**3GPP TSG-SA WG4 Meeting #129-eS4-241438**

**e-Meeting, 19 – 23 August 2024**

Title: LS on RTC architecture in TS 26.506

Response to: -

Release: Rel-18

Work Item: iRTCW

Source: SA WG 4

To: SA WG 2

Cc: CT WG 1

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Attachments:

**1. Overall Description:**

SA4 has completed the definition of the generalized Media Delivery architecture within the 5G System for Media Delivery System which provide the functionalities for media session handling and media delivery. It is the extension from 5GMS (5G Media Streaming) which was developed in Rel-16 and coordinated with SA2 (1906842, S2-1908628). In addition, it enables to support WebRTC protocol for bi-directional media delivery in real-time manner (named as RTC: Real-Time media Communication). Motivated by:

- Operator assists of Application provider to provide WebRTC based service on 5G system. The provider can provide WebRTC-based immersive bi-directional media delivery in real-time manner on an operator platform (i.e., RTC AF and RTC AS based on 5GMS architecture) using APIs provided by the operator platform without huge changes on their RTC application.

- Support of WebRTC based application (i.e., Web browser and Native application). WebRTC-based services typically use SFU which enables low latency, in where requires handling of huge SDP and frequent SDP negotiations in a WebRTC session.

The 5GMS and RTC architecture are specified in TS 26.501 and TS 26.506, respectively, while the generalized Media Delivery architecture is specified both specifications commonly.

NOTE: Both 5GMS and RTC (and therefore the generalized Media Delivery architecture as well) are not relevant to IMS architecture.

More specifically, TS 26.506 further identified Media AF/AS functionalities and the usage of interfaces for RTC services as one instance of generalized Media Delivery architecture. Detailed protocols and APIs for RTC are specified in TS 26.113.

In addition, there is a proposal to study the extension of the architecture, interfaces, and processes for immersive RTC for WebRTC within operator’s data network and between different operator’s data networks. SA4 would like to ask SA2 to clarify whether there are any conflicting works in SA2.

**SA4 would like to kindly ask SA2:**

- To review the RTC architecture defined in TS 26.506 (based on the generalized Media Delivery architecture in 26.501) in the aspects of the alignment with the architecture specified in SA2.

- To provide feedback whether SA2 has any works which conflict with SA4 RTC study/work for supporting immersive real-time communication within operator’s data network and between different operator’s data networks.

**2. Actions:**

**ACTION: SA4 respectfully asks SA WG2 to take the above information into account and to provide feedback, if any.**

**3. Date of Next SA4 Meetings:**

SA4#130 18th - 22nd November 2024 Orlando, US

SA4#131 17th – 21st February 2025 Geneva, CH