

KINETIC™ CV

CENTRALIZED TRAFFIC SIGNAL DATA FOR CONNECTED VEHICLES & MORE



OVERVIEW

Kinetic™ CV provides a single, central point for sharing traffic signal data with vehicles (OEMs) and third-party devices without installing additional hardware at the intersection. The single system aggregates data from all signalized intersections running Q-Free MAXTIME ic local control software and allows agencies to disseminate SPaT data to authenticated subscribers. Resulting data supports a variety of V2X applications for more efficient, greener travel and improved safety for motorists and vulnerable road users – such as cyclists and pedestrians – alike.

The low-latency solution delivers data via V2X cellular infrastructure and is therefore not vulnerable to the reduction of designated connected and autonomous vehicle broadband spectrum used by DSRC or 5G radios, announced by the Federal Communications Commission.

As part of Q-Free's Kinetic Mobility platform (more on back), Kinetic CV is built on a modern tech stack developed and used by tech giants providing a scalable solution for optimal performance today and into the future.

Using the powerful Kinetic Mobility intersection graphics, Kinetic CV allows users to leverage the same intersection maps across applications. Meaning, CV users can set up an intersection graphic once and use it for centralized traffic signal management (or vice versa) by simply activating a new license key.

BENEFITS

- Boost road safety and efficiency by sharing real-time traffic signal data with connected vehicles, smart phone applications, and more through third-party providers
- Aggregate and share SPaT data from all controllers in the system from a single, centralized end-point
- Access and install with ease
- Provide near real-time, low latency data (<250 ms)
- Create an intersection once and use it across the entire Kinetic Mobility platform
- Comply with leading industry data and security requirements
- Save up to 5x over alternative intersection-based hardware solutions – no hardware required



WEB-BASED,
THIN CLIENT
PLATFORM



FAST, ACCURATE
SIGNAL DATA



ADVANCED DATA FEATURES

Low-latency data provided in 250 milliseconds or less using V2X cellular communications. Data sets include:

- SPaT
- MAP
- Position and lane tracking
- Time-to-green/red

Data is securely authenticated for specific applications using JSON Pub/Sub API.

STANDARDS COMPLIANCE

Complies with the latest industry standards and guidelines for connected and autonomous vehicle operations:

- ATC
- NTCIP
- DSRC J2735 standards
- ITE CI guidelines

KINETIC™ MOBILITY

Kinetic Mobility enables agencies to collaborate on common mobility goals across local, intercity, and regional applications. Breaking down traditional traffic management silos, the platform offers a single, user-configurable interface to easily monitor and operate all aspects of intelligent transportation systems including traffic signals, events, signs, video, and more.

- Provides a single, off-the-shelf solution
- Unifies signal and freeway management
- Creates a truly open traffic ecosystem



SET UP

Quickly set up intersections and activate with a license key.



DATA

Aggregate system-wide signalized data in a single, central point.



KINETIC CV

Securely disseminate data in near real-time (<250 ms) with authenticated users.