**3GPP TSG-SA WG6 Meeting #38-e S6-201014**

**Online, 20th – 31st July 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.379** | **CR** |  | **rev** |  | **Current version:** | **17.3.2** |  |
|  | | | | | | | | |
| *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:*** | to a functional alias as a target | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Kontron Transportation France | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMONASTERY2 | | | | | e | ***Date:*** | | | 2020-07-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The current specification for call forwarding does not support functional alias as target | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The user profile is enhanced to support a functional alias as target for the forwarded call, as well as the existing MCCPT ID. The procedures for MCPTT private call forwarding are changed so that they perform the translation of a functional alias to the corresponding MCPTT ID if the target of the call forwarding is a functional alias. Additionally the changes required to support call transfer with functional alias as a target in table A.3-2 are included, to avoid potentially conflicting changes in that table. Also changed line/paragraph spacing of Table A.3-2.: | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No support for functional alias as target for MCPTT private call forwarding. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.7.5.1.2, 10.7.5.2.2, 10.7.5.2.3, 10.7.5.2.3a, 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 \* \* \* \*

##### 10.7.5.1.2 MCPTT private call forwarding request (MCPTT client to MCPTT server)

Table 10.7.5.1.2-1 describes the information flow of the MCPTT private call forwarding request from the MCPTT client to the MCPTT server.

Table 10.7.5.1.2-1: MCPTT private call forwarding request (MCPTT client to MCPTT server) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MCPTT ID | M | The MCPTT ID requesting the call forwarding |
| MCPTT ID | M | The MCPTT ID originating the MCPTT private call |
| MCPTT ID (see NOTE) | O | The target MCPTT ID of the call forwarding |
| Functional alias (see NOTE) | O | The target functional alias of the call forwarding |
| NOTE: One identity shall be present | | |

##### 10.7.2.1.x MCPTT private call cancel request (MCPTT server to MCPTT client)

Table 10.7.2.1.x-1 describes the information flow MCPTT private call cancel request from the MCPTT server to the MCPTT client.

Table 10.7.2.1.x-1: MCPTT private call cancel request (MCPTT server to MCPTT client) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MCPTT ID | M | The MCPTT ID of the calling party |
| MCPTT ID | M | The MCPTT ID of the called party |

##### 10.7.2.1.y MCPTT private call cancel response (MCPTT client to MCPTT server)

Table 10.7.2.1.y-1 describes the information flow MCPTT private call cancel response from the MCPTT client to the MCPTT server.

Table 10.7.2.1.y-1: MCPTT private call cancel response (MCPTT client to MCPTT server) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MCPTT ID | M | The MCPTT ID of the called party |

\* \* \* End of Change \* \* \* \*

\* \* \* Next Change \* \* \* \*

##### 10.7.5.2.2 MCPTT immediate private call forwarding

Figure 10.7.5.2.2-1 below illustrates the procedure of immediate call forwarding of MCPTT private calls.

Pre-conditions:

1. MCPTT client 2 is authorized to use call forwarding and has immediate call forwarding enabled with the destination MCPTT client 3.

2. MCPTT client 1 is authorized to make private calls to client 2.

3. The redirection counter is below the limit.

4. MCPTT client 1 has the necessary security information to initiate a private call with MCPTT client 2 and MCPTT client 3 if end2end encryption is required for the private call.



Figure 10.7.5.2.2-1: Call forwarding immediate for private calls

1. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server.

2. The MCPTT server detects that MCPTT client 2 has immediate call forwarding enabled.

3. The MCPTT server checks that the limit of immediate forwardings is not reached. The MCPTT server increments the redirection counter for immediate forwardings. If the target of the MCPTT private call forwarding is a functional alias instead of an MCPTT ID the MCPTT server.

NOTE 1: If the MCPTT server detects that the functional alias used as the target of the MCPTT private call forwarding is simultaneously active for multiple MCPTT users, then the MCPTT server can proceed by selecting an appropriate MCPTT ID based on some selection criteria. The selection of an appropriate MCPTT ID is left to implementation. The selection criteria can include rejection of the call, if no suitable MCPTT ID is selected.

3a. If the target of the call forwarding is a functional alias that is not active, or if the target functional is simultaneously active by multiple users and the outcome of the selection is a rejection, the MCPTT private call forwarding is cancelled, and the MCPTT server sends an MCPTT private call cancel request towards MCPTT client 1.

3b. MCPTT client 1 sends an MCPTT call private cancel response back to the MCPTT server, and the procedure ends.

4. The MCPTT server sends an MCPTT private call forwarding request towards MCPTT client 1.

NOTE 2: The target MCPTT ID is based on the entry in the user profile for call forwarding immediate.

5. The user at MCPTT client 1 is notified that a call forwarding is in process.

6. MCPTT client 1 sends an MCPTT call private forwarding response back to the MCPTT server.

7. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server that includes a call forwarding indication set to true. MCPTT client 1 and MCPTT client 3 set up a security association if end-to-end encryption is used for this call.

