**3GPP TSG-SA WG6 Meeting #61 S6-242154**

**Jeju, Korea 20th – 24th May 2024 (revision of S6-24xxxx)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **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:*** | Migration during ongoing ad hoc group communication | | | | | | | | | |
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| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FRMCS\_Ph5 | | | | |  | ***Date:*** | | | 2024-05-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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:*** | | This CR describes generic procedures for the behaviour done by MC service client performing migration while participating in an ad hoc group communication. The CR discusses the two cases, whether the participants in the ad hoc group communication are selected based on known criteria, or based on a list of participants provided by the initiated MC service user. | | | | | | | | |
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| ***Summary of change:*** | | Adding two procedures for migration during ongoing ad hoc group communication. One for the case when the participants list are determined by known criteria at the MC service server, and another for the case when the participants are determined by the initiated MC service user. | | | | | | | | |
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| ***Consequences if not approved:*** | | No clarities about migration during ad hoc group communication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | The following new clauses: 10.16.x, 10.16.x.1, 10.16.x.2, and 10.16.x.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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.x Migration during an ongoing ad hoc group communication

#### 10.16.x.1 General

This subclause describes a generic procedure for migration during an ongoing ad hoc group communication. It provides a guidance on the behaviour of an MC service client once the MC service user migrates to a partner MC system or returns to its primary MC system during participating in an ongoing ad hoc group communication, e.g., ad hoc group MCPTT call.

This procedure needs to be read in conjunction with related procedures in 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13].

Clause 10.16.x.2 presents the information elements in the ad hoc group communication redirection message sent from MC service server of one MC system to MC service server in another.

Clause 10.16.x.3 describes a generic procedure for migration during an ongoing ad hoc group communication where the participant list is provided by the initiated MC service user.

#### 10.16.x.2 Ad hoc group communication redirection

Table 10.16.x.2-1 describes the information flow of an ad hoc group communication redirection, which is sent from the MC service server in one MC system to an MC service server in another MC system.

Table 10.16.x.2-1: Ad hoc group communication redirection

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M | The MC service ID of the MC service user to be included in an ad hoc group communication, which is provided by its primary MC system before migration. The MC service ID can either be MCPTT ID, MCVideo ID, or MCData ID. |
| MC service ID (Note 1) | O | The MC service ID of the MC service user to be included in an ad hoc group communication, which is provided by a partner MC system after migration. The MC service ID can either be MCPTT ID, MCVideo ID, or MCData ID. |
| KMS URI (NOTE 2) | O | The KMS URI associated with the MC service ID of the migrated MC service user. |
| Redirection reason | O | The MC service server informs the MC service server in a partner MC system that the target MC service user has migrated. |
| NOTE 1: This information element is only mandatory if the MC service user has migrated to a partner MC system.  NOTE 2: If the KMS URI is not configured in the MC service user profile and is not included in the private call redirection message, then the MC service client shall obtain KMS URI using the KMS lookup procedure defined in 3GPP TS 33.180 [19]. | | |

#### 10.16.x.3 Procedure for participant list is determined by the initiated MC service user

Figure 10.16.x.3-1 represents a generic procedure once an MC service user migrates to a partner MC system or returns to its home MC system during an ongoing ad hoc group communication where the participant list is determined by an initiated MC service user.

Pre-conditions:

- MC service user 1 receives MC services from MC system A.

- MC system C is the primary MC system of MC service user 1.

- The ad hoc group communication is initiated by a request sent from the authorised MC service user 2 to MC service server A of MC system A.

- MC service user 1 was participating in an ad hoc group communication prior to performing migrating to MC system B.



Figure 10.16.x.3-1: Migration during an ad hoc group communication -participant list is determined by MC service user

1. Since MC service server C is the primary MC system of MC service user 1, MC service server A sends an ad hoc group communication request to MC service server C. The ad hoc group communication request message is defined in 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13].

2. The MC service server C determines that the MC service user 1 has migrated to MC system B.

3. MC service server C sends an ad hoc group communication redirection to MC service server A. The message indicates the MC service ID associated to MC system B.

NOTE: If the MC service user returns to its primary MC system C, the MC service server C includes only the MC service ID of MC service user 1 that is provided by its primary MC system C.

4. MC service server A sends MC service user 1 an ad hoc group communication request according to 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13]. The request includes the MC service ID of MC service user 1 provided by MC system B, which was provided to MC service server A in the previous step.

5. The MC service user 1 is notified to join the ad hoc group communication as defined in 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13].

6. MC service user 1 sends MC service server A an ad hoc group communication request according to the defined messages in 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13].

7. MC service server A sends ad hoc group communication notify message to participants according to 3GPP TS 23.379 [16], 3GPP TS 23.281 [12], and 3GPP TS 23.282[13].

8. The ad hoc group communication is changed including the MC service user 1.

\* \* \* \* End of changes \* \* \* \*