Real Time
Vehicle Monitoring

**GPS-GSM/GPRS
Vehicle Modules**

**Fuel level Sensors
and Adapters**

**Office PC Based
Monitoring System**

**WEB Based
Monitoring System**

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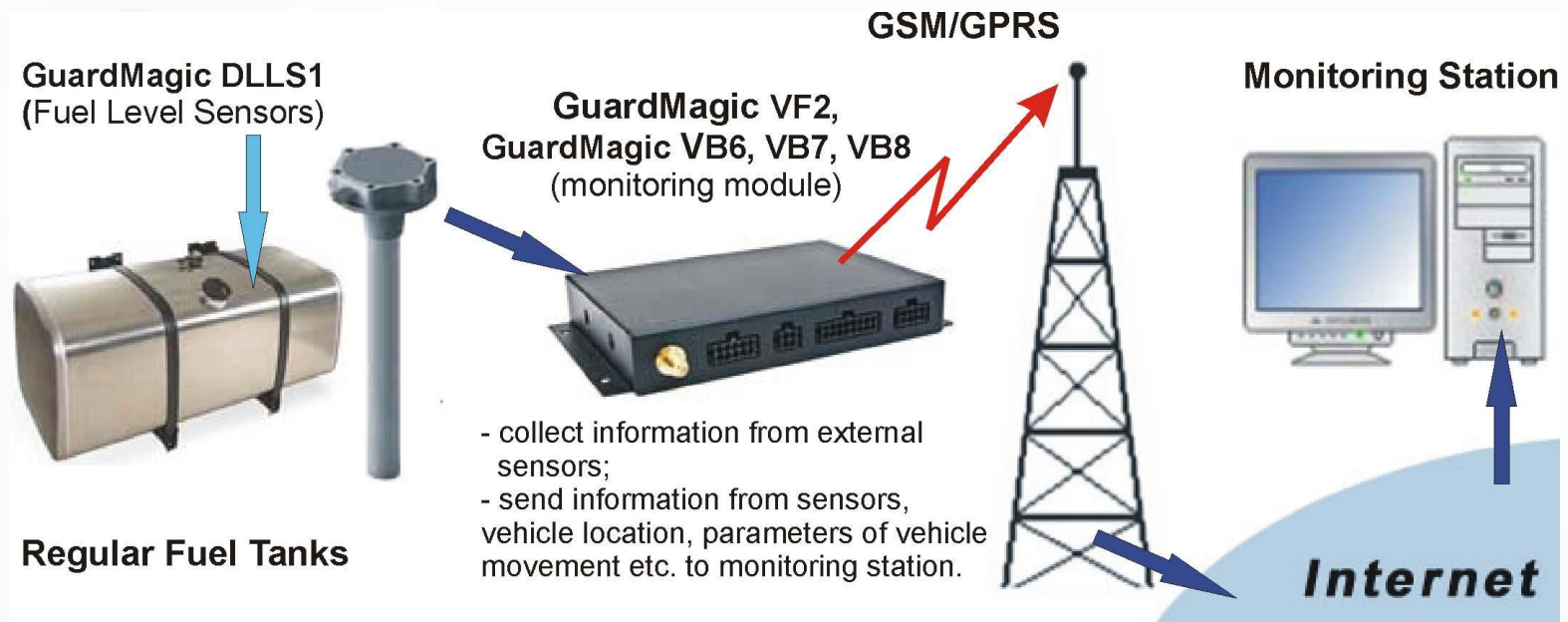
About
Real Time
Monitoring System

About Real Time Monitoring

- Operative monitor vehicle real location, vehicle movement and movement parameters;

- Operative monitor vehicle status and parameters of external sensor;

- Monitor fuel consumption, fueling and fuel drain;

- Monitor driver activity, driver behaviour (eco-driving) and quality of driving;

- Collect information about vehicle movement, driving style, driver activity, fuel consumption, information from external sensors and store it in data base for posterior analyzing.

   * – real time monitoring system is based on satellite system of geographical coordinates definition (GPS System) and GSM/GPRS data communication.
   * – outside GSM/GPRS coverage, or "GSM network busy" all data stored in modules internal memory for automatic posterior data transmitting.

About Fuel Monitoring

GSM/GPRS

GuardMagic DLLS1
(Fuel Level Sensors)

**GuardMagic VF2,
GuardMagic VB6, VB7, VB8**
(monitoring module)

Monitoring Station

- collect information from external
  sensors;
- send information from sensors,
  vehicle location, parameters of vehicle
  movement etc. to monitoring station.

Regular Fuel Tanks

Internet

In general "Real Time" fuel monitoring system consist of next main components:
    • Fuel level sensor with digital communication interface (GuardMagic DLLS1 series). Fuel level sensor make measurement of fuel level in fuel tank and send this data to vehicle GPS-GPRS module . (System support up to THREE regular fuel tanks and up to ELEVEN cargo or service fuel tanks);
    • Vehicle GPS-GPRS module (GuartdMagic VF2 or GuardMagic VB6, VB7, VB8) collect information from fuel sensor and send collected information to monitoring station;
    • Monitoring station, - collect the fuel data and other information from vehicle modules, store this information in "Data Base", make analyzing of received information and generate the series of reports and diagrams.

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Monitoring Structure in General
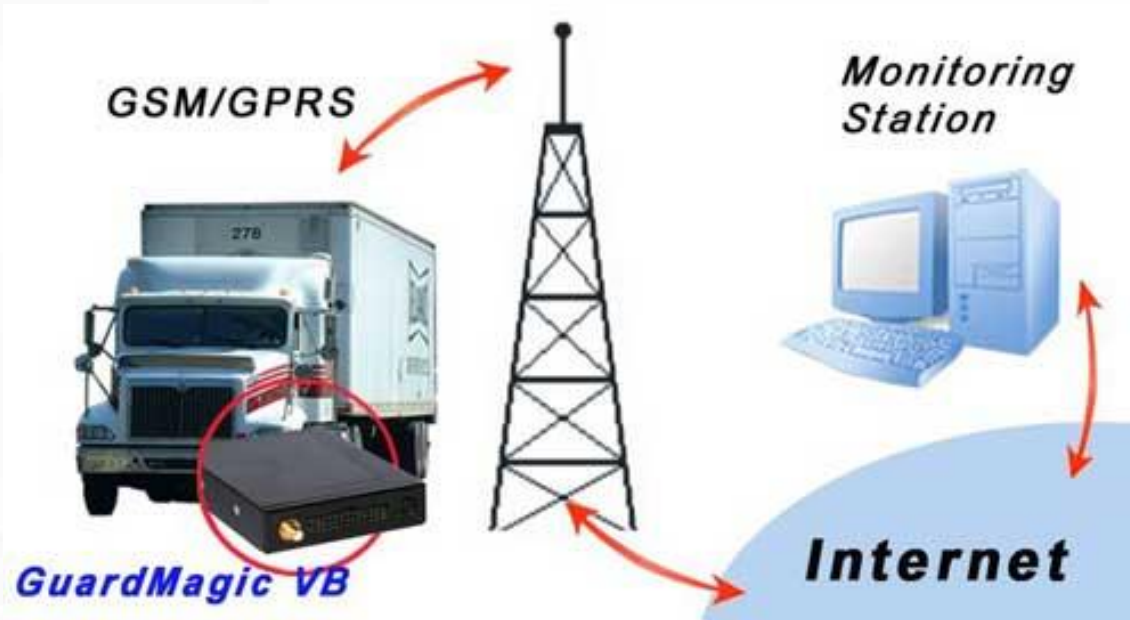
- In vehicle locate GPS-GSM/GPRS module (GuardMagic VF or GuardMagic VB series) that in full automatic mode collect and send to monitoring station information about vehicle location and parameters of vehicle movement, vehicle status, information from external sensors etc.;

- Communication channel (GSM/GPRS+ Internet) for the sending information from vehicle module to "Monitoring Station";

- "Monitoring Station" receive information from all vehicle, store this information in data base, processing information and generate reports and graph about vehicle activity and vehicle status.

