**3GPP TSG-SA WG6 Meeting #48-e S6-220527\_Rev1**

**e-meeting, 5th – 14th April 2022 (revision of S6-22xxxx)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0316** | **rev** | **-** | **Current version:** | **18.1.0** |  |
|  | | | | | | | | |
| *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:*** | Migration during an ongoing private communication | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, UIC | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | IRail | | | | |  | ***Date:*** | | | 2022-03-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | TR 23.700-90 describes a procedure, which allows a MCPTT user to migrate to another MCPTT system and to continue with the private communication after migration to the new MCPTT system. This CR copies the procedure from the TR and makes it generic for applicability to all MC services. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A new generic procedure is added which allows private communications to be continued after migration. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Migration during an ongoing private communication ends the private communication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.16.3(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 \* \* \* \* \* \* \*

### 10.16.3 Migration during an ongoing private communication

#### 10.16.3.1 General

The capability described below is to allow an MC service user to migrate to another MC system during a private communication and to continue the private communication in the other MC system. The media will be suspended until the resumption of the communication.

Editor’s note: Further study is needed for MCData services.

#### 10.16.3.2 Information flows

##### 10.16.3.2.1 MC service private call suspend request

Table 10.16.3.2.1-1 describes the information flow MC service private call suspend request from the MC service client to the MC service server, from the MC service server to the MC service server and from the MC service server to the MC service client.

Table 10.16.3.2.1-1: MC service private call suspend request information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | M | The MC service ID of the called party |

##### 10.16.3.2.2 MC service private call suspend response

Table 10.16.3.2.2-1 describes the information flow MC service private call suspend response from the MC service client to the MC service server, from the MC server server to the MC server server and from the MC service server to the MC service client.

Table 10.16.3.2.2-1: MC service private call suspend response information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | In the direction MC service client to MC service server this shall be the MC service ID of the responding MC service client.  In the direction MC service server to MC service client this shall be the MC service ID of the destination MC service client. |

##### 10.16.3.2.3 MC service private call resume request (MC service client to MC service server)

Table 10.16.3.2.3-1 describes the information flow MC service private call resume request from the MC service client to the MC service server.

Table 10.16.3.2.3-1: MC service private call resume request (MC service client to MC service server) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | O | The MC service ID of the called party |
| SDP offer | O | Media parameters of MC service client. |
| Implicit floor request | O | An indication that the user is also requesting the floor. |
| Location information | O | Location of the calling party |
| Requested priority | O | Application priority level requested for this call |

##### 10.16.3.2.3a MC service private call resume request (MC service server to MC service server)

Table 10.16.3.2.3a-1 describes the information flow MC service private call resume request from the MC service server to the MC service server.

Table 10.16.3.2.3a-1: MC service private call resume request (MC service server to MC service server) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | M | The MC service ID of the called party |
| SDP offer | M | Media parameters of MC service client. |
| Implicit floor request | O | An indication that the user is also requesting the floor. |
| Requested priority | O | Priority level requested for the call. |
| Location information | O | Location of the calling party |

##### 10.16.3.2.3b MC service private call resume request (MC service server to MC service client)

Table 10.16.3.2.3b describes the information flow MC service private call resume request from the MC service server to the MC service client.

Table 10.16.3.2.3b: MC service private call resume request (MC service server to MC service client) information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | M | The MC service ID of the called party |
| SDP offer | M | Media parameters of MC service client. |
| Implicit floor request | O | An indication that the user is also requesting the floor. |

##### 10.16.3.2.4 MC service private call resume response (MC service client to MC service server)

Table 10.16.3.2.4-1 describes the information flow MC service private call resume response from the MC service client to the MC service server.

**Table 10.16.3.2.4-1: MC service private call resume response (MC service client to MC service server) information elements**

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | O | The MC service ID of the called party |
| SDP answer | M | Media parameters selected |

##### 10.16.3.2.4a MC service private call resume response

Table 10.16.3.2.4a -1 describes the information flow MC service private call resume response from the MC service server to the MC service server and the MC service server to the MC service client.

Table 10.16.3.2.4a-1: MC service private call resume response information elements

|  |  |  |
| --- | --- | --- |
| Information Element | Status | Description |
| MC service ID | M | The MC service ID of the calling party |
| MC service ID | O | The MC service ID of the called party |
| SDP answer | M | Media parameters selected |

#### 10.16.3.3 Procedure

The procedure supports migration from the primary MC system to a partner MC system, migration between two partner MC systems and migration from a partner MC system towards the primary MC system.

Pre-conditions:

1. The MC service client has one or more ongoing private calls.

2. The MC service UE detects the need to change the MC system.

Figure 10.16.3.3-1: Migration to another MC system during an ongoing private call

1-3. MC service client 1 requests private call suspend to put the call into suspended state in MC service client.

4-6. MC service client 2 replies with a private call suspend response back to MC service client 1. The call is cleared between MC service server A and MC service server B, and knowledge of the suspended call is held by MC service client 1 and MC service client 2.

7. The MC service users of MC service client 1 and MC service client 2 get an indication that the private call has been suspended. MC service client 1 and MC service client 2 start a timer to allow the call suspended state to be cleared if the call is not resumed within a predetermined time interval.

8. After migration to MC system C, the configuration management client 1 triggers retrieval of the MC service user profile used in MC system C (see clause 10.1.4.3.2).

NOTE 1: For simplicity, user authentication, service authorisation and signalling plane procedures are not shown.

9-11. MC service client 1 requests a private call resume request to resume the call with MC service client 2.12-14. MC service client 2 sends MC service private call resume response back to MC service client 1.

15. The MC service users of MC service client 1 and MC service client 2 get an indication that the private call has been resumed.

NOTE 2: Any local call restrictions are considered.

NOTE 3: If another private call request is sent to MC service client 1 or MC service client 2 before the call has resumed, the actions of the receiving MC service client are outside the scope of the present document and could include rejecting this new private call request.

The MC service client may indicate the successful migration of private call communications to the MC service user.

\* \* \* \* \* \* \* END OF CHANGE \* \* \* \* \* \* \*