TECHNOTRADE

PETROL STATION TECHNOLOGIES

Company Profile

INNOVATIVE SOLUTIONS

for the development of your business

ABOUT COMPANY

TECHNOTRADE
PETROL STATION TECHNOLOGIES

10 285
Petrol Stations

Successfully use our products and solutions

25
Years

Experience in business automation

156
Partners

Authorized sales and service centers

102
Countries

Implement our innovative technologies

10
Patents

We are innovators. We set the vector of market development

57
Employees

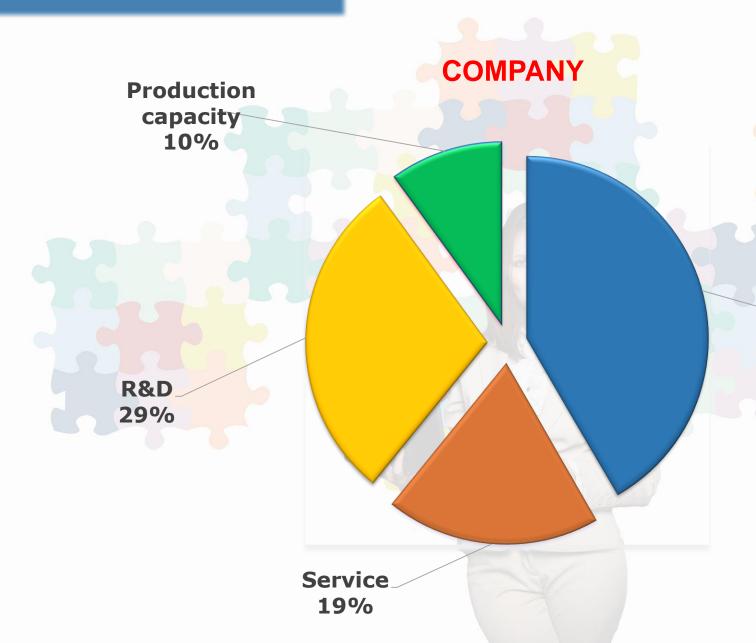Develop new products and technologies

1000
Stages

Qualitative output control of products in production

154
Products

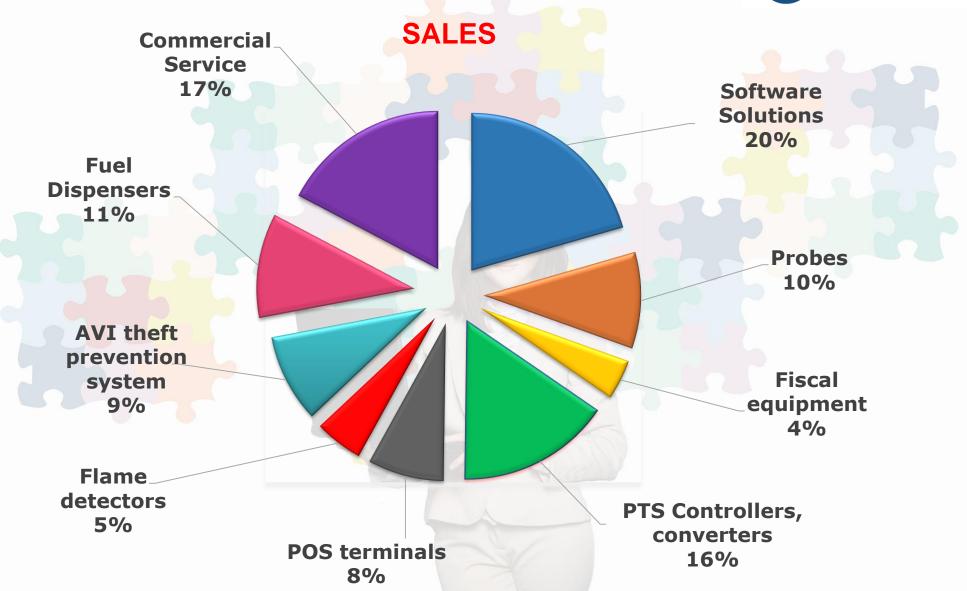Included in the product portfolio of "Technotrade"

