**3GPP SA4 RTC SWG telco post #129-eS4aR240058**

**e-Meeting, 25 September 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

**Contact Person:**

Name: Hakju Ryan Lee

Tel. Number:

E-mail Address: hakju00.lee AT samsung DOT com

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

Attachments: SP-241374 (FS\_iRTCW\_Ph2 SID)

**1. Overall Description:**

SA4 has completed the definition of a generalized Media Delivery architecture within the 5G System for which provides functionalities for media session handling and media delivery. It is an extension of 5GMS (5G Media Streaming) which was developed in Rel-16 and coordinated with SA2 (S2-1906842, S2-1908628). The architecture enables support for the WebRTC protocol for bi-directional media delivery in real-time manner.

The development of the WebRTC features of the architecture (named as RTC: Real-Time media Communication), is motivated by the following:

- Operator assistances of Application providers to deploy WebRTC based services on the 5G system. The provider can deploy 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 addition, it requires handling of huge 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 in both specifications jointly.

NOTE: Both 5GMS and RTC (and therefore the generalized Media Delivery architecture as well) are not related to the 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 the generalized Media Delivery architecture. Detailed protocols and APIs for RTC are specified in TS 26.113.

Beyond these outcomes in Rel-19, SA4 would like to inform SA2 about the agreement of a Rel-19 new study FS\_iRTCW\_Ph2. It is a continuation of feasibility study of RTC aspects to identify potential solutions for unresolved issues in Release-18, such as media profiles/codecs and signalling for RTC to explore the feasibility of RTC, as addressed in the attached.

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

- SA4 is starting a study using the RTC architecture defined in TS 26.506 (based on the generalized Media Delivery architecture in 26.501) as a basis. SA2 is requested to provide any feedback on the architecture that may be relevant for this study.

**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