**3GPP TSG-SA WG6 Meeting #62 S6-243365**

**Maastricht, 19th – 23th August 2024 (revision of S6-243087)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
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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 | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | MCPTT voice store | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | at&t, FirstNet, Samsung | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enhMC | | | | |  | ***Date:*** | | | August 3, 2024 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In the Enhanced Mission Critical Architecture for R-19 work item (WI # 1000039 - enhMC), the objective (1d) is to “Expand the message storage coverage to also MCPTT and MCVideo services”.  In this CR, the MCPTT voice storage is added to the functional model to allow authorized user to save the MCPTT conversations for later replay. Unlike MCData message that supports complex operations on MCData message store, the proposal for MCPTT voice store is simple and only to save MCPTT conversations; leaving all comprehensive folder managements to implementation.  Here are some stage 1 related requirements:  [R-7.14-001a] The Off-Network MCX Service shall provide a mechanism for a Mission Critical Organization to record the media content of the transmitting Participant of Group Communications and Private Communications under the organization's authority from MCX UEs operating in off-network mode.  NOTE: The handling of storage limitation of the UE is out of scope of 3GPP.    [R-7.14-002] Upon return to on-network operation, the MCX Service shall provide a mechanism to retrieve communication and non-communication activity metadata from an MCX UE that has collected such metadata while operating in off-network mode.  [R-7.14-002a] Upon return to on-network operation, the MCX Service shall provide a mechanism to retrieve the media content of the transmitting Participant of Group Communications and Private Communications from an MCX UE that has recorded such media content while operating in off-network mode. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Add MCPTT voice store to the functional model. 2. Add new reference point, MCPTT-11, between MCPTT client and network-based MCPTT voice store for backup and restore. 3. Add new clause to describe the MCPTT vice store. 4. Add new clause to describe how MCPTT conversation is recorded and the backup and restore. 5. Add new user profile configuration parameters to control who can record MCPTT conversations. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No support for MCPTT message store to improve end user experience.. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.20 (new), 10.20.1 (new), 10.20.2 (new), 10.20.3 (new), 10.20.4 (new), 10.20.5 (new), A.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

## 10.20 Save MCPTT conversations

### 10.20.1 General

A MCPTT conversation can be saved (through recording) by an authorized MCPTT user; to be replayed at a later time. An authorized MCPTT user can record a whole MCPTT conversation from the beginning of the conversation or partial conversation at any time during the conversation. The recording is performed by the MCPTT client on the UE participating in that MCPTT conversation by the MCPTT user and stored locally on the device. To assure the saved MCPTT conversations on the UE will not be deleted after a user logs off the device, a network-based MCPTT voice store is defined as a repository to permanently store saved MCPTT conversations until an authorized MCPTT user removes them.

### 10.20.2 Functional Model Enhancements

The figure 10.20.2-1 below illustrates the addition to the MCPTT functional model to support MCPTT voice store.



Figure 10.20.2.1: Functional model enhancement with MCPTT voice store

The MCPTT voice store exists on both a MCPTT UE and the network. It is originally created by the MCPTT UE, if one has not been created, to store recorded MCPTT conversations. To prevent any data loss, the content of MCPTT client backs up its MCPTT voice store contents to the network-based MCPTT voice store. When a MCPTT user logs off the MCPTT service with the UE, the UE shall back up all the local MCPTT voice store content to the network-based MCPTT voice store.

NOTE 1: It is out of scope of this specification and implementation specific that when the MCPTT client will backup its local MCPTT voice store to the network-based MCPTT message store.

NOTE 2: The data structure of a MCPTT voice store is out of the scope of this specification and implementation specific. The network-based MCPTT voice store supports the same data structure of the MCPTT UE’s MCPTT voice store.

NOTE 3: The management of the MCPTT voice store is performed by the MCPTT client on local MCPTT voice store and synchronized to the network-based MCPTT voice store which is out of scope of this specification and implementation specific.

### 10.20.3 Reference point MCPTT-11 (between the network-based MCPTT voice store and the MCPTT client)

The MCPTT-11 reference point which exists between the network-based MCPTT voice store and the MCPTT client is used to support backup and restore of a user’s saved MCPTT conversations.

### 10.20.4 MCPTT voice store

For a MCPTT user that is authorized to save MCPTT conversations, the MCPTT voice store is used to store the saved MCPTT conversations. The MCPTT voice store exists on the UE that the MCPTT user is using for MCPTT service and also exists in the network as a permanent repository of the user’s saved MCPTT conversations. The device based MCPTT voice store is dedicated only to the MCPTT user that is using MCPTT service on that device while the network-based MCPTT voice store is a common storage area for all MCPTT users saved MCPTT conversations. Each MCPTT user will have a dedicated and secured storage area in the network-based MCPTT voice store, as an account, that can only be accessed by the authorized user.

