Consat Telematics

Traffic Control and Monitoring

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CONSAT Telematics

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Efficient public transportation management requires more than just maintaining schedules. Traffic controllers face daily challenges such as managing unexpected disruptions, ensuring vehicle compliance, and optimising resource use—all while maintaining safety and reliability. These challenges demand innovative tools that enable informed decision-making and seamless operations.

Consat Telematics' Traffic Control and Monitoring provides a comprehensive system for service monitoring, management, and optimisation. With real-time visibility and advanced functionalities such as passenger counting, traffic signal priority and visual monitoring, the solution empowers traffic controllers quickly identify deviations and make informed decisions. Designed to integrate seamlessly into existing systems, it enables efficient operations and supports long-term improvements.

Key functions

- **Service Monitoring:** Provides real-time tracking of vehicle locations and timetable adherence, with features like interchange management, road situation monitoring, and geofence control to ensure smooth operations and timely interventions.
- **Service Management:** Enables dynamic adjustments to routes and schedules in response to incidents, congestion, or changing demand. Features include traffic and journey changes, replacement and reinforcement journeys, and a streamlined deviation workflow to maintain service reliability and minimise disruptions.
- **Deviation and incident management** provides a configurable, event-driven framework for handling operational disruptions in real time. Deviations act as structured "tickets" containing detailed traffic context, such as journey, vehicle, timing, cause, and actions, and can be generated automatically from system events or manually by operators.
- **Workflow managemen**t ensures disruptions are handled in a structured and efficient way, from detection to resolution. Pre-defined workflows, status updates, and notifications help teams stay aligned, manage high volumes, and respond quickly to changing situations.
- **Geofence functionality** provides a configurable framework for defining and managing logical areas within the traffic network. Road limitation zones can enforce constraints such as height, width, or speed restrictions, while boundary geofences enable visualisation and contextual awareness.
- **Passenger Counting:** Provide real-time data on passenger flow, enabling better capacity management and resource allocation during peak times.
- **Traffic Signal Priority (TSP):** Automates or manually triggers priority requests at intersections, using geofence-based activation and providing real-time feedback to drivers, reducing delays and improving schedule adherence.
- **Visual Monitoring:** Enhances safety and decision-making with CCTV integration, including SD storage for secure local data saving and manual transfer options for reliable incident investigation and backup.
- **On-Demand Journey:** Supports journey activation, dynamic routing, journey assignment, and booking and monitoring to meet fluctuating passenger demand efficiently, especially in underserved areas or during off-peak hours.

The benefits for public transport operators and authorities

- **Enhanced operational efficiency:** Real-time monitoring and adjustments optimise routes, schedules, and resource use to minimise delays and improve reliability
- **Cost savings:** Efficient service management reduces fuel consumption and operational expenses.
- **Improved passenger satisfaction:** Accurate real-time updates on arrivals and delays ensure a smoother and more reliable passenger experience.
- **Increased safety:** Quick responses to disruptions and proactive management of potential hazards enhance road safety.
- **Data-driven planning:** Comprehensive real-time and historical data support informed decision-making and long-term infrastructure development.
- **Seamless integration:** Designed to integrate effortlessly into existing transport systems, enabling efficient and reliable operations.

Traffic Control and Monitoring

Manage daily operations with real-time information and data insights.

Vehicle and Fleet Management

Vehicle telematics integrated into public transportation for complete control.

Passenger Information

Enhance the travel experience for all public transportation users.

Driver Assistance

Enhance hiring appeal while supporting the driver in their daily work.

Electromobility

Seamless integration with existing public transportation operations, providing a unified view of the entire fleet.

Data Insights

Offering valuable insights for continuous improvement in public transportation operations.

Bringing intelligent public transportation to life

Consat Telematics is dedicated to reducing the environmental impact of public transportation through cutting-edge innovation and widespread implementation. Aspiring to global leadership in executing electrification and digitalization within public transportation, we serve diverse markets and organizations.

Our promise is a user centric, modular, and adaptable intelligent public transportation solution that never compromises on quality, reliability, and security. By placing our customers at the core, we ensure that more organisations can receive better data to monitor, manage, and improve their operations.

Contact for more information or a demo:

www.consat.com/telematics/

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