



## Case Study: Service Providers

### Objectives

- Improve real-time synchronization across multiple systems to enhance public safety
- Scale to support city-wide deployments
- Optimize efficiency using machine learning insights from full resolution edge data
- Make insights available via real-time APIs

### Summary

An innovative company specializing in electronic traffic equipment and software for transportation in 90+ countries wanted to transform raw data from their equipment into a real-time streaming API that could support autonomous vehicle projects. Using SWIM EDX, the company was able to successfully launch their new service with unmatched performance and scalability - transmitting the same information at a sub-second rate with only a fraction of the network costs that come with a REST-based architecture. The result was new customers and additional revenue streams from existing equipment using only SWIM EDX software.

### Solution

SWIM EDX was deployed on the supporting transportation agency's infrastructure with access to the real-time data feeds from traffic controllers, crosswalks, vehicle detectors, and other sensors. Each intersection would normally generate 40 GB per day, making it a challenge to batch, transmit, store, and process in the cloud as you scale to more than 300,000 intersections in the U.S. alone. SWIM was able to generate stateful services for each sensor (by creating a digital twin) and transmit state changes that reduced the network traffic by more than 60%. Innovators in the automotive industry are now subscribing to the streaming API service and receiving updates at the sub-second speed necessary to support the real-time logic required for fully autonomous vehicles.

### Learn More

Learn how SWIM uses edge intelligence to deliver real-time insights from the dark data generated by connected infrastructure by visiting [www.swim.ai](http://www.swim.ai)