**3GPP TSG-SA4 Meeting # 127 bis-eS4-240654**

**Online, 8th - 12th April 2024**

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| *CR-Form-v12.2* |
| **PSEUDO CHANGE REQUEST** |
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|  | **26.264** | **CR** | pseudo | **rev** | **-** | **Current version:** | **1.0.0** |  |
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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:***  | pCR on media configuration |
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| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | IBACS |  | ***Date:*** | 2-4-2024 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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:*** | Media configurations are specified for AR data exchange and media processing for IMS AR communication service. The general configuration is not specified, and network media rendering configuration lacks of detail for rendering negotiation. |
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| ***Summary of change:*** | Adding general media configuration and updating network media rendering configuration |
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| ***Consequences if not approved:*** |  |
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| ***Clauses affected:*** | 7 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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# 7 Media configurations

7.1 General

The media configuration requirements for MTSI clients in terminals specified in TS 26.114 [2], clause 6, also apply for AR-MTSI client in terminal.

An SDP framework for AR data exchange for AR communication is presented to negotiate codec support for

AR media, AR metadata, as well as RTP/RTCP signaling necessary for AR media rendering processing.

AR-MTSI client in terminal shall use RTP for the real-time transport of AR media for AR communication. Any AR media that is defined with the ‘m=video’ line, includes the SDP attribute *3gpp\_armedia.* When multiple AR media in a scene are present in the SDP offer, the SDP attribute *mid* may be used for grouping associated AR media streams.

AR-MTSI client in terminal shall use the data channels for exchange of AR metadata and rendering negotiation. The SDP attribute *3gpp\_armetadata\_types* should be used to indicate the types of AR metadata which defined in clause 6 (e.g. pose, action and scene description) within the data channel.

The syntax for the SDP attribute is:

 a=3gpp\_armetadata\_types: <metadata-1> / … / <metadata-N>

Editor’s Note: This attribute is under “a=dcmap” line with subprotocol=" 3gpp-ar-metadata" , and the ABNF syntax for this attribute will be further specified in a new Annex or sub-clause under clause.

The poses as part of AR metadata may be transmitted via RTP session as a RTP header extension which specified in clause 4.3 of TS 26.522.

7.2 Network media rendering configuration

As specified in Annex AC.9 of TS 23.228 [4], the AR application server can provides network assisted rendering. An AR-MTSI client in terminal can decide to request network media rendering based on user selection and its status such as power, signal, computing power, internal storage, etc. The AR-MTSI client in terminal shall complete an AR media rendering negotiation with the AR AS before it initiates subsequent procedures to activate the network media rendering. The data channel should be established for rendering negotiation with SDP offer/answer between AR-MTSI client in terminal and MF/MRF with the sub-protocol “3gpp-sr-conf”, and continue to be used for rendering re-negotiation until the end of the AR communication.

The AR media rendering negotiation between the AR-MTSI client in terminal and the AR AS shall determine the split-rendering configuration which exchanged via the data channel of rendering negotiation. The split-rendering configuration format shall be in JSON format as specified in clause 8.4.2 of TS 26.565 [6].

Editor’s Note: We need to consider to specify a minimum set for rendering configuration of AR communication refer to TS 26.565, or remove this clause and refer to TS 26.567 (Rel-19),.

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