8. The MCPTT server verifies that client 1 is authorized to perform the MCPTT private call as a result of the MCPTT private call forwarding request. The MCPTT server verifies that the MCPTT private call request contains MCPTT client 3 that is the authorized target from step 4, and the forwarding indication is set to true.

9. The MCPTT server sends an MCPTT private call request towards MCPTT client 3.

10. Optionally the MCPTT server sends an MCPTT progress indication to MCPTT client 1.

11. The user at MCPTT client 3 is alerted. MCPTT client 3 sends an MCPTT ringing to the MCPTT server. This step is not required in case of automatic commencement mode.

12. The MCPTT server sends an MCPTT ringing to MCPTT client 1. This step is not required in case of automatic commencement mode.

13. MCPTT client 3 sends an MCPTT private call response to the MCPTT server. In manual commencement mode this occurs after the user at MCPTT client 3 has accepted the call.

14. The MCPTT server sends an MCPTT private call response to MCPTT client 1 indicating that MCPTT client 3 has accepted the call.

15. The media plane for communication between MCPTT client 1 and MCPTT client 3 is established.

\* \* \* End of Change \* \* \* \*

\* \* \* Next Change \* \* \* \*

##### 10.7.5.2.3 MCPTT private call forwarding no answer

Figure 10.7.5.2.3-1 below illustrates the procedure of call forwarding no answer of MCPTT private calls.

NOTE 1: The condition no answer covers both the cases in which the user does not answer because he is not reachable, as well as the case in which he is reachable but does not answer.

Pre-conditions:

1. MCPTT client 2 is authorized to use call forwarding and has call forwarding no answer enabled with the destination MCPTT client 3.

2. MCPTT client 1 is authorized to make private calls to MCPTT client 2.

3. No forwarding with no answer or based on manual user input has so far occurred in this call.

4. MCPTT client 1 has the necessary security information to initiate a private call with MCPTT client 2 and MCPTT client 3 if end2end encryption is required for the private call.



Figure 10.7.5.2.3-1: MCPTT call forwarding no answer

1. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server.

2. The MCPTT server checks if MCPTT client 2 has call forwarding no answer enabled. If the MCPTT server detects that MCPTT client 2 is not registered, the procedure continues with step 7. Otherwise the MCPTT server starts a timer with the configured no answer timeout.

3. The MCPTT server sends an MCPTT private call request in manual commencement mode towards MCPTT client 2. If the MCPTT server detects that MCPTT client 2 is not reachable, the procedure continues with step 7.

4. The user at MCPTT client 2 is alerted. MCPTT client 2 sends an MCPTT ringing to the MCPTT server.

5. The MCPTT server sends an MCPTT ringing to the MCPTT client 1. This step is not required in case of automatic commencement mode.

6. The MCPPT server detects that MCPTT client 2 does not answer within the specified time interval.

7. The MCPTT server verifies that no other forwarding with the condition no answer or based on manual user input has occurred so far. If the target of the MCPTT private call forwarding is a functional alias instead of an MCPTT ID the MCPTT server resolves the functional alias to the corresponding MCPTT ID for which the functional alias is active.

NOTE 2: If the MCPTT server detects that the functional alias used as the target of the MCPTT private call forwarding is simultaneously active for multiple MCPTT users, then the MCPTT server can proceed by selecting an appropriate MCPTT ID based on some selection criteria. The selection of an appropriate MCPTT ID is left to implementation. The selection criteria can include rejection of the call, if no suitable MCPTT ID is selected.

8. The MCPTT server sends an MCPTT private call forwarding request towards the MCPTT client 1.

NOTE 3: The target MCPTT ID is based on the entry in the user profile for call forwarding no answer.

9. The user at MCPTT client 1 is notified that a call forwarding is in process.

10. MCPTT client 1 sends an MCPTT private call forwarding response back to the MCPTT server.

11. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server that includes a call forwarding indication set to true. MCPTT client 1 and MCPTT client 3 set up a security association if end-to-end encryption is used for this call.

12. The MCPTT server verifies that client 1 is authorized to perform the MCPTT private call as a result of the MCPTT private call forwarding request. The MCPTT server verifies that the MCPTT private call request contains MCPTT client 3 that is the authorized target from step 8, and the forwarding indication is set to true.

NOTE 4: For call forwarding the MCPTT server does not check if the initial originating MCPTT user at MCPTT client 1 is authorized to make an MCPTT private call to the final target MCPTT user at MCPTT client 3.

13. The MCPTT server sends an MCPTT private call request towards MCPTT client 3.

14. Optionally the MCPTT server sends an MCPTT progress indication to MCPTT client 1.

15. The user at MCPTT client 3 is alerted. MCPTT client 3 sends an MCPTT ringing to the MCPTT server. This step is not required in case of automatic commencement mode.

16. The MCPTT server sends an MCPTT ringing to MCPTT client 1. This step is not required in case of automatic commencement mode.

17. MCPTT client 3 sends an MCPTT private call response to the MCPTT server. In manual commencement mode this occurs after the user at MCPTT client 3 has accepted the call.

18. The MCPTT server sends an MCPTT private call response to MCPTT client 1 indicating that MCPTT client 3 has accepted the call.