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System Allow

GuardMagic "Real Time" vehicle and fuel monitoring system allows:

- company owners, directors, transport managers always have a real information of vehicles and vehicle fleet, vehicle trip, vehicle utilization, vehicle driving parameters, fuel usage;
- watch in real time vehicle location and traffic parameters;
- increase vehicle or special machinery effectiveness;
- minimize non-productive expenses;
- supervise vehicle trip and parameters of movement;
- supervise fuel usage;
- prevent (or minimize) fuel theft;
- supervise vehicle operation time;
- prevent not authorized use of transport;
- supervise drivers working hours and/or operators working hours effectiveness;
- compare vehicle utilization, driving safety and driver behaviour.

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Monitoring All types of Vehicle and Machinery

Cars, Pickup, SUV
GuardMagic VF2, VB6
GuardMagic DAFS1

LCV
GuardMagic VF2, VB6
GuardMagic DAFS1

Minibuses
GuardMagic VF2, VB6
GuardMagic DAFS1

Trucks
GuardMagic VF2, VB6
GuardMagic DLLS1

Passenger Buses
GuardMagic VF2, VB6
GuardMagic DLLS1

Refrigerator Trucks
GuardMagic VB7
GuardMagic DTS
GuardMagic DLLS1

Road Fuel Tanker
GuardMagic VB8
GuardMagic DLLE1ct + JBB01

Utility and Special Machinery
GuardMagic VF2, VB6, VB7
GuardMagic DLLS1

Mining Truck, Mining Machinery
GuardMagic VF2, VB6, VB7
GuardMagic DLLS1

Building Machinery
GuardMagic VF2, VB6
GuardMagic DLLS1

Road Building Machinery
GuardMagic VF2, VB6
GuardMagic DLLS1

Agricultural Machinery
GuardMagic VF2, VB6
GuardMagic DLLS1

... and much, much more

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GuardMagic System Advantages in General

- Monitor all type of vehicle (starting of car and up to road fuel tankers);
- Monitor: vehicle, vehicle driving, fuel, trailers, drivers, sensors;
- Worldwide cover operation;
- Remote monitor by GSM/GPRS network;
- Outside GSM/GPRS network modules stores all information in its memory;
- Real time vehicle location monitoring and parameters of movement;
- Driving safety monitoring and driver behavior monitoring;
- Multi tanks monitoring, up to total 14 fuel tanks for one vehicle ;
- Real time monitor fuel level in all fuel tanks: regular and cargo;
- Temperature monitoring;
- External sensors monitoring;
- Generate the lots of reports and graphs for vehicle, fleet, drivers, trailers;
- Universal data communication protocol for all modules;
- System functionality growing

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GuardMagic
GPS-GSM/GPRS
Vehicle Modules

GuardMagic GPS-GSM/GPRS Vehicle Modules

GuardMagic VF2
Universal compact vehicle GPS/ GSM-GPRS module with fuel monitoring function (multi tanks supports) and acceleration/ deceleration monitoring.

GuardMagic VB6, VB6lite
Universal vehicle GPS/ GSM-GPRS module with fuel monitoring function (multi tanks supports), acceleration/ deceleration monitoring and driver identification function.

GuardMagic VB7, VB7lite
Advanced vehicle GPS/ GSM-GPRS module with fuel monitoring function (multi tanks supports), temperature monitoring, acceleration/ deceleration monitoring and driver identification function. Module has TWO digital fuel bus (EIA-485).

GuardMagic VB8
Special GPS/ GSM-GPRS module dedicated to use in road fuel tankers. Module allow to monitor fuel level up to 11 cargo fuel compartments and monitor fuel quality in SIX compartments. Module has: driver identification function, TWO digital fuel bus (EIA-485).

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Advantages Of GuardMagic Vehicle Modules

- installation on any type of transport (truck, lorry, car, road tanker, combine, tractor, bulldozer, building and special machinery etc.);
- connection to external logical sensors;
- in full automatic mode collect and transmit to monitoring station information about vehicle location, parameters of vehicle moving, active driver, driving style, status and information from of external sensors;
- outside GSM coverage store all information in internal non-volatile memory and posterior in full automatic transmit stored information to monitoring station;
- Internal memory for about 110 Thousands record;
- multi tanks support functionality (independently monitor many fuel tanks);
- high fuel resolution: 1024 or 4096 levels;
- digital communication interface with fuel level sensors (very high noise protection);
- monitor fuel temperature in fuel tanks;
- driver identification function;
- monitor driver behaviour (eco-driving) and quality of driving;
- Immobilization function (based on driver ID);
- remote engine start blocking (engine blocking) functionality;
- several operation mode: transport, special machinery, active stand by, sleep;
- protection of power circuit and signal against an over voltage and over polarity;
- and much more…

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About GuardMagic VF2 Module

GuardMagic VF2: universal compact vehicle GPS/ GSM-GPRS module with fuel monitoring function (multi tanks supports) and acceleration/deceleration monitoring.

GuardMagic VF2 module designed for remote supervision of mobile object movement (vehicle, special machinery, etc.) and remote fuel monitoring.

Module supports up to THREE regular fuel tanks.

Module has internal memory for 110Thousand records (if GSM signal is absent).

GuardMagic VF2 benefit:

- adaptive data fixing;
- transmit vehicle movement parameters: speed, acceleration, deceleration;
- safety and eco-driving support;
- multi tanks support functionality;
- support up to THREE fuel level sensors with digital communication interface (THREE regular fuel tanks)
- or support ONE analog fuel level sensor (ONE regular fuel tank);
- digital industrial communication interface with fuel level sensors (EIA-485);
- collect information from fuel level sensors: fuel level and temperature;
- high resolution in fuel bus (1024 or 4096 levels);
- fuel bus status diagnostic;
- internal non-volatile memory for the about 110 thousands of records;
- programmed active stand-by mode.

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GuardMagic VF2 Main Functionality

Main:
- Coordinates definition (GPS position) and parameters of vehicle movement;
- Transmitting by GSM/GPRS network to the Monitoring Station coordinates of truck, parameters of movement, fuel level in truck fuel tanks, engine On-Off status, panic button pressing;
- Storing the GPS data and data from external sensor and circuits in internal non-volatile memory and posterior transmitting this information by GSM/GPRS to monitoring station;
- Automatic storing data in internal memory than GPRS connection is absent;
- Automatic starting sending data from memory than GPRS connection appear;
- Two types of mode:
    - operation mode;
    - programming mode.

- Two types of working in operation mode:
    - transport mode;
    - special machinery mode;
- Three type of operation;
    - "operation";
    - " active stand by";
    - "sleeping"
- Programming the periodicity of data fixing;
- User programming module configuration;
- Remote engine starting blocking;
- Remote module reprogramming.

Others:
- Transition in "active stand by" mode and "sleep mode" after deenergizing Ignition;
- Automatic activation from "active stand by" mode or "sleep mode" in case of at activation of any logical inputs;
- Protection of power circuit and signal against an over voltage;
- Satellite time synchronization;

GuardMagic VF2 Connection and Operation

Main circuits connection:
-Main power supply (DC power 12/24V);
- GPS antenna-receiver (from complete set);
- Ignition circuit;
- Up to THREE fuel level sensor in main fuel tanks (digital interface EIA-485);
- or ONE analog fuel level sensor;
- "PANIC" (SOS) Button;
- Engine start blocking relay.

About GuardMagic VB6, VB6lite Modules

GuardMagic VB6: universal vehicle GPS/ GSM-GPRS module with fuel monitoring function (multi tanks support), acceleration/ deceleration monitoring and driver identification function.

GuardMagic VB6 module designed for remote supervision of mobile object movement (vehicle, special machinery, etc.), vehicle status monitoring, fuel in regular tanks monitoring and active driver monitoring.
 Module supports up to THREE regular fuel tanks.
Module has internal memory for 110Thousand records (if GSM signal is absent).

