**3GPP TSG-SA WG6 Meeting #51-e S6-222643**

**e-meeting, 10th – 19th October 2022 (revision of S6-22xxxx)**

**Source: BDBOS**

**Title: pCR Solution on request group ID**

**Spec: 3GPP TR 23.700-v38 v0.3.0**

**Agenda item: 9.2**

**Document for: Approval**

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**1. Introduction**

This pCR adds a solution for key issue 4, “Group configuration data“. It also addresses the 2nd pre-condition in 3GPP TS 23.280, clause 10.2.7.3:

- “The MC service group is configured in the MC service user profiles of one or more MC service users in the partner MC system of the MC service group.”

This solutions enables an authorized user to request a list of available MC service group ID(s) from a partner MC system, which may be used as interconnection groups. Enabling an authorized user to add this MC service group ID(s) to MC service user profiles in the primary MC system.

Stage 1 requirements are stated in 3GPP TS 22.280, clause 5.16.4:

[R-5.16.4-004] An MCX Service shall provide a mechanism to allow an authorised MCX User to request configuration information (e.g., users, groups, security level) from Partner MCX Service Systems.

[R-5.16.4-005] An MCX Service shall provide a mechanism to allow an authorised MCX User to send configuration information to Partner MCX Service Systems.

[R-5.16.4-002] An MCX Service shall provide a mechanism to allow an authorised MCX User to evaluate and respond to requests for configuration changes from Partner MCX Service Systems.

[R-5.16.4-003] An MCX Service shall provide a mechanism to allow an authorised MCX User to configure automatic responses to categories of requests for configuration changes from Partner MCX Service Systems (e.g., particular users, or groups).

**2. Reason for Change**

Adding a solution for key issue 4.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-38 v0.3.0.

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

7.2 Mapping of solutions to key issues

**Table 7.2-1 Mapping of solutions to key issues**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | KI #1 | KI #2 | KI #3 | KI #4 | KI#5 | KI#6 | KI#7 |
| Sol #x |  |  |  | X |  |  |  |

\* \* \* Next Change \* \* \* \*

## 7.x Solution #x: Request Interconnection Group ID

### 7.x.1 Solution description

#### 7.x.1.1 General

This solution addresses the following aspects:

- Key issue 4 – Group configuration data

- The second precondition in 3GPP TS 23.280 [X], clause 10.2.7.3 “Partner MC system requests group configuration from the primary MC system”:

“The MC service group is configured in the MC service user profiles … “

Before an MC service group from a partner MC system can be added to an MC service user profile in the primary MC system, the existence of this MC service group needs to be known in the primary MC system. This solution provides, the MC service group ID(s) from a partner MC system to an authorized user in the primary MC system.

#### 7.x.1.2 Information flows

Editor’s note: Needed information flows are FFS.

#### 7.x.1.3 Procedure

##### 7.x.1.3.1 Authorized user Requesting interconnection group ID(s) from a partner MC system

The procedure, which enables an authorized MC service user in a primary MC system to request a list of interconnection group ID(s) from a partner MC system is shown in figure 7.x.1.3.1-1.

Pre-conditions

- primary MC system and partner MC system are interconnected

- both MC systems have implemented an ACMS functionality

- the partner MC system is the MC service group home system for one or more interconnection groups

- The MC service user of the primary MC system is authorized to retrieve a list of interconnection group IDs from the partner MC system .



Figure 7.x.1.3.1-1: Interconnection group ID request by authorized user

1. The ACM client in the primary MC system sends an interconnection group ID request to the ACM server in the primary MC system, requesting a list of interconnection group IDs from a partner MC system.

2. The ACM server of the primary MC system checks whether the MC service user at ACM client is authorized for the request.

3. The ACM server of the primary MC system forwards the interconnection group ID request to the ACM server in the partner MC system.

4. The ACM server in the partner MC system verifies the request from the ACM server in the primary MC system and stores the request.

5a. The ACM server in the partner MC system sends a notification to the primary MC system, indicating that the interconnection group ID request has been stored.

5b. The ACM server in the primary MC system sends a notification to the ACM client in the primary MC system, indicating that the interconnection group ID request has been stored.

NOTE 1: Steps 6 to 9 are optional and subject to configuration by an authorized user of the partner MC system.

NOTE 2: There may be a considerable pause between step 5a and 6.

6. An authorised MC service user of the partner MC system logs on to the ACM client of the partner MC system.

6a. The ACM client queries the ACM server for pending requests.

7. The ACM server of the partner MC system forwards the stored interconnection group ID request to the ACM client of the partner MC system.

8. The authorized MC service user of the partner MC system (manually) screens the interconnection group ID request and decides to provide none (0), one or more MC service group ID(s) of interconnection group(s).

9. The ACM client of the partner MC system sends the interconnection group ID response to the ACM server of the partner MC system.

10. Depending on configuration of the ACM server in the partner MC system, the ACM server may (optionally) automatically create and provide a list of interconnection group IDs or forward the received interconnection group ID response from the ACM client.

11. The ACM server of the partner MC system sends the interconnection group ID response to the ACM server in the primary MC system.

12. The ACM server of the primary MC system stores the interconnection group ID response.

NOTE 3: There may be a considerable pause between step 12 and 13.

13. An authorised user of the primary MC system logs on to the ACM client of the primary MC system.

13a. The ACM client queries the ACM server for pending requests.

14. The ACM server of the primary MC system forwards the interconnection group ID response to the ACM client of primary MC system.

### 7.x.2 Solution evaluation

This solution enables an authorized user from a primary MC system to request interconnection group IDs from a partner MC system.

\* \* \* End of Changes \* \* \* \*