**3GPP TSG-SA WG6 Meeting #42-BIS-e S6-210773\_Rev2**

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

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

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

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

**Agenda item: 8.5**

**Document for: Approval**

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

**1. Introduction**

This papers suggests a solution to address key issue 3 described in clause 5.3 on group communication between MC systems.

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

**2. Reason for Change**

Support for migration within an ongoing group 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 group communication

### 7.x.1 General

This solution addresses the key issue 3 described in clause 5.3 on group communication between MC systems.

The solution provides the capability for an MC service user to migrate to another MC system during an ongoing group communication and to continue the group communication in the other MC system.

### 7.x.2 Solution description

#### 7.x.2.1 Procedure

The procedure is based on the following existing procedures:

- MC service group de-affiliation procedure as described in TS 23.280 [5] clause 10.8.4.2, or

- De-affiliation from MC service group(s) defined in partner MC service system and is described in TS 23.280 [5] clause 10.8.4.3.

- MC service user receiving MC service from a partner MC system as described in TS 23.280 [5] clause 10.1.4.3.2.

- MC service group affiliation procedure as described in TS 23.280 [5] clause 10.8.3.1, or

- Affiliation to MC service group(s) defined in partner MC system as described in TS 23.280 [5] clause 10.8.3.2 or clause 10.8.3.2a.

- Late entry pre-arranged group call as described in TS 23.379 [2] clause 10.6.2.3.1.1.4.

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

Pre-conditions:

1. The MCPTT client is a receiving party in one or more ongoing group 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 group calls

1. The MCPTT client requests de-affiliation from MCPTT groups. The MCPTT groups are either defined in the primary MC system (TS 23.280 [5] clause 10.8.4.2) or the partner MC system (TS 23.280 [5] clause 10.8.4.3). The MCPTT client de-authorizes from the primary MC System.

2. After migration to the partner MC system, the configuration management client 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. The MCPTT client requests affiliation to MCPTT groups. The MCPTT groups are either defined in the primary MC system (TS 23.280 [5] clause 10.8.3.1) or the partner MC system (TS 23.280 [5] clause 10.8.3.2 or clause 10.8.3.2a).

4. If any of the received group calls are ongoing in the partner MC system, the partner MC system shall initiate a late-entry procedure towards the MCPTT client. If any of the received group calls are taken place in the primary MC system but not yet in the partner MC system, the affiliation by the migrated MCPTT UE triggers the late-entry procedure which then includes the MCPTT UE and the partner MC system into the group call.The MCPTT client may indicate the successful migration of group communications to the MCPTT user.

### 7.1.2 Solution evaluation

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

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