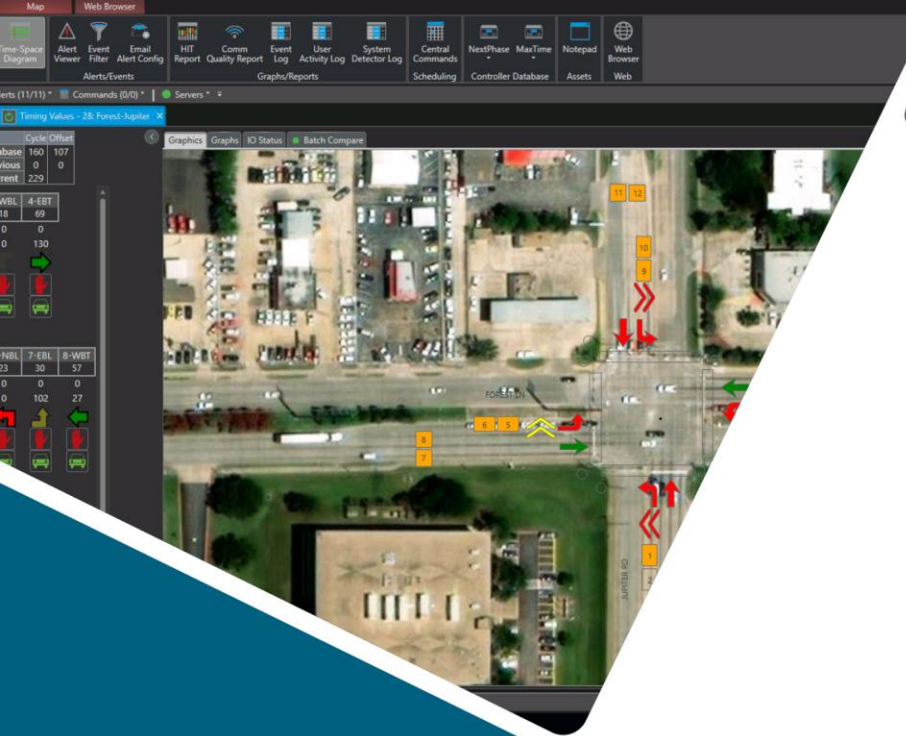




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Traction Connect Overview

»»KITS

A Kimley-Horn Software Solution

»»Kadence

A Kimley-Horn Software Solution

»»Traction

A Kimley-Horn Software Solution



Overview

Traction Smart Cities Ecosystem

»» **TractionLive**

View real-time system status from your web browser or mobile device.

»» **TractionTravel**

Collect, analyze, and automate travel time data and alerts.

»» **TractionPriority**

Provide centralized priority for all modes of transportation.

»» **TractionMetrics**

Visualize performance data with streamlined dashboards and reports.

»» **TractionConnect**

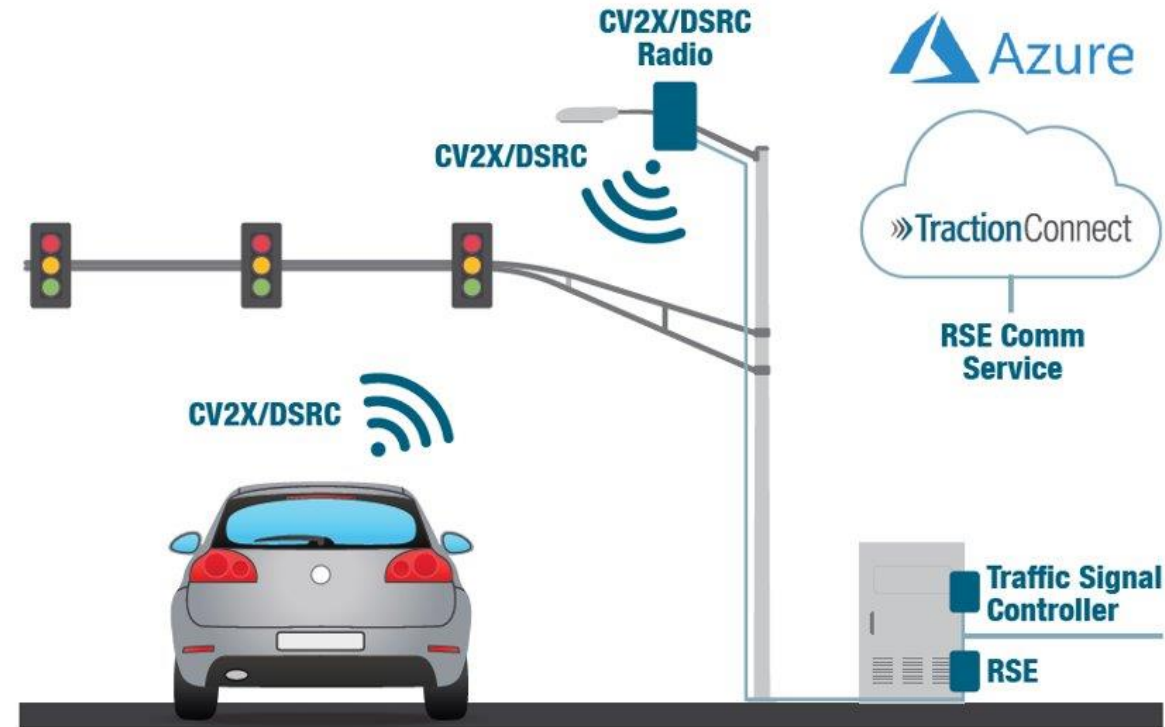
Share and receive connected vehicle data and traveler information messages.

