**3GPP TSG-SA WG6 Meeting #60 S6-241323**

**Changsha, China, 15th - 19th April 2024 (revision of S6-241108)**

**Title: LS on the support of ECN marking L4S in MCVideo services**

**Response to:**

**Release: Rel-19**

**Work Item: enhMC**

**Source: SA6**

**To: SA4**

**Cc: CT1**

**Contact person: Rana Alhalaseh**

 **Rana.alhalaseh@ericsson.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** None

# 1 Overall description

SA6 has discussed the 5G network capabilities related to high data rate and low latency services in the focus of MCVideo services enhancements. In specific, the support of Low Latency, Low Loss and Scalable Throughput (L4S), which exposes the congestion information by marking the Explicit Congestion Notification (ECN) bits in the IP header of the user`s IP packets between the UE and the application server so that the respective MCVideo sender can adapt the application layer bit rate accordingly.

SA6 believes that ECN marking for L4S capability is essential for MCVideo services to maintain reliable and low-latency video services for mission critical users even in congestion scenarios. In case of accidents when large number of MC service users (e.g., police, firefighters, etc.) are located in a certain area to assist in the event, congestion can occur and the quality of the MCVideo services decreases due to the existing conditions. Therefore, ECN marking for L4S can play a significant role in adjusting the bit rate to maintain the maximum viable MCVideo services quality, meet the MC service availability requirements and MC KPIs for these MC service users.

Furthermore, the ECN marking for L4S can create the possibility to provide situational awareness for MC service users to report the current downlink congestion status back to the network and MC service server.

# 2 Actions

**To SA4**

**ACTION:** SA6 kindly asks SA4 to look into enhancements related to media handling, code and bit rate for MCVideo and other MC services within Rel-19 and provide their feedback to SA6.

# 3 Dates of next TSG SA WG 6 meetings

SA6#61 20th May – 24th May 2024 Jeju, Korea