

Managing a multibrand fleet of refrigerated trucks

⚠ Challenge

LLC BTA is a transport company headquartered in St. Petersburg. Its clients include major retail chains, food producers, and distributors of various goods. The company has already been using Wialon but mostly to determine the location of its vehicles.

In 2019, they acquired new vehicles and started thinking about using the system's analytical tools to control the transportation of goods that require specific temperature, the overall state of the fleet, as well as fuel consumption.

Notably, the new vehicles were already equipped with an alternative telematics system pre-installed by the supplier, and it was also considered for use.

✦ Solution

Wialon partner Quarta Technologies developed a telematics solution combining iQFreeze hardware with Wialon.

- In the first stage of the project implementation, the partners' specialists equipped the refrigerator semi-trailers with the iQFreeze system and the fuel level sensors by the [TechnoKom](#) company. All the works were performed on the manufacturer's territory.

Now the problems of losing or damaging the cargo were prevented with the help of notifications on temperature violations; high operating costs were reduced due to the received analytics data. Locator ensures comprehensive control for the customer; the problem of vehicle downtime caused by the undue maintenance was solved through the Wialon maintenance module.

- In the next stage, vehicles with a pre-installed alternative telematics vehicle tracking system were connected to Wialon.
- In the final stage, the fuel control system was configured remotely for the entire fleet. Integration with the fuel cards system used by the client allows viewing in the same window all the fuel data provided both by FLS (haulage truck and semi-trailer) and by fuel card. Thus, the client got automated retrieving and collection of the data both from the fuel supplier and Wialon, the detection of the group filling (haulage truck and semi-trailer), the filling past the tank, unauthorized filling (no payment with a fuel card), as well as the ability to upload data to third-party systems.

🏆 Results

Due to the solution, the company was able to achieve the following results

✓ Up to 18%

Fuel expenses decreased.

✓ Time savings

Due to the manual processes automatization, all operations are performed much faster.

✓ More than \$17,600

The customer saved this much after abandoning the expensive in-built temperature registrators in favor of the iQFreeze hardware. And this is only in the implementation stage.

✓ Online-monitoring

It was impossible to monitor the refrigerators by different manufacturers with an alternative monitoring system.

Company profile

🏆 **IoT project of the year nomination:** Cold chain transportation

Industry: Long-haul transportation

Solutions

 Wialon

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