**3GPP TSG-CT WG1 Meeting #130-eC1-213343**

**Electronic meeting, 20 – 28 May 2021**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **3050** | **rev** | **3** | **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:*** | MMTEL Voice and MMTEL Video in non-3GPP | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17-non3GPP | | | | |  | ***Date:*** | | | 2021-05-13 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | According to the following text quoted from M 2.1.1 of TS 24.173 shows, the MMTEL layer may provide the “handover of ongoing MMTEL voice call from non-3GPP access” or “handover of ongoing MMTEL video call from non-3GPP access” relevant information to NAS layer. The ongoing MMTEL voice/video call can be handover from non-3GPP access, that also means the MMTEL voice/video call was performed over non-3GPP access. However there is no corresponding establishment cause for MMTEL voice call and MMTEL video call over non-3GPP access | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the establishment causes for MMTEL voice call and MMTEL video call over non-3GPP access | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Lack of establishment causes for MMTEL voice call and MMTEL video call over non-3GPP access | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.7.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 24.502 C1-213344 and TS 24.173 C1-213345 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Was C1-211457  Update cover page, and add change text for mapping access attempt to AC | | | | | | | | |

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

#### 4.7.2.2 Establishment cause for non-3GPP access

When establishment of an N1 NAS signalling connection over non-3GPP access is initiated, the UE shall:

a) determine one or more access identities to be associated with the establishment of the N1 NAS signalling connection as specified in subclause 4.5.2 and table 4.5.2.1;

b) select the establishment cause for non-3GPP access from the determined one or more access identities and the event which triggered initiation of the N1 NAS signalling connection over non-3GPP access by checking the rules specified in table 4.7.2.2.1; and

c) provide the selected establishment cause for non-3GPP access to the lower layers.

While an MMTEL voice call is ongoing:

- any service request procedure related to the PDU session established for DNN = "IMS" is mapped to "MO MMTel voice call" type access attempt; and

- any:

1) service request procedure; or

2) registration procedure;

initiated in 5GMM-IDLE mode is mapped to "MO MMTel voice call" type access attempt.

While an MMTEL video call is ongoing and no MMTEL voice call is ongoing:

- any service request procedure related to the PDU session established for DNN = "IMS" is mapped to "MO MMTel video call" type access attempt; and

- any:

1) service request procedure; or

2) registration procedure;

initiated in 5GMM-IDLE mode is mapped to "MO MMTel video call" type access attempt.

If the access attempt matches more than one rule, the establishment cause for non-3GPP access of the lowest rule number shall be used.

Table 4.7.2.2.1: Mapping table for determination of establishment cause for non-3GPP access

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rule # | Access identities | Type of access attempt | Requirements to be met | Establishment cause for non-3GPP access |
| 1 | 1 | Any | Any | mps-PriorityAccess |
| 2 | 2 | Any | Any | mcs-PriorityAccess |
| 3 | 11, 15 | Any | Any | highPriorityAccess |
| 4 | 12,13,14, | Any | Any | highPriorityAccess |
| 5 | 0 | Emergency | UE is attempting access for an emergency session (NOTE 1) | emergency |
| UE NAS initiated 5GMM specific procedures | Access attempt is for MO signalling | mo-Signalling |
| UE NAS initiated 5GMM connection management procedures or 5GMM NAS transport procedure | Access attempt is for MO data | mo-Data |
| MO SMS over NAS | Access attempt is for MO SMS over NAS | mo-SMS |
| MO MMTel voice call | Access attempt is for MO MMTel voice call | mo-VoiceCall |
| MO MMTel video call | Access attempt is for MO MMTel video call | mo-Videocall |
| NOTE 1: This includes 5GMM specific procedures while the service is ongoing and 5GMM connection management procedures required to establish a PDU session with request type = "initial emergency request" or "existing emergency PDU session", or to re-establish user-plane resources for such a PDU session.  NOTE 2: See subclause 4.5.2, table 4.5.2.1 for use of the access identities of 0, 1, 2, and 11-15. | | | | |

\*\*\*\*\* end of change\*\*\*\*\*