GuardMagic VB6 benefit:

- adaptive data fixing;
-transmit vehicle movement parameters: speed, acceleration, deceleration;
- safety and eco-driving support;
- multi tanks support functionality;
- support up to THREE fuel level sensors with digital communication interface (THREE regular fuel tanks)
- driver identification;
- digital industrial communication interface with all fuel level sensors (EIA-485);
- collect information from fuel level sensors: fuel level and temperature;
-high resolution in fuel bus (1024 or 4096 levels);
-external sensors monitoring;
- fuel bus status diagnostic;
- internal non-volatile memory for the about 110 thousands of records;
- programmed active stand-by mode.

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GuardMagic VB6 Main Functionality

Main:
- Coordinates definition (GPS position) and parameters of vehicle movement;
- Transmitting by GSM/GPRS network to the Monitoring Station coordinates of truck, parameters of movement, fuel level in regular fuel tanks, engine On-Off status, panic button pressing, event button pressing, engine RPM, engine overheat, status of alarm system;
- Storing the GPS data and data from external sensor and circuits in internal non-volatile memory and posterior transmitting this information by GSM/GPRS to monitoring station;
- Automatic storing data in internal memory than GPRS connection is absent;
-Automatic starting sending data from memory than GPRS connection appear;
-Driver identification;
-Guard function;
-Immobilization function (by driver ID);

-Two types of mode:
   - operation mode, programming mode.
- Two types of working in operation mode:
   - transport mode, special machinery mode;
- Three type of operation;
   - "operation", " active stand by", "sleeping";
- Programming the periodicity of data fixing;
- Programming the module configuration;
- Remote engine starting blocking;
- Remote On/Off customer relay;
- Remote module reprogramming.

Others:
- Transition in "active stand by" mode and "sleep mode" after deenergizing Ignition;
- Automatic activation from "active stand by" mode or "sleep mode" in case of at activation of any logical inputs;
- Protection of power circuit and signal against an over voltage;
- Satellite time synchronization;

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GuardMagic VB6 Module Connection

Main circuits connection:
- Main power supply;
- External reserve battery;
-- GPS antenna-receiver (from complete set);
- Ignition circuit;
-Up to THREE fuel level sensor in truck regular fuel tanks (EIA-485);
-Driver identification reader;
-Truck alarm system;
-"PANIC" button;
- "Event" button;
- Vehicle Engine RPM sensor (circuit),
- Crash sensor, fuel tank empty sensor, engine overheat sensor;
- External buzzer;
- Engine start blocking relay;
- Customer relay.

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About GuardMagic VB7, VB7lite Modules

GuardMagic VB7: universal vehicle GPS/ GSM-GPRS module with fuel and temperature monitoring function, acceleration/ deceleration monitoring and driver identification function
GuardMagic VB7 module designed for remote supervision of mobile object movement (vehicle, special machinery, etc.), vehicle status monitoring, fuel in regular and service tanks monitoring and active driver monitoring.
 Module supports up to THREE regular fuel tanks and up to FOUR service (cargo) tanks; Module has internal memory for 110Thousand records (if GSM signal is absent).

GuardMagic VB7 benefit:

- adaptive data fixing;
- transmit vehicle movement parameters: speed, acceleration, deceleration;
- safety and eco-driving support;
-multi tanks support functionality(THREE in regular fuel tanks and FOUR sensors in service tanks) ;
- support up to SEVEN temperature sensors;
- driver identification;
- two digital communication interface EIA-485 for communication with fuel level sensors;
- collect information from fuel level sensors: fuel level and temperature;
-high resolution in fuel bus (1024 or 4096 levels);
-external sensors monitoring;
- fuel bus status diagnostic;
- internal non-volatile memory for the about 110 thousands of records;
- programmed active stand-by mode.

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GuardMagic VB7 Main Functionality

Main:
- Coordinates definition (GPS position) and parameters of vehicle movement;
- Transmitting by GSM/GPRS network to the Monitoring Station coordinates of truck, parameters of movement, fuel level in regular and service fuel tanks, temperature information from temperature sensors, engine On-Off status, panic and event buttons pressing, engine RPM, engine overheat, status of alarm system;
-Storing the GPS data and data from external sensor and circuits in internal non-volatile memory than GPRS connection is absent and posterior transmitting this information to monitoring station ;
-Automatic starting sending data from memory than GPRS connection appear;
-Driver identification;
-Guard function;
-Immobilization function (by driver ID);

-Two types of mode:
   - operation mode, programming mode.
- Two types of working in operation mode:
   - transport mode, special machinery mode;
- Three type of operation;
   - "operation", " active stand by", "sleeping";
- Programming the periodicity of data fixing;
- Programming the module configuration;
- Remote engine starting blocking;
- Remote On/Off customer relay;
- Remote module reprogramming.

Others:
- Transition in "active stand by" mode and "sleep mode" after deenergizing Ignition;
- Automatic activation from "active stand by" mode or "sleep mode" in case of at activation of any logical inputs;
- Protection of power circuit and signal against an over voltage;
- Satellite time synchronization;

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GuardMagic VB7 Module Connection

Main circuits connection:
- Main power supply;
- External reserve battery;
-- GPS antenna-receiver (complete set);
- Ignition circuit;
-Up to THREE fuel level sensor in truck regular fuel tanks (EIA-485);
-Up to FOUR fuel level sensor in service fuel tanks (EIA-485);
-Up to SEVEN temperature sensors by 1-wire interface;
-Driver identification reader;
-Truck alarm system;
-"PANIC" and ""Event" buttons;
- Engine RPM sensor, crash sensor, fuel tank empty sensor, engine overheat sensor;
- External buzzer;
- Engine start blocking relay;
- Customer relay.

GuardMagic VB7

Vehicle Fuel Tanks — Tank1 Tank2 Tank3
Engine RPM
Engine Overheat
Fuel Sensors in "Service Tanks" (up to 4 sensors)
Temperature Sensors (up to 7 sensors)
Crash Sensor
Alarm System
GPS antenna
Ignition Switch
Panic Button
Event Button
Driver Identification
Customer Logical Input
Engine Blocking Relay
Customer Relay

About GuardMagic VB8 Module

GuardMagic VB8: special compact tanker-truck GPS/ GSM-GPRS module dedicated to use on tanker-truck application.

GuardMagic VB8 module designed for remote supervision of road fuel tankers and its fuel compartments.

GuardMagic VB8 module monitor: tanker movement and tanker status, fuel in cargo tanks and regular truck tanks, fuel quality in cargo tanks, driving safety, active driver, active trailer.
 Module supports up to THREE truck regular fuel tanks and up to ELEVEN cargo compartments ; Module has internal memory for 110Thousand records for storing data (if GSM signal is absent).

GuardMagic VB8 benefit:
- multi tanks support functionality;
- independently monitor fuel level up to 11 fuel cargo compartments and up to 3 truck fuel tanks;
- independently monitor fuel quality (density/ viscosity) in up to SIX fuel cargo compartments;
- two digital communication interface EIA-485 with fuel level sensors and fuel quality sensor;
-high resolution in fuel bus (1024 or 4096 levels);
-support up to SEVEN temperature sensors;
- driver identification;
- trailer identification;
- adaptive data fixing;
- transmit vehicle movement parameters: speed, acceleration, deceleration;
- safety and eco-driving support;
- synthetic ignition;
- fuel bus status diagnostic;
- internal non-volatile memory for the about 110 thousands of records;
- programmed active stand-by mode.

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GuardMagic VB8 Main Functionality

Main:
- Coordinates definition (GPS position) and parameters of vehicle movement;
- Transmitting by GSM/GPRS network to the "Monitoring Station" coordinates of fuel tanker, parameters of movement, fuel level in cargo compartments and truck regular fuel tanks, fuel quality in cargo compartments, temperature information from temperature sensors, engine On-Off status, panic and event buttons pressing, engine RPM, engine overheat, status of alarm system;
-Storing the GPS data and data from external sensors and circuits in internal non-volatile memory than GPRS connection is absent and posterior transmitting this information to monitoring station;
-Automatic starting sending data from memory than GPRS connection appear;
-Driver identification and trailer identification;
-Guard function;
-Immobilization function (by driver ID);

-Two types of mode:
   - operation mode, programming mode.
- Two types of working in operation mode;
- Three type of operation;
   - "operation", " active stand by", "sleeping";
- Programming the periodicity of data fixing;
- Programming the module configuration;
- Remote engine starting blocking;
- Remote On/Off customer relay;
- Remote module reprogramming.

