**3GPP TSG-CT WG1 Meeting #132-eC1-21abcd**

**E-meeting, 11-15 October 2021 *was* C1-215958**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.380** | **CR** | **0309** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Functional alias association with mcptt group during call setup using pre-established session | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMONASTERY2 | | | | |  | ***Date:*** | | | 30-09-2021 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | The subclause 10.13.11 in 3GPP TS 23.280 has defined the architecture requirements for the functional alias to group binding association. The corresponding requirement implementation in protocol specification 3GPP TS 24.379 and 3GPP TS 24.380 is unfilled. This CR proposes to fullfill the requirement by providing the implementation to associate the functional alias to group during call setup and is associated only for the duration of call. If the user has not created binding using standalone procedure then user can use the call setup response procedure to associate the functional alias. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The new section is introduced to capture all the procedure from client, participating function and controlling function.  The proposal conatins:   * New “Binding functional alias URI” field.to carry the functional alias uri. * The connect acknowldgement message carries the “Binding functional alias URI” field. * The participating function pass this information to controlling function by including the MCPTT info with functional alias information | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The user will not have mechanisam to bind the role based identities with specific set of groups that will be used by the MCPTT server to share the functional alias uri with connected users in an on-going group call. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.3.3.1, 8.3.3.14 (New), 8.3.6, 9.2.2.3.2 and 9.3.2.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 depends on the other siblings CR C1-215957 | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev 1:   1. “Associating functional alias URI” to “Binding functional alias URI” 2. 8.3.3.1: Field ID changed from 195 to 008 for Binding Functional Alias URI. 3. Renumbered 8.3.3.14 to 8.3.3.12 and An empty line (Normal style) is added after the table 4. 9.3.2.4.7: Reference to clause F.1 is corrected by appending 24.379 reference to the text. 5. Removed spaces after < and before > | | | | | | | | |

\* \* \* \* \* \* BEGIN CHANGES \* \* \* \* \* \* \*

#### 8.3.3.1 Introduction

This clause describes the pre-established session call control specific data fields.

The pre-established session call control specific data fields are contained in the application-dependent data of the pre-established session call control message. The pre-established session call control specific data fields follow the syntax specified in clause 8.1.3.

Table 8.3.3.1-1: Void

Table 8.3.3.1-2 lists the available data fields including the assigned field ID.

Table 8.3.3.1-2: Pre-established session call control data fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Field ID | | Reference |
| Decimal | Binary |
| Media Streams | 000 | 00000000 | Clause 8.3.3.2 |
| MCPTT Session Identity | 001 | 00000001 | Clause 8.3.3.3 |
| Warning Text | 002 | 00000010 | Clause 8.3.3.4 |
| MCPTT Group Identity | 003 | 00000011 | Clause 8.3.3.5 |
| Answer State | 004 | 00000100 | Clause 8.3.3.6 |
| Inviting MCPTT User Identity | 005 | 00000101 | Clause 8.3.3.7 |
| Reason Code | 006 | 00000110 | Clause 8.3.3.8 |
| Reason Cause | 007 | 00000111 | Clause 8.3.3.11 |
| Binding Functional Alias URI | 008 | 00001000 | Clause 8.3.3.12 |
| PCK I\_MESSAGE | 192 | 11000000 | Clause 8.3.3.10 |

The following clauses describe the coding of each data field.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

#### 8.3.3.12 Binding Functional Alias URI field

The Binding Functional Alias URI field contains the activated Functional Alias of the MCPTT user who has requested to create binding of an activated functional alias with the MCPTT group on which the communication requested for the MCPTT user and for the duration of the call.

Table 8.3.3.12-1 describes the coding of the Binding Functional Alias URI field.

**Table 8.3.3.12-1: Binding Functional Alias URI field coding**

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Binding | Binding | Binding |

| Functional | Functional | Functional |

| Alias URI | Alias URI | Alias URI |

| field ID value| length value | |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ :

: (Padding) :

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

The <Binding Functional Alias URI field ID> value is a binary value and shall be set according to table 8.3.3.1-2.

The <Binding Functional Alias URI length> value is a binary value indicating the length in octets of the <Binding Functional Alias URI> value item except padding.

