3GPP TSG SA WG4#113-e meeting TDoc S4-210473

E-meeting, 6 – 14 April 2021

**Title: [Proposed DRAFT] LS on Media-Related Services and Requirements**

**Response to: -**

**Release: 17 and 18**

**Work Item: General, FS\_XRTraffic**

**Source: 3GPP TSG SA WG4 (SA4)**

**To: 3GPP TSG SA WG1 (SA1)**

**Cc: 3GPP TSG SA (SA), 3GPP TSG SA WG2 (SA2), 3GPP TSG RAN WG1 (RAN1), 3GPP TSG SA WG6 (SA6)**

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

**Attachments:** none

# 1 Overall description

3GPP TSG SA WG4 (SA4) has recently updated its Terms of References (SP-200929) to address new developments in the media industry. Of the in total 7 responsibilities, the following 4 are explicitly highlighted

1. Definition of unicast and multicast/broadcast streaming and real-time communication media services and architectures (including media-centric cloud and edge computing architectures), interfaces and media APIs, media profiles, session descriptions, and content delivery protocols;
2. Guidance to other 3GPP groups concerning required QoS parameters, traffic characteristics and other system implications, imposed by different multimedia codecs, systems and service needs;
3. Speech, audio, video, and multimedia quality evaluation including new evaluation methods, testing, verification, characterisation, selection criteria, quality of experience (QoE) metrics and reporting, and UE media data analytics reporting;
4. Support of third-party media services and applications to benefit from 3GPP defined system and radio functionalities by providing suitable network and client interfaces/APIs;

In addition, 3GPP SA4 is regularly consulted through LSs for example from SA1, SA2 and RAN1 to support their work on defining service requirements, specifying 5QIs for new types of services, or supporting the evaluation of radio enhancements, in particular related to media and XR services. Some of the requests are related to exact bitrates in uplink and downlink of such services, delay and latency requirements, detailed traffic characteristics, statistical models, KPIs and quality criteria, etc. While SA4 generally has a broad pool of experts on media related topics, responding to such requests in a short amount of time is basically infeasible and may also lead to lower quality or non-satisfying responses.

Based on this, SA4 is interested to improve the support and guide other 3GPP groups on such matters. However, in order to prepare and allocate sufficient time in 3GPP SA4 for these matters, we kindly ask SA1 and SA, when approving new work in SA1 related to media, to also initiate and allocate time in SA4 to support the work in SA1 and subsequently in SA2 and possibly RAN.

A possible approach is provided in the Annex based on SA4 agreed document S4-210279. Other approaches may be considered as well.

Specifically, would ask that SA1 provides clear expectations from SA4 related to ongoing Rel-18 media-related work.

SA4 appreciates your support on this matter.

# 2 Actions

**ACTION:**

**To SA1**

We kindly ask to

1. provide clear instructions and expectations to SA4 wrt to ongoing Rel-18 work on media-related service requirements.
2. allow SA4 sufficient time to properly respond to media-related topics

# 3 Dates of next TSG SA WG 4 meetings

3GPP SA4#114-e 19 – 28 May 2021, e-meeting

3GPP SA4#115-e 23 – 27 August 2021, e-meeting (tbc)

# Annex A Possible approach for Coordination

A proposed better approach is documented in the diagram below

* SA1 starts a SID and develops use cases
* SA4 early in the process and creates a work stream documenting
  + Example Services
  + Reference System Design
  + Media Architecture
  + Traffic models
  + Quality Evaluation
  + QoS requirements
  + Simulation models
* This information can be used to influence
  + SA1 on service requirements
  + SA2 work on architecture and QoS
  + RAN1 work on Traffic simulation
* After this TR is completed, new specs may be generated in SA4 services and codecs.
* The traffic information is documented in TR 26.925.

