**3GPP TSG-CT WG1 Meeting #137-eC1-225067**

**E-Meeting, 18th – 26th August 2022 *was* C1-225067**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0092** | **rev** | **1** | **Current version:** |  |  |
|  |
| *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:***  | Clarification of the SSRC to be used in video, audio and transmission control (TC) streams in MCVideo |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | MCProtoc18 |  | ***Date:*** | 2022-08-18 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-18 |
|  | *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 canbe 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | In the current specification, it is not clear whether the audio and video RTP streams have the same SSRC (a) or different SSRC (b). In the latter case it is not clear which SSRC shall be used for transmission control of MCVideo.This error has been pointed out by RAN5 + TTCN. |
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| ***Summary of change:*** | The clarification is provided in “MCVideo client” section of clause “Internal structure of media plane control entities” |
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| ***Consequences if not approved:*** | Lack of clarity on the usage of the SSRC value for all the streams (audio, video, transmission & recieption control) in a MCVideo call |
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| ***Clauses affected:*** | 4.2.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev1:* Spelling correction from receiveing to receiving
* The 3GPP TS 23.380 index correction from [x1] to [11]
* A reference to IETF RFC 3550 is added
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**\*\*\*\*\* FIRST CHANGE \*\*\*\*\***

### 4.2.2 MCVideo client

According to 3GPP TS 23.380 [11] the MCVideo client is divided into a transmission participant and a media mixer function. In the present document the internal structure of the MCVideo client is illustrated in figure 4.2.2-1.



NOTE: The real internal structure of the MCVideo client is implementation specific but a possible internal structure is shown to illustrate the logic and the procedures.

Figure 4.2.2-1: Internal structure of the MCVideo client

All entities in the MCVideo client have a direct communication interface to the application and signalling plane. The interface to the application and signaling plane carries information about SIP session initialisation and SIP session release, SDP content, etc.

The reference points MCVideo-4, MCVideo-6, MCVideo-7 and MCVideo-8 are described in 3GPP TS 23.281 [11].

The transmission participant receives and sends transmission and reception control message over the unicast bearer.

The media mixer receives and sends RTP media packets over the unicast bearer. The media mixer indicates to the transmission participant when RTP media packets are received and when RTP media packets are no longer received. The transmission participant instructs the media mixer on how to handle media received from the user or received from the network either over the unicast bearer or over the MBMS bearer.

The MBMS interface receives RTP media packets over the MBMS bearer. The RTP media packets are forwarded to the media mixer.

The MBMS interface receives transmission control messages and MBMS subchannel control messages over the MBMS bearer. The MBMS interface forward received transmission control messages to the transmission participants.

The RTP media video and audio streams of the transmission participant are uniquely identifed in the MCVideo call. The SSRC values are used for uniquely identifying both the RTP media video and audio streams (i.e. different SSRC values are used for each media video and audio streams) as described in IETF RFC 3550 [3].

The transmission participants are uniquely identified in the MCVideo call using SSRC value. This SSRC value is used by the transmission participants while sending and receiving of transmission and reception control messages for a MCVideo call. The SSRC used for the transmission and reception control messages are different from the SSRC used for the RTP media video and audio streams.

The transmission participant receives indication from the MCVideo client when the MCVideo user has click the video transmit, the video transmission end, and video receive or video reception end button. The MCVideo client can also provide notification towards the MCVideo user. Video received from the MCVideo user is, on instruction from the transmission participant, encoded by the media mixer and sent as RTP media packets over the unicast bearer.

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