**3GPP TSG-SA4 Meeting # 112-e *S4-210185***

**1st – 10th February 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **Draft CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.114** | **CR** | **<CR#>** | **rev** |  | **Current version:** | **<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 |  | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Draft CR Introduction of Pause/Resume in ITT4RT | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Inc., Intel | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ITT4RT | | | | |  | ***Date:*** | | | 2021-01-27 |
|  |  | | | |  | |  | | |  |
| ***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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| First Change |

## X.6.4 Overlays

ITT4RT clients supporting the ‘Overlay’ feature may define an overlay source and overlay configuration in the SDP. An ITT4RT client that supports overlays

* shall support a video or image stream indicated by a media line in the SDP as the source of an overlay.
* [may support a conditional overlay of a region from a 360-degree video as the source of an overlay.]
* [may support an externally specified overlay source, referenced by a URI.]

Editor’s Note: The solution for image overlays is FFS.

### X.6.4.1 Video Media

Any visual media that is defined with the ‘m=video’ line, includes the attribute *mid* and does not have the attribute *a=3gpp\_360video* in the SDP may be rendered as an overlay by an ITT4RT-Rx client. An ITT4RT client shall include the attribute *mid* in the overlay media description. If an overlay is to be associated with a particular overlay configuration, the *mid* shall be used to associate the overlay media description to the the overlay configuration, which is later described in X.6.4.3.

### X.6.4.2 Overlay Configuration

[…]

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| Second Change |

### X.6.7 Support for Stream Pausing/Resuming

An ITT4RT-Tx or ITT4RT MRF client shall use the a=rtcp-fb ccm pause attribute and parameter values as specified in [RFC 5104] and [RFC 7728] to indicate the capability to support receiving and acting on PAUSE and RESUME requests targeted for RTP streams it sends. The optional parameter setting of a=rtcp-fb ccm pause config=3 could be used by the ITT4RT-Tx or ITT4RT MRF client to indicate that it will only receive and react to PAUSE and RESUME requests but will not send them.

An ITRT4RT-Rx client shall use the a=rtcp-fb ccm pause attribute and parameter values as specified in [RFC 5104] and [RFC 7728] to indicate the capability to support sending PAUSE and RESUME requests targeted for RTP streams it receives. The optional parameter setting of a=rtcp-fb ccm pause config=2 could be used by the ITT4RT-Rx client to indicate that it will only send PAUSE and RESUME requests but does not support receiving these requests.