**SA WG2 Meeting #S2-162 S2-2405207**

**15 - 19 April, 2024, Changsha, China**

**Title: [Draft] Reply LS from SA2 on Updated AECC Publications for Future Connected Vehicle Services**

**Response to: LS on Updated AECC Publications for Future Connected Vehicle Services (S2-2403868)**

**Release:**

**Work Item:**

**Source:** **SA WG2**

**To: TSG SA**

**Cc: SA WG1, SA WG5, SA WG6**

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**Attachments:**

# 1 Overall description

The Automotive Edge Computing Consortium (AECC) sent the LS on Updated AECC Publications for Future Connected Vehicle Services to 3GPP TSG SA while CCing SA WG1, SA WG2, SA WG5 and SA WG6.

As a result of discussing the AECC LS at TSG SA#103 (March 2024), WGs were asked to coordinate any replies to this AECC LS through TSG SA rather than responding individually.

Therefore, SA2 would like to provide feedback on the AECC LS to TSG SA as below:

The AECC LS was pointing to two white papers and one technical report. The newest version of the white paper "AECC General Principle and Vision" includes newly identified service scenarios and use cases such as Green Mobility, Digital Twin, Vehicle Teleoperation service scenarios. The new version of the technical report "Driving Data to the Edge: The Challenge of Traffic Distribution" includes two new key issues such as the service continuity and Geolocation services. The new white paper "Connected Infrastructure for the Realization of the Green Mobility Society" investigate the green mobility challenges for the future society and shows the essential role of mobile network and IT infrastructure, referred to as "connected infrastructure," in supporting the evolution of green mobility and the adoption of new technologies such as Generative AI in the automotive industry.

After review of the white papers and technical report, SA2 found that some scenarios, concepts and solutions described in the documents can be related to SA2 work and scope. Therefore, SA2 would like to provide the latest updates of SA2 related work based on system architecture, procedures, and policy and charging control framework for the 5G System specified in TS 23.501, TS 23.502 and TS 23.503, respectively.

* V2X (Release 16 and onwards TS 23.287): specifies architecture enhancements for 5G System to support various V2X services including the Vehicle Teleoperation service (i.e. remote driving), whose requirements are specified in TS 22.185 and TS 22.186. Various aspects, e.g. edge computing, QoS sustainability, provisioning and configuration update are covered.
* Edge Computing (Release 17 and onwards TS 23.548): specifies 5G System enhancements for edge computing including Edge Application Server (EAS) (re-)discovery, edge relocation, local traffic routing.
* AIMLsys (Release 18 and onwards TS 23.501, TS 23.502, TS 23.503 and TS 23.288): specifies 5GC enablers to support AI/ML operation splitting between AI/ML endpoints, AI/ML model/data distribution/sharing and Distributed/Federated Learning in the Application layer over the 5G System.
* FS\_EnergySys (Release 19 TR 23.700-66): studies and identifies potential enhancements on 5GS (e.g. including network energy related information exposure, enhancement for subscription and policy control to enable energy efficiency as service criteria) to improve energy efficiency and to support energy saving in the network.
* FS\_eEDGE\_5GC\_Ph3 (Release 19 TR 23.700-49): studies potential system enhancements for enhanced edge computing support related to e.g. more efficient Edge Hosting Environment information management and related EAS discovery.
* FS\_MASSS (Release 19 TR 23.700-54): studies and identifies potential architecture and system level enhancements for the 5G system to support the operation of the DualSteer Device that is capable of traffic steering and switching of user data for different services across two 3GPP access networks, how to extend the MPQUIC steering functionality to steer, switch and split non-UDP traffic (TCP, IP, Ethernet traffic), and how to simplify ATSSS architecture.
* FS\_AIML\_CN (Release 19 TR 23.700-84): studies and identifies potential enhancements on 5GS to support AI/ML based positioning considering AI/ML cross-domain coordination and to assist in collaborative AI/ML operations involving NWDAF and AF for Vertical Federated Learning.

# 2 Actions

**To TSG SA**

**ACTION:**

SA2 kindly requests TSG SA to take into account SA2 feedback above when providing responses to AECC on behalf of 3GPP.

# 3 Dates of next TSG SA WG2 meetings

TSG-SA2 Meeting #163 27 – 31 May 2024 Jeju, KR

TSG-SA2 Meeting #164 19 – 23 August 2024 Maastricht, NL