**3GPP TSG-CT WG1 Meeting #128-eC1-210XXX**

**Electronic meeting, 25 February – 5 March 2021**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.173** | **CR** | **XXXX** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | MMTEL Voice and MMTEL Video in non-3GPP | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17-non3GPP | | | | |  | ***Date:*** | | | 2021-03-03 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | Not matter in 3GPP access or non-3GPP access, the information about the MMTEL call started/ended needs to be provided to the NAS layer. However it is only described in the UAC relevant clause of current specification. While the UAC is only applicable to 3GPP access. That is for non-3GPP access, there is description about the providing of MMTEL call started/ended information. Consequently, there is no way to setup mo-VoiceCall and mo-Videocall Establishment cause for non-3GPP access. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarfiy that no matter in 3GPP access or non-3GPP access, the information about the MMTEL call started/ended needs to be provided to the NAS layer | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | For non-3GPP access, the information about MMTEL call started/ended will not be provided to the NAS layer | | | | | | | | |
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| ***Clauses affected:*** | | M.2.1.X (new), M.2.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\* start of 1st change\*\*\*\*\*

### M.2.1.X Application initiation

The following information is provided to the non-access stratum:

- MO-MMTEL-voice-started;

- MO-MMTEL-voice-ended;

- MO-MMTEL-video-started;

- MO-MMTEL-video-ended;

- for 3GPP only, handover of ongoing MMTEL voice call from non-3GPP access; and

- for 3GPP only, handover of ongoing MMTEL video call from non-3GPP access.

\*\*\*\*\* end of 1st change\*\*\*\*\*

\*\*\*\*\* start of 2nd change\*\*\*\*\*

### M.2.1.1 Unified Access Control

Upon request from a user to establish an originating multimedia telephony communication session as described in subclause 5.2:

1) if the multimedia telephony communication session to be established is an emergency session, then skip the rest of steps below and continue with session establishment as described in subclause 5.2;

2) if only audio or only real-time text or only both audio and real-time text (see subclause 4.2 for 3GPP systems) are offered in the multimedia telephony communication session, and no other originating multimedia telephony communication session initiated with offering only audio or only real-time text or only both audio and real-time text exists, the UE sends the MO-MMTEL-voice-started indication to the non-access stratum and

a) if the barring result is "not-barred", continue with session establishment as described in subclause 5.2; and

b) if the barring result is "barred", reject the multimedia telephony communication session establishment and skip the rest of steps below; and

3) if video is offered in the multimedia telephony communication session, and no other originating multimedia telephony communication session initiated with offering video exists, the UE sends the MO-MMTEL-video-started indication to the non-access stratum and

a) if the barring result is "not-barred", continue with session establishment as described in subclause 5.2; and

b) if the barring result is "barred", reject the multimedia telephony communication session establishment and skip the rest of steps below.

NOTE: Adding or removing media during the multimedia telephony communication session is not subject to unified access control.

When an originating multimedia telephony communication session ends (i.e. a response to a BYE or a failure response to the initial INVITE request is transferred), the originating multimedia telephony communication session was initiated with offering only audio or only real-time text or only both audio and real-time text (i.e. in the SDP offer in the initial INVITE request), and no other originating multimedia telephony communication session initiated with offering only audio or only real-time text or only both audio and real-time text exists, the UE sends the MO-MMTEL-voice-ended to the non-access stratum.

When an originating multimedia telephony communication session ends (i.e. a response to a BYE or a failure response to the initial INVITE request is transferred), the originating multimedia telephony communication session was initiated with offering video (i.e. in the SDP offer in the initial INVITE request), and no other originating multimedia telephony communication session initiated with offering video exists, the UE sends the MO-MMTEL-video-ended indication to the non-access stratum.

When an ongoing multimedia telephony communication session is handed over from non-3GPP access to 3GPP access:

1) if only audio or only real-time text or only both audio and real-time text (see subclause 4.2 for 3GPP systems) are used in the multimedia telephony communication session, the UE sends the MO-MMTEL-voice-started indication and the handover of ongoing MMTEL voice call from non-3GPP access indication to the non-access stratum; and

2) if video is used in the multimedia telephony communication session, the UE sends the MO-MMTEL-video-started indication and the handover of ongoing MMTEL video call from non-3GPP access indication to the non-access stratum.

\*\*\*\*\* end of 2nd change\*\*\*\*\*