

Fighting fuel thefts in Serbia

⚠ Challenge

V2 Trauser d.o.o, Serbia, specializes in cargo transportation. The company's pain was fuel theft committed by employees and intruders who broke into the parking lot at night and stole valuable liquid from vehicles.

✖ Solution

The Wialon partner [Almaks](#), Serbia, created a safety system that allowed V2 Trauser d.o.o to eliminate the problem.

The hardware was installed for the tank and in the vehicle, and with the help of the tracker, the information from the sensors is sent to the monitoring system or activates the alarm system. Here's how it works in detail:

- The solution consists of refueling control to stop thefts committed by drivers and the alarm system to ward off intruders.
- The system controls the opening of the fuel tank cap. As a result, only employees with authorized RFID cards can access the fuel tank. Thanks to the RFID cards, the client knows who refuels the vehicle or steals fuel.
- If the cap is opened without authorization, the [GPS FMS500 STCAN](#) tracker activates the alarm installed in the vehicle.
- Apart from controlling the vehicle's alarm siren, the GPS tracker also sends a message to [Wialon](#). Then, the monitoring platform sends an SMS to the guard's terminal to activate a stronger siren.
- Almaks engineers added one more protection level via the [DUT-E](#) fuel level sensor by Technoton and the Arduino controller. In case thieves decide to drill the fuel tank, the decrease of fuel level is detected, and the alarm is also activated.
- The alarm system reacts as well if the fuel level sensor wires are cut.

🏆 Results

The provided solution covers all the ways fuel can be stolen from vehicles.

V2 Trauser d.o.o admits considerable reduction in fuel theft thanks to the solution implemented by Almaks.

✓ Reduction of financial losses

The client doesn't lose money as drivers and others can't steal fuel.

✓ Reliability

Even if thieves try to drill the fuel tank or cut the wires of the fuel level sensor, the alarm is still activated.

✓ Safety

Intruders are discouraged by the alarm and don't attempt to enter the site any more.

Company profile

🏆 **IoT project of the year nomination:** Fuel transportation and storage

Country: Serbia

Industry: Long-haul transportation

Solutions

 Wialon

 Fuel monitoring system

Hardware

 Xirgo FMS500 StCAN

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