



Kapsch TrafficCom

Emergency Vehicle Corridor Project. *Calgary, Alberta (Canada).*

Kapsch provides connected vehicle technology in the city of Calgary's downtown metropolitan areas for a project that has received funding from Transport Canada's "Program to Advance Connectivity and Automation in the Transportation System."

Kapsch delivered an emergency vehicle (EV) service corridor in metropolitan Calgary, Alberta. The corridor comprises 16 contiguous intersections and uses Kapsch RIS-9260 roadside units (RSU) at the roadside, and Kapsch OBUs in EV firetrucks to enable emergency vehicle pre-emption services. When the vehicle warning lights are active, the traffic lights automatically become green and enable the EVs to pass through the cleared intersections, thereby saving vital time and in some cases, ultimately lives.

As part of the project, Kapsch has also installed its smartphone-based eWalk system at the Calgary intersections.

Technical Features.

- > RIS-9260 RSU
- > ACV-3301 OBU
- > CMCC corridor management
- > Intelight signal controller integration
- > CMCC Corridor Management
- > SCMS provided by BlackBerry®
- > Emergency Vehicle integration
- > eWalk Pedestrian Safety

Key Benefits.

- > First responder vehicle accidents decreased
- > Lifesaving services more efficient as incident response times are reduced
- > eWalk enables accessibility for visually-impaired pedestrians
- > Emergency vehicle alerts increases awareness
- > Corridor management simplifies operations and maintenance

The system enables visually-impaired pedestrians to safely cross the street by using audible smartphone notifications that activate whenever the pedestrian is near or in a signalized crosswalk.

Kapsch RSUs interact with Intelight controllers to gather SPaT data and make the pre-emption requests. V2X communications are capable over DSRC or C-V2X, providing technology flexibility for the city of Calgary. The system is managed by the Kapsch Connected Mobility Control Center (CMCC), a software application that allows the road operator to oversee all connected vehicle assets from a central platform and to configure them remotely. The CMCC further allows the city to capture data generated within the corridor for usage by other transportation systems or after-the-fact analysis.

Kapsch worked closely with Blackberry to ensure security credential management system (SCMS) integration.

Product Highlights.

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

ACV-3301 Onboard Unit (OBU)

In-vehicle unit equipped for DSRC or C-V2X communication with roadside unit

Customer	City of Calgary
Contact	<i>Raman Jafroudi</i> National Sales Director, CAN raman.jafroudi@kapsch.net
URL	https://www.businesswire.com/news/home/20200512005092/en/Green-Signal-Lights-Emergency-Vehicles-Calgary-Alberta

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.

>>> www.kapsch.net