**Source: Huawei Technologies Co., Ltd. (Rapporteur), Ericsson LM, Intel**

**Title: [MP\_RTT] Proposed Permanent Document v0.0.2**

**Version: 0.0.2**

**Agenda Item: 10.9**

**Document for: Discussion and Agreement**

1. Introduction

During SA4#121 the new work item on “Enhanced Multiparty RTT” in S4-221617 was agreed, then approved by SA#98-e in SP-221346.

The objective of this work item is to specify suitable solutions for multiparty RTT media in IMS, for both RTP and IMS data channel transport.

The concrete objectives are as follows:

* Collect and document detailed use cases for multiparty usage of RTT
* Develop harmonized solutions for both RTP and IMS data channel transport that address the detailed use case needs
* Amend existing IMS control/signalling flows to support the solutions, if found necessary
* Document pros and cons of each solution, and provide implementation guidelines to equipment vendors, as an informational Annex
* Inform/coordinate with at least SA2, CT1, CT4, and with other relevant 3GPP groups as found necessary, to enable alignment and possible updates of specifications under the responsibility of those groups.

1. Introduction to Multi-party RTT
   1. Multi-party RTT use cases and scenarios
   2. Multi-party RTT requirements
2. Multi-party RTT Solutions
   1. Multi-party RTT over RTP Solution
      1. Architecture
      2. Call Flow
   2. Multi-party RTT over IMS Data Channel Solution
      1. Architecture
      2. Call Flow
3. Comparison between RTP and IMS Data Channel Solution
4. Interworking for Multiparty RTT between RTP and IMS Data Channel Solution
5. KPIs
6. References