Others:
- two steps over speed sound notification; Transition in "active stand by" mode and "sleep mode" after deenergizing Ignition;
- Automatic activation from "active stand by" mode or "sleep mode" in case of at activation of any logical inputs;
- Protection of power circuit and signal against an over voltage;
- Satellite time synchronization;

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GuardMagic VB8 Module Connection

Main circuits connection:

-Up to ELEVEN fuel level sensor in cargo fuel tank compartments (EIA-485);
-Up to THREE fuel level sensor in truck regular fuel tanks (EIA-485);
- Up to SIX fuel quality sensors (EIA-485);
- Up to SEVEN temperature sensors by 1-wire interface;
-Driver identification reader;
-Trailer identification module;
- Truck alarm system;
- Main power supply;
- External reserve battery;
- Ignition circuit;
--GPS antenna-receiver (from complete set);
-"PANIC" and ""Event" buttons;
- Engine RPM sensor, crash sensor, fuel tank empty sensor, engine overheat sensor;
- External buzzer;
-Engine start blocking relay;
- Customer relay.

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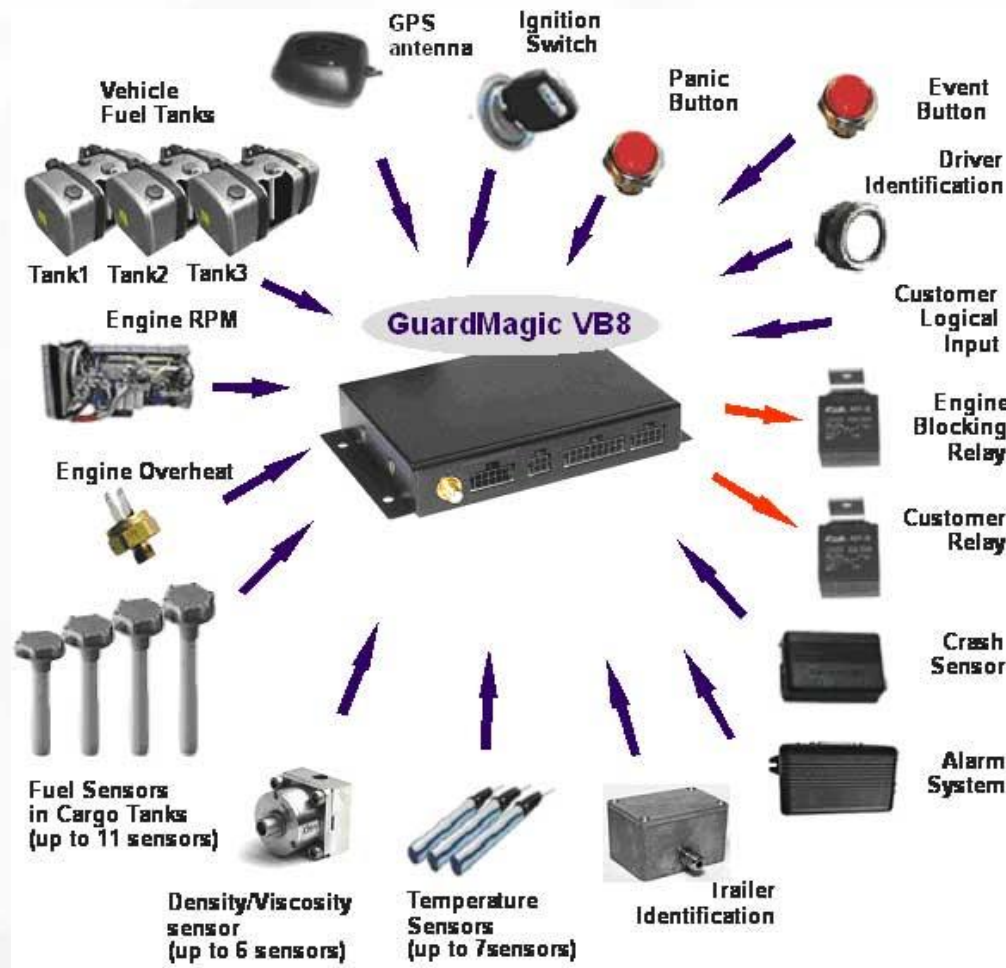
Driver Identification by i-Button

for modules GuardMagic VB6, Guardmagic VB7, GuardMagic VB8

The iButton® (by Maxim/Dallas Semiconductor) device is a computer chip enclosed in a robust stainless steel can.
Each iButton® device has a unique and unalterable code laser etched onto its chip inside the can. This code   used as a key or identifier for each iButton device.
 The silicon chip within the iButton device is protected by the ultimate durable material: stainless steel. You can drop an iButton device, step on it, or scratch it.
The iButton device is wear-tested for 10-year durability.

i-Buton

Driver has its own iButton® and iButton code is the ID code of driver in monitoring system.
 By simply touching iButton® device to iButton Reader (Touch Pad) GuardMagic VB module read this code (driver ID code) and send this code to monitoring station.

Using ID driver code allow to add additional immobilization function in the vehicle: only reading the correct ID code (authorized driver) allow to start the vehicle engine.

**i-Buton Reader
(Touch Pad)**

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GuardMagic
Fuel Level Sensors
and
Sensor Adapters

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GuardMagic Fuel Sensor Related Products

GuardMagic DAFS1: adapter for resistive type floating fuel level sensor with EIA-485 communication interface.
GuardMagic DAFS allow by very economical way embed fuel monitoring function for cars, SUV, VANs, LCV in vehicle monitoring system.

GuardMagic DLLS1 series: robust digital fuel level sensor (for operation in vehicle regular fuel tanks).
-available sensor length: from 0,3m and up to 2,5m;
-multi tanks support functionality
-digital communication interface EIA-485;
-Internal data processing;
-robust construction.

GuardMagic DLLE1ct series: robust digital fuel level sensor for operation in hazardous area (for road fuel tanker cargo tanks).
-available sensor length: from 1,3m and up to 2,5m;
-multi tanks support functionality
-digital communication interface EIA-485;
-Internal data processing;
-robust construction.

In Brief
About PC Monitoring
Software/Service
Functionality

GuardMagic
vehicle and fuel monitoring

About Monitoring Software and Monitoring Service

All World Coverage and All World Operation

About Monitoring Software and Monitoring Service
(VehicleStation, FleetStation: "Main Operation" Window)

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About Monitoring Software and Monitoring Service
(VehicleStation, FleetStation: "Main Operation" Window)

About Monitoring Software and Monitoring Service
(VehicleStation, FleetStation: "Chart" Window)