A MCPTT conversation shall be stored as an object with the following information:

1. The conversation itself; and
2. The associated metadata such as:
   1. The time of day of the conversation
   2. The calling/called party information (may include group related information for a group conversation)
   3. Length of the conversation
   4. Voice codec

NOTE: It is the decision of SA3 on the mechanism to store an encrypted MCPTT conversation in the MCPTT voice store.

Figure 10.20.4-1 below illustrates the high-level structure of a network-based MCPTT voice store.



Figure 10.20.4-1 Network-based MCPTT voice store structure

The network-based MCPTT message storage supports a common root that points to individual MCPTT voice store for each user account.

The authorized MCPTT user shall only have the access to the MCPTT user's storage area (i.e. account) after the successful authentication and authorization procedures. A MCPTT user shall not be able to access objects stored for other MCPTT users on the network-based message store. The objects stored in individual user account in the network-based MCPTT voice store is the exact copy of user’s MCPTT voice store locally on the UE used.

NOTE: The UE MCPTT voice store structure is implementation specific, there is no need to support the same data structure for all individual user account in the network-based MCTPP voice store.

### 10.20.5 Record a MCPTT conversation

#### 10.20.5.1 Authorization to record

The MCPTT user profile is provisioned if recording a MCPTT conversation is allowed. The authorization to record is controlled by two levels of authorization, if the MCPTT conversation can be recorded at the top level and once it is allowed if the private and/or group conversation can be recorded.

#### 10.20.5.2 MCPTT conversation recording

A MCPTT conversation recording is performed by the MCPTT client, on behave of the MCPTT user, that participates in the MCPTT conversation. It is implementation specific on how the MCPTT client interacts with the MCPTT user to perform the MCPTT conversation recording. To provide good user experience, an implementation may allow the MCPTT user to decide, when authorized, if a MCPTT conversation will be recorded at the beginning of a conversation or any time during a conversation. Similar user experience will also allow when a user determines to stop the conversation recording. All recorded MCPTT conversations shall be stored locally on the device in the MCPTT voice store.

#### 10.20.5.3 Synchronization to network-based MCPTT voice store

When a MCPTT user, with the authorization to record MCPTT conversation, logs into a UE for MCPTT service, the MCPTT client shall synchronize its local MCPTT voice store with the user’s network-based MCPTT voice store before starts the MCPTT service. If there is no content in the network-based MCPTT voice store of the MCPTT user, the MCPTT client shall create a MCPTT voice store on the device locally when it stores a recorded MCPTT conversation. When a MCPTT user logs off the MCPTT service, the MCPTT client shall backup the local MCPTT voice store to the network-based MCPTT voice store before terminates the MCPTT service.

NOTE: When a MCPTT user is authorized to record MCPTT conversations, a network-based MCPTT voice store account will be provisioned for that user to backup recorded MCPTT conversations permanently.

\* \* \* \* Next change \* \* \* \*

# A.3 MCPTT user profile configuration data

The general aspects of MC service user profile configuration data are specified in 3GPP TS 23.280 [16]. The MCPTT user profile configuration data is stored in the MCPTT user database. The MCPTT server obtains the MCPTT user profile configuration data from the MCPTT user database (MCPTT-2).

Tables A.3-1 and A.3-2 contain the MCPTT user profile configuration required to support the use of on-network MCPTT service. Tables A.3-1 and A.3-3 contain the MCPTT user profile configuration required to support the use of off-network MCPTT service. Data in table A.3-1 and A.3-3 can be configured offline using the CSC-11 reference point.

