**Agenda item:** **9.7**

**Source:** Qualcomm Inc.

**Title: Update on one-way delays and RTT as XR QoE metrics**

**Document for** Discussion and Agreement

# Introduction

New RTP header extensions for end-to-end in-band delay measurements were adopted in TS26.522 at the SA4 #126 meeting, which enable accurate measurements of one-way delays and the round-trip time (RTT). Since these delays have been captured as XR QoE metrics in the TR 26.812 for FS\_ARMRQoE, an update on the measurement methods will help with the collection of these QoE metrics.

# Proposed changes to TR 26.812 v1.0.0

In clause 2, add:

\* \* \* \* 1st change \* \* \* \*

[30] 3GPP TS 26.522: "5G Real-time Media Transport Protocol Configurations".

\* \* \* \* End of 1st change \* \* \* \*

\* \* \* \* 2nd change \* \* \* \*

#### 6.3.4.1 Background

The motion-to-render-to-photon delay has a significant impact on the QoE. The delay consists of the uplink one-way delay, the downlink one-way delay, or the RTT. One of the issues of measuring these delays is that the measurements may not be representative of the delays experienced by the media. The issue has been considered in SmarTAR [23], and an in-band delay measurement method with RTP header extensions including the definitions of the RTP header extensions and the associated SDP signaling has been agreed in TS26.522 [30]. The method is beneficial to improving the accuracy of the measured the one-way delays and the RTT.

\* \* \* \* End of 2nd change \* \* \* \*