**3GPP TSG-CT WG1 Meeting #125-eC1-20wxyz**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.379** | **CR** | **CR#** | **rev** | **-** | **Current version:** | **16.5.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Check for emergency call on constituent group | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | FirstNet | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCProtoc17 | | | | |  | ***Date:*** | | | 20 August 2020 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | A temporary group call should not interrupt an ongoing emergency call on one of the intended constituent groups. A check is not made for this in the non-controlling MCPTT function procedures. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A check is made for an ongoing emergency call on an intended constituent group by the non-controlling MCPTT function. If such a call is ongoing, the request to have the constituent group join the temporary group call is denied. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Arbitrary temporary group calls can interrupt an ongoing emergency call and possibly put lives in danger. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.4.2, 10.1.1.5.2.3, 10.1.2.5.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \* \***

### 4.4.2 Warning texts

The text string included in a Warning header field consists of an explanatory text preceded by a 3-digit text code, according to the following format in Table 4.4.2-1.

Table 4.4.2-1 ABNF for the Warning text

warn-text =/ DQUOTE mcptt-warn-code SP mcptt-warn-text DQUOTE

mcptt-warn-code = DIGIT DIGIT DIGIT

mcptt-warn-text = \*( qdtext | quoted-pair )

Table 4.4.2-2 defines the warning texts that are defined for the Warning header field when a Warning header field is included in a response to a SIP INVITE request as specified in subclause 4.4.1.