Table A.3-1: MCPTT user profile data (on and off network)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reference | Parameter description | MCPTT UE | MCPTT Server | Configuration management server | MCPTT user database |
| Subclause 8.1.2 of 3GPP TS 23.280 [16] | MCPTT user identity (MCPTT ID) | Y | Y | Y | Y |
| 3GPP TS 33.180 [19] | KMSUri for security domain of MCPTT ID (see NOTE 4) | Y | Y | Y | Y |
| Subclause 5.2.4 of 3GPP TS 23.280 [16] | Pre‑selected MCPTT user profile indication (see NOTE 3) | Y | Y | Y | Y |
| Subclause 5.2.4 of 3GPP TS 23.280 [16] | MCPTT user profile index | Y | Y | Y | Y |
| Subclause 5.2.4 of 3GPP TS 23.280 [16] | MCPTT user profile name | Y | Y | Y | Y |
| [R-5.19-007],  [R-6.13.4-002] of 3GPP TS 22.280 [17] | User profile status (enabled/disabled) |  | Y | Y | Y |
| [R-5.8-001],  [R-6.9-003] of 3GPP TS 22.280 [17] | Authorised to create and delete aliases of an MCPTT User and its associated user profiles. |  |  | Y | Y |
| [R-5.8-002],  [R-6.9-003] of 3GPP TS 22.280 [17] | Alphanumeric aliases of user | Y | Y | Y | Y |
| [R-5.10-001] of 3GPP TS 22.280 [17] | Participant type of the user | Y | Y | Y | Y |
| [R-5.3-002],  [R-5.10-001] of 3GPP TS 22.280 [17] | User's Mission Critical Organization (i.e. which organization a user belongs to) | Y | Y | Y | Y |
| [R-5.4.2-003] of 3GPP TS 22.280 [17] | Maximum number of simultaneously received group calls (Nc5) |  | Y | Y | Y |
| [R-5.6.5-004] of 3GPP TS 22.179 [2] | Authorised to make a private call | Y | Y | Y | Y |
| [R-5.6.5-001] of 3GPP TS 22.179 [2] | Authorised to make a private call with manual commencement | Y | Y | Y | Y |
| [R-5.6.5-003] of 3GPP TS 22.179 [2]  [R-6.7.3-007] of 3GPP TS 22.280 [17] | List of user(s) who can be called in private call |  |  |  |  |
|  | > MCPTT ID | Y | Y | Y | Y |
|  | > User info ID | Y | N | Y | Y |
|  | > ProSe discovery group ID | Y | N | Y | Y |
| 3GPP TS 33.180 [19] | > KMSUri for security domain of MCPTT ID (see NOTE 4) | Y | Y | Y | Y |
| [R-6.7.4-004] of 3GPP TS 22.280 [17] | > Presentation priority relative to other users and groups (see NOTE 2) | Y | Y | Y | Y |
| [R-5.6.5-003] of 3GPP TS 22.179 [2] | Authorised to make a private call to users not included in "list of user(s) who can be called in private call" | Y | Y | Y | Y |
| [R-5.6.5-002] of 3GPP TS 22.179 [2] | Authorised to make a private call with automatic commencement | Y | Y | Y | Y |
| [R-5.6.3-011],  [R-6.7.4-010] of 3GPP TS 22.179 [2] | Authorisation of user to force automatic answer for a private call | Y | Y | Y | Y |
| [R-5.6.5-006],  [R-6.7.5-002] of 3GPP TS 22.179 [2] | Authorised to restrict the provision of a notification of call failure reason for private call | Y | Y | Y | Y |
| [R-5.13-001] of 3GPP TS 22.280 [17] | Authorisation to protect confidentiality and integrity of media in a private call (see NOTE 1) | Y | Y | Y | Y |
| [R-5.13-001] of 3GPP TS 22.280 [17] | Authorisation to protect confidentiality and integrity of floor control signalling in a private call (see NOTE 1) | Y | Y | Y | Y |
| [R-5.6.2.2.1-001] of 3GPP TS 22.280 [17] | Authorisation to make an MCPTT emergency group call functionality enabled for user | Y | Y | Y | Y |
| [R-5.6.2.4.1-001] of 3GPP TS 22.280 [17] | Group used on initiation of an MCPTT emergency group call (see NOTE 7) | Y | Y | Y | Y |
| [R-5.6.2.4.1-001] of 3GPP TS 22.280 [17] | Recipient for an emergency private MCPTT call (see NOTE 7) |  |  |  |  |
|  | > MCPTT ID | Y | Y | Y | Y |
| 3GPP TS 33.180 [19] | > KMSUri for security domain of MCPTT ID (see NOTE 4) | Y | Y | Y | Y |
| [R-5.6.2.2.2-005] of 3GPP TS 22.280 [17] | Authorisation to cancel an in progress emergency associated with a group | Y | Y | Y | Y |
| [R-5.6.2.2.3-001] of 3GPP TS 22.280 [17] | Authorised to make an Imminent Peril group call | Y | Y | Y | Y |
| [R-5.6.2.2.3-009] of 3GPP TS 22.280 [17] | Group used on initiation of an MCPTT imminent peril group call (see NOTE 8) | Y | Y | Y | Y |
| [R-5.6.2.2.2-002] of 3GPP TS 22.280 [17] | Authorised for imminent in- peril cancelation | Y | Y | Y | Y |
| [R-5.6.2.3.1-001] of 3GPP TS 22.179 [2] | Authorised to make an emergency private call | Y | Y | Y | Y |
| [R-5.6.2.3.2-001] of 3GPP TS 22.179 [2] | Authorised to cancel emergency priority in a private emergency call by an authorized user | Y | Y | Y | Y |
| [R-5.6.2.4.1-002] of 3GPP TS 22.280 [17] | Authorised to activate emergency alert | Y | Y | Y | Y |
| [R-5.6.2.4.1-013] of 3GPP TS 22.280 [17] | Automatically trigger a MCPTT emergency communication after initiating the MCPTT emergency alert | Y | Y | Y | Y |
