**3GPP TSG-SA5 Meeting #155 S5-243069d1**

**Jeju, North Korea, 27 - 31 May 2024**

**Title:** Reply LS from SA5 on Updated AECC Publications for Future Connected Vehicle Services

**Response to:** LS on Updated AECC Publications for Future Connected Vehicle Services (S5-242353)

**Release:**

**Work Item:**

**Source:** SA WG5

**To:** TSG SA

**Cc:** SA WG1, SA WG2, SA WG6

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

**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, SA5 would like to provide feedback on the AECC LS to TSG SA as below:

SA5 would like to provide the latest updates on SA5 work on 5G network and service management, orchestration and charging topics which can be related to AECC use cases:

* Edge Computing: TS 28.538 (Management and orchestration; Edge Computing Management) specifies the management aspects of edge computing including concepts, use cases, requirements and procedural flows that covers lifecycle management, provisioning, performance assurance and fault supervision for edge computing. TS 32.257 (Charging management; Edge computing domain charging) specifies charging solutions for Edge Computing, including charging principles, architectures and procedures, covering both end-user and service-provider for edge application service, edge enabling infrastructure and usage of 5GS capabilities supporting edge computing.
* AI/ML: TS 28.105 (Management and orchestration; Artificial Intelligence / Machine Learning (AI/ML) management) specifies the Artificial Intelligence / Machine Learning (AI/ML) management capabilities and services for 5GS where AI/ML is used, including management and orchestration (e.g. Management Data Analytics (MDA)) and 5G networks It provides the general framework for the operational workflow encapsulating various life cycle management (LCM) operations for ML model (i.e. model training and testing, emulation, deployment, and inference), and a comprehensive number of detailed use cases for each phase of the operational workflow along with requirements and corresponding solutions
* Management Data Analytics (MDA): TS 28.104 (Management and orchestration; Management Data Analytics (MDA)) specifies the MDA capabilities with corresponding analytics inputs and analytics outputs (reports), as well as processes and requirements for MDAS (Management Data Analytics Service), historical data handling for MDA, and ML support for MDA. It also describes the MDA functionality and service framework, and MDA role in the management loop
* Energy Efficiency: TS 28.310 (Management and orchestration; Energy efficiency of 5G) specifies concepts, use cases, requirements and solutions for the energy efficiency assessment and optimization for energy saving of 5G networks
* 5G System Key Performance Indicators (KPI): TS 28.554 (Management and orchestration; 5G end to end Key Performance Indicators) specifies end-to-end Key Performance Indicators (KPIs) for the 5G network and network slicing, of the following categories: accessibility, integrity, utilization, retainability, mobility, energy efficiency, reliability
* UE level measurements: TS 28.558 (Management and orchestration; UE level measurements for 5G system) specifies the UE level measurements for 5G system, and the corresponding collection and reporting mechanisms

SA5 is progressing Release 19 studies on topics that may be related to the contents described in the AECC publications. A non-exhaustive list of these topics is provided below (some of them are continuation of Rel-18 work):

* Study on AI/ML management (TR 28.908)
* Study on Management Data Analytics (TR 28.866)
* Study on management aspects of Network Digital Twin (TR 28.915)
* 5G performance measurements and KPIs (TS 28.554, TS 28.552)
* Subscriber and Equipment Trace and QoE collection management (TS 32.422)
* Study on Management Aspects of Non-Terrestrial Networks (TR 28.874)
* Study on energy efficiency and energy saving aspects of 5G networks and services (TR 28.880)

Please refer to the following 3GPP web page about Release 19 timeline, work plan, contents, etc.

o https://www.3gpp.org/specifications-technologies/releases/release-19

# 2 Actions

**To TSG SA**

**ACTION:**

SA5 kindly requests TSG SA to consider SA5 feedback above when providing responses to AECC on behalf of 3GPP.

# 3 Dates of next TSG SA WG5 meetings

SA5#156 19 – 23 Aug., 2024 Maastricht, NL

SA5#157 14 – 18 Oct., 2024 Hyderabad, India