

Product Information

Descartes Telematics & Compliance



Reduce Costs and Environmental Impact, while Maximizing Productivity of Your Organization's Fleet Operations. Improve Safety and Maintenance Practices, and Ensure Regulatory Compliance.

Key industry challenges for operators of commercial fleets, whether private or for-hire, include:

- Reducing high operating costs driven by rising fuel, equipment purchases and maintenance, labor and overtime expenses
- Finding innovative ways to leverage existing operations to improve service and drive growth
- Meeting complex and constantly evolving federal and state compliance standards and reporting
- Monitoring and measuring driver behavior (through scorecard methodology) to reduce costs and avoid costly insurance claims

As part of Descartes' Routing, Mobile & Telematics (RMT) offering, the Descartes Telematics and Compliance solution helps meet these challenges and brings together innovative technologies for vehicle and mobile workforce tracking, telemetry intelligence, reporting and analytics for logistics-intensive businesses around the world.

Descartes' solutions are designed to meet the needs of organizations, regardless of size or complexity. Our offering is unique in the marketplace in that it can provide fully integrated telematics and compliance functionality with optimized route planning and robust real-time dispatch. Our customers can achieve significant reduction in fuel and labor costs and considerable improvement in asset utilization. Through our software-as-a-service (SaaS) model, these market proven solutions are delivered on-demand, avoiding the need for a high capital cost investment and reducing in-house IT staffing needs.



Descartes maximizes tracking, information gathering, measuring, delegating and optimizing the use of assets and people that are involved in the movement of goods.

Features

Telematics and Compliance On-Board Unit:

A highly advanced telemetry, positioning and communication electronic on-board recorder (EOBR) device, with an ergonomically-designed handset and user-friendly interface. It allows for further expansion and integration options. Meets the requirements of the 395.16 Hours of Service (HOS) Rules for EOBR devices.

Resource Scheduler:

Multifunctional, user-friendly interface allowing your planners to quickly choose different views, work on multiple screens, and use drag & drop functionality to manage all their mobile resource scheduling requirements.

Sensor Telemetry:

One of the most comprehensive telemetry suites on the market that offers:

- **Data Logger** - Functions as an on-board black box, recording all engine and vehicle telemetry data. All data is combined with time and location stamps and linked to the driver's ID, providing a clear record of vehicle status and driver actions in cases of accidents, customer complaints or other liability charges.
- **Temperature and Door Sensors** - Enables operators to accurately monitor cargo environment conditions during transportation and immediately detect temperature variations or door opening events. Utilization of multiple temperature sensors allows for effective diagnosing of cooling compartment inefficiencies enabling service quality improvements.
- **On-site Assets** - Comprehensive sensory coverage of engines, motors and hydraulic systems with detailed utilization reporting and analysis capabilities. Real-time alert notifications are generated whenever your assets cross geo-fences enabling instant theft

detection, while different sensors allow you to easily detect unauthorized use, fuel theft and machinery malfunctions.

3rd Party In-vehicle Device Integration:

Productivity to provide streamlined connections to/from external third-party or industry-specialized devices. Integration with communication technologies allows the use of: Bluetooth™ hands-free headsets; PDAs; wireless barcode readers; and electronic signature capture. Additional devices include open-door sensors, passenger counting sensors, and internal/external displays.

Safety and Security:

Proactively manage safety and security issues with:

- **Panic (SOS) Button** - Discretely placed button is available for driver to notify dispatcher of an emergency.
- **Vehicle Track and Trace** – know where your vehicles are located at all times.
- **Unauthorized Use of Vehicles** – Unauthorized use of vehicles can be prevented through Radio Frequency Identification (RFID) driver registration; whenever vehicle is started, by a non-authorized person, an alert is triggered. RFID is a technology that uses communication through the use of radio waves to exchange data.
- **Communication** – Enables hands-free and quick messaging to promote safer driving.

Detailed Expense Management:

Fully-automated import capabilities for transactions from various sources such as: fuel and toll payment systems, credit/debit cards, or company accounting/ERP systems. Costs can be tracked by vehicle, driver or time period, etc. Comprehensive fuel consumption and maintenance monitoring tools are easily integrated into legacy systems, allowing for decisions based on performance comparison reports.



Descartes' solutions are designed to meet the needs of organizations, regardless of size or complexity.

Event Management:

A customizable feature alerting users about specific events or exceptions, which are vital for day-to-day operations or critical situations. Notifications include SOS, driver status change, cost (such as monitoring fuel filling to alert users about the vehicle performance) and sensor-related events like engine trouble, door open, fuel tank cap, temperature exceptions, or geofence/keep out area penetrations. Event notifications are presented with all relevant information about the event (including cause, time, location or driver) enabling companies to make intelligent decisions on proactive and reactive basis.

Remote Diagnostics:

Utilize real-time transfer of data to provide accurate source of driver and vehicle information (speed, oil pressure, engine temperature, door sensors, etc.). Data can be archived and accessed later using the fleet management portal, enabling detailed fuel consumption, vehicle telemetry, and driver behavior analyses. Predictive maintenance capability utilizes the vehicle Diagnostic Trouble Codes (DTC) to predict possible future vehicle malfunctions allowing technicians to take action before they occur.

Business Intelligence:

Benefit from more comprehensive and up-to-date knowledge that can be used for long-term strategic decision-making. Combined with data mining capabilities and extensive reporting features, business intelligence represents an ideal analytical framework for identifying areas requiring improvement.

Idle Monitoring:

Monitor and electronically control idle time to comply with company policies and city idling ordinances.

Driver Scoring:

Monitor for aggressive driving. Alerts and visual scorecards can show acceleration, speeding violations, hard breaking, or aggressive maneuvers.

Hours of Service:

Collect data required to properly log and report on Hours-of-Service rules.

Fuel Tax Data Collection:

Accurately captures and reports the miles run in each state for filing fuel taxes.

Potential Benefits

Reduce Costs and Promote Environmental Responsibility:

A highly advanced telemetry, positioning and communication electronic on-board recorder (EOBR) device, with an ergonomically-designed handset and user-friendly interface. It allows for further expansion and integration options. Meets the requirements of the 395.16 Hours of Service (HOS) Rules for EOBR devices.

Electronic Automation of Driver Logs:

Increase workforce productivity, reduce or eliminate excess paperwork and processing times.

Compliance Monitoring and Reporting:

Integrated solutions help mitigate risks and penalties and streamline government and regulatory reporting for vehicles, drivers, cargo and equipment over state, national and international borders.

Safety and Security:

Increase the safety of drivers, vehicles and cargo; and avoid costs associated with lost productivity, vehicle down times, repairs, and insurance premiums.

Improve Customer Service, Satisfaction and Retention:

Minimize service-related issues through alerts, triggering customer-centric action before a failure occurs. Customers can automatically receive required information on cell phones, PDAs or can login to the customer service center to view shipment movements, and package or delivery estimated arrival times.

Flexibility:

Users can choose from an extensive choice of connection options, based on their technology environment, including a direct connection and locally deployed or hosted solutions backed by quality service and support.

For more information on this product or any of Descartes' other products,

please visit our website at:

www.descartes.com

or contact us at:

info@descartes.com