| [R-5.6.2.4.2-002] of 3GPP TS 22.280 [17] | Authorisation to cancel an MCPTT emergency alert | Y | Y | Y | Y |
| [R-6.15.6.2-002] of 3GPP TS 22.280 [17] | Authorised to activate an MCPTT ad hoc group emergency alert | Y | Y | Y | Y |
| [R-6.15.6.2-006] of 3GPP TS 22.280 [17] | Authorisation to cancel an MCPTT ad hoc group emergency alert | Y | Y | Y | Y |
|  | Authorised to receive the participants information of an MCPTT ad hoc group emergency alert | N | Y | Y | Y |
| [R-6.15.6.2-007] of 3GPP TS 22.280 [17] | Authorised to set up a group call using the ad hoc group used for the alert | Y | Y | Y | Y |
|  | Authorised to modify the list of participants and criteria for an MCPTT ad hoc group emergency alert | Y | Y | Y | Y |
| [R-5.1.7-002] and  [R-6.8.7.2-007] and [R-6.8.7.2-008] of 3GPP TS 22.280 [17] | Priority of the user (see NOTE 9) |  | Y | Y | Y |
|  | Authorisation to record MCPTT communication (see NOTE 12) | Y | N | Y | Y |
|  | Record private MCPTT communication (see NOTE 13) | Y | N | Y | Y |
| [R-5.2.2-003] and  [R-6.6.3-002] of 3GPP TS 22.280 [17] | Authorisation to create a group-broadcast group (see NOTE 11) |  |  | Y | Y |
| [R-5.2.2-003] and  [R-6.6.3-002] of 3GPP TS 22.280 [17] | Authorisation to create a user-broadcast group (see NOTE 11) |  |  | Y | Y |
| [R-5.3-003],  [R-6.12-001],  [R-7.2-005] of 3GPP TS 22.280 [17] | Authorisation to provide location information to other MCPTT users on a call when talking |  | Y | Y | Y |
| 3GPP TS 23.283 [20] | Authorised to use LMR E2EE for interworking | Y | Y | Y | Y |
| 3GPP TS 23.283 [20] | > List of supported LMR technology types |  |  |  |  |
| 3GPP TS 23.283 [20] | >> LMR technology type (P25, TETRA etc.) | Y | N | Y | Y |
| 3GPP TS 23.283 [20] | >> URI of LMR key management functional entity (see NOTE 6) | Y | N | Y | Y |
| 3GPP TS 23.283 [20] | >> LMR specific identity (RSI for P25 or ITSI for TETRA) (see NOTE 5) | Y | N | Y | Y |
| 3GPP TS 23.283 [20] | >>LMR specific security information (see NOTE 5) | Y | N | Y | Y |
| [R-6.12-003] of 3GPP TS 22.280 [17] | Authorised to restrict the dissemination of the location information | Y | Y | Y | Y |
| Subclause 10.9 of 3GPP TS 23.280 [16] | Authorised to request location information of another user in the primary MCPTT system (see NOTE 10) | Y | Y | Y | Y |
| Subclause 10.9 of 3GPP TS 23.280 [16] | List of partner MCPTT systems for which user is authorised to request location information for another user |  |  |  |  |
|  | > Identity of partner MCPTT system | Y | Y | Y | Y |
| NOTE 1: Security mechanisms are specified in 3GPP TS 33.180 [11].  NOTE 2: The use of this parameter by the MCPTT UE is outside the scope of the present document.  NOTE 3: As specified in 3GPP TS 23.280 [16], for each MCPTT user's set of MCPTT user profiles, only one MCPTT user profile shall be indicated as being the pre‑selected MCPTT user profile.  NOTE 4: If this parameter is absent, the KMSUri shall be that identified in the initial MC service UE configuration data (on-network) configured in table A.6-1 of 3GPP TS 23.280 [16].  NOTE 5: This is an LMR specific parameter with no meaning within MC services.  NOTE 6: The LMR key management functional entity is part of the LMR system and is outside the scope of the present document.  NOTE 7: This parameter is used for the emergency communication and also used as a target of the emergency alert request. At most one of them is configured; i.e. emergency communication will go to either a group or a user. If both are not configured the MCPTT user's currently selected group will be used.  NOTE 8: This group, if configured, will be used for imminent peril communication. If not configured the MCPTT user's currently selected group will be used.  NOTE 9: The use of the parameter is left to implementation.  NOTE 10: Further differentiation on authorisation for requesting location information based on detailed characteristics (e.g. MC organization, MC service ID, functional alias) is left to implementation.  NOTE 11: This parameter applies to temporary broadcast groups built from regrouping mechanism. This authorisation automatically sets the originator of the temporary group as the only transmitting party.  NOTE 12: This is the top-level control parameter to determine whether MCPTT communications can be recorded or not. When this parameter is set; the second level control parameter is used to determine whether a specific MCPTT communication (private or which group) can be recorded.  NOTE 13: This is the second level control parameter to determine whether a private MCPTT communication can be recorded when the Authorize to record MCPTT communication top level control parameter is set. | | | | | |