BUSINESS STRUCTURE

TECHNOTRADE
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COMPANY

Production capacity
10%

Distribution
42%

R&D
29%

Service
19%

BUSINESS STRUCTURE

SALES

- Commercial Service **17%**
- Fuel Dispensers **11%**
- AVI theft prevention system **9%**
- Flame detectors **5%**
- POS terminals **8%**
- PTS Controllers, converters **16%**
- Fiscal equipment **4%**
- Probes **10%**
- Software Solutions **20%**

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KEY PROJECTS IN UKRAINE

KEY PRODUCT PORTFOLIO

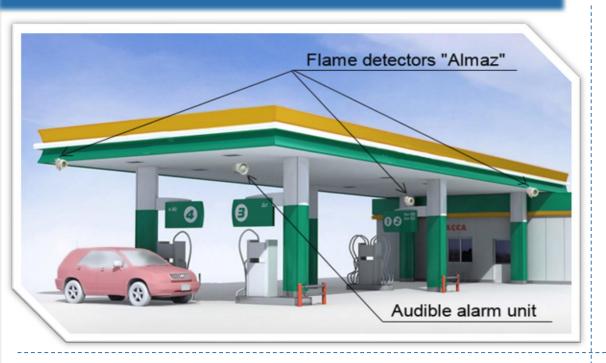# FUEL DISPENSERS

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Key Features:

* A large number of different columns
* Lots of design options
* For any type of fuel
* Certification
* Safety and operational reliability
* From 1 to 10 nozzles
* 19 years of experience in production

Prices:

* Depends on technical specifications

FLAME DETECTORS & AUDIBLE ALARM

Flame detectors "Almaz"

Audible alarm unit

Key Features :

Flame (fire detectors):
* Maximal distance of flame detection (0,1 m2 area) up to 50 m
* Viewing angle not less than 90 °
* Degree of case protection:
- general modification
- explosion-proof modification
* Operating temperatures range up -40 to +55 °C

Audible Alarm System:
* A loud signal of the System can warn (with sound volume is 90 ... 100 dB) the staff and customers about outbreak of flame or fire in the territory of the petrol station

EXPLOSION-PROOF

IP-66
1ExdIICT6/T5

GENERAL MODIFICATION

AUDIBLE ALARM UNIT

Autonomous audible warning system of fire

SELF-SERVICE POS-TERMINALS

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FUEL POS MINI

FUEL POS

KULON

Advantages of FUEL POS, Kulon:

* Vandal Proof

* 17" protected touchscreen

* 21 "display for displaying ads (optional)

* Built-in: fiscal printer, cash machine, bank terminal (VISA, MasterCard)

* Customer card support (discount, liter, etc)

* IP54 protection level

* Integrated Fiscal Printer POS.21

* Uninterruptable power source

* Running at ambient temperature from -40 °C to +50 °C

* Dimensions 580 x 700 x 2256 mm

* Thickness of steel 3mm

Advantages of FUEL POS MINI:

* Compactness

* 15 "protected touchscreen

* Built-in: fiscal printer, cash machine, bank terminal (VISA, MasterCard)

* Customer card support (discount, liter, etc)

* IP54 protection level

NaftaPOS CONTROL SYSTEM

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NaftaPOS
Petrol station software

NaftaPOS
Petrol station software

PC + ONLINE UPS*

* UPS – buy yourself

Key Features :
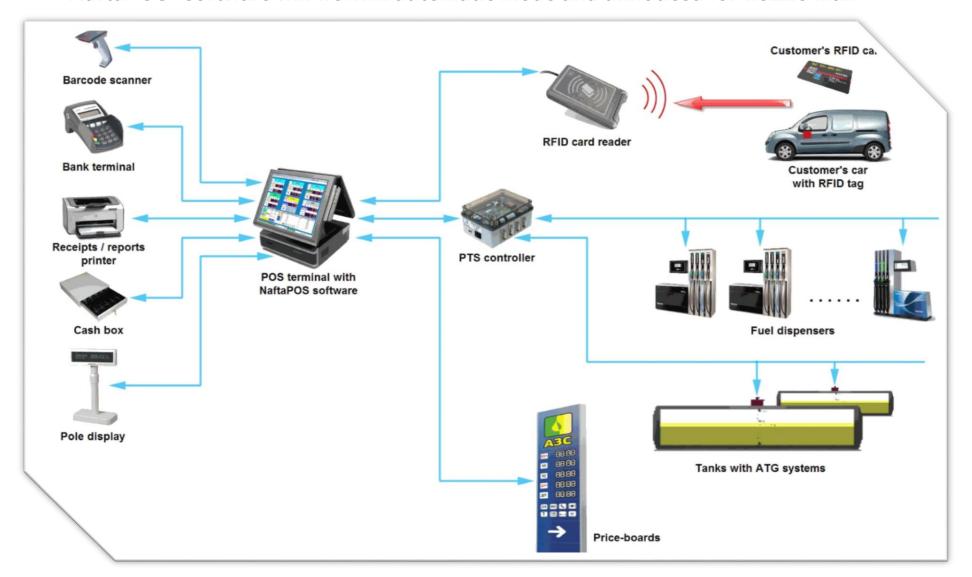
*   Management of petrol stations equipment

