Overview of ATMS

Cubic | Trafficware’s ATMS is an Advanced Traffic Management System that provides a global perspective of an agency’s transportation network, allowing for integration with various technologies to optimize traffic flow and safety. The solution brings together traffic network data into a single repository for a completely integrated, 360-degree view of traffic operations.

ATMS Modules

The ATMS platform provides maximum flexibility to meet an agency’s specific needs. The standard ATMS system is a full-featured management system, offering complete traffic and data management and real-time system monitoring. To provide maximum flexibility and scalability, Cubic | Trafficware offers these additional modules to meet an agency’s specific needs.

Premium Modules

- **CCTV.now:** Provides CCTV (Closed Circuit TV) surveillance footage from standard IP, IV&C, and Cameleon cameras, and integrates directly with the ATMS user interface.
- **CMS.now:** Allows users to remotely program changeable message signs (CMS).
- **Assets:** A full-featured Asset Management System in order to track traffic control and ITS devices. This module incorporates the TEAMS Asset Management System in ATMS. Each asset can be associated with trouble reports, service records and maintenance records.
- **WEB.now:** Allows an agency to port specific content that is retrieved from ATMS to the public internet to provide real-time traffic and congestion information to the public.
- **TSP.now:** Facilitates the movement of transit vehicles by automatically adjusting signal timings to minimize transit vehicle stops and delay, while also minimizing the impact on normal traffic operations.
- **Disaster Recovery Module:** Provides a fully redundant, secondary server that will restore ATMS data and traffic operations in the event that the primary server fails.
- **Wavetronix:** Integrates with Smart Sensor HD and 105 radar detectors to provide volume, occupancy, and speed values on the system map in real time.
- **BlueTOAD:** Allows the agency to access BlueTOAD devices through the ATMS interface as well as import data from the system such as Volume/Occupancy and illustrate congestion on the ATMS Map View.
- **Alpha Battery Backup:** ATMS provides integrated access to the Alpha UPS, allowing the user to view important data and configuration settings directly from the ATMS interface.
Enterprise Modules

- **Emergency.now:** Displays vehicle positions on an interactive map and modifies signals for the entire emergency vehicle route, removing the “snowplow” effect during heavy congestion.
- **SynchroGreen:** Reduces delay and travel time by adjusting signal timing plans in real-time based on current traffic conditions.
- **Fleet.now:** Tracks the real-time location, speed, and direction of a fleet and displays the position of vehicles on the ATMS map view.
- **High Resolution Data:** Detailed traffic controller information such as detector actuations, phase state, split changes, and reasons for termination are logged in a tenth of a second (0.10 second) resolution. This module conforms to the high resolution data logging system as promoted by Purdue University. Trafficware’s High Resolution Data Module includes several reports that may be customized by the user, including Purdue Coordination Diagrams (PCD), Phase Termination Charts and more.
- **Connected Vehicle:** Data provided by Cubic | Trafficware’s signal controllers, sensors, and central management software, ATMS, is used to implement an immediate solution for vehicle-to-infrastructure (V2I) deployments. Auto manufacturers can incorporate traffic signal data into their telematics and in-vehicle information systems for Connected Vehicle applications.
- **StreetSync:** StreetSync is a field solution for laptops and tablets that allows users to wirelessly access signal controllers from the comfort and safety of their vehicle. It also allows users to synchronize data with the agency’s ATMS central server, even when the controller is not connected to the traffic signal network. This allows agencies to more efficiently maintain controller database integrity.
- **Custom Module:** Optimize your ATMS platform with Cubic | Trafficware’s Integration Services Group, who will address your existing system’s requirements and provide the right solution for your agency.

Bing/Google Maps Selection

Cubic | Trafficware allows agencies to choose between Bing™ Maps and Google™ Maps for their standard Map View. Both mapping interfaces include the ability to interact with traffic control and ITS objects, and execute system functions and commands by selecting the appropriate action in the interface.