Table A.3-2: MCPTT user profile data (on network)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reference | Parameter description | MCPTT UE | MCPTT Server | Configuration management server | MCPTT user database |
| [R-5.1.5-001],  [R-5.1.5-002],  [R-5.10-001],  [R-6.4.7-002],  [R-6.8.1-008] of 3GPP TS 22.280 [17] | List of on-network MCPTT groups for use by an MCPTT user |  |  |  |  |
|  | > MCPTT Group ID | Y | Y | Y | Y |
|  | > Record MCPTT group communication (see NOTE 12) | Y | N | Y | Y |
|  | > Application plane server identity information of group management server where group is defined |  |  |  |  |
|  | >> Server URI | Y | N | Y | Y |
|  | > Application plane server identity information of identity management server which provides authorization for group (see NOTE 1) |  |  |  |  |
|  | >> Server URI | Y | N | Y | Y |
| 3GPP TS 33.180 [19] | > KMSUri for security domain of group (see NOTE 3) | Y | Y | Y | Y |
|  | > Presentation priority of the group relative to other groups and users (see NOTE 2) | Y | Y | Y | Y |
| [R-6.2.3.7.2-006] of 3GPP TS 22.179 [2] | > Authorisation of an MCPTT user to change the maximum number of simultaneous talkers | Y | Y | Y | Y |
| Subclause 5.2.5 of 3GPP TS 23.280 [16] | List of groups user implicitly affiliates to after MCPTT service authorization for the user |  |  |  |  |
|  | > MCPTT Group IDs | Y | Y | Y | Y |
| [R-6.4.2-006] of 3GPP TS 22.280 [17] | Authorisation of an MCPTT user to request a list of which groups an MCPTT user has affiliated to |  | Y | Y | Y |
| [R-6.4.6.1-002],  [R-6.4.6.1-003] of 3GPP TS 22.280 [17] | Authorisation to change affiliated groups of other specified user(s) |  | Y | Y | Y |
| [R-6.4.6.2-001],  [R-6.4.6.2-002] of 3GPP TS 22.280 [17] | Authorisation to recommend to specified user(s) to affiliate to specific group(s) |  | Y | Y | Y |
| [R-6.6.1-004] of 3GPP TS 22.280 [17] | Authorisation to perform regrouping | Y | Y | Y | Y |
| [R-6.7.2-001] of 3GPP TS 22.280 [17] | Presence status is available/not available to other users | Y | Y | Y | Y |
| [R-6.7.1-002],  [R-6.7.2-002] of 3GPP TS 22.280 [17] | List of MCPTT users that an MCPTT user is authorised to obtain presence of |  |  |  |  |
|  | > MCPTT IDs | Y | Y | Y | Y |
| [R-6.7.2-003] of 3GPP TS 22.280 [17] | User is able/ unable to participate in private calls | Y | Y | Y | Y |
| [R-6.7.1-004], [R-6.7.2-003], [R-6.7.2-004] of 3GPP TS 22.280 [17] | Authorisation to query whether MCPTT User is available for private calls |  | Y | Y | Y |
| [R-6.7.1-010] of 3GPP TS 22.179 [2] | Authorisation to override transmission in a private call | Y | Y | Y | Y |
| [R-6.7.1-013] of 3GPP TS 22.179 [2] | Authorisation to restrict provision of private call set-up failure cause to the caller |  | Y | Y | Y |
| [R-6.7.6-001] of 3GPP TS 22.179 [2] | Authorized to make a private call‑back request | Y | Y | Y | Y |
| [R-6.7.6-004] of 3GPP TS 22.179 [2] | Authorized to cancel a private call‑back request | Y | Y | Y | Y |
| [R-6.8.7.4.2-001], [R-6.8.7.4.2-002] of 3GPP TS 22.280 [17] | Authorisation of an MCPTT user to cancel an emergency alert on any MCPTT UE of any MCPTT user |  | Y | Y | Y |
| [R-6.13.4-001] of 3GPP TS 22.280 [17] | Authorisation for a MCPTT user to enable/disable an MCPTT user |  | Y | Y | Y |
| [R-6.13.4-003], [R-6.13.4-005], [R-6.13.4-006], [R-6.13.4-007] of 3GPP TS 22.280 [17] | Authorisation for an MCPTT user to (permanently /temporarily) enable/disable a UE |  | Y | Y | Y |
| [R-6.2.3.4-001] of 3GPP TS 22.179 [2] | Authorisation to revoke permission to transmit |  | Y | Y | Y |
| [R-7.14-002],  [R-7.14-003] of 3GPP TS 22.280 [17] | Authorization for manual switch to off-network while in on-network | Y | Y | Y | Y |
| [R-5.1.5-004] of 3GPP TS 22.280 [17] | Limitation of number of affiliations per user (N2) | N | Y | Y | Y |
| [R-5.5.2-009] of 3GPP TS 22.179 [2] | Maximum number of simultaneous transmissions received in one group call for override (N7) |  | Y | Y | Y |
| [R-6.4.6.1-001],  [R-6.4.6.1-004] of 3GPP TS 22.280 [17] | List of MCPTT users whose selected groups are authorized to be remotely changed |  |  |  |  |
|  | > MCPTT IDs | Y | Y | Y | Y |
| Subclause 10.15.3 | Authorization to make a first‑to‑answer call | Y | Y | Y | Y |