*   Commercial accounting of oil products

*   Retail sales of related products

*   Different forms of payment

*   The control and the account of the personnel of the petrol station

*   Remote monitoring of filling stations

*   Remote reporting of petrol stations

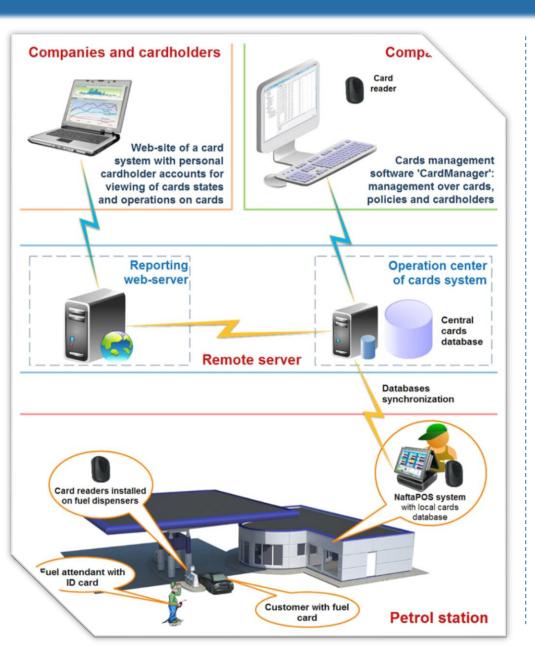# SCHEME OF NaftaPOS COMPLEX SOLUTION

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"NaftaPOS" software will work in automatic mode and unnoticed for nozzle man

- Barcode scanner
- Bank terminal
- Receipts / reports printer
- Cash box
- Pole display
- POS terminal with NaftaPOS software
- PTS controller
- RFID card reader
- Customer's RFID card
- Customer's car with RFID tag
- Fuel dispensers
- Tanks with ATG systems
- Price-boards
- АЗС

CARD\LOYALTY SYSTEM+RFID READER

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Companies and cardholders

Web-site of a card system with personal cardholder accounts for viewing of cards states and operations on cards

Card reader

Cards management software 'CardManager': management over cards, policies and cardholders

Reporting web-server

Operation center of cards system

Central cards database

Remote server

Databases synchronization

Card readers installed on fuel dispensers

NaftaPOS system with local cards database

Fuel attendant with ID card

Customer with fuel card

Petrol station

NaftaCards
Fuel cards system for petrol stations

PETROL STATION

FUEL CARD
100001

Key Features :

* Management of petrol stations equipment
* Commercial accounting of oil products
* Retail sales of related products
* Different forms of payment
* Control and the account of the personnel of the petrol station
* Remote monitoring of filling stations
* Remote reporting of petrol stations

Key Features :

* Identification of the nozzle men
* Self-service at the gas station
* Enhanced fuel control for corporate clients
* Operational change in the fuel release limit
* Wireless interface
* Explosion protection (class-1ExibIIBT4)
* Easy installation

ONLINE TANKS MONITORING SYSTEM

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Online monitoring over petrol station activity

