

Module Descriptions

Available with the Standard, Signature, Enterprise and Custom suites are the modules incorporating specific levels of functionality, providing agencies with their perfect fit for a one-stop-shop traffic management solution.

Signal Performance Measures (SPM)

Provides rich data analytics, leveraging the high-resolution data capabilities of advanced transportation controllers to support decision making that facilitates the development of performance-based operational and maintenance strategies.

Device Management

Provides basic intersection status display, remote database access, and compares features to facilitate entry-level traffic control strategies. It enables uploads and downloads of optimized signal programming to locally-connected traffic controllers.

+Detect

Automates data reporting, analytics, and monitoring for Autoscope Vision sensor systems. It captures and leverages high-resolution data collected by these sensors.

Intersection Control

Intersection Control builds upon the capabilities of our Essentials suite and extends the intuitive GUI-based enterprise-class system, providing advanced scheduling, map editor and Traffic Responsive (TR) functionality. TR dynamically captures variations in traffic patterns and switches among predetermined timing plans based on existing traffic conditions to increase operational efficiency.

Traffic Management

Designed to provide power users with expanded feature sets of the Centracs Mobility platform, *Traffic Management* enables a deeper dive into the functionality including action sets, alert escalation and more detailed real-time transportation monitoring and control capabilities. *Traffic Management* provides breakthrough V2X smart intersection and traffic control capabilities, including supporting connected and automated vehicles.

Timing

Timing leverages high resolution SPM data to enable performance-based traffic signal timing strategies that reduce congestion and eliminate retiming project costs. *Timing* creates optimized timing plans based upon the most current or historical data (at the users discretion). It helps to better optimize traffic signal coordination, reducing travel times while increasing safety.

Interoperability

Interoperability provides support for other manufacturers controllers. This module offers a generic NTCIP 1202 Database Editor, enabling a user to edit and modify any compliant standards based NTCIP 1202 controller. Dependent upon level of compliance, Centracs Mobility can retrieve SPM data and use advanced functionality including Timing and Edaptive.

Modules Description

Edaptive

Centracs Edaptive is the next-generation in adaptive signal control, optimizing cycle, offset and splits in real-time. It is built upon Econolite's latest cloud-based Centracs SPM and revolutionary Pattern Optimizer solutions.

Video

Video provides enterprise-class IP video surveillance that enables the visual monitoring of intersections and roadways. Providing seamless management of digital video across IP networks, supporting a broad range of camera types.

DMS

DMS is designed to provide complete control of Dynamic Message Signs (DMS), including instantaneously updating new messages. Vital traveler messages can be uploaded and downloaded to the DMS, or configured to automatically update.

Priority

Priority provides significant efficiency improvements over traditional emergency vehicle preemption and transit signal priority systems. It leverages in-vehicle GPS and existing AVL systems to calculate vehicle ETA at each signal with multiple classifications and priority levels.

MMS

MMS is a centralized geographic information system (GIS)-based asset management, maintenance, and technician support software solution. MMS works seamlessly within the Centracs Mobility platform to actively manage field assets, preventative maintenance, and asset performance measures programs.

Ramps

Ramps is a metering solution that controls traffic signals at freeway on-ramps, optimizing freeway and arterial traffic flow. It seamlessly integrates with all system detectors to collect real-time traffic volume, occupancy, and speed data.

Integrated Corridor

Integrated Corridor (IC) leverages the robust, standards-based interfaces of the Centracs Mobility platform to allow communication/coordination with other transportation management systems. IC helps to facilitate multi-modal optimization applying coordination strategies to freeway and transit operations in response to incidents or events that will help mitigate traffic congestion and proactively avoid backups.