| [R-6.15.2.2.2-001] of 3GPP TS 22.280 [17] | Authorization to make a remotely initiated ambient listening private call | Y | Y | Y | Y |
| [R-6.15.2.2.3-001] of 3GPP TS 22.280 [17] | Authorization to make a locally initiated ambient listening private call | Y | Y | Y | Y |
| [R-6.15.3.2-001] of 3GPP TS 22.280 [17] | Authorization to make a remotely initiated private call | Y | Y | Y | Y |
| [R-6.15.3.2-003] of 3GPP TS 22.280 [17] | Authorization to make a remotely initiated group call | Y | Y | Y | Y |
| [R-5.9a-013] of 3GPP TS 22.280 [17] | Authorised to request association between active functional alias(es) and MCPTT ID(s) |  | Y | Y | Y |
| [R-5.9a-012] of 3GPP TS 22.280 [17] | Authorised to take over a functional alias from another MCPTT user |  | Y | Y | Y |
|  | List of functional alias(es) of the MCPTT user |  |  |  |  |
| [R-5.9a-005] of 3GPP TS 22.280 [17] | > Functional alias | Y | Y | Y | Y |
| [R-5.4.2-007a] of 3GPP TS 22.280 [17] | >> Maximum number of parallel emergency group calls | Y |  | Y | Y |
| [R-5.9a-018] of 3GPP TS 22.280 [17] | >> Criteria for automatic activation by the MCPTT server (see NOTE 6) | N | Y | Y | Y |
| [R-5.9a-017],  [R-5.9a-018] of  3GPP TS 22.280 [17] | >> Criteria for automatic de-activation by the MCPTT server (see NOTE 6) | N | Y | Y | Y |
| [R-5.9a-019] of 3GPP TS 22.280 [17] | >> Location criteria for activation | Y |  | Y | Y |
| [R-5.9a-019] of 3GPP TS 22.280 [17] | >> Location criteria for de-activation | Y |  | Y | Y |
|  | >> Manual de-activation is not allowed if the location criteria are met | Y |  | Y | Y |
| [R-5.9a-020] of 3GPP TS 22.280 [17] | List of functional aliases to which first-to-answer calls and private calls are allowed when using a certain functional alias |  |  |  |  |
|  | > Used functional alias | Y | Y | Y | Y |
|  | >> List of functional aliases which can be called |  |  |  |  |
|  | >>> Functional alias | Y | Y | Y | Y |
| [R-5.9a-021] of 3GPP TS 22.280 [17] | List of functional aliases from which first-to-answer calls and private calls can be received when using a certain functional alias |  |  |  |  |
|  | > Used functional alias | N | Y | Y | Y |
|  | >> List of functional aliases from which calls can be received |  |  |  |  |
|  | >>> Functional alias | N | Y | Y | Y |
| [R-6.7.3-007a] of 3GPP TS 22.280 [17] | List of user(s) from which private calls can be received |  |  |  |  |
|  | > MCPTT ID | Y | Y | Y | Y |
| 3GPP TS 33.180 [19] | > KMSUri for security domain of MCPTT ID | Y | Y | Y | Y |
| [R-6.7.4-004] of 3GPP TS 22.280 [17] | > Presentation priority relative to other users and groups | Y | Y | Y | Y |
|  | Authorised to receive private calls from any other MCPTT ID (see NOTE 8) | Y | Y | Y | Y |
| Subclause 5.2.9 of 3GPP TS 23.280 [16] | List of partner MCPTT systems in which this profile is valid for use during migration |  |  |  |  |
| Subclause 5.2.9 of 3GPP TS 23.280 [16] | > Identity of partner MCPTT system | Y | Y | Y | Y |
| Subclause 10.1.1 of 3GPP TS 23.280 [16] | > Access information for partner MCPTT system (see NOTE 4) | Y |  | Y | Y |
| Subclause 10.6.2.9 | Authorized to initiate or cancel group regrouping using a preconfigured regroup group | Y | Y | Y | Y |
| [R-6.6.4.2-002a] and [R-6.6.4.2-002b] of 3GPP TS 22.280 [17] | List of groups the client affiliates/de-affiliates when one or multiple criteria are met |  |  |  |  |
|  | > MCPTT Group ID | Y | Y | Y | Y |
|  | >> Criteria for affiliation (see NOTE 5) | Y | Y | Y | Y |
|  | >> Criteria for de-affiliation (see NOTE 5) | Y | Y | Y | Y |
|  | >> Manual de-affiliation is not allowed if the criteria for affiliation are met | Y | Y | Y | Y |
| [R-6.6.4.2-002] of 3GPP TS 22.280 [17] | List of groups the client affiliates after receiving an emergency alert |  |  |  |  |
|  | > MCPTT Group ID | Y | Y | Y | Y |
|  | >> Manual de-affiliation is not allowed if the criteria for affiliation are met | Y | Y | Y | Y |
| [R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Allow private call forwarding |  | Y | Y | Y |
| [R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Call Forwarding NoAnswer Timeout |  | Y | Y | Y |
| [R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Call forwarding turned on |  | Y | Y | Y |
| R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Target of the MCPTT private call forwarding |  |  |  |  |
