**3GPP TSG-SA6 Meeting #36-BIS-e *S6-200xxx***

**Online, , 31st Mar 2020 - 8th Apr 2020** **(revision of S6-200478)**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.379** | **CR** | **0254** | **rev** | **1** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *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:*** | Media security for MCPTT private call forwarding immediate | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Kontron Transportation France | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MONASTERY2 | | | | |  | ***Date:*** | | | 2020-03-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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 immediate does not support media security | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The procedure for call forwarding immediate is changed that the initiating client gets knowledge of the target MCPPT Id and thus is able to perform media encryption. | | | | | | | | |
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| ***Consequences if not approved:*** | | No support for media encryption for call forwarding immediate and call forwarding no answer in release 16. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.7.5.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

##### 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.



Figure 10.7.5.2.2-1: Call forwarding immediate for private calls

1. The 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.

4. The MCPTT server sends a MCPTT call forwarding request towards the MCPTT client 1.

NOTE 1: 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 a MCPTT call forwarding response back to the MCPTT server.

7. MCPTT client 1 sends a MCPTT private call request towards the MCPTT server that includes a call forwarding indication set to true.

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 based on the fact that the forwarding indication is present and set to true in the MCPTT private call request.

NOTE 2: 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.

9. The MCPTT server starts a timer with the configured no answer timeout

10. The MCPTT server sends a MCPTT private call request towards the MCPTT client 3.

11. The MCPTT server sends a MCPTT forwarding indication to MCPTT client 1.

12. MCPTT client 3 is alerted. MCPTT client 3 sends an MCPTT ringing to the MCPTT server.

13. The MCPTT server sends an MCPTT ringing to the MCPTT client 1.

14. The MCPTT user at MCPTT client 3 has accepted the call, which causes MCPTT client 3 to send an MCPTT private call response to the MCPTT server.

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

16. The MCPTT server sends an MCPTT private call response to MCPTT client1 indicating that client3 has accepted the call.

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

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