Key Features:
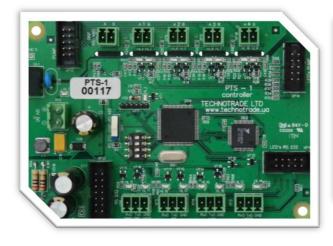
* Review of NaftaPOS operations online, reports
* Adding new reports and charts
* Schedule reports to be automatically delivered in a large number of formats
* Online monitoring of each petrol station activity
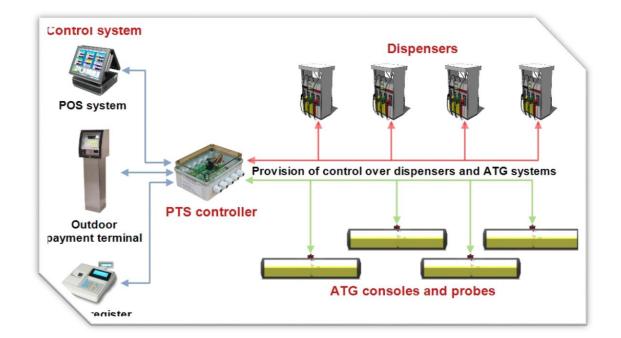* Supervision over users & their actions on the web-portal

Need to get remotely data from tanks?
Try tanks monitoring system SIUR!

Key Features:

* Monitor states of tanks and reservoirs remotely
* Generate reports for tank's states during a specified period
* Keep history of all changes in the database
* Remotely detect fluctuations in tanks and thus detect leakages and frauds
* Send alarm notifications in case of emergency states

FORECOURT CONTROLLERS

Key Features:
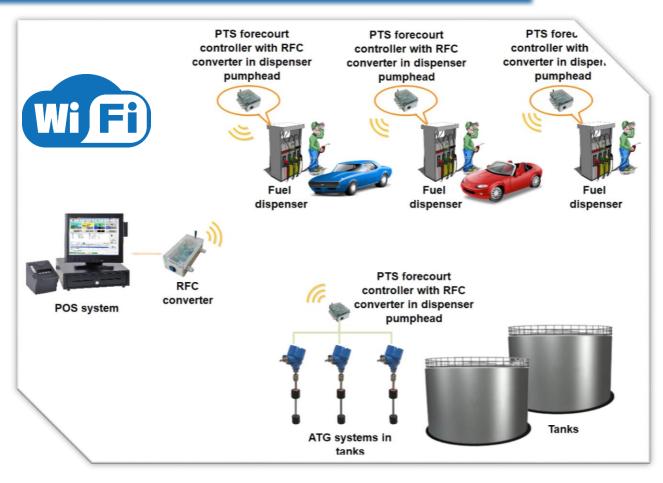
* Supports over 90 communication protocols

* Unified approach to management over any forecourt equipment

* Real-time control

* Scalability

* Rich set of interface converters for connection to fuel dispensers

* Rich software API for developers

* Logging of operation

* Self-diagnostics of operation

* Constant software updates

* Support by developers for developers

* Possibility to provide control over the same fuel dispensers from several POS-systems and to receive data on ATG measurements from any interconnected PTS to each POS-system

WIRELESS INTERFACE CONVERTER

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Key Features:
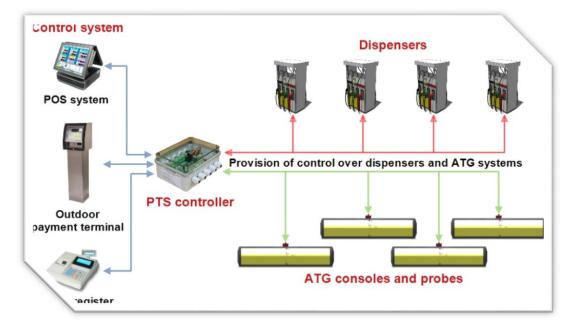
* Guarantees a stable signal in comparison with radio analogues

* Establishing wireless communication between devices that have RS-232 & RS-485 interfaces

* Encrypted data during transmission forecourt equipment using keys (changing at each data packet transfer)

* Simplifies the whole process and eliminates a necessity of placing cabling – electronic devices are able to communicate, but communication is done over-the-air instead of wired cabling

CONTROL PANEL+FORECOURT CONTROLLER

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NaftaPanel
control system for petrol stations

Receipts printer

Panel PC with NaftaPOS software

PTS controller over fuel dispensers and ATG systems for petrol stations

Pumps

Tanks

ONLINE UPS*

+

*   UPS – buy yourself

Control system

POS system

Outdoor payment terminal

PTS controller

Dispensers

Provision of control over dispensers and ATG systems

ATG consoles and probes

register

Key Features:

* Provision of control over technological

   processes and forecourt equipment (fuel dispensers,

   ATG systems, price boards, car washes, others)

