**3GPP TSG-SA WG6 Meeting #39-bis-e S6-201782**

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0278** | **rev** | **Rev1** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Request for network resources at session establishment from the MC service server | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2020-10-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 include that the control of bearers is only performed by the MC service server via Rx reference point. Existing procedures include that the SIP core requests resources for transmission control and the MC service server for the media plane. The procedures, however, do not include the case that the MC service server requests network resources for the media session (for both transmission control and media plane) at session establishment. | | | | | | | | |
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| ***Summary of change:*** | | The procedure for the request of resources at session establishment from the MC service server is introduced. | | | | | | | | |
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| ***Consequences if not approved:*** | | The deployment scenario where the control of bearers is only performed by the MC service server is not addressed. | | | | | | | | |
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| ***Clauses affected:*** | | 10.11.2a (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \*

### 10.11.2a Request for unicast resources at session establishment from MC service server

#### 10.11.2a.1 General

The procedure defined in this clause specifies how network resources are requested at session establishment from the MC service server. The request for resources is sent to the PCRF via the Rx reference point from the MC service server and includes media type, bandwidth, priority, application identifier and resource sharing information. If concurrent sessions are used, the MC service server may utilize the capability of resource sharing specified in 3GPP TS 23.203 [8].

For the request of network resources by the MC service server via the Rx reference point, the MC service client provides to the MC service server the final access resource details (e.g. IP addresses and ports) of the MC service client and the media anchoring points.

This procedure is generic to any type of session establishment with the MC service server requesting network resources.

#### 10.11.2a.2 Procedure

Figure 10.11.2a.2-1 describes the procedure for the request of resources at session establishment from the MC service server.



Figure 10.11.2a.2-1: Resource request at session establishment from the MC service server

1. The MC service client sends a call/session establishment request. The request includes, apart from the SDP offer, access resource details, e.g. IP addresses and ports of the MC service client related to the media session.

2. The MC service server evaluates the need of network resources and use of media resource sharing.

3. The MC service server sends a session progress request to the SIP core.

NOTE: The session progress request does not include a request for network resources to be performed by the SIP core.

4. The SIP core local inbound / outbound proxy forwards the session progress request to the MC service client.

5. The MC service client acknowledges the session establishment to the MC service server. This message contains the final negotiated media access parameters, e.g. IP addresses and ports related to the media anchoring points received in the SDP answer from the SIP core.

6. The MC service server sends a request for resources to the PCRF over Rx (as defined in 3GPP TS 23.203 [8]).

7. The MC service call/session is established, and resources have been allocated.