## **Source: Samsung Electronics Co., Ltd.**

## **Title: [ITT4RT] Proposed corrections on ABNF syntax**

## **Document for: Discussion and Agreement**

## **Agenda Item: 11.5**

1. **Introduction**

This contribution proposes to correct ABNF syntax in TS 26.114 and S4-211330 which was agreed as a basis for future work at SA4#115-e.

1. **Proposed corrections**
   1. **In clause Y.6.2.1 of TS 26.114**

Y.6.2.1 General

A new SDP attribute 3gpp\_360video is defined with the following ABNF syntax:

att-field = "3gpp\_360video"

att-value = [SP FOV] [SP FOV\_CENTER] [SP "Stereo"] [VDP]

VDP = "VDP" [SP Projection] [SP PPM] SP viewport\_ctrl SP viewport\_size

NOTE: If the SDP negotiations become too complex, defining profiles can be considered.

* 1. **In 13th change of S4-211330**

Y.6.2.6 Overlay and 360-degree video

An ITT4RT client that sends an SDP message with at least one 360-degree video/audio and at least one overlay shall include in SDP the attribute *itt4rt\_group* before any media lines. The *itt4rt\_group* attribute is used to group 360-degree media and overlay media using the mid attribute and the syntax for the SDP attribute is:

a=itt4rt\_group: <group-1> / … / <group-N>

where <group-X> shall include at least one mid associated with 360-degree media and at least one mid associated with an overlay as defined by the mid attribute in the corresponding media description.

The ABNF syntax for this attribute is the following:

att-field = "itt4rt\_group"

att-value = rest-group \*[" /" rest-group]

rest-group = 2\*(SP identification-tag)

; identification-tag is defined in RFC 5888

* 1. **In 18th change of S4-211330**

…

The ABNF syntax for the replacement attribute is as follows:

att-field = “3gpp\_360video\_replacement”

att-value = [sphere\_relative\_overlay\_config]

* 1. **In Y.6.5.2 of TS 26.114**

…

The ABNF syntax for this attribute is the following:

att-field= “3gpp\_fisheye”

att-value = [SP fisheye] SP fisheye-img SP maxpack

fisheye = integer

…

* 1. **In 20th change of S4-211330**

Y.6.8.2 Excluding other participants’ overlays

When an ITT4RT-Tx client in terminal sends a 360-degree video media stream to the MRF, it may include an attribute "a= no\_other\_overlays", which indicates that the MRF shall not group the 360-degree media stream from that ITT4RT-Tx client with overlay media streams from other ITT4RT clients. In this case, the MRF shall group the 360-degree video media stream and one or more overlays of that ITT4RT-Tx client in a separate <rest-group> in the itt4rt\_group attribute when describing them to any ITT4RT-Rx client.

The ABNF syntax for this attribute is the following:

att-field = "no\_other\_overlays"

NOTE: If multiple itt4rt\_group are created, an ITT4RT-Rx client in terminal would need to re-negotiate the session to switch to media streams from other itt4rt\_group. However, doing so may add further burden on the signaling nodes.

1. **Proposal**

We propose to agree the proposed corrections in section 2 and integrate it into a (d)CR on ITT4RT Phase 2 Features.