**3GPP SA4#114-e meeting *S4-210798***

**May 18th – 28th 2021**

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| *CR-Form-v12.0* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **26.114** | **CR** |  | **rev** | **-** | **Current version:** | **17.0.0** |  |
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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:***  | S4-210798 ITT4RT: Presentation Overlay |
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| ***Source to WG:*** | KPN N.V. |
| ***Source to TSG:*** | SA4 |
|  |  |
| ***Work item code:*** | ITT4RT |  | ***Date:*** | 2021-05-12 |
|  |  |  |  |  |
| ***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 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-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:*** | How to handle presentation type content in ITT4RT is on requrement of the work item and currently not sufficiently addresed in 26.114 |
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| ***Summary of change:*** | Proposed a new section Y.6.4.4. to add functionality and message flows to handle signalling, detection and replacement of presentation content in the 360-degree content.  |
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| ***Consequences if not approved:*** | How to handle presentation type content in ITT4RT is not poperly addressed. |
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| ***Clauses affected:*** | Y.6.4.4. |
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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:*** |  |
| ***56***  |  |
| ***This CR's revision history:*** |  |

**===== 1st CHANGE =====**

## Y.6.4.4 Presentation Replacement

To prevent degradation of presentation material (e.g., slides, screen share, video, notes) that may be captured from a display (screen or projector) with a 360-degree camera, the captured content in the 360-degree video can be replaced with the original presentation material. This replacement could either be performed in the client sending the 360-video or in the network (MRF/MCU).

When replacement is performed in the client sending the 360-video, the availability of the presentation content should be signalled by the source of the content to the client sending the 360-video using the SDP parameter “a=content:slides”[81]. If no overlay parameters are given by the source of the presentation content (e.g., as Sphere-relative Overlay Configuration, see Y.6.4.3.2), the client sending the 360-video should determine an appropriate configuration for performing the content replacement in the 360-degree video.

When replacement is to be performed in the network (MRF/MCU), the client sending the 360-degree video should include the “a=3gpp\_360video\_replacement” attribute in its SDP offer or answer to indicate that content in the 360-degree video can be replaced. [If an MRF/MCU supports content replacement it should include the “a=3gpp\_360video\_replacement” attribute in its SDP offer or answer to indicate that it can perform content replacement.] If an MRF/MCU that supports content replacement receives an SDP offer or answer that includes the “a=3gpp\_360video\_replacement” attribute then the MRF/MCU should perform content replacement. [If the client sending the 360-degree video receives an SDP offer or answer that includes the “a=3gpp\_360video\_replacement” attribute then client sending the 360-degree video *<what does it do differently vs. not receiving the attribute? If there is no difference then is there a need for the MRF/MCU to include the attribute or can the attribute just be declarative from the client sending the 360-degree video?>*]

The availability of the presentation content should be signalled by the source of the content to the MRF/MCU using the SDP parameter “a=content:slides”[81]. If no overlay parameters are given by the source of the presentation content (e.g., as Sphere-relative Overlay Configuration, see Y.6.4.3.2), the MRF/MCU should determine an appropriate configuration for performing the content replacement in the 360-degree video.