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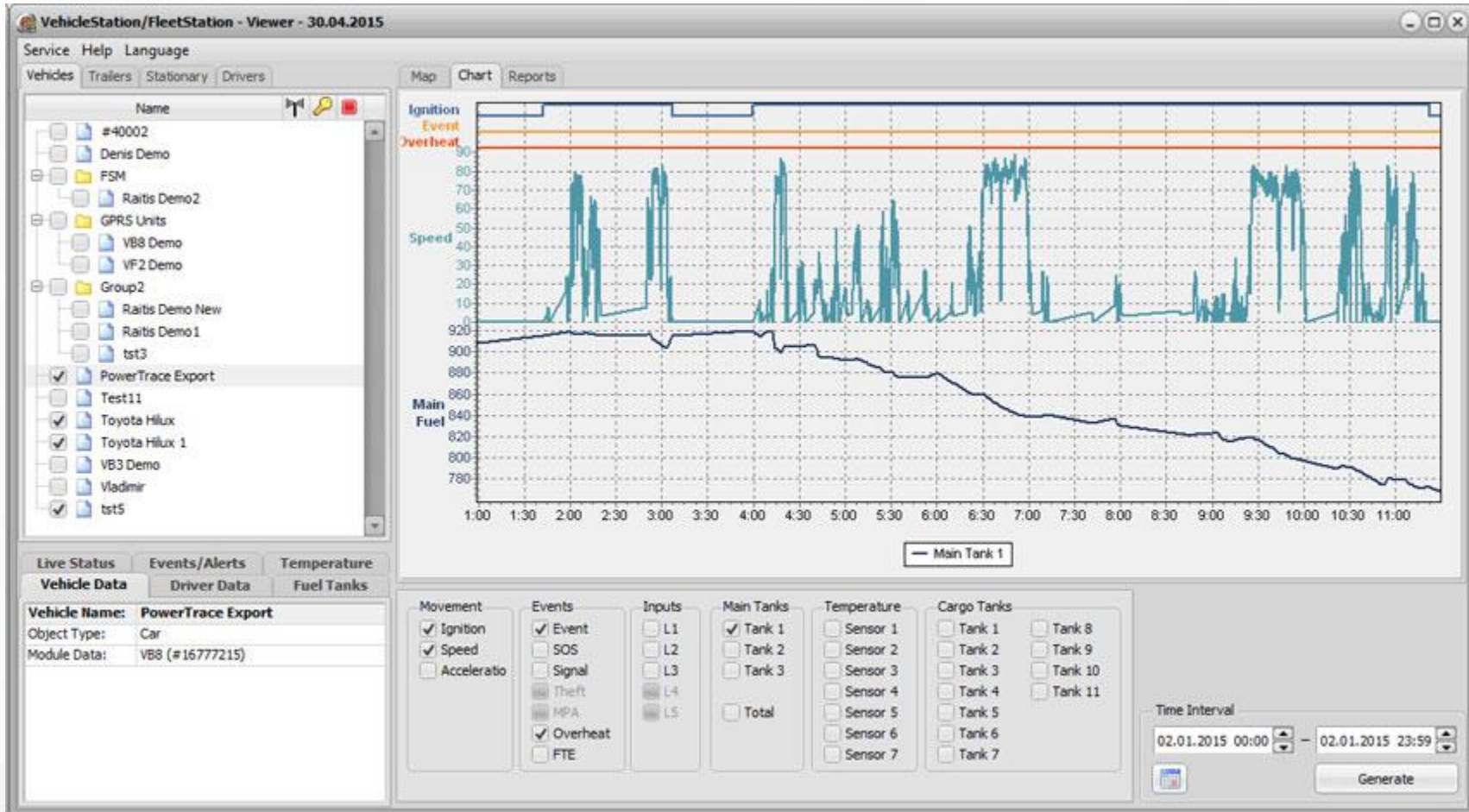
About Monitoring Software and Monitoring Service
(PowerTrace Service: "Main Operation" Window)

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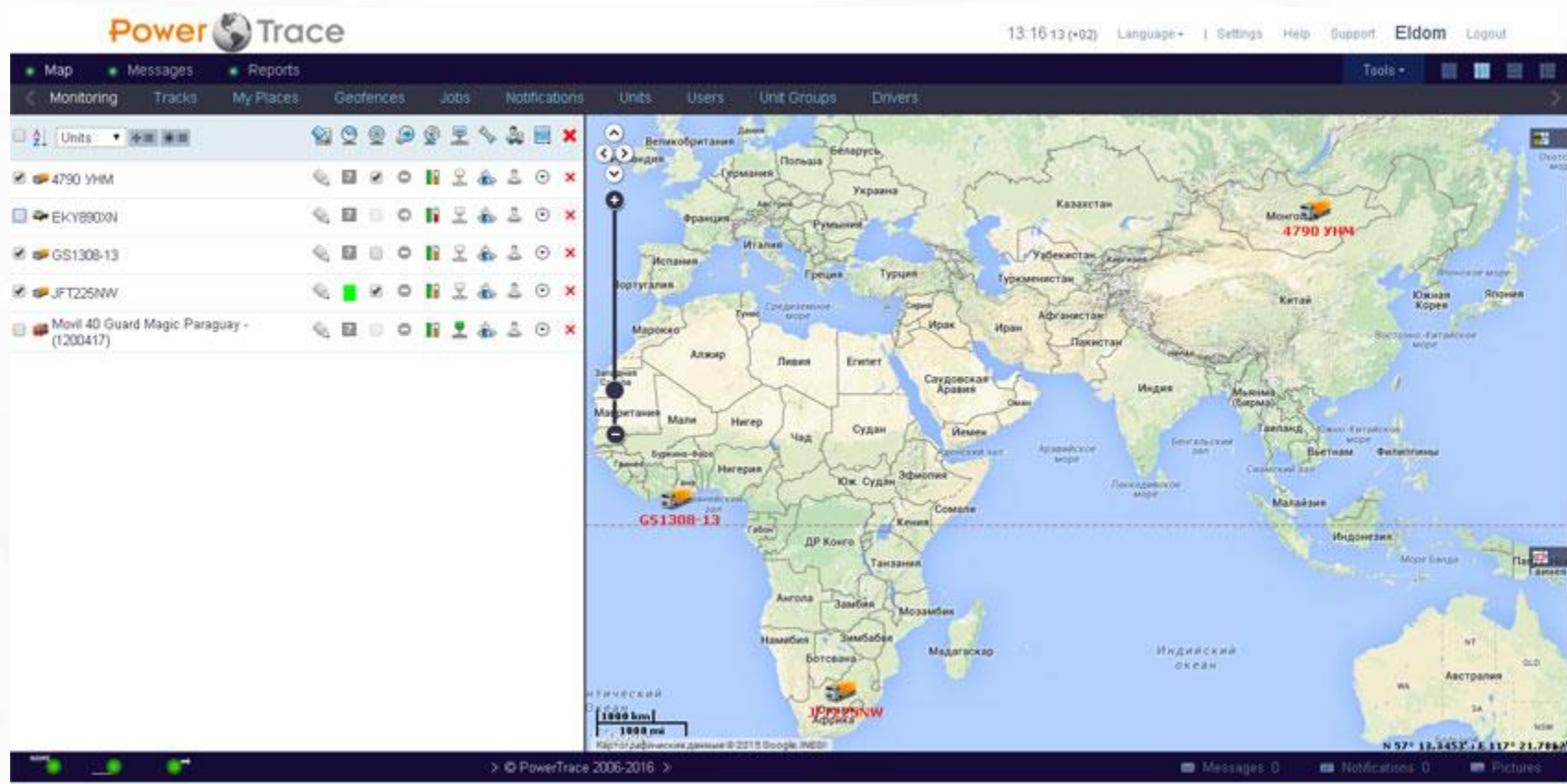
About Monitoring Software and Monitoring Service (Some Samples)

Vehicle on Electronic Map in Real Time

Vehicle on Satellite Image in Real Time

Vehicle Real Status

Road Fuel Tanker Real Status

About Monitoring Software and Monitoring Service
(Some Samples)

