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

**May 18th – 28th 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.114** | **CR** |  | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | S4-210798 ITT4RT: Presentation Overlay | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 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)* | |
|  |  | | | | | | | | | |
| ***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 | | | | | | | | |
|  | |  | | | | | | | | |
| ***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. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | How to handle presentation type content in ITT4RT is not poperly addressed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | Y.6.4.4. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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.