Table 4.4.2-2: Warning texts defined for the Warning header field

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Code | | Explanatory text | | Description | |
| 100 | | function not allowed due to <detailed reason> | | The function is not allowed to this user.  The <detailed reason> will be either "group definition", "access policy", "local policy", "user authorisation" or "pre-established session not supported", or can be a free text string. | |
| 101 | | service authorisation failed | | The service authorisation of the MCPTT ID against the IMPU failed at the MCPTT server. | |
| 102 | | too many simultaneous affiliations | | The MCPTT user already has N2 maximum number of simultaneous affiliations. | |
| 103 | | maximum simultaneous MCPTT group calls reached | | The number of maximum simultaneous MCPTT group calls supported for the MCPTT user has been exceeded. | |
| 104 | | isfocus not assigned | | A controlling MCPTT function has not been assigned to the MCPTT session. | |
| 105 | | subscription not allowed in a broadcast group call | | Subscription to the conference event package rejected during a group call initiated as a broadcast group call. | |
| 106 | | user not authorised to join chat group | | The MCPTT user is not authorised to join this chat group. | |
| 107 | | user not authorised to make private calls | | The MCPTT user is not authorised to make private calls. | |
| 108 | | user not authorised to make chat group calls | | The MCPTT user is not authorised to make chat group calls. | |
| 109 | | user not authorised to make prearranged group calls | | The MCPTT user is not authorised to make group calls to a prearranged group. | |
| 110 | | user declined the call invitation | | The MCPTT user declined to accept the call. | |
| 111 | | group call proceeded without all required group members | | The required members of the group did not respond within the acknowledged call time, but the call still went ahead. | |
| 112 | | group call abandoned due to required group members not part of the group session | | The group call was abandoned, as the required members of the group did not respond within the acknowledged call time. | |
| 113 | | group document does not exist | | The group document requested from the group management server does not exist. | |
| 114 | | unable to retrieve group document | | The group document exists on the group management server but the MCPTT server was unable to retrieve it. | |
| 115 | | group is disabled | | The group has the <disabled> element set to "true" in the group management server. | |
| 116 | | user is not part of the MCPTT group | | The group exists on the group management server but the requesting user is not part of this group. | |
| 117 | | the group identity indicated in the request is a prearranged group | | The group id that is indicated in the request is for a prearranged group, but did not match the request from the MCPTT user. | |
| 118 | | the group identity indicated in the request is a chat group | | The group id that is indicated in the request is for a chat group, but did not match the request from the MCPTT user. | |
| 119 | | user is not authorised to initiate the group call | | The MCPTT user identified by the MCPTT ID is not authorised to initiate the group call. | |
| 120 | | user is not affiliated to this group | | The MCPTT user is not affiliated to the group. | |
| 121 | | user is not authorised to join the group call | | The MCPTT user identified by the MCPTT ID is not authorised to join the group call. | |
| 122 | | too many participants | | The group call has reached its maximum number of participants. | |
| 123 | | MCPTT session already exists | | Inform the MCPTT user that the group call is currently ongoing. | |
| 124 | | maximum number of private calls reached | | The maximum number of private calls allowed at the MCPTT server for the MCPTT user has been reached. | |
| 125 | | user not authorised to make private call with automatic commencement | | The MCPTT user is not authorised to make a private call with automatic commencement. | |
| 126 | | user not authorised to make private call with manual commencement | | The MCPTT user is not authorised to make a private call with manual commencement. | |
| 127 | | user not authorised to be called in private call | | The called MCPTT user is not allowed to be part of a private call. | |
| 128 | | isfocus already assigned | | The MCPTT server owning an MCPTT group received a SIP INVITE request destined to the MCPTT group from another MCPTT server already assigned as the controlling MCPTT function and the MCPTT server owning the MCPTT group does not support mutual aid or supports trusted mutual aid but does not authorise trusted mutual aid. | |
| 136 | | authentication of the MIKEY-SAKKE I\_MESSAGE failed | | The MCPTT client's application of the procedures of 3GPP TS 33.180 [78] to authenticate the received I\_MESSAGE fails. | |
| 137 | | the indicated group call does not exist | | The participating MCPTT function cannot find an ongoing group session associated with the received MCPTT session identity. | |
| 138 | | subscription of conference events not allowed | | The controlling MCPTT function could not allow the MCPTT user to subscribe to the conference event package. | |
| 139 | | integrity protection check failed | | The integrity protection of an XML MIME body failed. | |
| 140 | | unable to decrypt XML content | | The XML content cannot be decrypted. | |
| 141 | | user unknown to the participating function | | The participating function is unable to associate the public user identity with an MCPTT ID. | |
| 142 | | unable to determine the controlling function | | The participating function is unable to determine the controlling function for the group call or private call. | |
| 143 | | not authorised to force auto answer | | The calling user is not authorised to force auto answer on the called user. | |
| 144 | | user not authorised to call this particular user | | The calling user is not authorised to call this particular called user. | |
| 145 | | unable to determine called party | | The participating function was unable to determine the called party from the information received in the SIP request. | |
| 146 | | T-PF unable to determine the service settings for the called user | | The service settings have not been uploaded by the terminating client to the terminating participating server. | |
| 147 | | user is authorized to initiate a temporary group call | | The non-controlling MCPTT function has authorized a request from the controlling MCPTT function to authorize a user to initiate an temporary group session. | |
| 148 | | MCPTT group is regrouped | | The MCPTT group hosted by a non-controlling MCPTT function is part of a temporary group session as the result of the group regroup function. | |
| 149 | | SIP-INFO request pending | | The MCPTT client needs to wait for a SIP-INFO request with specific content, before taking further action. | |
| 150 | | invalid combinations of data received in MIME body | | The MCPTT client included invalid combinations of data in the SIP request. | |
| 151 | | user not authorised to make a private call call-back request | | The MCPTT user is not authorised to make a private call call-back request. | |
| 152 | | user not authorised to make a private call call-back cancel request | | The MCPTT user is not authorised to make a private call call-back cancel request. | |
| 153 | | user not authorised to call any of the users requested in the first-to-answer call | | All users that were invited in the first-to-answer call cannot be involved in a private call with the inviting user. | |
| 154 | | user not authorised to make ambient listening call | | The MCPTT user is not authorised to make an ambient listening call. | |
| 155 | | user not authorised to change user's selected group | | The MCPTT user is not authorised to change the selected group of the targeted user. | |
| 156 | | user not authorised to originate a first-to-answer call | | The MCPTT user is not authorised to make a first-to-answer call. | |
| 157 | | user not authorised to request a remotely initiated group call | | The MCPTT user is not authorised to request a remotely initiated group call. | |
| 158 | | user not authorised to request a remotely initiated private call | | The MCPTT user is not authorised to request a remotely initiated private call. | |
| 159 | | user not authorised to be called by this originating user | | The called user is not authorised to receive a call by this originating user. | |
| 160 | | user not authorised to request creation of a regroup | | The MCPTT user is not authorised to request creation of a regroup. | |
| 161 | | user not authorised to request removal of a regroup | | The MCPTT user is not authorised to request removal of a regroup. | |
| 162 | | group call abandoned due to required group members not affiliated | | The group call was abandoned as the required number of affiliated group members is not met or some required members are not affiliated. | |
| 163 | | the group identity indicated in the request does not exist | | The MCPTT server determines that the group identity indicates a user or group regroup based on a preconfigured group that does not exist. | |
| 164 | | maximum number of service authorizations reached | | The number of maximum simultaneous service authorizations for the MCPTT user has been reached. | |
| 165 | | group ID for regroup already in use | | The group ID proposed by the client for the user/group regroup based on a preconfigured group is already in use. | |
| XXX | | constituent group is in an emergency call state | | The proposed constituent group cannot be added to the temporary group because there is a call on the constituent group that is in an emergency state. | |

