**3GPP TSG-SA WG6 Meeting #39-bis-e S6-201779**

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** |  | **rev** | **Rev1** | **Current 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 | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | Fixing media resource request procedure from MC service server | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2020-10-07 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Deployment scenarios and MC service resource management procedures include that network resources are requested from the MC service server via Rx reference point. However, when the SIP core provides, e.g., NAT traversal functionalities, the local SIP proxy handles the connection negotiation and therefore, modifies the SDP between the MC service server and the MC service client. Hence, the MC service server does not obtain the required access resources details of the MC service client to request network resources for the media plane. | | | | | | | | |
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| ***Summary of change:*** | | The call setup procedure shall include that the MC service client provides access resource details (e.g. IP addresses and ports of the client and the media anchoring points) required by the MC service server to request network resources for the media plane via the Rx reference point. | | | | | | | | |
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| ***Consequences if not approved:*** | | The MC service server cannot request network resources for the media plane via the Rx reference point, e.g., when the SIP core provides NAT traversal. | | | | | | | | |
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| ***Clauses affected:*** | | 10.11.6.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \*

#### 10.11.6.2 Procedure

The figure below illustrates the procedure for resource reservation



Figure 10.11.6.2-1: Request for resources for transmission control and media plane

1. The MC service client sends a request for group affiliation.

2. The MC service client sends a request to the MC service server for establishment of a communication session.

3. The MC service server answer the session establishment request and adjust the bandwidth information in the session description. The requested bandwidth shall be minimized to cover the bandwidth requirements for floor control signaling (or transmission control for MCVideo or MCData).

4. The SIP core request resources towards the PCRF according to the session establishment request.

5. The session establishment request is completed and a response is sent towards the MC service client.

6. The MC service client sends a call setup message according to existing procedures. The call setup procedure shall include that the MC service client provides access resource details (e.g. IP addresses and ports of the client and the media anchoring points) required by the MC service server to request network resources for the media plane via the Rx reference point.

7. The MC service server sends a request for resources for the media plane to PCRF, and the media plane is by that established. This request includes media description relevant for the media plane.

8. Group call is ongoing on the group communication session.

9. The MC service serve sends a release of media resources to PCRF, and the media plane is by that terminated.

NOTE 1: The resources for transmission control are retained.

NOTE 2: Step 6-9 can be repeated several times within the life cycle of one communication session.