Q4 Company

AECC Offers Guidance to Connected Vehicle Services Industry with "Data Management Systems in the Distributed Environment" White Paper

9/27/2023

AECC White Paper Offers Ways to Overcome Data Management Challenges When Transitioning to Intelligent Mobility Services

WAKEFIELD, Mass.--(BUSINESS WIRE)-- The automotive industry is undergoing a transformative period driven by the rise of connected vehicles and innovative, intelligent mobility services. In response to this seismic shift, the **Automotive Edge Computing Consortium (AECC)** today announced the publication of its latest white paper titled **Data Management Systems in the Distributed Environment**, which delves into the critical role of effective data handling in shaping the future of intelligent connected vehicle services and elevating customer experiences within this dynamic landscape. Available free of charge, this AECC white paper can be downloaded here: **https://aecc.org/resources/publications/**.

- Download the AECC Data Management Systems in the Distributed Environment Distributed Computing white paper on the **AECC publication page**
- Read the overview blog **New White Paper Provides a Deep Dive into Global Data Management for Connected Vehicle Services**
- AECC members, **register for the AECC all member meeting in Japan, Oct. 10-13**
- Looking to get involved and participate? Join the AECC by visiting **https://aecc.org/membership/**

One of the central insights offered by the white paper is the assertion that data management within a distributed environment can significantly alleviate the strain on network data transfers. By adopting a distributed approach, as illustrated by the AECC's framework, the industry can process colossal amounts of data more expeditiously, all

while being closer to the vehicles in operation. The paper underscores that effective data management remains pivotal to upholding global data consistency, facilitating seamless data movement and synchronization across distributed environments, and fortifying secure and rapid access to data.

"Our new AECC white paper encapsulates a comprehensive overview of the challenges and opportunities that data-driven intelligent mobility services bring to the connected vehicle sector. By delving into the intricacies of managing data flows, achieving optimal response times, and maximizing cost-effectiveness, the white paper offers an indispensable resource for industry stakeholders aiming to navigate this transformative landscape," said **AECC President and Chairperson Ken-ichi Murata**. "We thank the AECC Use Case Development Working Group for their dedication and hard work on this paper."

Advance Mobility Services Like Parking Space Availability Detection

To illustrate the paper's concepts, the white paper employs the problem of parking space availability detection as a pertinent use case. This scenario involves the collection and analysis of real-time data from vehicles to identify vacant parking spaces, subsequently notifying subscribers of these spaces. The analysis-intensive nature of this use case renders traditional solutions, such as content delivery networks, inadequate. Thus, the paper presents a generalized rendition of this use case, allowing for the exploration of high-level system behaviors. Moreover, it outlines specific data management requirements and recommendations intended to guide industry players who endeavor to construct similar mobility services.

Learn About Advancements: Teleoperation, Environmentally Conscious Mobility Solutions, Cloud-Based Services and More

In addition, the AECC has recently revised its **General Principle and Vision** white paper, which serves as the cornerstone of AECC's initiatives and as the pivotal document from which all other endeavors originate. Available free of charge as a downloadable document, the paper outlines AECC's roadmap for functional architecture documents (FADs), proofs of concept (PoCs), and various other AECC whitepapers. Notably, this document has undergone updates to encompass emerging subjects such as teleoperation, environmentally conscious mobility solutions, and the integration of cloud-based services into vehicles. This updated version aims to facilitate the advancement of connected vehicle services' best practices and novel use cases, thereby expediting the growth of the entire connected vehicle edge computing industry.

- Download the General Principle and Vision white paper on the **AECC publication page**
- Read the overview blog **AECC Updates Our General Vision to Meet Changing Times**

AECC Membership Benefits

All companies interested in contributing to the connected vehicle services ecosystem are encouraged to become AECC members. AECC membership is open to organizations across any business vertical that are compelled to develop a new era where connected vehicles utilize the full benefits of high-volume data for the evolution of the connected world in ways that improve safety, sustainability, reliability, and the mobility user experience. To learn more about AECC membership, visit **https://aecc.org/membership/**.

About the AECC

The Automotive Edge Computing Consortium (AECC) is an association of cross-industry, global leaders working to explore the rapidly evolving and significant data and communications needs involved in instrumenting billions of vehicles worldwide. The AECC's goal is to find more efficient ways to develop the distributed computing and infrastructure network architectures to support the high-volume data needed for intelligent vehicle services. The AECC's members are key players in the automotive, high-speed mobile network, edge computing, wireless technology, distributed computing and artificial intelligence markets. For more information about the AECC and its membership benefits, please visit **https://aecc.org/**.

Media Contact

Melissa Bednar

AECC Public Relations

mbednar@virtualinc.com

(781) 876-8962

Jessie Hennion

AECC Public Relations

jhennion@virtualinc.com

(781) 876-6280

Source: Automotive Edge Computing Consortium