



# PETROL STATION MONITORING: FROM COFFEE MACHINES TO FUEL TANKS



Client  
**Filling Station Chain  
Gaspromneft**  
Country  
**Russia**

## PROJECT DESCRIPTION

Gazprom Neft company required to arrange complex operation control over their petrol stations in Russia, CIS and other foreign countries.

This implied monitoring of commercial and network equipment, tank terminals, fuel dispensers and price boards, device data collection, visualization, profound analytics, possibility of distant service unification, remote diagnostics and repair.

IMC project based on AggreGate IoT Platform was launched in 2017. More than 1500 petrol stations have been connected to IMC. Data is

collected from automatic control systems, cash equipment, fuel storage tank level gauges, coffee machines and vending equipment, Kontar software and hardware complex.

The average number of collected signals varies from 500 to 1000 depending on the petrol station size. IMC functionality was built with the help of AggreGate distributed architecture technology.

Machine learning and predictive analytics IMC modules read signals from the connected devices and notify in advance on the necessity of petrol station equipment maintenance.

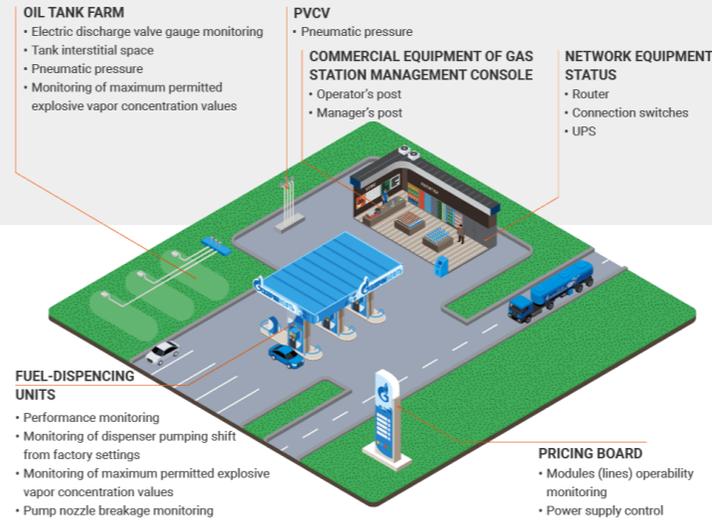
Most petrol stations were connected to the Internet of things.

«Connecting our petrol stations to the Internet of things is an important step on the way to growth of business efficiency and transparency.

We managed to significantly cut equipment maintenance costs and provide highest-level control over oil products quality and quantity having excluded human factor from the process. It means, our clients can be sure to get high quality product exactly in the required quantity».



**Alexander Krylov**  
Regional Sales Director, Gazprom Neft



## HARDWARE / ENVIRONMENT

- Specialized petrol stations controller DOMS (Gilbarco Veeder-Root)
- Tehnokod controllers
- Software and hardware complex KONTAR
- MRO system
- Rusholst on-line monitoring service

## BENEFITS

- New level of service quality. The service team is enabled to monitor equipment operation parameters and carry out predictive maintenance. This allows to keep equipment working without downtime 24/7 all the year round.
- Petrol station equipment operation is smooth and almost trouble-free, its efficiency has reached 99%, downtime has reduced by 30% and time for repair and maintenance — by 21%.
- Modeling and analysis. Equipment operation parameters collection and analysis, as well as malfunction correlation with specific equipment.

## SOLUTION

IoT Platform