Vehicle Real Trip

Vehicle Real Trip

Vehicle Real Trip
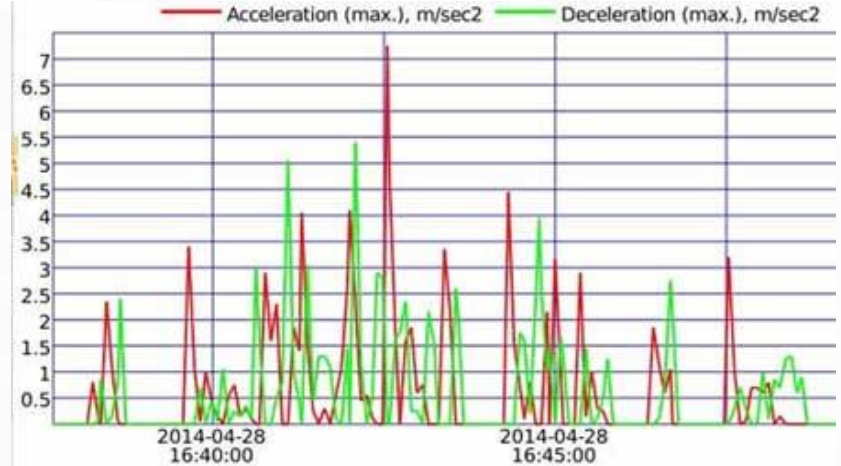

Agricultural Combain in Field

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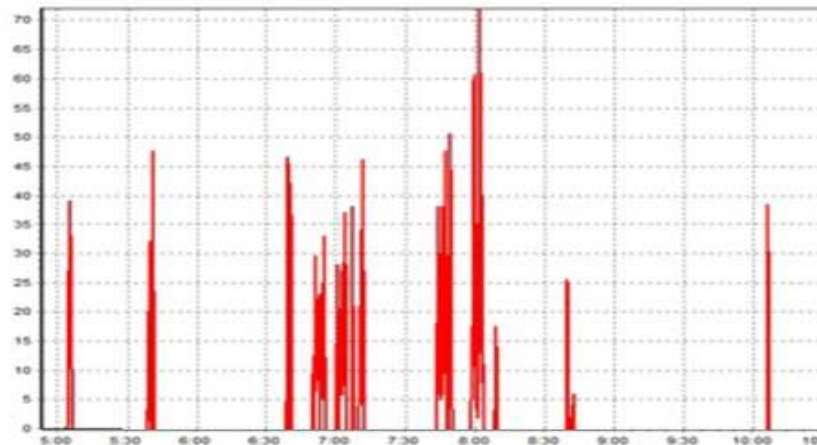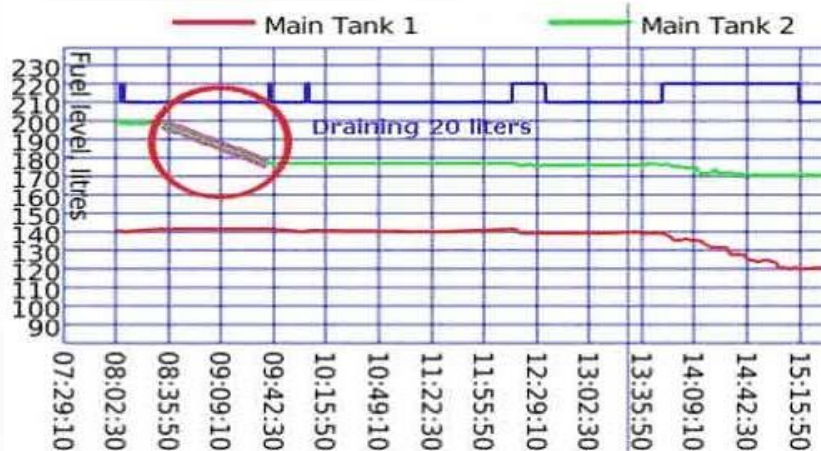
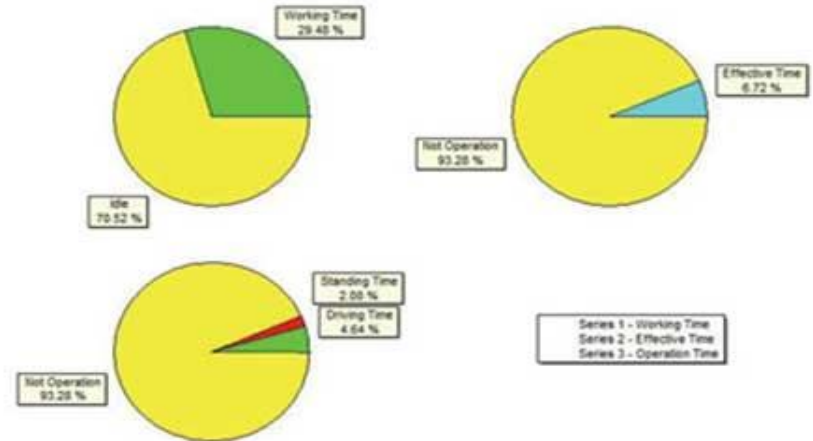# About Monitoring Software and Monitoring Service (Some Samples)
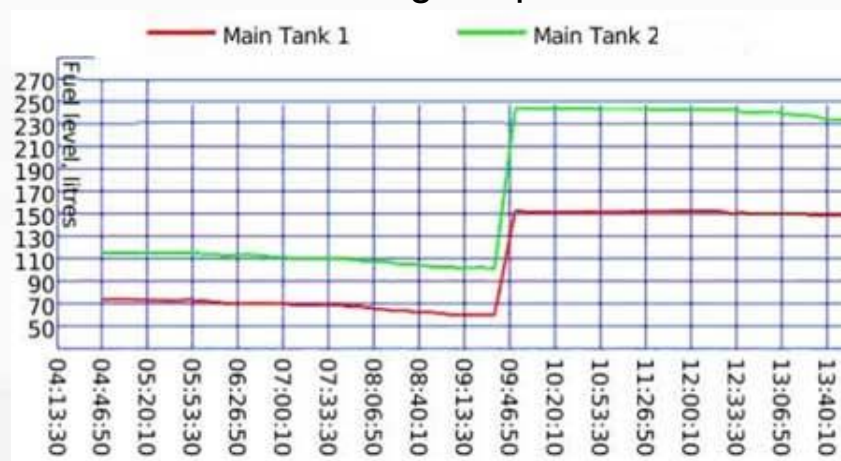
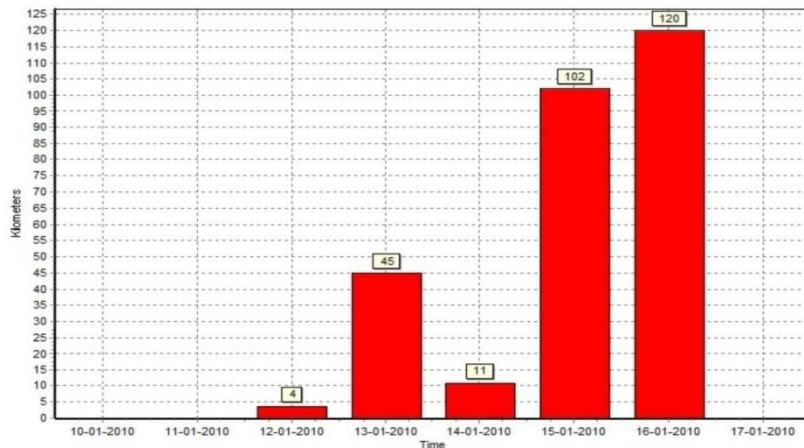# About Monitoring Software and Monitoring Service (Some Samples)
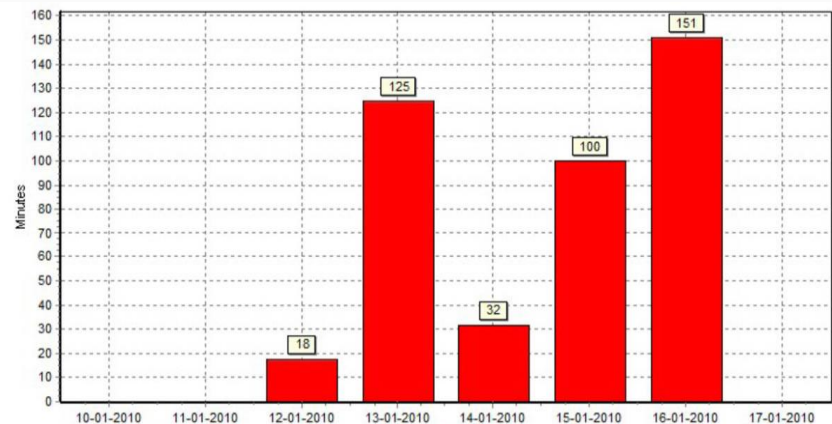

