



Advanced Transportation Management System (ATMS)

The Cubic TrafficWare ATMS solution is a scalable traffic operations management platform for agencies managing complex transportation systems. ATMS enables agency staff to view the current status, monitor intersection network performance, analyze alerts, generate reports, and configure and control intersection edge devices. ATMS brings together all of your traffic network data into a single repository for a completely integrated, real-time 360-degree view of your traffic operations.

FEATURES

ALARMS DASHBOARD

The ATMS Alarms Dashboard provides users with critical system information at a-glance using business intelligence analytics tools. Its seamless, dynamic, and interactive system monitoring allows Traffic Engineers to identify potential reliability issues and focus on improvements to traffic flow.

MAP VIEW

The ATMS Map View provides users with current system operating conditions using an intuitive dashboard. The Map View graphically illustrates system status, activity, devices and performance. The Map View not only indicates traffic signal status, but also shows congestion levels (MOEs), live camera feeds, dynamic message signs (DMS), roadway closures, transit routes, and real-time vehicle location.

SYNCHRO STUDIO

ATMS integrates with Cubic | Trafficware's Synchro Studio software, allowing users to dramatically improve productivity while working between platforms and allowing collaboration with colleagues around the world.

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, route-based 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).