



INDUSTRY:

Fleet Management / Telematics

Lantronix FOX3 Gateway Powers SATLOG Fleet Telematics Solution



Success Highlights

- Fleet management transparency and digitization
- Route optimization with telematics
- Distribution of jobs to truck tablets
- Analytics for improved efficiency and cost reduction
- Remote management via Web or Desktop

Case Study Overview

Incorporating the Lantronix FOX3-3G-BLE (#F35HGZFS) telematics gateway, Germany-based SATLOG created an intelligent fleet management solution that provides cost reduction potential for its clients.

Remotely capturing vehicle movement, location, driver status and other vehicle-related data, the SATLOG solution securely shares information and analytics via its cloud-based management platform, giving users insights to improve efficiencies and reduce costs

“ Utilizing Lantronix’s FOX3 Tracker, SATLOG collects critical data from each fleet vehicle, including analytics data that provide actionable insights to increase efficiency and cut costs. ”

– Dr. Jürgen Stausberg, Managing Director, SATLOG GmbH

CHALLENGE: Remotely Control IT for Small Retail Sites

In fleet management, the cost of failure, such as vehicle recall that results in interruption of service, can cost tens of thousands of dollars. SATLOG’s mission was to create a mobile telematics solution designed to enhance fleet productivity and reduce costly failures.

Challenges include:

- Finding a ruggedized tracker for harsh industrial environments
- Ensuring self-maintenance of the tracker, including device management
- Providing the ability to customize the edge to meet specific requirements, such as stop analysis by motion sensors incorporated in FOX3
- Delivering proven integration with Oracle, which REST-enables the proprietary FOX3 protocols
- Having the ability to quickly make adjustments to capture customized data



Fleet management data accessible through the SATLOG portal includes:

- Driving style
- Fuel consumption
- Stop times and locations
- Driving hours
- Routes (GPS)
- Route optimization
- Private or business trip
- Operations settlement
- Customer time windows
- Alert/zone violations
- Trip and customer costs
- Vehicle cost accounting



SOLUTION: Lantronix FOX3 Series Telematic Gateway

To remotely capture and securely share fleet information, SATLOG chose Lantronix FOX3 series telematics gateways. The FOX3 is a gateway that is incorporated into the SATLOG Ecosystem and transfers stop times, driving events, latitude, longitude, KM/mile Fuel, Temperature, Tire Pressure (Continental tire pressure system), Alerts from the Preco TurnAssistant to the Cloud as well to the removable SATLOG Truck Tablets installed in the cockpit of the truck.

Truck drivers can also generate electronic Proof of Delivery documents with detailed delivery timestamp information, including the temperature of the truck body transferred from FOX3 to the Tablet by RS232. The FOX3 tracker connects by RS232 to a special SATLOG Android™ Truck Tablet for job distribution, navigation and rearview camera usage.

Captured data is sent to the cloud where it can be accessed remotely via the Web or desktop application by authorized personnel, including dispatchers, management, partners, customers, mapping systems, IR reports, order management and more.

In addition, utilizing a Telematik-Server powered by Oracle 12c APEX5 and a CommServer, the system is integrated with the back-office system for route optimization.

Lantronix FOX3 Series Competitive Advantages

Lantronix FOX3 Series Telematics Gateways have many competitive advantages, including:

- Device configuration programming options
- Ability to define logic in the telematic gateways
- User-defined logic using LUA script
- BLE module for customized applications
- Compatibility with a variety of Web portals
- Robust technology that reduces development costs



RESULTS: Actionable Insights That Increase Efficiency and Cut Costs

Utilizing Lantronix's FOX3 Tracker in addition to the Truck Tablet, SATLOG does TourPlanning and sends optimized routes to the Tablet's navigation system. FOX3 collects and securely shares the actual data, which becomes the foundation for analytics data that provide actionable insights to increase efficiency and cut costs.

Secure sharing via the cloud enables authorized personnel at distributed operations locations to gain remote access to the SATLOG Portal for Remote Control of Vehicles via the Web or Desktop application.

SATLOG tracks more than 2.8 million stops and 600,000 events from vehicles per month.

About SATLOG

Founded in 2000, SATLOG is focused on making fleets more productive. It delivers turnkey hardware, software and service solutions, including GPS tracking, order management and cost and performance measurement on Oracle technology via cloud services.

For more information, visit <https://www.satlog.de/en/home/>

For more about the complete Lantronix/SATLOG solution, visit www.lantronix.com/wp-content/uploads/pdf/tablets4fox.pdf.



Product: Lantronix FOX3 Series Telematics Gateways

FOX3 Series telematics gateways are compact, all-in-one cellular devices that enable smart tracking and reliable data logging for virtually any type of vehicle or equipment. In addition, the FOX3 telematic gateways facilitate management in enabling geo-fencing, alerts, power management and more.

The FOX3 also provides periodical speed reports with a combination of speed data that includes coordinates, date, time, heading and other parameters. These statistics help increase safety as well as reduce maintenance and fuel consumption.

For more information, visit <https://www.lantronix.com/products/fox3-series/>

About Lantronix

Lantronix Inc. is a global provider of secure turnkey solutions for Intelligent IT and Internet of Things (IoT). It offers Remote Environment Management (REM), Software as a Service (SaaS), connectivity services, engineering services and intelligent hardware solutions. Lantronix enables its customers to accelerate time to market and increase operational up-time and efficiency by providing reliable, secure and connected Intelligent Edge IoT and Remote Management Gateway solutions.

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