* Automated measurement and commercial account

  at petroleum products

* Provision of sales of retails products

* Automated reporting during a selected period of time

* Provision and account of personnel operation

* Provision of discount and fuel cards

* Provision of sales of retails products

* Remote monitoring over petrol station operation

 (optional)

* Remote reporting over operation of a petrol station

  network (optional)

CONSOLIDATED DATA BASE
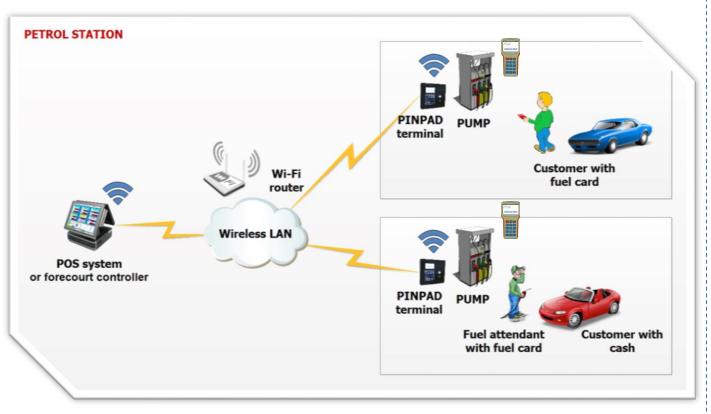
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The "Consolidated Database" software will be installed on the central server, which will collect data from each of the gas stations and display to users in the form of reports

Key Features:

* Generation of reports for all petrol stations of the network with comparison between petrol stations

* Separation of the most and least profitable petrol stations, comparative analysis between petrol stations operation

* Centralized management over the products list and product prices (prices can be updated automatically on all petrol stations by command from central office)

* Supervision over petrol stations, its employees and their actions from central office,

* Online monitoring of each petrol station activity (fuel dispensers operation, remains and parameters of fuel in tanks, current working shift operations) to provide control over personnel at petrol station and security

SELF-SERVICE TERMINALS PINPAD

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To enter customer data, we can equip each dispenser with a PINPAD data entry terminal, through which the attendant will enter information about the buyer (for example, name and state number of the car), and whether to choose whether to print a check or not at the end of the of the fuel supply
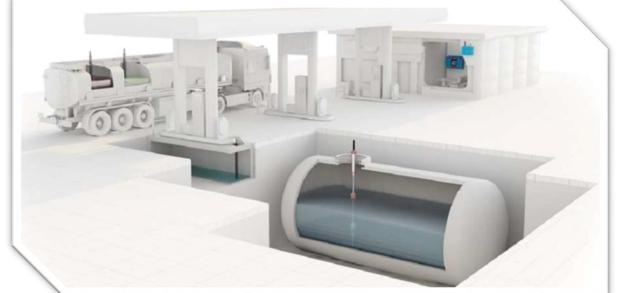

Key Features:

* Preset of order to be dispensed from fuel dispensers

* Application of fuel cards (identification of customers, displaying of current card's balance and limits, operations with cards and accounts)

* Identification of fuel attendants

* Self-service at petrol station

* Enhanced fuel control for corporate clients

* Quick change in the fuel release limit

* Wireless interface

* Explosion protection (1ExibIIBT4)

XMT-SI-RF
Wireless probes

XMT-SI-485
Wired intrinsically safe probes

XMT-EXd
Wired explosion-proof probes

MAGLINK consoles

Key Features :

* Measures the parameters of gasoline, compressed and liquefied gas

* Remote diagnostics, maintenance and adjustment

* Simple installation

* Stainless steel rod

* IP68 protection (XMT-version)

* Accuracy +- 0,5mm

* Running at ambient temperature from -40 °C to +60 °C

* High operation characteristics

FISCAL EQUIPMENT FOR PETROL STATIONS

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POS.21   POS.25   POS.27   POS MASTER   POS MINI   AKM POS

* Registration of sales of fuel and related products

* Simultaneous management of up to 64 workplaces

* Flexible setting of checks, reports and reporting to the client server

* Work with the card system (liter, discount, etc.)

* A wide range of configurations when building a system (monitors, printers, performance, etc.)

* High level of service support

* Providing high bandwidth

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* Registration of sales of fuel and related products

* Compliance with Legislation

* Simultaneous management of up to 32 workplaces

* Transfer of reporting data to a client server

* Work with the card system (liter, discount, etc.)