| R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | > Target MCPTT ID (see NOTE 10) |  | Y | Y | Y |
| R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | > Target functional alias (see NOTE 10) |  | Y | Y | Y |
| R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Condition |  | Y | Y | Y |
| [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | Allow private call transfer (see NOTE 7) | Y | Y | Y | Y |
| [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | List of MCPTT users that the MCPTT user is authorised to use as targets for call transfer |  |  |  |  |
| [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | > MCPTT ID |  | Y | Y | Y |
| [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | List of functional aliases that the MCPTT user is authorised to use as targets for call transfer |  |  |  |  |
| [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | > Functional alias |  | Y | Y | Y |
| ] [R-5.6.3-014], [R-6.7.4-015] of 3GPP TS 22.179 [2] | Authorised to transfer private calls to any MCPTT user | Y | Y | Y | Y |
| [R-5.6.3-015], [R-6.7.4-016] of 3GPP TS 22.179 [2] | Authorised to forward private calls based on manual input to any MCPTT user (see NOTE 9) | Y | Y | Y | Y |
| [R-5.10-001b] of 3GPP TS 22.280 [17] | Maximum number of successful simultaneous MCPTT service authorizations for this user (see NOTE 11) | N | Y | Y | Y |
|  | ad hoc group call authorizations |  |  |  |  |
| [R-6.15.5.3-001] of 3GPP TS 22.280 [17] | > Authorised to initiate ad hoc group call | Y | Y | Y | Y |
| R-6.15.5.3-003] of 3GPP TS 22.280 [17] | > Authorised to participate in ad hoc group call | Y | Y | Y | Y |
|  | > Authorised to initiate emergency ad hoc group call | Y | Y | Y | Y |
|  | > Authorised to initiate imminent peril ad hoc group call | Y | Y | Y | Y |
|  | > Authorised to receive the participants information of an ad hoc group call | N | Y | Y | Y |
|  | > Authorised to modify the list of participants and criteria for an ad hoc group call | Y | Y | Y | Y |
|  | > Authorised to release ongoing ad hoc group calls | Y | Y | Y | Y |
|  | > network-based MCPTT voice store where the conversation history is saved |  |  |  |  |
|  | >> Server URI | Y | N | Y | Y |
| NOTE 1: If this parameter is not configured, authorization to use the group shall be obtained from the identity management server identified in the initial MC service UE configuration data (on-network) configured in table A.6-1 of 3GPP TS 23.280 [16].  NOTE 2: The use of this parameter by the MCPTT UE is outside the scope of the present document.  NOTE 3: If this parameter is absent, the KMSUri shall be that identified in the initial MC service UE configuration data (on-network) configured in table A.6-1 of 3GPP TS 23.280 [16].  NOTE 4: Access information for each partner MCPTT system comprises the list of information required for initial UE configuration to access an MCPTT system, as defined in table A.6-1 of 3GPP TS 23.280 [16]  NOTE 5: The criteria may consist of conditions such as the MCPTT user location or the active functional alias of the MCPTT user.  NOTE 6: The criteria may consist of conditions such MCPTT user location or time.  NOTE 7: Defines the right to perform a call transfer. For call transfer the MCPTT server does not check if the initial originating MCPTT user has the right to make a private MCPTT call to the final destination MCPTT user.  NOTE 8: This parameter only applies to MCPTT users which are in the same security domain.  NOTE 9: Defines the right to perform a call forwarding based on manual user input. For call forwarding based on manual user input the MCPTT server does not check if the initial originating MCPTT user has the right to make a private MCPTT call to the final destination MCPTT user.  NOTE 10: Either the Target MCPTT ID or the Target functional alias may be present (but not both).  NOTE 11: If configured, this value has precedence over the system level parameter "maximum number of successful simultaneous service authorisations" in table A.5-2. If not configured, the corresponding parameter from table A.5-2 shall be used.  NOTE 12: This is the second level control parameter to determine whether a MCPTT group communication can be recorded when the Authorize to record MCPTT communication top level control parameter is set. | | | | | |

