procedure for emergency services even if timer T3346 is running;

b1) may initiate an initial registration procedure even if timer T3346 is running, the UE is a UE configured for high priority access in selected PLMN;

c) shall initiate an initial registration procedure when entering a new PLMN, except if timer T3346 is running and the new PLMN is equivalent to the PLMN where the UE started timer T3346; and

d) shall initiate an initial registration procedure if the 5GS update status is set to 5U2 NOT UPDATED, and timers T3511, T3502 and T3346 are not running.

##### 5.2.3.2.3 ATTEMPTING-REGISTRATION-UPDATE

The UE in 3GPP access:

a) shall not send any user data;

b) shall initiate a registration procedure for mobility and periodic registration update on the expiry of timers T3502, T3511 or T3346;

c) shall initiate a registration procedure for mobility and periodic registration update when entering a new PLMN, if timer T3346 is running and the new PLMN is not equivalent to the PLMN where the UE started timer T3346, the PLMN identity of the new cell is not in the forbidden PLMN lists, and the tracking area is not in one of the lists of 5GS forbidden tracking areas;

d) shall initiate a registration procedure for mobility and periodic registration update when the tracking area of the serving cell has changed, if timer T3346 is not running, the PLMN identity of the new cell is not in one of the forbidden PLMN lists and the tracking area is not in one of the lists of 5GS forbidden tracking areas;

e) may initiate a registration procedure for mobility and periodic registration update upon request of the upper layers to establish an emergency PDU session;

e1) may initiate a registration procedure for mobility and periodic registration update upon request of the upper layers to establish a PDU session, if the the UE is a UE configured for high priority access in selected PLMN;

f) may perform de-registration locally and initiate a registration procedure for initial registration for emergency services even if timer T3346 is running;

g) shall initiate registration procedure for mobility and periodic registration update upon reception of paging, or upon reception of NOTIFICATION message with access type indicating 3GPP access;

h) may initiate a registration procedure for mobility and periodic registration update upon request for an MMTEL voice call or MMTEL video call from the upper layers, if timer T3346 is not running;

i) shall initiate a registration procedure for mobility and periodic registration update if the 5GS update status is set to 5U2 NOT UPDATED, and timers T3511, T3502 and T3346 are not running;

j) if configured for eCall only mode as specified in 3GPP TS 31.102 [22], shall perform the eCall inactivity procedure at expiry of timer T3444 or timer T3445 (see subclause 5.5.3); and

k) shall not initiate de-registration procedure unless timer T3346 is running and the current TAI is part of the TAI list.

The UE in non-3GPP access:

a) shall not send any user data;

b) shall initiate the registration procedure for mobility and periodic registration update on the expiry of timers T3502, T3511 or T3346;

c) may initiate a registration procedure for mobility registration update upon request of the upper layers to establish an emergency PDU session;

c1) may initiate a registration procedure for mobility and periodic registration update upon request of the upper layers to establish a PDU session, the UE is a UE configured for high priority access in selected PLMN;

d) may perform de-registration locally and initiate a registration procedure for initial registration for emergency services even if timer T3346 is running;

e) may initiate a registration procedure for mobility and periodic registration update upon request for an MMTEL voice call or MMTEL video call from the upper layers, if timer T3346 is not running;

f) shall initiate a registration procedure for mobility and periodic registration update if the 5GS update status is set to 5U2 NOT UPDATED, and timers T3511, T3502 and T3346 are not running; and

g) shall not initiate de-registration procedure unless timer T3346 is running.