



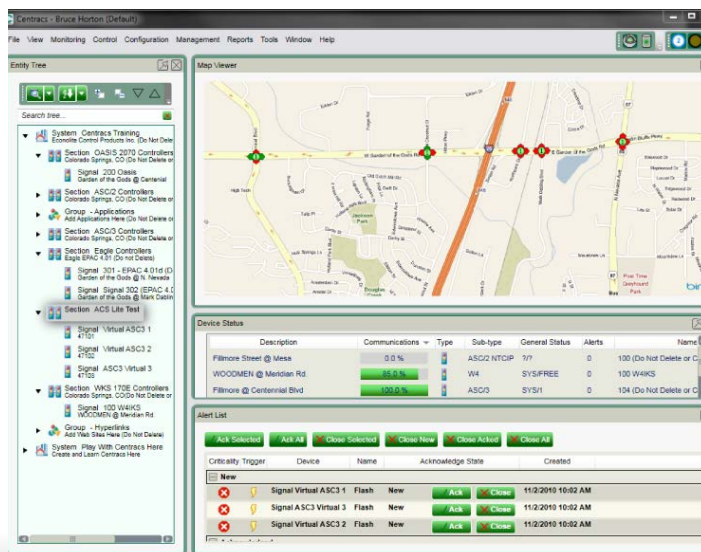
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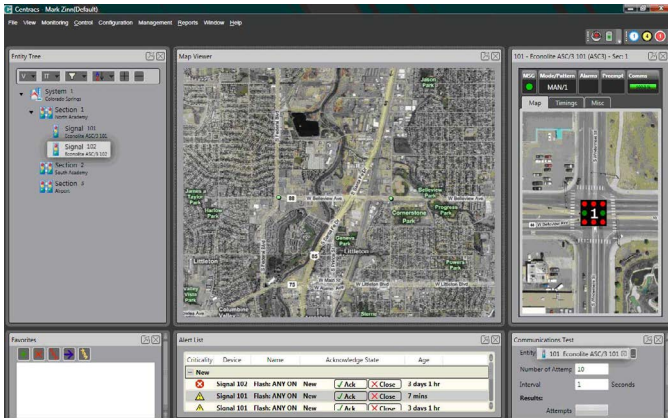
## About CentracS

Transportation agencies, now more than ever, are looking for more efficient and cost effective solutions to manage traffic. Econolite offers the CentracS Advanced Transportation Management System (ATMS) as a valuable component of an effective ITS solution to easily address current and future traffic management challenges. CentracS provides an integrated platform for traffic signal control, ITS field device monitoring and control, information management, graphical data display, advanced traffic algorithms, and much more. CentracS is a flexible, user friendly and cost-effective system, enabling agencies to realize significant mobility benefits from its ATMS investment. The flexible and scalable CentracS design also provides agencies with feature-rich options that best meet evolving transportation agency needs.

## At A Glance

- Intuitive user interface
- Designed for scalability and efficiency
- Intuitive Intersection graphics tools
- Interactive GIS based system maps
- Flexible device hierarchy, groupings and jurisdictions
- User definable, programmable alert escalations
- There are many module options allowing the system to be customized to meet the needs of most agencies





## Powerful Monitoring Tools and Reports

The true value of a modern ATMS system depends on the tools provided to monitor and manage the system. Centracos offers a wide range of reports and real-time monitors for nearly every aspect of the system. Real-time detector monitors, Time-Space and Split Monitors, coordination, Traffic Responsive, communication status, system performance monitors and alert monitors allow the various users of the system to track those aspects of the system that are most important. Whether the user is a Traffic Engineer, a TMC manager, a System Administrator, or a signal shop manager, Centracos provides the monitoring and reporting tools for the job.