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* Wide functionality

* Increased reliability of the printing mechanism

* Card system

* Connection of terminal devices

* Flexible configuration of the technological equipment configuration of the filling station

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Modem | Multi-interface | Card system | Remote monitoring | WiFi

Extended keyboard | Multi-interface | Card system | Modem | WiFi

KEY SOLUTIONS

Wireless Filling Station

Innovative Solution for Wireless Gas & Petrol Filling Stations

WIRELESS DATA TRANSMISSION & COLLECTION

Key features:

- Use of innovative, **unique** PTS-2 Wi-Fi controller, which has no analogues in the world

- Reduction in the number of installation works for the filling station

- A significant reduction in the cost of maintenance of equipment

- Increase in the efficiency of consumption of petroleum products

- Reduce fraud and theft at gas stations

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SMART

Specific	Measurable	Attainable	Relevant	Time Based

Innovative business in the **sale of petroleum products**

FUEL POS MINI

Main Features:

* The organization of a completely new form of business for the sale of its petroleum product on the networks of partner filling stations

* Competitive advantage over other suppliers of petroleum products due to various supply-realization schemes

* Creation of your loyalty system on all networks of filling stations, where you supply your petroleum products (convenience and benefits to customers)

* Quick and accurate accounting of the release of oil products

* The possibility of generating additional profits through the sale of retail - wholesale

* Simplicity in use and, if necessary, creation of additional workplaces for maintenance and security of terminals

* Creating your bonus and discount system and making profit from business partners

* The uniqueness of the solution, which has no analogues in the world.
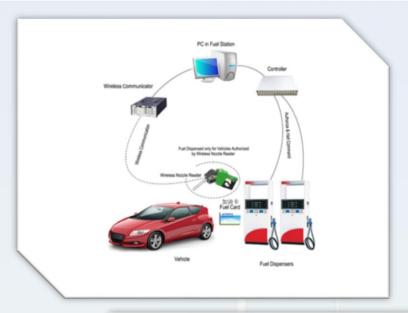
Smart Car Identification

Innovative System of Transport Identification at the gas station to prevent theft
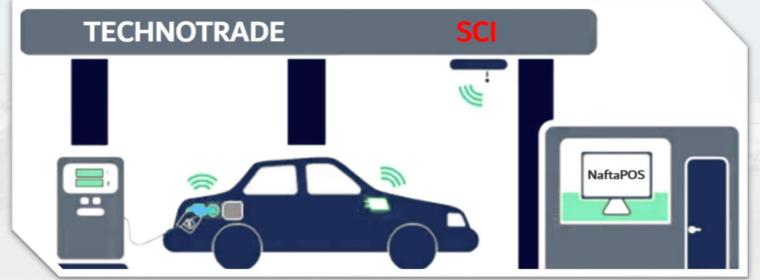
FUEL THEFT PREVENTION

THE SYSTEM OF FUEL THEFT PREVENTION:

- Automatic identification of cars
- Control of the type of fuel refueled in the car
- Blocking fueling in case of theft
- Reporting
- Integration with the NaftaCards loyalty system
- Increased measurement accuracy
- Confidence of the owner of the gas station in accelerated return of investment

GPS Vehicle Management
software\hardware system including fuel control

Key Features :
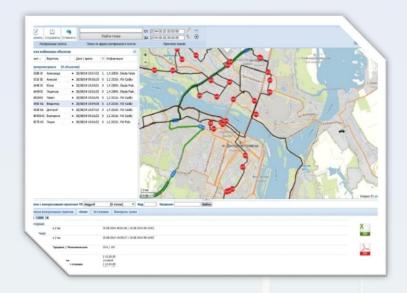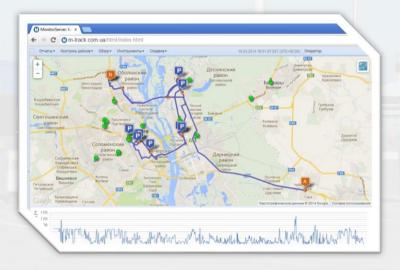
- Dual fuel control for protection against fuel theft by patented technology
- Providing a modular solution depending on the customer's requirement
- Support, development and modernization of GPS monitoring software and firmware of GPS units
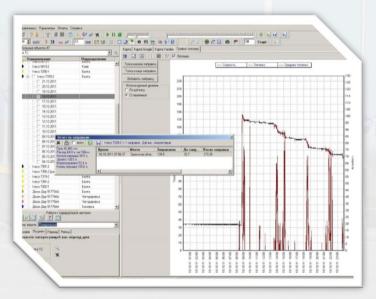- Qualified staff and customer service