##### **\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

###### 10.1.1.5.2.3 Joining an ongoing prearranged group call

Upon receipt of a "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" and if a prearranged group call is already ongoing, the non-controlling MCPTT function of an MCPTT group:

NOTE 1: The Contact header field of the SIP INVITE request contains the isfocus media feature tag.

1) shall determine if the media parameters are acceptable and the MCPTT speech codec is offered in the SDP offer and if not, reject the request with a SIP 488 (Not Acceptable Here) response. Otherwise, continue with the rest of the steps;

2) shall reject the SIP request with a SIP 403 (Forbidden) response and not process the remaining steps if:

a) an Accept-Contact header field does not include the g.3gpp.mcptt media feature tag; or

b) an Accept-Contact header field does not include the g.3gpp.icsi-ref media feature tag containing the value of "urn:urn-7:3gpp-service.ims.icsi.mcptt";

2A) if the MCPTT emergency group call state is set to either "MEGC 2: emergency-call-requested" or "MEGC 3: emergency-call-granted" shall reject the "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" with a SIP 403 (Forbidden) response, with warning text set to "XXX constituent group is in an emergency call state " in a Warning header field as specified in subclause 4.4, and shall not process the remaining steps;

3) if the partner MCPTT system does not have a mutual aid relationship to merged an ongoing prearranged call with the primary MCPTT system identified by the contents of the P-Asserted-Identity, shall reject the "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" with a SIP 403 (Forbidden) response, with warning text set to "128 isfocus already assigned" in a Warning header field as specified in subclause 4.4, and shall not process the remaining steps;

4) shall cache the content of the SIP INVITE request, if received in the Contact header field and if the specific feature tags are supported;

5) shall check if a Resource-Priority header field is included in the incoming SIP INVITE request and may apply any preferential treatment to the SIP request as specified in 3GPP TS 24.229 [4];

6) shall generate SIP 200 (OK) response to the SIP INVITE request as specified in the subclause 6.3.4.2.2.2 before continuing with the rest of the steps;

7) shall include in the SIP 200 (OK) response an SDP answer to the SDP offer in the incoming SIP INVITE request as specified in the subclause 6.3.4.2.1;

8) shall instruct the media plane to initialise the switch to non-controlling mode as specified in 3GPP TS 24.380 [5] subclause 6.5.2.3;

NOTE 2: Resulting media plane processing is completed before the next step is performed. The media plane indicates the state of the floor and if the state is "floor-taken", information about the current speaker.

9) if the media plane provided information about the current speaker, cache the information about the current speaker(s);

10) shall send a SIP 200 (OK) response to the controlling MCPTT function according to 3GPP TS 24.229 [4].