Table A.3-3: MCPTT user profile data (off network)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reference | Parameter description | MCPTT UE | MCPTT Server | Configuration management server | MCPTT user database |
| [R-7.2-003],  [R-7.6-004] of 3GPP TS 22.280 [17] | List of off-network MCPTT groups for use by an MCPTT user | Y | N | Y | Y |
|  | > MCPTT Group ID | Y | N | Y | Y |
|  | > Application plane server identity information of group management server where group is defined |  |  |  |  |
|  | >> Server URI | Y | N | Y | Y |
|  | > Application plane server identity information of identity management server which provides authorization for group (see NOTE 1) |  |  |  |  |
|  | >> Server URI | Y | N | Y | Y |
| 3GPP TS 33.180 [19] | > KMSUri for security domain of group (see NOTE 3) | Y | N | Y | Y |
|  | > Presentation priority of the group relative to other groups and users (see NOTE 2) | Y | N | Y | Y |
| [R-7.3.3-008] of 3GPP TS 22.179 [2] | Allowed listening of both overriding and overridden | Y | N | Y | Y |
| [R-7.3.3-006] of 3GPP TS 22.179 [2] | Allowed transmission for override (overriding and/or overridden) | Y | N | Y | Y |
| [R-7.8.1-001] of 3GPP TS 22.280 [17] | Authorization for participant to change an off-network group call in-progress to off-network emergency group call | Y | N | Y | Y |
| [R-7.8.3.1-003] of 3GPP TS 22.280 [17] | Authorization for participant to change an off-network group call in-progress to off-network imminent peril group call | Y | N | Y | Y |
| [R-7.12-002],  [R-7.12-003] of 3GPP TS 22.280 [17] | Authorization for off-network services | Y | N | Y | Y |
| Subclauses 10.6.3, 10.7.3 | User info id (as specified in 3GPP TS 23.303 [7]) | Y | N | Y | Y |
| NOTE 1: If this parameter is not configured, authorization to use the group shall be obtained from the identity management server identified in the initial MC service UE configuration data (on-network) configured in table A.6-1 of 3GPP TS 23.280 [16].  NOTE 2: The use of this parameter by the MCPTT UE is outside the scope of the present document.  NOTE 3: If this parameter is absent, the KMSUri shall be that identified in the initial MC service UE configuration data (on-network) configured in table A.6-1 of 3GPP TS 23.280 [16] | | | | | |