**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:** | **Version#** |  |
|  | | | | | | | | |
| *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:*** | Cancel of regroup in emergency state | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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:*** | | Currently, the controlling MCPTT function does not check whether the state of the group regroup based on preconfigured group is in an emergency state or not. A group in an emergency state cannot should not be removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A new warning text is added to 4.4.2 to indicate that the user is not authorised to remove regroup in an emergency state.  A check is made in 16.2.1.2 for emergency state, and the user can be notified if they are not authorised to remove the regroup if the regroup is in an emergency state.  A check is made in 16.2.3.2 for emergency state, and the regroup remove request is rejected if an emergency state exists. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Possible removal of a regroup based on preconfigured group when that group is in an emergency state. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.4.2, 16.2.1.2, 16.2.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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. | |
| XXX | | user is not authorised to remove regroup in an emergency state | | The MCPTT user is not authorised to remove a regroup that is in an in-preogress emergency state. | |

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

#### 16.2.1.2 Removing a regroup using preconfigured group

Upon receiving a request from an MCPTT user to remove a user or group regroup using a preconfigured group, the MCPTT client:

1) if the MCPTT client can determine that the in-progress emergency state of the regroup is set to a value of "true" and if the MCPTT user is not authorised to cancel the emergency state of the regroup per subclause 6.2.8.1.7:

a) should notify the user, and shall not proceed with the remainng steps;

2) shall generate a SIP MESSAGE request in accordance with 3GPP TS 24.229 [4] and IETF RFC 3428 [33]:

3) shall include an Accept-Contact header field containing the g.3gpp.mcptt media feature tag along with the "require" and "explicit" header field parameters according to IETF RFC 3841 [6];

4) shall include an Accept-Contact header field with the media feature tag g.3gpp.icsi-ref with the value of "urn:urn-7:3gpp-service.ims.icsi.mcptt" along with parameters "require" and "explicit" according to IETF RFC 3841 [6];

5) shall set the Request-URI to the public service identity identifying the originating participating MCPTT function serving the MCPTT user;

6) may include a P-Preferred-Identity header field in the SIP INVITE request containing a public user identity as specified in 3GPP TS 24.229 [4];

7) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Asserted-Service-Id header field according to IETF RFC 6050 [9];

8) shall contain an application/vnd.3gpp.mcptt-info+xml MIME body with the <mcpttinfo> element containing the <mcptt-Params> element with:

a) the <mcptt-client-id> element set to the MCPTT client ID of the originating MCPTT client; and

b) if the MCPTT client is aware of active functional-aliases, and an active functional alias is to be included in the SIP MESSAGE request, the <functional-alias-URI> set to the URI of the used functional alias; and

9) shall contain an application/vnd.3gpp.mcptt-regroup+xml MIME body with:

a) the <mcptt-regroup-uri> element set to the unique temporary group identity URI representing the regroup to be removed; and

b) the <regroup-action> element set to "remove"; and

10) shall send the SIP MESSAGE request according to 3GPP TS 24.229 [4].

On receiving a SIP 2xx response to the SIP MESSAGE request, the MCPTT client:

1) should notify the MCPTT user of the successful removal of the regroup using preconfigured group.

On receiving a SIP 4xx response, a SIP 5xx response or a SIP 6xx response to the SIP INVITE request:

1) should notify the MCPTT user of the failure to remove the regroup using preconfigured group.

