



▶▶ Centracs SPM provides the continuous high-resolution data needed to support performance-based traffic signal timing strategies that reduce congestion and eliminate retiming project costs.

## About Centracs Signal Performance Measures (SPM)

It is universally recognized that periodic traffic signal optimization is one of the most effective ways to improve traffic mobility and safety. However, according to several independent studies, the costs involved in manually collecting and analyzing traffic data needed to retime a signal can be expensive. Under the fourth round of the Every Day Counts (EDC-4) program, the Federal Highway Administration (FHWA) encourages the implementation of automated traffic signal performance measures as a means to improve the traffic signal optimization process and provide continuous monitoring.

Centracs SPM replaces ad hoc and expensive retiming processes by providing continuous performance monitoring of traffic signals. The system provides continuous high-resolution traffic data collection and analytics, enabling transportation professionals to proactively address traffic signal timing optimization, and enhance mobility and safety. This allows agencies to make signal retiming strategy decisions based on actual high-resolution performance data without the costs of manually collected low-resolution data, and software modeling and simulations. In addition, Centracs SPM is an ideal fit for connected and autonomous vehicle and Smart City applications.

### At-A-Glance

- ▶ Web hosting allows access from any place, on any platform, at any time.
- ▶ Provides SPM measure charts, user-selectable data parameters, and user-definable performance metrics comparisons.
- ▶ Centracs SPM offers time-strapped traffic engineers "state-of-the-art" analysis tools, allowing more efficient and effective use of their limited time.
- ▶ Transforms qualitative and quantitative data into actionable information.
- ▶ Data collection is continuous and unobtrusive to signal management and operations.



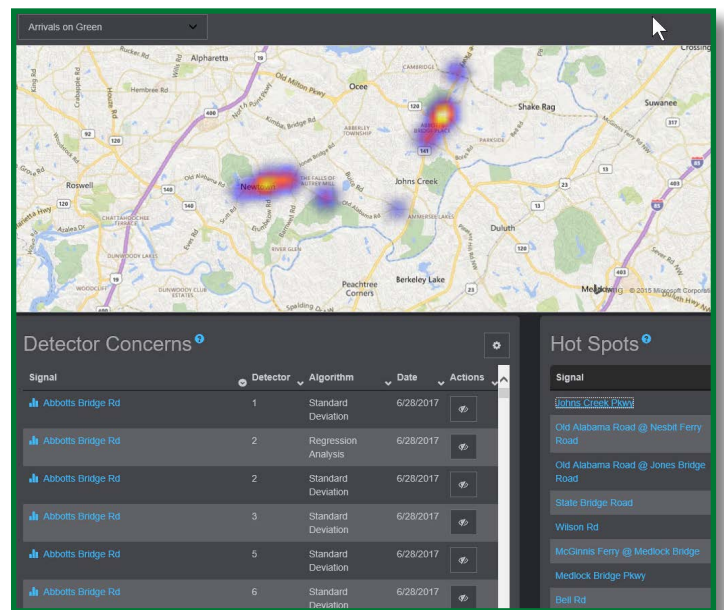
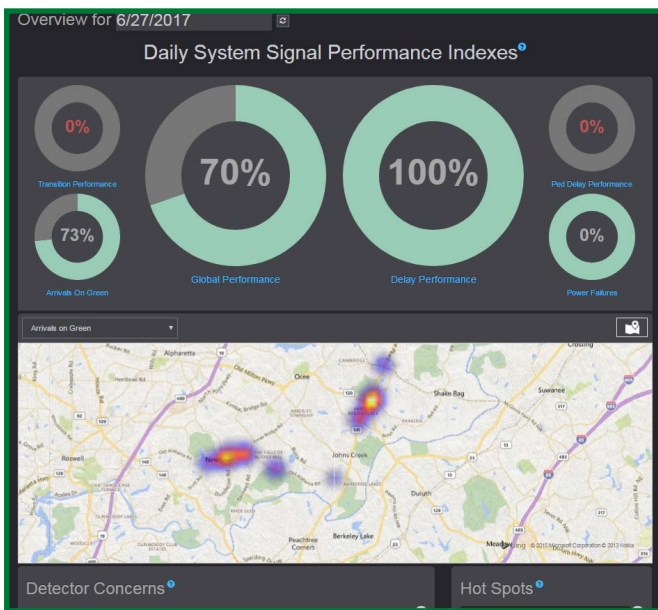
## Supported Performance Measures

The following data charts are included to support visualization of the operational performance of traffic signals:

- Arrivals on Green
- Cycle Length
- Flow Rate
- Green Times
- Occupancy Ratio
- Pedestrian Delays
- Percent Pedestrian Calls
- Purdue Coordination Diagram
- Split Failures
- Split Monitor
- Vehicle Delays
- Volume-to-Capacity

## Benefits

- ▶ Improves Operation Efficiencies
- ▶ Provides High-Resolution Data for Performance-Based Strategies
- ▶ Reduces or Eliminates Costs of Manual Traffic Counts
- ▶ Increases Safety
- ▶ Continuous Monitoring



## Centracs SPM Module

Centracs SPM is a cloud-based high-resolution traffic data collection and analytics software system designed to be a robust solution that provides transportation agencies and professionals new levels in capabilities to proactively optimize traffic signal timing. Centracs SPM can replace the traditional, manually-intensive, and costly process of retiming outdated traffic signal programs. Centracs SPM provides high-resolution traffic data collection and analytics that is not affected by escalating traffic count costs or limited by arbitrary retiming intervals.