Fuel Draining Graph

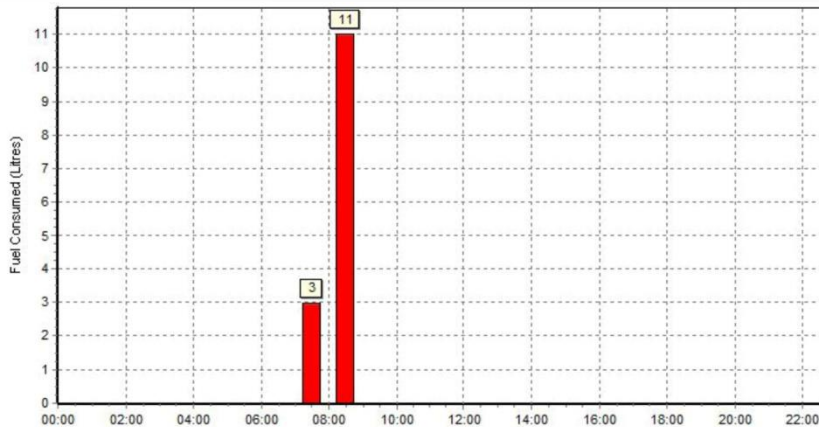Vehicle General Activity

Daily Driving Graph

Daily Activity Graph

About Monitoring Software and Monitoring Service (Some Samples)

Fuel Daily Consumption Graph

Vehicle Active Driver Report

Vehicle Name:	Toyota Hilux	Model:	
Plate Number:	BAM6076	Group:	
Time Period:	17 сен 2014 00:00 – 17 сен 2014 23:59		

Date Time	iButton code	Name	Pers ID
17-09-2014 0:09:26	000014FD1E81	Kenny Ken	
17-09-2014 1:33:18	n/a		
17-09-2014 3:38:48	000014FD1E81	Kenny Ken	
17-09-2014 4:33:19	000014FD1E81	Kenny Ken	
17-09-2014 5:23:25	n/a		
17-09-2014 5:54:06	000014FD1E81	Kenny Ken	
17-09-2014 6:03:50	n/a		
17-09-2014 6:11:53	000014FD1E81	Kenny Ken	

Detailed Starting Condition Report

Vehicle Name:	Toyota Hilux	Model:	
Plate Number:	BAM6076	Group:	
Time Period:	17 сен 2014 00:00 – 17 сен 2014 23:59		

Date Time	Start Type	First Name	Surname	Pers ID
17-09-2014 0:09:26	correct driver	Kenny	Ken	010256-11111
17-09-2014 1:33:18	without identification			
17-09-2014 3:38:48	correct driver	Kenny	Ken	010256-11111
17-09-2014 4:33:19	correct driver	Kenny	Ken	010256-11111
17-09-2014 5:23:25	without identification			
17-09-2014 5:54:06	correct driver	Kenny	Ken	010256-11111
17-09-2014 6:03:50	without identification			
17-09-2014 6:11:53	correct driver	Kenny	Ken	010256-11111
17-09-2014 6:39:03	without identification			

General Events Report

Vehicle Name:	Toyota Hilux	Model:	
Plate Number:	BAM6076	Group:	
Time Period:	17 сен 2014 00:00 – 17 сен 2014 23:59		

Operating Period (Calendar Days): 0
Operating Days per Period: 1
Distance: 231.092 km
Summary Working Time (hh:mm:ss): 23:59:54
Summary Effective Time (hh:mm:ss): 4:13:03

Date	Event Button	L1	L2	L3	Overheat	Wrong Start	No Authorization
17-09-2014	0	0	0	0	0	0	8

About Monitoring Software and Monitoring Service (Some Samples)

General

Vehicle Name:	hbkholding.com	Model:	
Plate Number:	KM1024	Group:	
Time Period:	2010-01-11 00:00:00 - 2010-01-18 00:00:00		

OPERATION
Operating Period (Calendar Days): 7
Operating Days (Working Days): 5

DISTANCE
Trip Distance: 348.939 km

TIME
Summary Working Time (hh:mm:ss): 128:31:36
Summary Effective Time (hh:mm:ss): 19:12:35
Summary Driving Time (hh:mm:ss): 9:19:54
Summary Idle Time (hh:mm:ss): 7:48:53
Summary Stand Time (hh:mm:ss): 9:52:41

PRODUCTIVITY
Using the Working Time: 77 percents
Effectiveness per period: 11 percents

EVENTS
Event Button Pressed (qty):0
L1 activation (qty): 0
L2 activation (qty): 0
L3 activation (qty): 0

NOT REGULAR SITUATION
Engine Overheat (qty): 0
Attempt To Start With Wrong Authorization (qty): 88
Attempt To Start Without Authorization (qty): 0

Utilization

Operating Period (Calendar Days): 31
Operating Days per Period: 21
Distance: 599.308 km
Summary Working Time (hh:mm:ss): 80:00:57
Summary Effective Time (hh:mm:ss): 32:12:11

Date	Using of Working Time	Effectiveness	Operating Time	Effective Time	Driving Time	Idle Time	Parking Qty
12/01/2010	10.93%	2.17%	2:37:25	0:31:12	0:18:37	0:08:01	1
13/01/2010	49.83%	15.77%	11:57:34	3:47:03	2:04:33	2:38:07	9
14/01/2010	44.68%	19.73%	10:43:23	4:44:05	0:31:47	2:45:05	7
15/01/2010	15.55%	9.47%	3:43:52	2:16:25	1:39:46	0:40:07	1
16/01/2010	49.34%	16.64%	11:50:29	3:59:40	2:31:43	1:15:52	6
17/01/2010	54.23%	16.26%	13:0:54	3:54:10	2:13:28	0:21:41	3
18/01/2010	48.63%	25.13%	11:40:16	6:01:54	4:14:13	0:36:52	3
19/01/2010	48.78%	20.18%	11:42:24	4:50:38	3:24:59	13:52:13	5
20/01/2010	11.43%	8.82%	2:44:40	2:07:04	1:08:36	0:09:39	1

Consolidated

Operating Period (Calendar Days): 31
Operating Days per Period: 21
Distance: 599.308 km
Summary Working Time (hh:mm:ss): 80:00:57
Summary Effective Time (hh:mm:ss): 32:12:11

Date	Work Starting	Work Finishing	Work Time	Distance (km)	Effective Time	Driving Time	Stand Time
12/01/2010	12/01/2010 9:02:07	12/01/2010 11:39:32	2:37:25	4.067	0:31:12	0:18:37	0:12:35
13/01/2010	13/01/2010 5:37:56	13/01/2010 17:35:30	11:57:34	44.940	3:47:03	2:04:33	1:42:30
14/01/2010	14/01/2010 4:53:58	14/01/2010 15:37:21	10:43:23	10.530	4:44:05	0:31:47	4:12:18
15/01/2010	15/01/2010 5:47:30	15/01/2010 9:31:22	3:43:52	101.100	2:16:25	1:39:46	0:36:39
16/01/2010	16/01/2010 4:59:37	16/01/2010 16:50:06	11:50:29	120.000	3:59:40	2:31:43	1:27:57
17/01/2010	17/01/2010 4:32:50	17/01/2010 17:33:44	13:0:54	68.300	3:54:10	2:13:28	1:40:42
18/01/2010	18/01/2010 4:26:43	18/01/2010 16:06:59	11:40:16	92.710	6:01:54	4:14:13	1:47:41
19/01/2010	19/01/2010 4:50:45	19/01/2010 16:33:09	11:42:24	118.300	4:50:38	3:24:59	1:25:39
20/01/2010	20/01/2010 5:15:19	20/01/2010 7:59:59	2:44:40	39.370	2:07:04	1:08:36	0:58:28

Fuel Usage

OPERATION

Operating Period (Calendar Days): 1
Operating Days (Working Days): 1

DISTANCE

Trip Distance: 0.447 km

FUEL TANK 1

Initial volume: 0.0 litres
Final volume: 0.0 litres
Minimal volume: 0.0 litres
Maximum volume: 0.0 litres
Fueling volume: 0.0 litres
Fuel drain: -25.0 litres

FUEL TANK 2

Initial volume: 0.0 litres
Final volume: 10.0 litres
Minimal volume: 0.0 litres
Maximum volume: 10.0 litres
Fueling volume: 20.0 litres
Fuel drain: 0.0 litres

FUEL TANK 3

Initial volume: 0.0 litres
Final volume: 0.0 litres
Minimal volume: 0.0 litres
Maximum volume: 0.0 litres
Fueling volume: 0.0 litres
Fuel drain: 0.0 litres

