3GPP TSG SA4-(AH) MBS SWG Post 132 TDoc S4aI….

Electronic Meeting, 5th June – 10th July 2025

**Title: LS on Transport protocol configuration for media streaming**

**Response to:**

**Release: Rel-19**

**Work Item: AMD\_PRO-MED**

**Source: SA4**

**To: SVTA**

**Cc: 5G-MAG**

**Contact person: Prakash Kolan**

 **P DOT Kolan AT samsung DOT com**

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

**Attachments:** [**SP-250265**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_131-bis-e/Docs/S4-250641.zip)

# 1 Overall description

3GPP SA4 is currently developing extensions to 5G Media Streaming Protocols under the Advanced Media Delivery (AMD\_PRO-MED) work item. Attached document SP-250265 outlines the detailed objectives, scope, and topics covered in this work item.

Some of the topics in this work item looked into using new transport and network layer technologies that are more specific to the delivery protocols. These technologies include QUIC for media transport, MPTCP (Multipath TCP) and MPQUIC (Multipath QUIC) for multipath transport, and IETF L4S (Low-Latency, Low Loss, and Scalable Throughput) for enhanced QoS.

3GPP SA4 has reviewed relevant specifications for these technologies, and identified the capability for applications to interact with the underlying transport client in the UE – for example, by providing transport protocol configuration parameters. Some of the configuration parameters that applications may provide to the transport client include:

- HTTP protocol version

- Type of multipath transport protocol to use (e.g., MPTCP, MPQUIC), number of paths for multipath transport etc.

- ECN marking for L4S

Currently, the 5G Media Streaming (5GMS) specifications defined in TS 26501 and TS 26510 allow the 5GMS Aware Application to provide only limited configuration parameters using the configuration API to the Media Player, primarily those based on Dash.js configuration. SA4 believes that allowing the 5GMS Aware Application in the UE to provide one or more of the above transport protocol configuration parameters to the Media Player would enable 5G Media Streaming to take advantage of newer transport technologies.

SA4 would like to inform SVTA and 5G-MAG about the ongoing specification work in 3GPP SA4 related to configuration of transport protocol information by the 5GMS Aware Application in the UE at the transport layer.

# 2 Actions

**To SVTA and 5G-MAG**

**ACTION:** SA4 kindly requests SVTA and 5G-MAG to take the specification work related to configuration of transport protocol parameters described above into account, and provide any feedback.

# 3 Dates of next TSG SA WG 4 meetings

SA4 #133-e 21 – 25 July 2025 Online

SA4#134 17 – 21 November 2025 Dallas, TX, USA