The <Binding Functional Alias URI> value contains the URI of an activated Functional Alias of the MCPTT user that shall be bound with the MCPTT group for the duration of the call on which the communication is requested. The <Binding Functional Alias URI> value shall be coded as specified in the table 8.3.3.12-2. The Functional Alias is specified in 3GPP TS 24.379 [2].

Table 8.3.3.14-2: ABNF syntax of string values of the <Binding Functional Alias URI> value

Binding-Functional-Alias-URI = URI

If the length of the <Binding Functional Alias URI> value is not (2 + multiple of 4) bytes, the <Bindting Functional Alias URI> value shall be padded to (2 + multiple of 4) bytes. The value of the padding bytes should be set to zero. The padding bytes shall be ignored.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

### 8.3.6 Acknowledge message

Table 8.3.6-1 shows the content of the Acknowledge message.

Table 8.3.6-1: Acknowledge message

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

|V=2|P| Subtype | PT=APP=204 | Length |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| SSRC of floor participant |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| name=MCPC |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Reason Code field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Binding Functional Alias URI field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

With the exception of the three first 32-bit words the order of the fields are irrelevant.

**Subtype:**

The subtype shall be coded according to table 8.3.2-1.

**Length:**

The length shall be coded as specified in clause 8.1.2.

**SSRC:**

The SSRC field shall carry the SSRC of the floor participant.

The SSRC field shall be coded as specified in IETF RFC 3550 [3].

**Reason Code:**

The Reason Code field is coded as described in clause 8.3.3.8.

**Binding Functional Alias URI:**

The Binding Functional Alias URI field is coded as described in clause 8.3.3.12.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

##### 9.2.2.3.2 Receive Connect message (R: Connect)

Upon reception of a Connect message:

1. if the MCPTT client accepts the incoming call the MCPTT client:

a. shall send the Acknowledge message with Reason Code field set to 'Accepted' and based on local policy or if the user has not yet created an functional alias binding with the MCPTT group using explicit procedure, may include the Binding Functional Alias URI field set to a URI of an activated Functional Alias of the MCPTT user that shall be bound with the MCPTT group for the duration of the call on which the communication requested;

b. shall use only the media streams of the pre-established session which are indicated as used in the associated call session Media Streams field, if the Connect contains a Media Streams field;

c. shall create an instance of the 'Floor participant state transition diagram for basic operation' as specified in clause 6.2.4; and

d. shall enter the 'U: Pre-established session in use' state; or

2. Otherwise the MCPTT client:

a. shall send the Acknowledge message with the Reason Code field set to an appropriate <Reason Code> value; and

b. shall remain in 'U: Pre-established session not in use' state.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

##### 9.3.2.4.7 Receive Acknowledge message ((R: successful Ack) or (R: failure Ack))

Upon receiving an Acknowledge message from the MCPTT client, the participating MCPTT function:

1. shall stop timer T55 (Connect);

2. if the Reason Code is not 'Accepted' the participating MCPTT function:

a. shall send Disconnect message to the MCPTT client;

i. shall include the MCPTT Session Identity field with the same content as sent in the Connect message when the MCPTT call was established;

ii. should set the first bit in the subtype of the Disconnect message to '1' (Acknowledgment is required) as described in clause 8.3.2; and

iii. if a Reason Code field was received in the Acknowledge message with other than an 'Accepted' reason code value, shall include the Reason Cause field with a value corresponding to the received Reason Code value; and

b. shall start timer T56 (Disconnect);

c. shall initialise counter C56 (Disconnect) to 1;

d. shall send a call release indication to the controlling MCPTT function (see 3GPP TS 24.379 [2]); and

e. shall enter the 'G: Call releasing' state; and

3. otherwise the participating MCPTT function:

a. if the Acknowledge message contains the Binding Functional Alias URI field, may include in a SIP 200 (OK) response an application/vnd.3gpp.mcptt-info+xml MIME body as defined in clause F.1 of 3GPP TS 24.379 [2] with the <binding-fa-uri> element set to a value received in the Binding Functional Alias URI field;

b. shall send a SIP 200 (OK) response to the SIP INVITE request as specified in 3GPP TS 24.379 [2] if the SIP 200 (OK) response to the SIP INVITE request is not already sent; and

c. shall remain in the 'G: Pre-established session in use' state.

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