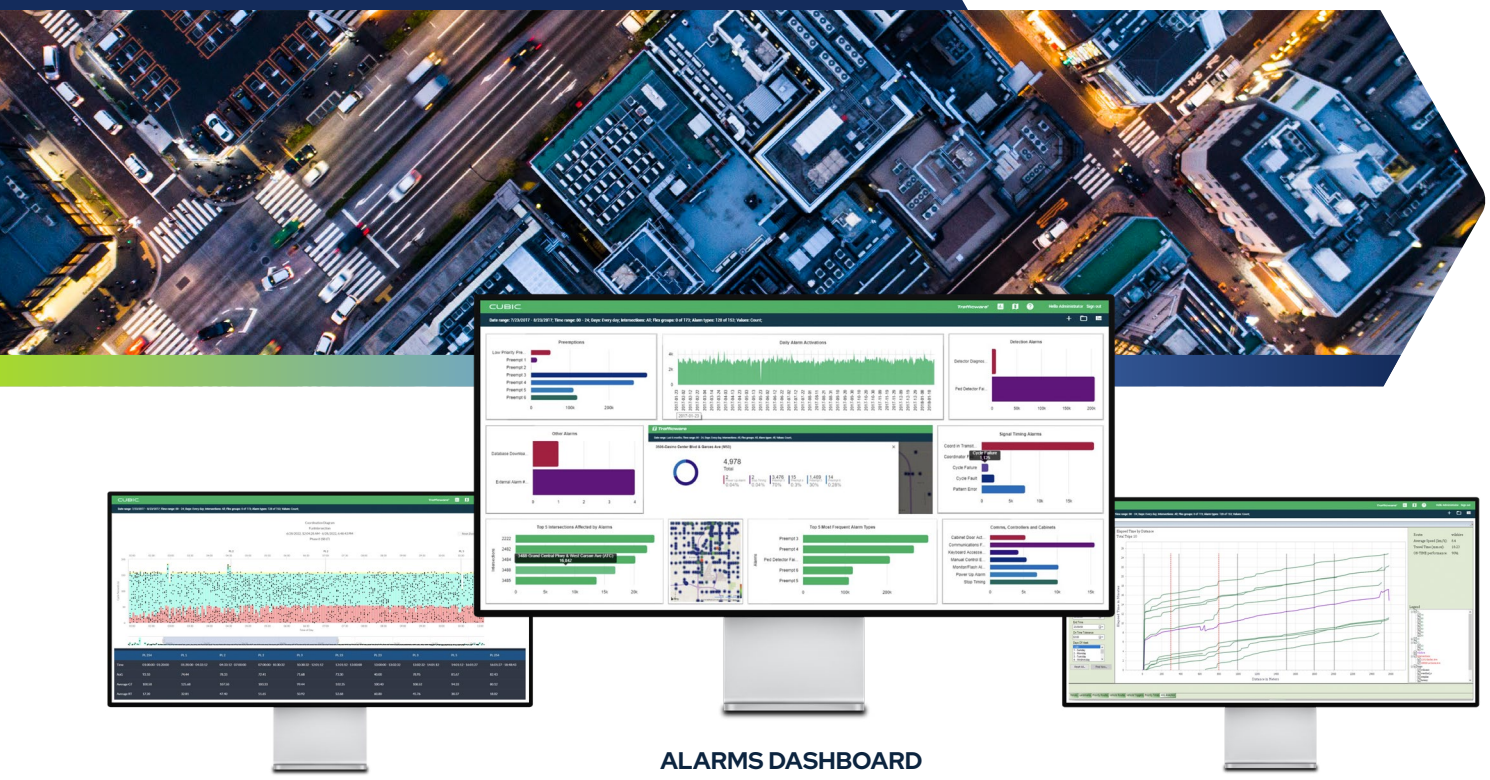
cubic®

Trafficware ATMS



SPM DASHBOARD

ALARMS DASHBOARD

TSP DASHBOARD

Trafficware® Advanced Transportation Management System (ATMS)

The Cubic Trafficware® ATMS solution is a scalable, integrated platform that helps agencies effectively manage the growing complexity of modern traffic networks. Designed for real-time operations, ATMS equips traffic management teams with powerful tools to monitor live intersection performance, view network-wide status updates, analyze alerts, generate detailed reports, and configure and control edge devices across the network. By consolidating all traffic data into a centralized repository, ATMS provides a unified, real-time, 360-degree view of your transportation ecosystem. This level of visibility enables faster, more informed decision-making, improves operational efficiency, and enhances overall situational awareness. This ensures your team is always ready to respond to shifting traffic conditions and long-term infrastructure needs.

Benefits

- Scalable Transportation System Management & Operations (TMSO)
- Comprehensive Traffic Signal Network Control
- Real-time event detection, management, & alerts
- Optimize intersection performance to reduce congestion
- Improve emergency response time & roadway safety
- Support data-driven decision making with centralized data solution
- Evaluate signal efficiency with Signal Performance Measures (SPM)

ADDITIONAL MODULES

TRANSIT SIGNAL PRIORITY (TSP)

TSP facilitates the movement of transit vehicles by automatically adjusting signal timings to minimize transit vehicle stops and delays while minimizing the impact on normal traffic operations. TSP is a centralized, routebased TSP that provides conditional priority of service to transit vehicles without relying on the additional physical equipment at the intersection. The priority requests are generated based on the vehicle's proximity to the immediate downstream intersection and schedule adherence presets. TSP leverages bus route and real-time positioning information available via GTFS data formats, static and real-time.

SIGNAL PERFORMANCE MEASURES (SPMs)

SPM high-resolution software is optimized to leverage granular data and provide better insight into operations, supporting single day/ single intersection queries for eight core high-resolution measures of effectiveness.

SYNCHROGREEN ADAPTIVE TRAFFIC CONTROL

SynchroGreen by Trafficware is the industry's premier Real-time Adaptive Traffic Signal Control Technology. SynchroGreen maximizes the use of available roadway capacity by considering sidestreet, pedestrian mainline traffic, reducing travel time, delays, and stops for all road users while simultaneously decreasing fuel consumption and emissions

TIDAL WAVE

Tidal Wave is a live streaming traffic information service powered by machine-learning and edge computing. Tidal Wave delivers predictive learning applications for connected vehicles, smart cities, smart intersections, and "Internet of Things" (IoT) markets.

PODNexus

PODNexus is a web-based interface that allows users to collect high resolution data like Volume, Occupancy, and Speed reports as well as System Health reports.

CENTER-TO-CENTER

Center-to-Center enables data exchange between ATMS and an external management center and can be used to support Integrated Corridor Management applications. ATMS conforms to TMDD 3.03d for C2C.

ADVANCED COMMUNICATIONS

The Advanced Communications Module expands on an agency's capabilities over an extended network of controllers.

STREETSYNC

StreetSync allows users to wirelessly access signal controllers from the comfort and safety of their vehicle. Users can sync data with the agency's ATMS central server, even when the controller is not connected to the traffic signal network, allowing agencies to maintain controller database integrity.

DISASTER RECOVERY MODULE

The Disaster Recovery Module provides a secondary server that will restore ATMS data and traffic operations in the event that the primary server fails.

CHANGEABLE MESSAGE SIGNS

Communicate with travelers using changeable messages signs.

UPS

The UPS Module integrates with Uninterruptible Power Supply (UPS) units allowing users to access the device status, alarms, notifications, and reports. ATMS conforms to the UPS.mib (RFC 1628).