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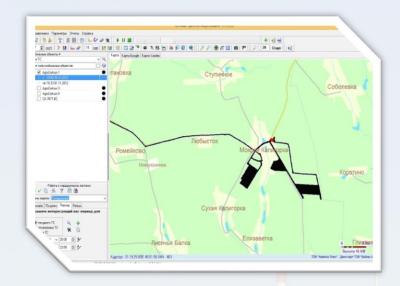
Main features of software:

- Online monitoring and viewing of tracks, reports from history

- Control and accounting of fuel, protection from theft

- Working with the lists of vehicles

  (groups, companies etc)

- Route and roadmap control

- Driver identification reports

- Downloading reports and automatically sending of reports by

  scheduler

- Notification of alerts (overspeeding, geo zones, main power

  failure etc.) by SMS\email

- Waybills

- Android mobile application software

FUNCTION:

- Control the validated movement of machinery
- Control of spent fuel per shift, per time zone or on a specific site. Identification of drain\refueling
- Drawing high-precision vector images of the customer on the map
- Monitoring of compliance with the technological speed (RPM) in the operation of machinery, as well as other technological and operational parameters (machine hours, engine load, instantaneous fuel consumption)
- Temperature control in the thermal bubble
- Driver control by RFID-tags

ADDITIONAL FEATURES:

- Ability to equip the dispatching unit with a two-way communication system between the dispatcher and the driver. The dispatcher has the ability to block the engine of the engine in case of violations

- Transmission of live video images on the most critical work processes. In this case, continuous transmission is carried out via 3G channels

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AM1-S
Advance Vehicle Tracker

KEY FEATURES:

- Compatibility with other wide number of sensors and accessories (CANbus, RFID, etc)

- GPS trackers AM1-S (W) have an expanded number of inputs / outputs and allow connecting fuel sensors, for example, DU-02, FMS CAN –bus adapters, RFID tags for drivers identification, tags for trailer equipment and other accessories

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FUEL LEVEL SENSOR(FLS) DU-02 :

- Designed to accurately measure fuel level in tanks of trucks, special machinery, agricultural machinery
- As well as for use in warehouses of fuels and lubricants, in systems that measure and control the amount of fuel or other fuel
- A variety of interfaces for fuel level sensors DU-02 allows to find the best solution for measuring fuel for any positioning and control system
- Provides fuel measurements with an error of up to 1%

FMS-CONTROLLER BY CAN-BUS :
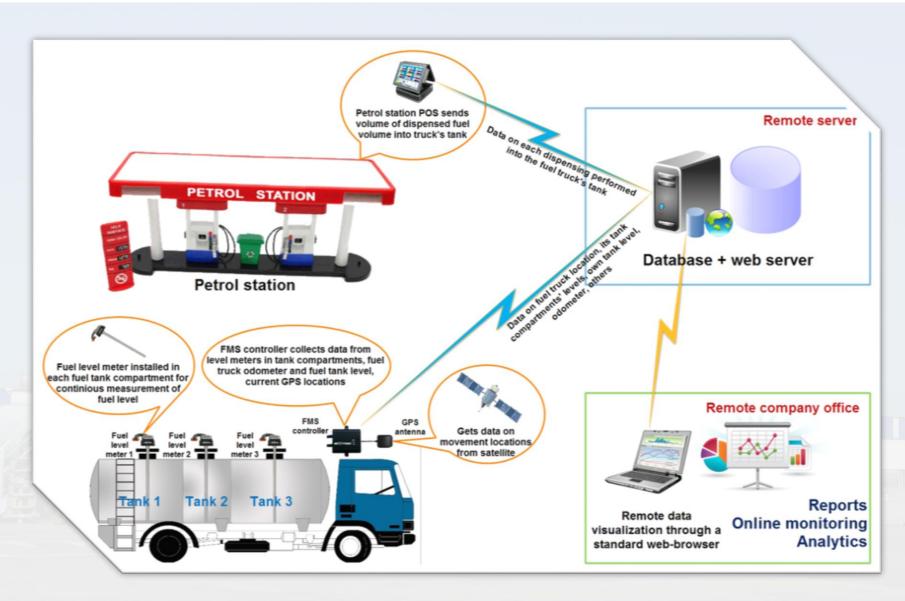
- Intelligent platform designed to read information from onboard computers of vehicles connected to information buses CAN-bus, J-bus, K-line or digital tachograph
- Compatible with the most models of trucks, agricultural machinery, special equipment
- Ideal for warranty equipment, as it carries out non-contact reading of information (CAN-click)

