3GPP TSG-SA4 Meeting SA4#113-e S4-210560

April 6th- April 14th 2021

**Source:** Tencent

**Title:** Draft CR updates on Additional Overlay Configuration

**Document for** Agreement

**Agenda item:** 12.5

# Introduction:

This document proposes additional text for the draft CR. The below updates are proposed to be added in section X.6.4.3.3 of the draft CR.

# Justification

The below text is from the permanent document section 2.

“In the third scenario, multiple conference rooms are sending 360-degree video to an MRF/MCU. The rooms may choose to receive 2D video streams from other participants including one of the other rooms, which is displayed on the screen in the room. A pictorial representation is shown in Figure 2.3. ”

Diagram

Description automatically generated

Figure 2.3: Multiple rooms with 360-degree video

Therefore:

* The 360-degree video maybe received as 2D video streams
* The remote ITT4RT-Rx client may receive media streams which are not shared by the ITT4RT-Tx client

Based on the above scenario, there maybe 2 cases:

1. The ITT4RT-Tx client may or may not allow the ITT4RT-Rx client to stream overlays not shared by the ITT4RT-Tx client
2. The ITT4RT-Tx client includes a flag to prevent overlaps among the overlays: The region where the overlays, not shared by the ITT4RT-Tx client, are to be rendered may be decided by the ITT4RT-Rx client. However, overlay overlap may happen. Therefore, to avoid such overlaps, an overlay\_overlap flag maybe added.

|  |
| --- |
| **First Change** |

X.6.4.3.4 Additional Overlay Configuration

An ITT4RT client supporting the 3gpp\_overlay attribute to configure a sphere-relative overlay or viewport-relative overlay shall additionally include the following parameter for indicating the support for overlays from multiple senders:

* ~~multiple\_overlay\_flag: Indicates if the ITT4RT-Rx client is allowed to use multiple overlays. When set to 1, the client may stream more than one overlay to be displayed on the 360-degree video. The default value is 1.~~
* ~~other\_senders\_overlay\_flag: Indicates if the ITT4RT-Rx client is allowed to stream overlays from other ITT4RT-Tx clients. When set to 1, the ITT4RT-Rx client may stream overlays not shared by this ITT4RT-Tx client.~~
* overlay\_overlap\_flag: Indicates if the ITT4RT-Rx client is allowed to overlap overlays from ~~other~~ ITT4RT-Tx client. If set to 1, the ITT4RT-Rx client may overlap overlays ~~onto the overlays~~ shared by ~~this~~ the ITT4RT-Tx client.

|  |
| --- |
| **End of Changes** |

# Proposal

The proposal is to move the agreed changes to the draft CR