Upon receipt of the SIP ACK request, the non-controlling MCPTT function of an MCPTT group:

1) if information about a current speaker is cached:

a) shall generate a SIP INFO request as specified in subclause 6.3.4.1.3; and

b) shall send the SIP INFO request to the controlling MCPTT function as specified in 3GPP TS 24.229 [4];

2) shall instruct the media plane to finalise the switch to the non-controlling mode as specified in 3GPP TS 24.380 [5] subclause 6.3.5.3; and

3) if at least one of the MCPTT clients in the pre-arranged group session has a subscription to the conference event package, shall subscribe to the conference event package from the controlling MCPTT function as specified in subclause 10.1.3.5.3.

##### **\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

###### 10.1.2.5.1.3 Joining an ongoing chat group call

Upon receipt of a "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" and if a chat group call is already ongoing, the non-controlling MCPTT function of an MCPTT group:

NOTE 1: The Contact header field of the SIP INVITE request contains the isfocus media feature tag.

1) shall determine if the media parameters are acceptable and the MCPTT speech codec is offered in the SDP offer and if not reject the request with a SIP 488 (Not Acceptable Here) response. Otherwise, continue with the rest of the steps;

2) shall reject the SIP request with a SIP 403 (Forbidden) response and not process the remaining steps if:

a) an Accept-Contact header field does not include the g.3gpp.mcptt media feature tag; or

b) an Accept-Contact header field does not include the g.3gpp.icsi-ref media feature tag containing the value of "urn:urn-7:3gpp-service.ims.icsi.mcptt";

2A) if the MCPTT emergency group call state is set to either "MEGC 2: emergency-call-requested" or "MEGC 3: emergency-call-granted" shall reject the "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" with a SIP 403 (Forbidden) response, with warning text set to "XXX constituent group is in an emergency call state " in a Warning header field as specified in subclause 4.4, and shall not process the remaining steps;

3) if the partner MCPTT system does not have a mutual aid relationship with the primary MCPTT system identified by the contents of the P-Asserted-Identity, shall reject the "SIP INVITE request for non-controlling MCPTT function of an MCPTT group" with a SIP 403 (Forbidden) response, with warning text set to "128 isfocus already assigned" in a Warning header field as specified in subclause 4.4, and shall not process the remaining steps;

4) shall cache the content of the SIP INVITE request, if received in the Contact header field and if the specific feature tags are supported;

5) shall check if a Resource-Priority header field is included in the incoming SIP INVITE request and may apply any preferential treatment to the SIP request as specified in 3GPP TS 24.229 [4];

6) shall generate SIP 200 (OK) response to the SIP INVITE request as specified in the subclause 6.3.4.2.2.2 before continuing with the rest of the steps;

7) shall include in the SIP 200 (OK) response an SDP answer to the SDP offer in the incoming SIP INVITE request as specified in the subclause 6.3.4.2.1;

8) shall instruct the media plane to initialise the switch to the non-controlling mode as specified in 3GPP TS 24.380 [5] subclause 6.5.2.3;

NOTE 2: Resulting media plane processing is completed before the next step is performed. The media plane indicates the state of the floor and if the state is "floor-taken", information about the current speaker(s).

9) if the media plane provided information about the current speaker(s), cache the information about the current speaker(s); and

10) shall send a SIP 200 (OK) response to the controlling MCPTT function according to 3GPP TS 24.229 [4].

Upon receipt of the SIP ACK request, the non-controlling MCPTT function of an MCPTT group:

1) if information about a current speaker(s) is cached:

a) shall generate a SIP INFO request as specified in subclause 6.3.4.1.3; and

b) shall send the SIP INFO request to the controlling MCPTT function as specified in 3GPP TS 24.229 [4];

2) shall instruct the media plane to finalise the switch to the non-controlling mode as specified in 3GPP TS 24.380 [5] subclause 6.3.5.3; and

3) if at least one of the MCPTT clients in the chat group session has a subscription to the conference event package, shall subscribe to the conference event package from the controlling MCPTT function as specified in subclause 10.1.3.5.3.

##### **\* \* \* \* \* END CHANGES \* \* \* \* \***