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challenging limits

Kapsch TrafficCom

Central Texas Regional Mobility Authority V2X Tolling Pilot.

Austin, Texas (USA).

Kapsch has partnered with the Central Texas Regional Mobility Authority (CTRMA) and Ford Motor Company (Ford) to test a next generation of connected vehicles that provide real-time toll services. The vehicles also may communicate with Kapsch roadside units to provide drivers with real-time information about roadway conditions including accidents, congestion, lane closures, and changing weather conditions along with a host of transportation-related information.

Kapsch has installed its dual-mode / dual-active RIS-9260 roadside unit (RSU) at toll gantries on the MoPac Express Lane and on the 45SW Toll Road. Both toll roads are managed by CTRMA in Austin. The RSUs communicate with Ford test vehicles using "Cellular Vehicle to Everything" (C-V2X) connected vehicle technology. Test drivers in Ford vehicles receive visual and verbal messages as they approach and pass through tolling points.

On the MoPac Express Lane, which has variable pricing that changes based on traffic volumes, drivers will be notified about the toll rate prior to choosing

Technical Features.

- > RIS-9260 RSU
- > Connected Vehicle Toll Service
- > Corridor Management
- > OEM service integration
- > Edge processing integration with OEM

Key Benefits.

- > Technology-neutral tolling services
- > Connected corridor provides drivers with real-time road condition information
- > Consumer service choice
- > Reduces operational cost

whether to use the lane. On the 45SW Toll Road drivers will be notified about the toll rate before passing through the tolling location.

On both roadways, as drivers pass through the tolling location, the vehicle will confirm that the toll was paid. Drivers will have the option to access their toll user account for a receipt and perform other account functions.

In addition to tolling, the Ford connected vehicles will be able to receive and inform drivers with notifications about speed limits, roadside signs, and traffic conditions. The pilot project will test the ability of the Kapsch roadside units to accurately and effectively exchange this type of information with the Ford test vehicles.

About Connected Vehicle Tolling

Kapsch is at the forefront of creating a Connected Vehicle Tolling Service (CVTS) that expands existing tolling offerings. The CVTS seamlessly enables connected vehicles to pay tolls and manage accounts. Using traditional vehicle-to-infrastructure (V2I) communications, equipped vehicles can broadcast and receive toll messages.

Kapsch is building partnerships with OEMs to bring Connected Vehicle tolling to the marketplace. Leveraging CV capabilities planned for new model years, CVTS enables toll accessibility through the OEM channel. The Kapsch CVTS serves as the payment collector and broker between OEM-equipped vehicles and toll agencies. The CVTS allows automakers to focus on vehicle services and driver experience, while Kapsch manages the toll system integrations and functionality.

Technical Specifications.

RIS-9260 Roadside Unit (RSU)

Dual-mode and dual-active capable for DSRC and C-V2X

Connected Mobility Control Center (CMCC)

Enables efficient operations and maintenance, data collection, and multi-agency data sharing via a cloud-based platform

Connected Vehicle Tolling Service

Technology-neutral tolling approach enables V2X, mobile, and traditional tolling service options for customers and toll agencies

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Kapsch TrafficCom

Kapsch TrafficCom is a globally renowned provider of transportation solutions for sustainable mobility. Our innovative solutions in the application fields of Tolling, Traffic Management, Demand Management and Mobility Services contribute to a healthy world without congestion. We have brought projects to successful fruition in more than 50 countries around the globe.

With our one-stop solutions, we cover the entire value chain of our customers, from components and design to the implementation and operation of systems. As part of the Kapsch Group and headquartered in Vienna, Kapsch TrafficCom has subsidiaries and branches in more than 30 countries. It has been listed in the Prime Market of the Vienna Stock Exchange since 2007 (ticker symbol: KTCG). Kapsch TrafficCom's about 5,100 employees generated revenues of EUR 731 million in fiscal year 2019/20.

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