**3GPP TSG-SA WG6 Meeting #39-bis-e S6-201896**

**e-meeting, 12th – 20th October 2020 (revision of S6-201763)**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **0280** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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 | **X** |

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| ***Title:*** | MCPTT in-progress emergency group state cancel modification | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | FirstNet | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2020-10-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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 MCPTT in-progress emergency group state cancel procedure can occur whether a call is in progress or not. The current procedure assumes that a call is in progress. For better clarity, a step that applies only when a call is in progress should be made optional.  In addition, there has been confusion in Stage 3 as to who is authorized to cancel the in-progress emergency state of a group. This needs additional clarification. | | | | | | | | |
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| ***Summary of change:*** | | The MCPTT in-progress emergency group state cancel procedure is modified to make bearer priority adjustment optional, and to add a new step for the authorization of the group emergency state cancellation. | | | | | | | | |
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| ***Consequences if not approved:*** | | Stage 3 will continue to be confused about group emergency cancellation. | | | | | | | | |
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| ***Clauses affected:*** | | 10.6.2.6.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

###### 10.6.2.6.1.3 MCPTT in-progress emergency group state cancel

NOTE 1: In Rel-14 and Rel-13 versions of this specification the title of this subclause is "MCPTT emergency group call cancel".

The procedure describes the case where an MCPTT client cancels an MCPTT group's in-progress emergency state. The emergency state of the group may alternatively be cancelled by the emergency alert cancellation procedure specified in 3GPP TS 23.280 [16], subclause 10.10.1.2.2.2.

Procedures in figure 10.6.2.6.1.3-1 are the signalling control plane procedures for the MCPTT client cancelling an in-progress emergency of a group.

NOTE 2: For simplicity, a single MCPTT server is shown in place of a user home MCPTT server and a group hosting MCPTT server.

NOTE 3: The end of the MCPTT emergency group call does not cancel the MCPTT group's in-progress emergency state. It is explicitly cancelled by an authorized user using this procedure, or by the emergency alert cancellation procedure specified in 3GPP TS 23.280 [16], subclause 10.10.1.2.2.2.

Pre-conditions:

1. The MCPTT group is previously defined on the group management server with MCPTT client 2 and MCPTT client 3 affiliated to that MCPTT group.

2. All members of the MCPTT group belong to the same MCPTT system.

3. MCPTT group members have been notified about the in-progress emergency.

4. The MCPTT group is in the in-progress emergency state and has prioritized bearer support when a call is in progress.

5. MCPTT client 1 is authorized to cancel an in-progress emergency for the group.



Figure 10.6.2.6.1.3-1: MCPTT in-progress emergency group state cancel

1. The user at the MCPTT client 1 initiates an MCPTT in-progress emergency group state cancel.

NOTE 4: An authorized user (e.g. dispatcher, supervisor) can cancel either or both the in-progress emergency state of the group and the MC service emergency alert of another user. However, only the initiator of an MCPTT emergency alert can cancel the initiator's local MCPTT emergency state. Determination of authorized users is implementation dependent.

2. MCPTT client 1 sends an MCPTT in-progress emergency group state cancel request to the MCPTT server.

NOTE 5: If an MCPTT emergency alert relating to MCPTT client 1 is in effect together with an MCPTT in-progress emergency group state on the MCPTT group, the MCPTT emergency alert of MCPTT client 1 can be cancelled at the same time. In that case, the MCPTT in-progress emergency group state cancel request carries an indication that the emergency alert of MCPTT client 1 is also being cancelled.

NOTE 6: If an MCPTT in-progress emergency group state cancel request is received by the MCPTT server while a group member that is in the emergency state is transmitting, the MCPTT in-progress emergency group state cancel request is rejected by the MCPTT server.

3. MCPTT server resolves the MCPTT group ID to determine the members of that MCPTT group and their affiliation status, based upon the information from group management server.

4. The MCPTT server verifies that the user of MCPTT client 1 is authorized to cancel the emergency state of this MCPTT group. The MCPTT server cancels/resets the in-progress emergency state of the MCPTT group.

5. If a call is currently in progress the MCPTT server adjusts the priority of the underlying bearer; priority treatment is no longer required.

6. The MCPTT server sends an MCPTT in-progress emergency group state cancel request to the MCPTT group members.

7. MCPTT group members are notified of the MCPTT in-progress emergency group state cancel.

8. The receiving MCPTT clients send the MCPTT in-progress emergency group state cancel response to the MCPTT server to acknowledge the MCPTT in-progress emergency group state cancel. For a multicast call scenario, these acknowledgements are not sent.

9. The MCPTT server sends the MCPTT in-progress emergency group state cancel response to the MCPTT user 1 to confirm the MCPTT in-progress emergency group state cancel. If the MCPTT in-progress emergency group state cancel request (in step 2) contained the "Alert indicator" IE, the MCPTT client 1 resets its local emergency status.

NOTE 7: Step 9 can occur at any time following step 4, depending on the conditions to proceed with the call.

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

\* \* \* End of Changes \* \* \* \*