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

#### 16.2.3.2 Request to remove a regroup using preconfigured group

When receiving a "SIP MESSAGE request to the controlling MCPTT function to remove a regroup using preconfigured group" the controlling MCPTT function:

1) if unable to process the request due to a lack of resources or a risk of congestion exists, may reject the SIP MESSAGE request with a SIP 500 (Server Internal Error) response. The controlling MCPTT function may include a Retry-After header field to the SIP 500 (Server Internal Error) response as specified in IETF RFC 3261 [24]. The controlling MCPTT function shall skip the rest of the steps;

2) if the in-progress emergency state of the regroup is set to a value of "true" and if the <allow-cancel-emergency-alert> element of the <ruleset> element of the MCPTT user profile document identified by the MCPTT ID of the calling user (see the MCPTT user profile document in 3GPP TS 24.484 [50]) is set to a value of "false", then:

a) shall send a SIP 403 (Forbidden) response to the received SIP MESSAGE request including warning text set to "XXX user not authorised to remove regroup in an emergency state" in a Warning header field as specified in subclause 4.4, and shall not continue with any of the remaining steps;

3) shall send a SIP 200 (OK) response in accordance with 3GPP TS 24.229 [4] and IETF RFC 3428 [33];

4) if the regroup is a group regroup based on preconfigured group, then:

a) for each constituent group belonging to the regroup:

i) shall determine the non-controlling MCPTT function serving that group;

ii) shall generate an outgoing SIP MESSAGE request in accordance with 3GPP TS 24.229 [4] and IETF RFC 3428 [33];

iii) shall include in the SIP MESSAGE request all Accept-Contact header fields and all Reject-Contact header fields, with their feature tags and their corresponding values along with parameters according to rules and procedures of IETF RFC 3841 [6] that were received (if any) in the incoming SIP MESSAGE request;

iv) shall set the Request-URI of the outgoing SIP MESSAGE request to the public service identity of the non-controlling MCPTT function;

v) shall copy the contents of the application/vnd.3gpp.mcptt-info+xml MIME body received in the incoming SIP MESSAGE request into an application/vnd.3gpp.mcptt-info+xml MIME body included in the outgoing SIP MESSAGE request;

vi) shall copy the contents of the application/vnd.3gpp.mcptt-regroup+xml MIME body received in the incoming SIP MESSAGE request into an application/vnd.3gpp.mcptt-regroup+xml MIME body included in the outgoing SIP MESSAGE request;

vii) shall copy the contents of the P-Asserted-Identity header field of the incoming SIP MESSAGE request to the P-Asserted-Identity header field of the outgoing SIP MESSAGE request; and

viii) shall send the SIP MESSAGE request as specified in 3GPP TS 24.229 [4]; and

5) if the regroup is a user regroup based on preconfigured group, then for each user belonging to the regroup, the controlling MCPTT function shall create a separate list of MCPTT IDs for users belonging to and affiliated with the regroup who are served by the same terminating participating MCPTT function and for each terminating participating MCPTT function;

a) shall generate an outgoing SIP MESSAGE request in accordance with 3GPP TS 24.229 [4] and IETF RFC 3428 [33];

b) shall include in the SIP MESSAGE request all Accept-Contact header fields and all Reject-Contact header fields, with their feature tags and their corresponding values along with parameters according to rules and procedures of IETF RFC 3841 [6] that were received (if any) in the incoming SIP MESSAGE request;

c) shall set the Request-URI of the outgoing SIP MESSAGE request to the public service identity of the terminating participating MCPTT function;

d) shall copy the contents of the application/vnd.3gpp.mcptt-info+xml MIME body received in the incoming SIP MESSAGE request into an application/vnd.3gpp.mcptt-info+xml MIME body included in the outgoing SIP MESSAGE request;

e) shall copy the contents of the application/vnd.3gpp.mcptt-regroup+xml MIME body received in the incoming SIP MESSAGE request into an application/vnd.3gpp.mcptt-regroup+xml MIME body included in the outgoing SIP MESSAGE request;

f) shall use the list of affiliated MCPTT IDs for this terminating participating MCPTT function to create and include a <users-for-regroup> element contained in the application/vnd.3gpp.mcptt-regroup+xml MIME body;

g) shall copy the contents of the P-Asserted-Identity header field of the incoming SIP MESSAGE request to the P-Asserted-Identity header field of the outgoing SIP MESSAGE request; and

h) shall send the SIP MESSAGE request as specified in 3GPP TS 24.229 [4].

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