»» **TractionWorkflow**

Manage assets, inventory, and work order tasks.

Connected Vehicles 101

- **On Board Unit** – OBU – processor and DSRC/CV2X in the vehicle
 - May or may not include a driver interface and apps
 - Without a driver interface, typically called a “Vehicle Awareness Device”
- **Roadside Unit** – RSU – the DSRC/CV2X radio at the traffic signal
- **Roadside Equipment** – RSE – the processor that runs CV applications
- Vehicles broadcast **Basic Safety Messages (BSMs)**
- RSE/RSU broadcast **Signal Phase and Timing (SPaT)**, a **map** of the intersection geometry (MAP), and **traveler information messages (TIM)** configured by an agency user
- DSRC or CV2X radios within range and line of sight hear the broadcast
- There is no “connection” from V2V or V2I/I2V, kind of like tweeting versus instant messaging



Traction Connect By Kimley-Horn

- Comprehensive connected vehicle solution
- Native interfaces for creating:
 - Traveler Information Messages (TIM)
 - MAP/SPaT (SAE J2735 standards)
- Mobile app for Android Auto and Apple Carplay
- RSE interface in Traction Connect website and KITS ATMS
 - Basic Safety Message (BSM) data
 - RSE status and configuration

Infrastructure to Vehicle (I2V) Apps

- SPaT comes from the controller to the RSE directly
- MAP is configured in Traction Connect and pushed to the RSEs
- TIMs are configured in Traction Connect and pushed to RSEs or to Traction Connect app
- RSE status on map, event log, etc.