The equipment is flexibly configured, and allows you to read more than 20 parameters, the main ones of which are:

- Fuel level (l), fuel consumption (liters), instantaneous fuel consumption (l / h)
- Loading of the engine (%)
- Engine speed (rpm)
- Engine hours (sec)
- Coolant temperature (degrees C)

MapXPlus
OIL

Transport Management System
for the transport of gasoline tank trucks

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PURPOSES:

- Forecasting the needs of filling stations in oil products, forming orders for the selected strategy, optimizing inventories
- Optimization of the fleet of gasoline tank trucks in terms of quantitative and qualitative characteristics
- Accounting for fuel costs for transportation of petroleum products
- Optimization of routes for the movement of gasoline tankers in the delivery of petroleum products in the network of filling stations
- Monitoring of the movement of gasoline tankers when delivering petroleum products (when using GPS)
- Monitoring of actual residues of petroleum products at filling stations
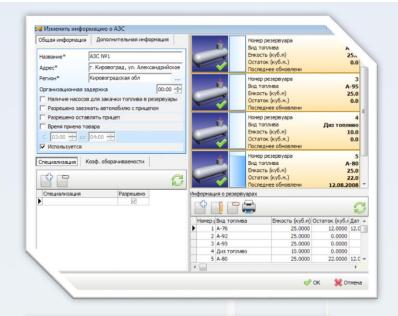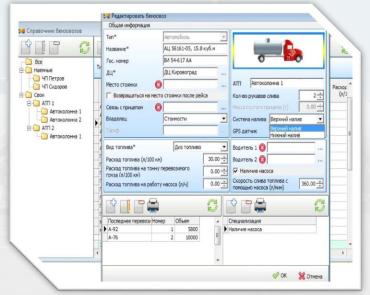
SYSTEM COMPONENTS:

- Forecasting of needs and formation of orders for filling stations / filling stations in petroleum products
- Distribution of orders for fuel tank sections and formation of optimal delivery routes
- Directories (filling stations / filling stations, petrol tankers, oil depots).
- Geosystem
- The monitoring system of actual residues of oil products at filling

PETROL STATIONS & GASOLINE TANKER FLEET

PETROL STATIONS:

- Location:
- Parameters of the tank farm
- Types of oil products
- Entrance parameters
- The personnel responsible for receiving oil products
- Features and limitations

GASOLINE TANKER FLEET:

- Drivers
- Sectionalization and binding of the oil product type to sections
- Trailer parameters (if any)
- Fuel consumption parameters depending on congestion
- Maintenance
- Own / hired transport
- Specializations and limitations

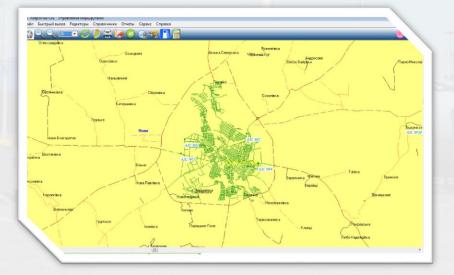# OIL STORAGES& GEOSYSTEM

OIL STORAGE:

- Location
- Working hours
- Topology of ASN
- Types of ASN with reference to reservoirs
- Remains of oil products in the tank farm
- Limitations and features

GEOSYSTEM:

Vector maps allow:

- Accurately calculate the routes (distance, travel time)
- Consider the congestion and throughput of roads and parts
- Close, open, create roads, limit use in calculating traffic routes
- The technology used, if necessary, allows you to quickly edit and / or create new maps

THE SYSTEM OF MONITORING BALANCES AT THE GAS STATION:

- It is designed for independent monitoring of residues, arrivals and releases of petroleum products from the company's tank farm
- It is necessary to equip the filling stations with level measurement systems (Start Italiana)

Remotely informs the user about actual:

- Number of oil products arrivals
- Volume of oil products released from tanks
- Current balances of oil products

Thank you for your attention!

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