**3GPP TSG- Meeting # *xyz***

**, , 12th – 20th May 2022 (was C1-223512)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **0814** | **rev** | **1** | **Current version:** | **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:*** | Corrections for call forwarding | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | e | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | |  |
|  | *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)* | |
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| ***Reason for change:*** | | For MCPTT call forwarding the incoming private call that is being forwarded is currently rejected before he user attempting to forward the call is checked for authorization. | | | | | | | | |
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| ***Summary of change:*** | | * Remove from 6.2.3.2.1 rejecting the incoming private call request * Added to 11.1.9.2.1 rejecting the incoming private call request | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incoming call between forwarded MCPTT user and the forwarding MCPTT user will be released before checking if the user attempting to forward the call is checked for authorization | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.3.2.1, 11.1.9.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

##### 6.2.3.2.1 Manual commencement mode for private calls

When performing the manual commencement mode procedures:

1) if the MCPTT user declines the MCPTT session invitation the MCPTT client shall send a SIP 480 (Temporarily Unavailable) response towards the MCPTT server with the warning text set to: "110 user declined the call invitation" in a Warning header field as specified in clause 4.4, and not continue with the rest of the steps in this clause; and

2) if the MCPTT user requests to forward the MCPTT private call based on manual user input, the MCPTT client shall follow the procedures as specified in clause 11.1.9.2.1, and not continue with the rest of the steps in this clause.

The MCPTT client:

1) shall accept the SIP INVITE request and generate a SIP 180 (Ringing) response according to rules and procedures of 3GPP TS 24.229 [4];

2) shall include the option tag "timer" in a Require header field of the SIP 180 (Ringing) response;

3) shall include the g.3gpp.mcptt media feature tag in the Contact header field of the SIP 180 (Ringing) response;

4) shall include the g.3gpp.icsi-ref media feature tag containing the value of "urn:urn-7:3gpp-service.ims.icsi.mcptt" in the Contact header field of the SIP 180 (Ringing) response; and

5) shall send the SIP 180 (Ringing) response to the MCPTT server.

When sending the SIP 200 (OK) response to the incoming SIP INVITE request, the MCPTT client shall follow the procedures in clause 6.2.3.1.1.

When NAT traversal is supported by the MCPTT client and when the MCPTT client is behind a NAT, generation of SIP responses is done as specified in this clause and as specified in IETF RFC 5626 [15].

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

##### 11.1.9.2.1 Private call forwarding request based on manual user input procedure

The following procedure covers the case when an MCPTT user decides to forward an incoming MCPTT private call to a new target MCPTT ID or functional alias based on manual user input instead of accepting the incoming MCPTT private call. If the MCPTT user decides to forward an incoming MCPTT private call to a new target MCPTT ID or functional alias based on manual user input, the MCPTT client:

NOTE 1: Forwarding an MCPTT private call based on manual user input is only possible for manual commencement mode.

1) if:

a) the <allow-call-fwd-manual-any> element of the <ruleset> element is not present in the requesting MCPTT user's MCPTT user profile document (see the MCPTT user profile document in 3GPP TS 24.484 [50]) or is set to a value of "false";

then:

a) should indicate to the requesting MCPTT user that the requesting MCPTT user is not authorised to initiate a private call forwarding request; and

b) shall skip the rest of the steps of the present clause;

1a) shall reject the SIP INVITE request with a SIP 480 (Temporarily Unavailable) response including warning text set to "175 call is forwarded" in a Warning header field as specified in clause 4.4;

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

a) 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-Preferred-Service header field according to IETF RFC 6050 [9] in the SIP MESSAGE request;

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

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

d) shall include an application/vnd.3gpp.mcptt-info+xml MIME body as specified in clause F.1 with the <mcpttinfo> element containing the <mcptt-Params> element with the <anyExt> element containing:

i) the <request-type> element set to a value of "forward-private-call-request";

ii) the <mcptt-called-party-id> element set to the MCPTT ID or the functional alias to be used of the target MCPTT user;

iii) if the call is requested to be forwarded to a functional alias and the MCPTT client is aware of active functional aliases, then with the <call-to-functional-alias-ind> set to "true"; otherwise,with the <call-to-functional-alias-ind> set to "false"; and

NOTE 2: For call forwarding to an MCPTT ID the value of the <mcptt-called-party-id> is the MCPTT ID of the target user, while for call forwarding to a functional alias the value is the functional alias of the target user.

iv) the <forwarding-reason> element set to a value of "manual-input";

e) shall insert in the SIP MESSAGE request a MIME resource-lists body with the MCPTT ID of the forwarded MCPTT user, according to rules and procedures of IETF RFC 5366 [20]; and

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

4) shall send the SIP MESSAGE request towards the MCPTT server according to rules and procedures of 3GPP TS 24.229 [4].

NOTE 3: The SIP MESSAGE is sent towards the client of the forwarded MCPTT user. The procedure how to process this incoming SIP MESSAGE is descibed in clause 11.1.9.2.2. Clause 11.1.9.2.2 also contains references to clause 11.1.1.2.1.1 and clause 11.1.1.2.2.1 describing how to originate an MCPTT private call from the forwarded MCPTT user to the target MCPTT.

Upon receipt of a SIP 4xx, 5xx or 6xx response to the SIP MESSAGE request, should indicate to the requesting MCPTT user the failure of the sent private call forwarding request and skip the rest of the steps.

Upon receiving a "SIP MESSAGE request for forwarding private call response for terminating client", the MCPTT client:

1) shall determine the success or failure of the sent forwarding private call request from the value of the <forwarding-call-outcome> element contained in the <anyExt> element of the <mcptt-Params> element of the <mcpttinfo> element of the application/vnd.3gpp.mcptt-info+xml MIME body included in the received SIP MESSAGE request and generate and send a SIP 200 (OK) response according to rules and procedures of 3GPP TS 24.229 [4]; and

2) should indicate to the requesting MCPTT user the success or failure of the sent private call forwarding request.

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