Traction Connect App In Action



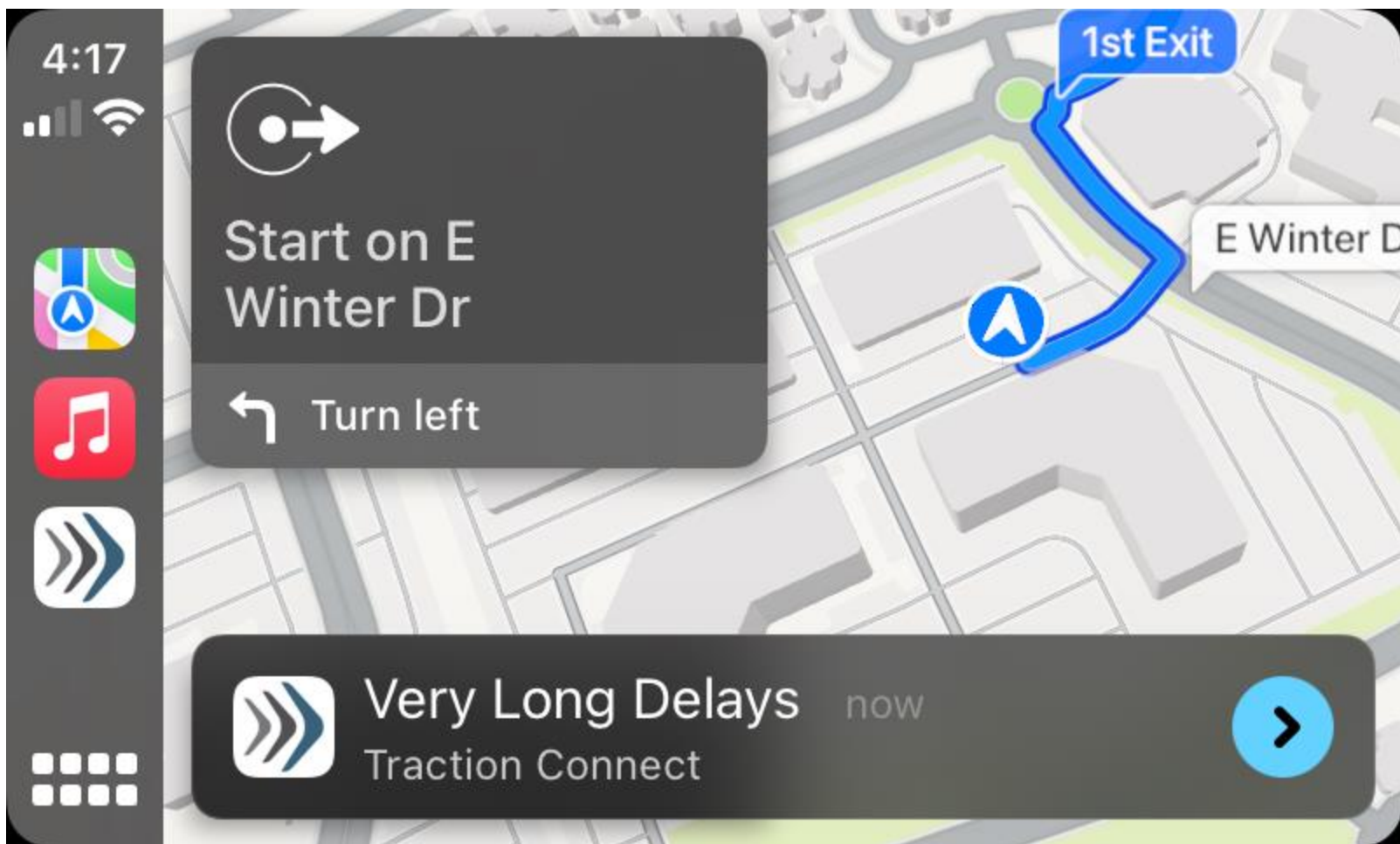




Safety Warning

Source	KITS
Agency	Admin
Category	TIM
Asset ID	
Description	
Date Created	Jan 27, 2022, 9:48:00 PM
Last Updated	
Virtual DMS String	Winter Storm Icy roads - be careful!

[Zoom To](#)[Edit TIM](#)[View in List](#)

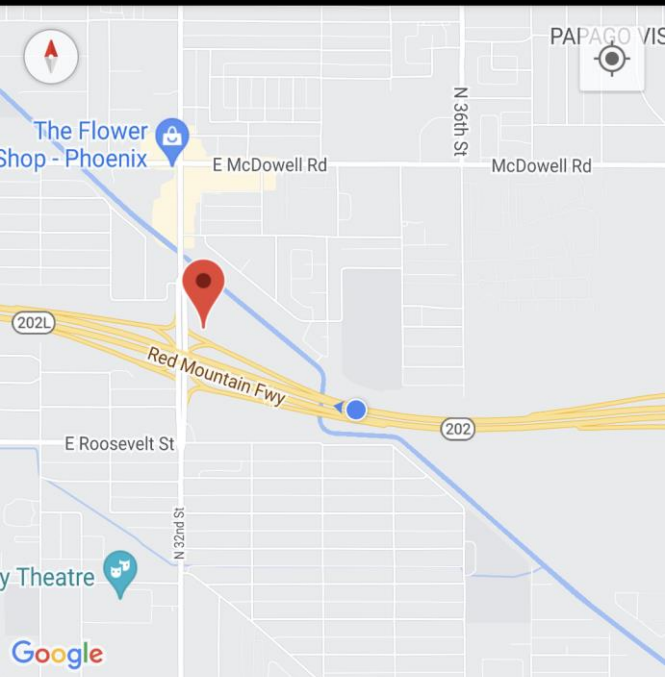


8:35

LTE

Travel Alerts

Safety Warning



Message: (Approaching) accident involving a motorcycle: City of Phoenix at A202 RED MTN @ N 24TH ST WB OP ,PHX less than 2 miles away

Type: Safety Warning

Start: Thu, 29 Sep 2022 08:35

End: Thu, 29 Sep 2022 08:35

8:44

LTE

Travel Alerts

Crash blocking the left lanes on 202-LOOP Westbound near I-10 Eastbound (MP 1) (Az511.gov) less than 2 miles away

accident involving a motorcycle: City of Phoenix at A202 RED MTN @ N 24TH ST WB OP ,PHX less than 2 miles away



Messages

No messages in your area



Thank You!