



# Edaptive

## Next-Generation Signal Control

### Overview

Centracs® Edaptive is Econolite's next-generation cloud-based adaptive signal control system which optimizes signal cycle, offset, and splits in real time using high-fidelity 1/10<sup>th</sup>-second resolution data. This Centracs Edaptive module 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.

### Benefits to Transportation Agencies and the Traveling Public

Centracs Edaptive provides highly-automated, real-time signal adaptation. Centracs Edaptive balances sustainability and reliability with the latest in adaptive algorithms. Target applications include corridors with highly variable traffic patterns, changing weather conditions, special events, high-priority corridors requiring maximum performance, and many others.

### Key Features

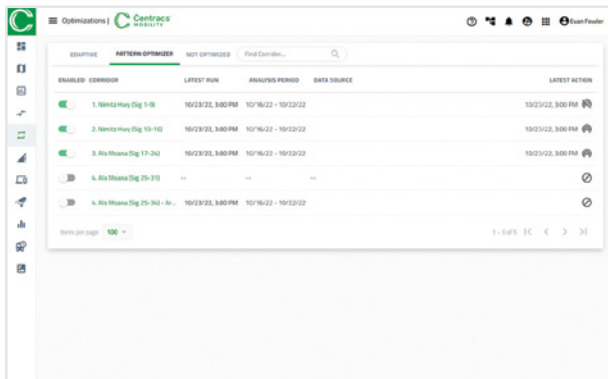
- ***Provides signal timings for real-time traffic conditions***
- ***Adapts to changes in traffic as they happen, i.e., weather, construction, and major events***
- ***Increased flexibility with existing stop bar detection, e.g., red light running, turning movements and other***
- ***Reduces or eliminates costs of manual traffic counts***
- ***Provides new levels of mobility and safety***
- ***Increases agency benefits when using Centracs SPM data***

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

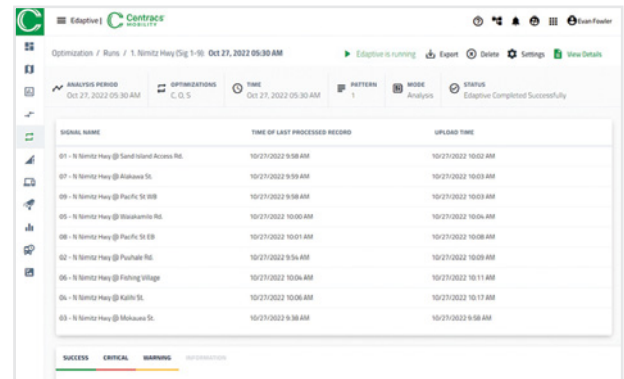
Centrac's Edaptive provides real-time adaptive traffic control, which increases roadway efficiencies and reduces traffic congestion. Centrac's Edaptive allows for the proactive optimization of traffic signals even as traffic conditions change. Optimized traffic signal timing means more green lights, enhanced safety, and shorter commutes.

## Additional Modules Available

- SPM (Signal Performance Measures)
- Device Management
- Intersection Control
- Traffic Management
- Timing / Pattern Optimizer
- Interoperability
- Integrated Corridor
- Edaptive
- DMS (Dynamic Message Signs)
- Video
- MMS (Maintenance Management System)
- Priority



Pattern Optimizer



Signals Overview



Learn more  
about additional  
Centrac's capabilities

