**3GPP TSG-CT WG1 Meeting #122-eC1-200486**

**Electronic meeting, 20-28 February 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.628** | **CR** | **0072** | **rev** | **-** | **Current version:** | **16.0.0** |  |
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| *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:*** | Providing video announcement at the same time with audio conversation | | | | | | | | | |
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| ***Source to WG:*** | Huawei, China Telecom, China Unicom, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eIMSVideo | | | | |  | ***Date:*** | | | 2020-02-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | Providing announcement during the established call is supported by TS 24.628. Acturally, there are two potential scenarios, one is providing announcement when the conversation is stopped temporaly (e.g. call hold). The other is providing announcement while the conversation is going on.  Some operators think the second scenario is valuable. When the caller and callee are in audio conversation, usually their screen are available. It’s good chance to provide video announcement on these idle screens. But to avoid negatively influence, video announcement can only be provided without voice.  One method for providing announcement at the same time with conversation is:   * AS negotiates media once time both for conversation and for announcement. After the negotiation finishes, the audio conversation can begin or continue, and the AS can instruct the MRF to start playing video announcement.   This method is to tranfer the announcement and conversation media in two parrellel media stream. Some operators think this is a good and valuable method. We suggest TS 24.628 could take into account this mothod. | | | | | | | | |
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| ***Summary of change:*** | | Add one method to provide video announcement while the audio conversationis going on. Including:   * AS Actions: AS uses an SDP offer including video component for announcement and audio component for conversation to negotiate media with the UE. i.e. AS negotiates media once time both for conversation and for announcement. * Corresponding call flow examples:   1. The first is for providing video announcement during audio conversation to originating UE.   2. The second is for providing video announcement during audio conversation to terminating UE. | | | | | | | | |
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| ***Consequences if not approved:*** | | Lack of the method for providing video announcement at the same time with the audio conversation by tranferring the announcement and conversation media in two parrellel media streams. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.3, 4.7.2.9.1 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\* Next change \*\*\*\*\*

### 4.2.3 Providing announcements to a user during an established communication session

A service may provide an announcement during an established communication. If an announcement is provided the service shall use one of the following methods:

- use an Call-Info header field in a re-INVITE request; or

- use the existing media stream. The media stream may have to be re‑negotiated by the service to a media type suitable for the announcement; or

- create media streams together for announcement and conversation, the media types of announcement and conversation are different; or

- add a media stream with a type different than any existing media types following the offer/answer mechansim.Mixing announcements into an existing media stream requires that the AS use the 3rd party call control procedure as specified by subclause 5.7.5 in 3GPP TS 24.229 [1].

\*\*\*\*\* Next change \*\*\*\*\*

##### 4.7.2.9.1 Providing announcements during an established communication session

The AS may use the Call-Info header field according to procedures specified by IETF RFC 3261 [4] to provide an announcement during an established communication session.

The AS may send an in-band message or media using an existing media-stream to provide an announcement during an established communication session. The AS may re-negotiate the media to a media type suitable for the announcement.

For audio communication, the AS may use an SDP offer, inluding video components based on announcement media information received from MRF, and including audio components based on the SDP offer/answer received from terminating UE, to negotiate media resources with terminating or originating UE for both the announcement and conversation

- before forwarding the received 200 (OK) response to the initial INVITE request from terminating UE to originating UE; or

- after forwarding the received ACK request for the initial INVITE request from originating UE to the terminating UE.