CNTM

Edaptive

Next-Generation Signal Control

Centracs® Edaptive is Econolite's next-generation cloud-based adaptive signal control system and a key capability within the Centracs Mobility Advanced Transportation Management System (ATMS) platform. Edaptive optimizes signal cycle, offset, and splits in real time using high-fidelity 1/10th second resolution data. Edaptive also offers deep analytical capabilities through Econolite's Centracs SPM (Signal Performance Measures) and Pattern Optimizer modules, allowing users to ensure maximum performance of their signal control system, quickly and easily.

Centracs Edaptive provides highly-automated, real-time signal adaptation. Edaptive also balances sustainability and reliability with the latest in advanced adaptive algorithms. Target applications include, but are not limited to, corridors with highly variable traffic patterns, changing weather conditions, special events, or high-priority corridors that require maximum performance.
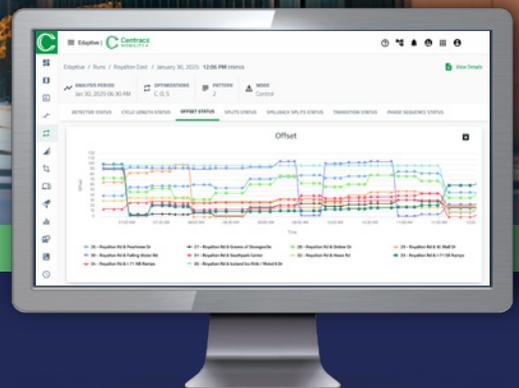
Key features

- Provides signal timings for real-time traffic conditions

- Adapts to changes in traffic as they happen, i.e., weather, construction, and major events

- Increased flexibility with existing stop bar detection, e.g., red light running, turning movements and other

- Reduces or eliminates costs of manual traffic counts

- Provides new levels of mobility and safety

- Increases agency benefits when using Centracs® SPM data

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# Centracs Edaptive: Optimizing detection systems

With Centracs® Edaptive, agencies can make the most out of their existing detection system. With advanced algorithms, stop bar detectors are used to drive split optimization. Centracs Edaptive includes additional options exist for cycle optimization.

Centracs Edaptive provides real-time adaptive traffic control, which increases roadway efficiencies and reduces traffic congestion. Centracs Edaptive allows for the proactive optimization of traffic signals even as traffic conditions change. Optimized traffic signal timing means more green lights, enhanced safety, and shorter commutes.
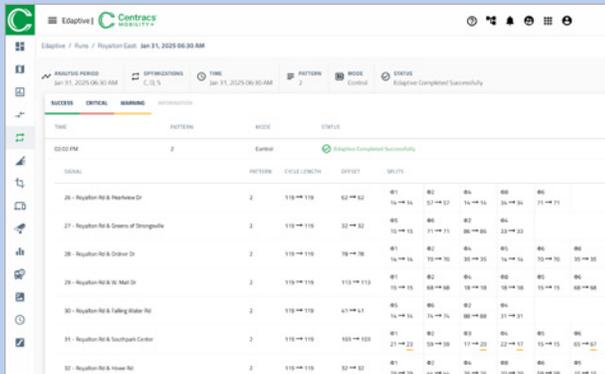
Successful Edaptive Run and Adjustment
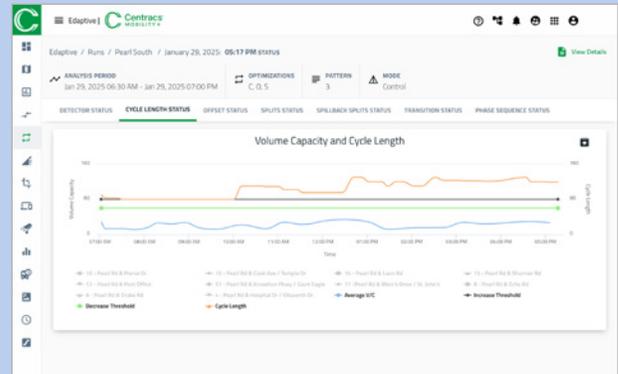
Volume, Capacity, and Cycle Length Status Time Series

Econolite Centracs® Mobility Platform

Econolite leads the industry in providing ATMS solutions for hundreds of customers across North America, controlling tens of thousands of signalized intersections with the Centracs® Mobility platform. The Platform has continually evolved with the industry, adapting to both day-to-day operational demands and providing leading-edge solutions for the emerging needs of transportation, to ensure the highest levels of safety, system reliability, and optimized mobility.

Econolite's Centracs Software Suite is comprised of both Econolite's on-premise and cloud-based ATMS solution, affording agencies incredible flexibility in deployment while delivering the most functionality in the industry. The Centracs Mobility Platform's adaptability and flexibility ensure streamlined operations in response to evolving transportation needs. This adaptability reduces downtime for system upgrades and maintenance, saving time and ensuring continuous traffic management effectiveness.

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