## Communications and Device Support

Robust, dependable communication to field devices is a key to a successful ATMS system and is a critical component of Centrac's. Most communications media is supported, including fiber optics, twisted-pair, leased lines, and wireless. Protocol support includes: TCP/IP, UDP/IP, RS232 serial, ACT, PMPP, STMP, and SNMP. Traffic signal device support includes: Econolite's NTCIP-based Cobalt, ASC/2, ASC/2S, and ASC/3 (1000, 2100, or Rack Mount) NEMA TS1/TS2 controllers, 2070 (L or LN) controllers running ASC/2070, ASC/3 2070, or Oasis firmware, or controllers running EPAC version 4.01D, 170-type controllers running certain versions of Wapiti W4IKS firmware, and NTCIP 1202 compliant controllers.

Centrac's Maintenance Management System (MMS) (optional)

Centracs MMS is a simple to use GIS-based asset management and maintenance system. It allows ITS and signal maintenance organizations to track assets in real-time through the products' entire life cycle. Offering both

workstation and mobile device interfaces, it supports preventative maintenance planning and execution along with trouble ticket dispatch and work-order scheduling. Centracs MMS is available as an optional module to Centracs, or as stand-alone system.

Centracs DCMS (Data Collection Management System) (optional)

Centrac's DCMS turns new or existing detection systems into virtual count stations that gather and distribute traffic data without interruption, providing the accurate information needed for faster incident response, real-time changes to traffic signal timing, or anticipate special event traffic conditions.

### Travel Time Module (optional)

Teaming with TrafficCast, Econolite now offers travel time displays and reports for agencies using BlueTOAD devices for “origin and destination” travel time data. Now real-time travel time data is displayed as colored roadway segments allowing users to quickly see where traffic is flowing well and where there are problems. Simple mouse pop-ups provide even more detail to the traffic operator.

*Centracs Adaptive Module (optional)*

Centracs Adaptive is an arterial-based adaptive control module. Centracs Adaptive uses the Centracs native interface, simplifying the creation and management of adaptive intersection groups or zones. As a bonus, while the Centracs Adaptive algorithms adjust only splits and offsets, cycle length adjustments can be achieved by coupling our adaptive software with Centracs Traffic Responsive techniques. Working directly with Econolite's ASC/3 controller software and avoiding adding undesirable hardware at the cabinet, Centracs also allows the creation of multiple zones that can easily be managed using the Centracs Time-of-Day scheduler. The power of Centracs Adaptive provides a cost effective means of achieving real and measurable improvements in traffic flows without the cost of adding new servers, hardware, and by using existing controller coordination plans and existing communications channels.

### *Advanced Measures of Effectiveness (MOE) Module (optional)*

The Centrac's MOE module was developed in conjunction with Purdue University. These reports use high density detector data collected 10 times per second from ASC/3 controllers to offer users a unique set of tools for understanding the factors influencing coordination and the effectiveness of timing at the intersection.

### *Advanced CCTV Module (optional)*

The Centrac's CCTV module provides seamlessly integrated management of digital video across IP networks.. This enables quick configuration and immediate deployment that supports multiple camera types and makers. Video can be transmitted over existing wired and wireless IP networks, including DSL (VDSL), fiber optic, Wi-Fi, etc.

### *Dynamic Message Sign (DMS) Management (optional)*

The Centrac's DMS module provides users the direct and instantaneous control to update and display valuable traveler information messages. By providing timely traffic condition or incident messages, Centrac's DMS can help provide congestion mitigation and increase roadway safety.

### *Server-to-Server Module (optional)*

The Centrac's Server-to-Server option provides a unique interface allowing agencies to achieve unparalleled benefits through cooperative operations and system management. Adjoining Centrac's-managed cities can seamlessly share data and manage arterial traffic across agency boundaries finally realizing and exceeding the promises of Center-to-Center communications. Centrac's Server-to-Server also allows agencies to participate in cross-jurisdictional management and monitoring of neighboring agency intersections.

## Centrac's Optional Modules

- Centrac's MMS
- Centrac's DCMS
- Centrac's Travel Time
- Centrac's Adaptive
- Centrac's MOE
- Centrac's CCTV
- Centrac's DMS
- Centrac's Server-to-Server

