**3GPP TSG-SA WG6 Meeting #42-BIS-e S6-210775\_Rev1**

**e-meeting, 12th – 20th April 2021 (revision of S6-21xxxx)**

**Source: Nokia, Nokia Shanghai Bell, UIC**

**Title: Migration to another MC system during an ongoing private communication**

**Spec: 3GPP TR 23.700-90**

**Agenda item: 8.4**

**Document for: Approval**

**Contact: Martin Öttl (martin.oettl@nokia.com)**

**1. Introduction**

This papers suggests a solution to address key issue 5 described in clause 5.5 on quick migration towards another MC system.

The solution provides the capability for an MC service user for migration to another MC system during an ongoing private call.

**2. Reason for Change**

Support for migration within an ongoing private communication.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-90 version 0.2.0.

\* \* \* First Change \* \* \* \*

## 7.x Migration during an ongoing private communication

### 7.x.1 General

This solution addresses the key issue 5 described in clause 5.5 on quick migration towards another MC system.

The solution provides the capability for an MC service user to migrate to another MC system during an ongoing private communication and to continue the private communication in the other MC system without MC service user interaction.

### 7.x.2 Solution description

#### 7.x.2.1 Procedure

NOTE 1: The solution is about MCPTT private calls but is applicable for other services too.

Pre-conditions:

1. The MCPTT client has one or more ongoing private calls in the primary MC system.
2. The MCPTT UE detects the need to change the MC system.



Figure 7.x.2.1-1: Migration to partner MC system during an ongoing private call

1. MCPTT client 1 requests private call suspend to put the call into suspended state in MCPTT client 2. The call is cleared between MCPTT server 1 and MCPTT server 2, and knowledge of the suspended call is held by MCPTT client 1 and MCPTT client 2. The MCPTT users of MCPTT client 1 and MCPTT client 2 get an indication that the private call has been suspended. MCPTT client 1 and MCPTT 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.

2. After migration to the other MC system, the configuration management client 1 triggers retrieval of the MC service user profile used within the partner MC system (TS 23.280 [5] clause 10.1.4.3.2).

NOTE 2: User authentication, service authorisation and signalling plane procedures are not shown.

3. MCPTT client 1 requests a new private call to MCPTT client 2, with the call resume indication to remove the call suspended state in MCPTT client 2. The MCPTT users of MCPTT client 1 and MCPTT client 2 get an indication that the private call has been resumed.

NOTE 3: Any local call restrications are considered.

NOTE 4: If another private call request is sent to MCPTT client 1 or MCPTT client 2 before the call has resumed, the actions of the receiving MCPTT client are outside the scope of the present document, and could include rejecting this new private call request.

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

#### 7.x.2.2 Information flows

Editor's Note: This clause will provide the detailed information flows of this solution.

### 7.1.2 Solution evaluation

Editor's Note: This clause will provide the evaluation of this solution.

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