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

**E-meeting, 11-15 October 2021 *was* C1-215950**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.281** | **CR** | **0140** | **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 - mcvideo | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 24.281 for conference event package notification provides an indication only for the MCVideo identities of the connected MCVideo users to the MCVideo 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 MCVideo users. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | An extension to application/conference-info+xml MIME body is created to carry the MCVideo specific new elements. The new element <functional-alias> is defined in the MCVideo specific new XML schema “urn:3gpp:ns:mcvideoConfInfo:1.0”.  In 6.3.3.4, 9.2.3.6.1(New), 9.2.3.6.1.1(New), 9.2.3.6.1.2(New), Procedure to include new element, data stype of the new element and corresponding XML schema for the new element is defined.  9.2.3.2: Reworded existing text to include processing and dispaying of MCVideo ID of participating users with functional alias binding if required. | | | | | | | | |
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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, 9.2.3.2, 9.2.3.6 (New), 9.2.3.6.1 (New), 9.2.3.6.1.1(New), and 9.2.3.6.1.2(New) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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. 9.2.3.4.2 and 9.2.3.5.2: Removed the proposed text addition. 4. Cover page updated. | | | | | | | | |

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

#### 6.3.3.4 Generating a SIP NOTIFY request

The controlling MCVideo function shall generate a SIP NOTIFY request according to 3GPP TS 24.229 [11] with the clarification in this clause.

In the SIP NOTIFY request, the controlling MCVideo function:

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

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

3) shall include an Expires header field set to 3600 seconds according to IETF RFC 4575 [57], as default value;

4) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcvideo" (coded as specified in 3GPP TS 24.229 [11]), in a P-Preferred-Service header field according to IETF RFC 6050 [14]; and

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

a) the <mcvideo-calling-group-id> set to the value of the MCVideo group ID;

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

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

In the SIP NOTIFY request, the controlling MCVideo function shall include an application/conference-info+xml MIME body according to IETF RFC 4575 [57] with the following limitations:

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

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

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

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

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

ii) shall for an invited MCVideo client include the MCVideo ID of the invited MCVideo 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 MCVideo session according to IETF RFC 4575 [57]; and

iii) may include one <functional-alias> element indicating the functional alias bound by the MCVideo user with the MCVideo group for which the notification is being sent as defined in the XML schema of subclause 9.2.3.6.1; and

NOTE 1: The functional alias binding by the MCVideo user with the MCVideo group is done through either using an explicit procedure or as a part of call setup procedure.

c) may include <roles> element.

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

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

#### 9.2.3.6 Coding

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

###### 9.2.3.6.1.1 Introduction

The present clause describes an extensions of the application/conference-info+xml MIME body specified in IETF RFC 4575 [57].

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

###### 9.2.3.6.1.2 Schema

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

<xs:schema

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

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

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

elementFormDefault="qualified" attributeFormDefault="unqualified">

<!-- MCVideo 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 9.2.3.6.1.2-1.

Table 9.2.3.6.1.2-1: Assignment of prefixes to namespace names in the application/pidf+xml MIME body

|  |  |
| --- | --- |
| Prefix | Namespace |
| mcvideoConfInfo | urn:3gpp:ns:mcvideoConfInfo: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 \* \* \* \* \* \* \*

#### 9.2.3.2 MCVideo client

A MCVideo client may subscribe to the conference state 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 state event package, the MCVideo client:

1) shall generate a SIP SUBSCRIBE request and use a new SIP-dialog according to IETF RFC 6665 [16], IETF RFC 4575 [57] and 3GPP TS 24.229 [11];

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

3) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcvideo" (coded as specified in 3GPP TS 24.229 [11]), in a P-Preferred-Service header field according to IETF RFC 6050 [14];

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.mcvideo" along with "require" and "explicit" header field parameters according to IETF RFC 3841 [20];

5) if the MCVideo client wants to receive the current status and later notification, shall set the Expires header field according to IETF RFC 6665 [16], to 4294967295;

NOTE 1: 4294967295, which is equal to 232-1, is the highest value defined for Expires header field in IETF RFC 3261 [15].

6) if the MCVideo client wants to fetch the current state only, shall set the Expires header field according to IETF RFC 6665 [16], to zero;

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

8) shall include an application/vnd.3gpp.mcvideo-info+xml MIME body with the <mcvideo-request-uri> element set to the MCVideo 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 [11].

The responses to the SIP SUBSCRIBE request shall be handled according to IETF RFC 6665 [16], IETF RFC 4575 [57] and TS 24.229 [11].

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

1) shall handle the request according to IETF RFC 6665 [16] and IETF RFC 4575 [57]; and

2) may process the current state information to the MCVideo client based on the information in the SIP NOTIFY request body and may display to the MCVideo user the MCVideo IDs of the participating MCVideo users and the functional alias the participating MCVideo user has bound to that MCVideo group if available.

When needed the MCVideo client shall terminate the subscription and indicate it terminated according to IETF RFC 6665 [16].

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

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