19. The media plane for communication between MCPTT client 1 and MCPTT client 3 is established.

\* \* \* End of Change \* \* \* \*

\* \* \* Next Change \* \* \* \*

##### 10.7.5.2.3a MCPTT private call forwarding based on manual user input

Figure 10.7.5.2.3a-1 below illustrates the procedure of call forwarding based on manual user input of MCPTT private calls.

Pre-conditions:

1. MCPTT client 2 is authorized to perform call forwarding based on manual input.

2. MCPTT client 1 is authorized to make private calls to MCPTT client 2.

3. No forwarding with no answer or based on manual user input has so far occurred in this call.

4. MCPTT client 1 has the necessary security information to initiate a private call with MCPTT client 2 and MCPTT client 3 if end2end encryption is required for the private call.



Figure 10.7.5.2.3a-1: MCPTT call forwarding based on manual user input

1. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server.

2. The MCPTT server checks if MCPTT client 2 has call forwarding no answer enabled. If the MCPTT server detects that MCPTT client 2 is not registered, the procedure continues with step 10. Otherwise the MCPTT server starts a timer with the configured no answer timeout.

3. The MCPTT server sends an MCPTT private call request in manual commencement mode towards MCPTT client 2. If the MCPTT server detects that MCPTT client 2 is not reachable, the procedure continues with step 10.

4. The user at MCPTT client 2 is alerted. MCPTT client 2 sends an MCPTT ringing to the MCPTT server.

5. In manual commencement mode the MCPTT server sends an MCPTT ringing to the MCPTT client 1.

6. During ringing the user at MCPTT client 2 requests the call to be forwarded based on manual input.

7. MCPTT client 2 sends an MCPTT private call forwarding request to the MCPTT server.

8. The MCPTT server verifies if the user at client 2 is allowed to perform forwarding based on manual input. If the target of the MCPTT private call forwarding is a functional alias instead of an MCPTT ID the MCPTT server resolves the functional alias to the corresponding MCPTT ID for which the functional alias is active.

NOTE 1: If the MCPTT server detects that the functional alias used as the target of the MCPTT private call forwarding is simultaneously active for multiple MCPTT users, then the MCPTT server can proceed by selecting an appropriate MCPTT ID based on some selection criteria. The selection of an appropriate MCPTT ID is left to implementation. The selection criteria can include rejection of the call, if no suitable MCPTT ID is selected.

9. The MCPTT server stops the timer for the no answer timeout.

10. The MCPTT server verifies that no other forwarding with the condition no answer or based on manual user input has occurred so far.

11.The MCPTT server sends an MCPTT private call forwarding response to client 2.

12. The MCPTT server sends an MCPTT private call forwarding request towards the MCPTT client 1.

NOTE 2: The target MCPTT ID is based on the identity manually entered by the user at MCPPTT client 2 in step 6.

13. The user at MCPTT client 1 is notified that a call forwarding is in process.

14. MCPTT client 1 sends an MCPTT private call forwarding response back to the MCPTT server.

15. MCPTT client 1 sends an MCPTT private call request towards the MCPTT server that includes a call forwarding indication set to true. MCPTT client 1 and MCPTT client 3 set up a security association if end-to-end encryption is used for this call.

16. The MCPTT server verifies that client 1 is authorized to perform the MCPTT private call as a result of the MCPTT private call forwarding request. The MCPTT server verifies that the MCPTT private call request contains MCPTT client 3 that is the authorized target from step 12, and the forwarding indication is set to true.

NOTE 3: For call forwarding the MCPTT server does not check if the initial originating MCPTT user at MCPTT client 1 is authorized to make an MCPTT private call to the final target MCPTT user at MCPTT client 3.

17. The MCPTT server sends an MCPTT private call request towards MCPTT client 3.

18. Optionally the MCPTT server sends an MCPTT progress indication to MCPTT client 1.

19. The user at MCPTT client 3 is alerted. MCPTT client 3 sends an MCPTT ringing to the MCPTT server. This step is not required in case of automatic commencement mode.

20. The MCPTT server sends an MCPTT ringing to MCPTT client 1. This step is not required in case of automatic commencement mode.

21. MCPTT client 3 sends an MCPTT private call response to the MCPTT server. In manual commencement mode this occurs after the user at MCPTT client 3 has accepted the call.

22. The MCPTT server sends an MCPTT private call response to MCPTT client 1 indicating that MCPTT client 3 has accepted the call.

23. The media plane for communication between MCPTT client 1 and MCPTT client 3 is established.

\* \* \* End of Change \* \* \* \*

\* \* \* 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-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 |
| [R-5.2.2-003] of 3GPP TS 22.280 [17] | Authorisation to create a group-broadcast group |  |  | Y | Y |
| [R-5.2.2-003] of 3GPP TS 22.280 [17] | Authorisation to create a user-broadcast group |  |  | 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 |
| 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. | | | | | |

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 |
|  | > 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 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 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 |
| 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) | | | | | |

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 |
| Subclause 10.7.2 | 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] | | | | | |

\* \* \* End of Change \* \* \* \*