**3GPP TSG-CT WG1 Meeting #132-eC1-215951**

**E-meeting, 11-15 October 2021 *was* C1-215951**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.379** | **CR** | **0746** | **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:*** | Inclusion of functional alias in conference event package notification - mcptt | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 existing procedure in TS 24.379 for conference event package notification provides an indication only for the MCPTT identities of the connected MCPTT users to the MCPTT Users participating to the call. If the functional alias needs to be used then there is no field defined in the application/conference-info+xml MIME body to carry the functional alias information of the participating MCPTT users. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | An extension to application/conference-info+xml MIME body is created to carry the MCPTT specific new elements. The new element <functional-alias> is defined in the MCPTT specific new XML schema “urn:3gpp:ns:mcpttConfInfo:1.0”.  In 10.1.3.4.2 and 10.1.3.5.2, the condition to add the new element is added.  In 10.1.3.2, on recieveing of the new element by MCPTT client is described.  In 6.3.3.4, 10.1.3.6.1(New), 10.1.3.6.1.1(New), 10.1.3.6.1.2(New), Procedure to include new element, data stype of the new element and corresponding XML schema for the new element is defined. | | | | | | | | |
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| ***Consequences if not approved:*** | | The group call participating user will not have the information related to active functional alias used by the other participating users of the call. | | | | | | | | |
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| ***Clauses affected:*** | | 6.3.3.4, 10.1.3.6, 10.1.3.6.1 (New), 10.1.3.6.1.1(New), 10.1.3.6.1.2(New), 10.1.3.2, 10.1.3.4.2 and 10.1.3.5.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev1:   1. 6.3.3.4: reworded the proposed text . 2. Extensions to MIME type introduced under Coding clause of the Subscription to the conference event package clause. 3. 10.1.3.4.2 and 10.1.3.5.2: Reworded the proposed text in the NOTE 2. 4. Cover page updated. | | | | | | | | |

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

#### 6.3.3.4 Generating a SIP NOTIFY request

The controlling MCPTT function shall generate a SIP NOTIFY request according to 3GPP TS 24.229 [4] with the clarification in this clause.

In the SIP NOTIFY request, the controlling MCPTT function:

1) shall set the P-Asserted-Identity header field to the public service identity of the controlling MCPTT function;

2) shall include an Event header field set to "conference";

3) shall include an Expires header field set to 3600 seconds according to IETF RFC 4575 [30], as default value;

4) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Preferred-Service header field according to IETF RFC 6050 [9]; and

5) shall include an application/vnd.3gpp.mcptt-info+xml MIME body with the <mcpttinfo> element containing the <mcptt-Params> element with:

a) the <mcptt-calling-group-id> set to the value of the MCPTT group ID;

b) if the target is a MCPTT user, the value of <mcptt-request-uri> element set to the value of MCPTT ID of the targeted MCPTT user; and

c) if the target is the non-controlling MCPTT function, the value of <mcptt-request-uri> element set to the constituent MCPTT group ID.

In the SIP NOTIFY request, the controlling MCPTT function shall include an application/conference-info+xml MIME body according to IETF RFC 4575 [30] with the following limitations:

1) the controlling MCPTT function shall include the MCPTT group ID of the MCPTT group in the "entity" attribute of the <conference-info> element;

2) for each participant in the MCPTT session with the exception of non-controlling MCPTT functions, the controlling MCPTT function shall include a <user> element. The <user> element shall:

NOTE: Non-controlling MCPTT functions will appear as a participant in temporary group sessions.

a) include the "entity" attribute. The "entity" attribute:

i) shall for the MCPTT client, which initiated, joined or rejoined an MCPTT session, include the MCPTT ID of the MCPTT user which originates SIP INVITE request; and

ii) shall for an invited MCPTT client include the MCPTT ID of the invited MCPTT user in case of a prearranged group call or chat group call;

b) shall include a single <endpoint> element. The <endpoint> element:

i) shall include the "entity" attribute;

ii) shall include the <status> element indicating the status of the MCPTT session according to IETF RFC 4575 [30]; and

iii) may include one <functional-alias> element indicating the functional alias associated by the MCPTT user with the MCPTT group for which the notification is being sent as defined in the XML schema of subclause 10.1.3.6.1; and

c) may include <roles> element.

NOTE: The usage of <roles> is only applicable for human consumption.

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

#### 10.1.3.6 Coding

##### 10.1.3.6.1 Extension of application/conference-info+xml MIME type

###### 10.1.3.6.1.1 Introduction

The present clause describes an extensions of the application/conference-info+xml MIME body specified in IETF RFC 4575 [30].

The functional alias extension is used to indicate per-user functional alias association with MCPTT group.

###### 10.1.3.6.1.2 Schema

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema

targetNamespace="urn:3gpp:ns:mcpttConfInfo:1.0"

xmlns:xs="http://www.w3.org/2001/XMLSchema"

xmlns:mcpttConfInfo="urn:3gpp:ns:mcpttConfInfo:1.0"

elementFormDefault="qualified" attributeFormDefault="unqualified">

<!-- MCPTT specific child element of endpoint element -->

<xs:element name="functional-alias" type="xs:anyURI" use="optional"/>

</xs:schema>

The application/conference-info MIME body refers to namespaces using prefixes specified in table 10.1.3.6.1.2-1.

