

# CleverAnalytics

## Comprehensive Business Intelligence Solution

Clever Devices designs and develops breakthrough solutions for transit systems that are proven to increase efficiency and reduce operation costs while improving the passenger experience.

**CleverAnalytics** is a comprehensive solution that provides Business Intelligence for operator behavior and is designed to identify cost- saving opportunities and maintain a safe riding experience. CleverAnalytics compares vehicles and operators performing the same work, which allows the user to accurately diagnose areas of inefficiency. Areas of inefficiency are uncovered by providing Transit Executives, Operations, Planning, and Maintenance with job-specific dashboards and reports.

### IdleMonitor™

IdleMonitor™ helps combat the chronic problem of avoidable bus idling. Idling of heavy-duty engines degrades performance and shortens the life of many important vehicle components. This avoidable action inevitably leads to unnecessary and costly repairs. IdleMonitor™ sends an email notification about avoidable and unavoidable idle time that has occurred in order for the agency to effectively enforce its policies.

#### Benefits of IdleMonitor™:

- Measures and enforces agency policies on idling through email report notification
- Identifies avoidable and unavoidable idle monitoring events
- Identifies in-service idling events separately from garage idling events
- Calculates the fuel consumed and the carbon emission generated per idle event.

### EcoDrive™

EcoDrive™ provides meaningful fuel efficiency information by analyzing the context of the users' operations through the examination of operator, vehicle type, route, and other variables that may impact fuel usage. EcoDrive™ normalizes the data collected from these sources to provide the user with a comprehensive fuel efficiency summary. Successful implementation of EcoDrive™ will have a significant cost savings impact on the users' operation.

#### Benefits of EcoDrive™:

- Identifies inefficient vehicles and vehicle types that may have maintenance issues or should be candidates to hold back as spares
- Measures individual operators to improve efficiencies
- Provides specific key performance indicators such as the variance from the agency's miles per gallon and carbon emission per mile goal
- Accurately defines fuel consumption and carbon footprint by bus type and operator
- Provides critical information that informs purchasing decisions going forward

### Incident Analytics

Incident Analytics provides data on hard braking, hard turns, and hard accelerations, which are a primary cause of accidents and vehicle damage. Daily details of each bus route are monitored and full onboard event data is recorded.

#### Benefits of Incident Analytics:

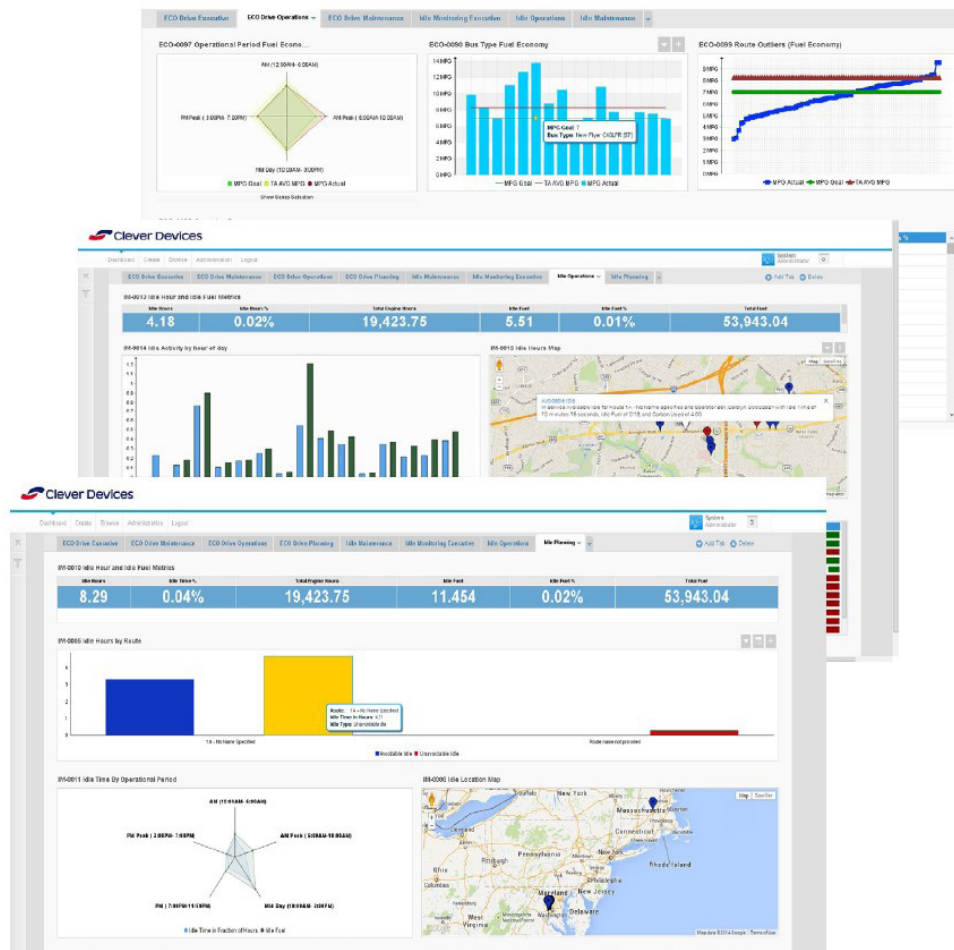
- Identifies unsafe operator behavior
- Identifies all "last stop" events, which occur at the last time the bus physically stops moving, enabling accurate representation (if a bus is involved in an incident)
- Provides data encryption with an encryption key to prevent any intentional or unintentional data corruption
- Provides reports to manage the fleet and operations, as well as help address legal claims in the depot, reducing the time needed to search for it and ensuring that drivers board the vehicle and depart the yard on schedule.

With CleverAnalytics you can compare operators and vehicles to diagnose areas of inefficiency.

Each of the three modules included in CleverAnalytics™ - IdleMonitor, EcoDrive™, and Incident Analytics - provide distinct benefits designed to identify critical issues effecting productivity.

## Features of EcoDrive™ and IdleMonitor™

- Web Based Interface – Convenient browser-based interface works with Internet Explorer®, Firefox®, Chrome®, and Safari®
- Dashboards with drill-down, purpose-built view user group:
  - Executive
  - Planning
  - Operations
  - Maintenance
- Easy-to-use built-in ad-hoc dashboard and report generation
- Agency-focused enterprise capability
- Provides individual user “favorite reports”
- Provides “saved filter function” for easy report use and access
- Huge selection of report and chart types
- Advanced filtering
- Intelligent automation – via email and SFTP transfer
- Robust historical data storage
- Provides exporting of reports and dashboards to many common formats (PDF, CSV, WORD, RTF, XLS, TEXT)



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