Table 10.1.3.6.1.2-1: Assignment of prefixes to namespace names in the application/pidf+xml MIME body

|  |  |
| --- | --- |
| Prefix | Namespace |
| mcpttConfInfo | urn:3gpp:ns:mcpttConfInfo:1.0 |
| NOTE: The "urn:ietf:params:xml:ns:conference-info" namespace is the default namespace so no prefix is used for it in the application/conference-info MIME body. | |

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

#### 10.1.3.2 MCPTT client

A MCPTT client may subscribe to the conference event package when a group call is ongoing and the ongoing group call is not initiated as a broadcast group call by sending a SIP SUBSCRIBE request to obtain information of the status of a group session.

When subscribing to the conference event package, the MCPTT client:

1) shall generate a SIP SUBSCRIBE request and use a new SIP-dialog according to IETF RFC 6665 [26], IETF RFC 4575 [30] and 3GPP TS 24.229 [4];

2) shall set the Request-URI of the SIP SUBSCRIBE request to the MCPTT session identity of the group session;

3) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Preferred-Service header field according to IETF RFC 6050 [9];

4) shall include an Accept-Contact header with the media feature tag g.3gpp.icsi-ref with the value "urn:urn-7:3gpp-service.ims.icsi.mcptt" along with "require" and "explicit" header field parameters according to IETF RFC 3841 [6];

5) if the MCPTT client wants to receive the current status and later notification, shall set the Expires header field according to IETF RFC 6665 [26], to 4294967295;

NOTE 1: 4294967295, which is equal to 232-1, is the highest value defined for Expires header field in IETF RFC 3261 [24].

6) if the MCPTT client wants to fetch the current state only, shall set the Expires header field according to IETF RFC 6665 [26], to zero;

7) shall include an Accept header field containing the application/conference-info+xml"MIME type;

8) shall include an application/vnd.3gpp.mcptt-info+xml MIME body with the <mcptt-request-uri> element set to the MCPTT group ID of the group session; and

9) shall send the SIP SUBSCRIBE request using a new SIP dialog according to 3GPP TS 24.229 [4].

The responses to the SIP SUBSCRIBE request shall be handled according to IETF RFC 6665 [26], IETF RFC 4575 [30] and TS 24.229 [4].

Upon receiving a SIP NOTIFY requests to the previously sent SIP SUBSCRIBE request the MCPTT client:

1) shall handle the request according to IETF RFC 6665 [26] and IETF RFC 4575 [30];

2) shall handle the functional-alias if received in SIP NOTIFY request body for each user in their corresponding end-point message according to subclause 10.1.3.6.1 and associate as part of current state information; and

3) may display the current state information to the MCPTT client based on the information in the SIP NOTIFY request body.

When needed the MCPTT client shall terminate the subscription and indicate it terminated according to IETF RFC 6665 [26].

NOTE 2: The contents of the received SIP NOTIFY request body is specified in clause 6.3.3.4.

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

##### 10.1.3.4.2 Sending notifications to the conference event package

The procedures in this clause is triggered by:

1) the receipt of a SIP SUBSCRIBE request as specified in clause 10.1.3.4.1;

2) the receipt of a SIP BYE request from one of the participants in a pre-arranged or a chat group session; or

3) when a new participant is added in a pre-arranged or chat group session.

When sending a conference event notification, the controlling MCPTT function:

1) shall generate a notification package as specified in clause 6.3.3.4 to all MCPTT clients which have subscribed to the conference event package;

NOTE 1: As a group document can potentially have a large content, the controlling MCPTT function can notify using content-indirection as defined in IETF RFC 4483 [32].

2) may include the functional alias of a participant in corresponding end-point message of the generated notification package, for those participants having an active functional alias associated with this MCPTT group for which notification is generated; and

NOTE 2: The association by the MCPTT user of functional alias with the MCPTT group is done through either using explicit procedure or as a part of call setup procedure.

3) shall send a SIP NOTIFY request to all participants which have subscribed to the conference event package as specified in 3GPP TS 24.229 [4].

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

##### 10.1.3.5.2 Sending notifications to the conference event package

The procedures in this clause is triggered by:

1) the receipt of a receipt of a SIP BYE request from one of the participants in a pre-arranged or a chat group session; or

2) when a new participant is added in a pre-arranged or chat group session.

When sending a conference event notification, the non-controlling MCPTT function:

1) shall generate a notification package as specified in clause 6.3.4.3 to all participants which have subscribed to the conference event package;

NOTE 1: As a group document can potentially have a large content, the controlling MCPTT function can notify using content-indirection as defined in IETF RFC 4483 [32].

2) may include the functional alias of a participant in corresponding end-point message of the generated notification package, for those participants having an active functional alias associated with this MCPTT group for which notification is generated; and

NOTE 2: The association by the MCPTT user of functional alias with the MCPTT group is done through either using explicit procedure or as a part of call setup procedure.

3) shall send a SIP NOTIFY request to all participants which have subscribed to the conference event package as specified in 3GPP TS 24.229 [4].

\* \* \* \* \* \* \* END CHANGES \* \* \* \* \* \* \*