TOTAL FUEL

Initial volume: 0.0 litres
Final volume: 10.0 litres
Fueling volume: 20.0 litres
Summary fuel spent: -25.0 litres
Fuel drain: -25.0 litres
Fuel consumption: 0.0 litres;
Average consumption per 100 km: 0.0 litres;
Average consumption per 1 hour: 0.0 litres;

About Monitoring Software and Monitoring Service (Some Samples)

Vehicle Daily Activity Per Month

Operating Period (Calendar Days): 31
Operating Days per Period: 21
Distance: 599.308 km
Summary Working Time (hh:mm:ss): 80:00:57
Summary Effective Time (hh:mm:ss): 32:12:11

Date	Work Starting	Work Finishing	Work Time	Distance (km)	Effective Time	Driving Time	Stand Time
12/01/2010	12/01/2010 9:02:07	12/01/2010 11:39:32	2:37:25	4.067	0:31:12	0:18:37	0:12:35
13/01/2010	13/01/2010 5:37:56	13/01/2010 17:35:30	11:57:34	44.940	3:47:03	2:04:33	1:42:30
14/01/2010	14/01/2010 4:53:58	14/01/2010 15:37:21	10:43:23	10.530	4:44:05	0:31:47	4:12:18
15/01/2010	15/01/2010 5:47:30	15/01/2010 9:31:22	3:43:52	101.100	2:16:25	1:39:46	0:36:39
16/01/2010	16/01/2010 4:59:37	16/01/2010 16:50:06	11:50:29	120.000	3:59:40	2:31:43	1:27:57
17/01/2010	17/01/2010 4:32:50	17/01/2010 17:33:44	13:0:54	68.300	3:54:10	2:13:28	1:40:42
18/01/2010	18/01/2010 4:26:43	18/01/2010 16:06:59	11:40:16	92.710	6:01:54	4:14:13	1:47:41
19/01/2010	19/01/2010 4:50:45	19/01/2010 16:33:09	11:42:24	118.300	4:50:38	3:24:59	1:25:39
20/01/2010	20/01/2010 5:15:19	20/01/2010 7:59:59	2:44:40	39.370	2:07:04	1:08:36	0:58:28

Detailed Idle Time (Parking)

Total Quantity of Parking : 8
Total Idle time (Parking Time) : 02:35:59

Idle Time Begining	Idle Time Ending	Idle Time Duration	Latitude	Longitude
05:07:00	05:16:34	00:09:34	25.245501	51.4683
05:17:02	05:50:41	00:33:39	25.245501	51.4683
08:53:58	09:08:28	00:14:30	25.245501	51.4683
09:11:37	09:47:10	00:35:33	25.242701	51.472801
09:52:55	10:08:23	00:15:28	25.242701	51.472801
10:10:44	10:19:30	00:08:46	25.245399	51.4683
10:41:58	11:12:46	00:30:48	25.2428	51.4729

About Monitoring Software and Monitoring Service (Some Samples)

Driving Safety, Eco-Driving and Drivers Rating

TimePeriod:	01-09-2014 00:00 - 01-10-2014 00:00

Driver	Work Time hour:min	Overspeed Driving %	Milleage km	Speed		Acceleration			Deceleration			Total Points
				Max km/h	Avg km/h	Max m/s²	Avg m/s²	count per 100 km	Max m/s²	Avg m/s²	count per 100 km	
Ken Kenny	46:29	6	2880.2	116.0	71.3	2.15	0.25	0.69	2.90	0.25	6.46	30.1
Ron1 Ron1	23:53	0	967.5	104.5	52.9	1.85	0.30	2.07	2.85	0.35	13.02	24.5
Brunei 4 FES	2:33	0	93.3	95.5	40.5	1.65	0.20	1.07	2.50	0.25	7.50	17.4
RON 2 FES	0:00	0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Ivanov Alexey	0:00	0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0
RON RON	0:00	0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0

Vehicle Eco-Driving and Safety Driving

Report TimePeriod:	01 Sep 2014 00:00 – 30 Sep 2014 23:59
Report Created:	16 Oct 2014 15:51
Total Trips:	311

Mon, 01 Sep 2014
back to top

Driver	Time	Durations	Distance	Speed km/h		Acceliration m/s²		Deceleration m/s²	
				Maximum	Average	Maximum	Average	Maximum	Average
Ron1 Ron1	08:09:49 - 08:19:17	00:09:28	3.51	62.00	0.51	1.15	0.27	1.55	0.35
	08:40:54 - 08:43:23	00:02:29	0.60	46.50	0.53	1.50	0.39	1.20	0.28
	10:11:37 - 10:13:11	00:01:34	0.10	24.00	0.64	0.40	0.38	0.45	0.33
	10:33:39 - 11:03:35	00:29:56	1.25	39.50	0.62	0.90	0.31	1.40	0.48
	14:10:33 - 15:10:45	01:00:12	31.97	99.50	0.57	1.55	0.31	1.90	0.27
Ron1 Ron1	17:14:10 - 17:32:36	00:18:26	2.83	58.50	1.67	1.30	0.43	2.10	0.56
Total Trips: 6		02:02:05	40.28	99.50	0.75	1.55	0.35	2.10	0.38

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About Monitoring Software and Monitoring Service (Some Samples)

Fleet: Speed Violation Overview

Report TimePeriod:	01 сен 2014 00:00 – 30 сен 2014 23:59
Report Created:	22 ноя 2014 23:34
Total Violations:	93

Toyota Hilux   back to top

Driver	Date	Durations	Speed km/h			Location
			Treshhold	Maximum	Average	
Kenny Ken	Вт, 16 сен 2014, 16:42:26	00:01:00	10	110	109	4.967330; 114.864708
Kenny Ken	Вт, 16 сен 2014, 16:45:11	00:00:40	10	110	110	4.983040; 114.902664
Kenny Ken	Вт, 16 сен 2014, 16:51:16	00:00:35	2	102	102	4.990260; 114.970078
Kenny Ken	Вт, 16 сен 2014, 16:53:41	00:00:40	2	102	102	5.008890; 114.999962
Kenny Ken	Вт, 16 сен 2014, 16:54:56	00:00:40	4	104	103	5.024330; 115.010925
Kenny Ken	Ср, 17 сен 2014, 00:58:34	00:00:40	14	114	114	4.988310; 114.920853
Kenny Ken	Ср, 17 сен 2014, 16:57:08	00:00:40	6	106	106	4.580330; 114.244324
Kenny Ken	Ср, 17 сен 2014, 17:52:48	00:00:45	7	107	107	4.832380; 114.751640
Kenny Ken	Ср, 17 сен 2014, 17:53:58	00:00:55	2	102	102	4.836200; 114.768616

Fleet: Acceleration/Deceleration Violation Overview

Total Violations:	465

Toyota Hilux   back to top

Driver	Date	Acceleration m/s²	Deceleration m/s²	Location
Ron1 Ron1	Вс, 31 авг 2014, 16:16:39		1.55	4.577730; 114.204803
	Вс, 31 авг 2014, 22:12:08	1.55		4.571930; 114.202667
	Вс, 31 авг 2014, 22:36:03		1.70	4.597680; 114.276459
	Вс, 31 авг 2014, 22:43:13		1.65	4.617760; 114.324951
	Вс, 31 авг 2014, 23:02:13		1.65	4.591250; 114.257507
	Вс, 31 авг 2014, 23:03:08		1.90	4.588630; 114.249687

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About Monitoring Software and Monitoring Service (Some Samples)

Trip Overview

Mon, 01 Sep 2014   back to top

Driver		Time	Durations	Distance	Speed km/h		Accelieration m/s²		Deceleration m/s²	
					Maximum	Average	Maximum	Average	Maximum	Average
	Ron1 Ron1	08:09:49 - 08:19:17	00:09:28	3.51	62.00	0.51	1.15	0.27	1.55	0.35
		08:40:54 - 08:43:23	00:02:29	0.60	46.50	0.53	1.50	0.39	1.20	0.28
		10:11:37 - 10:13:11	00:01:34	0.10	24.00	0.64	0.40	0.38	0.45	0.33
		10:33:39 - 11:03:35	00:29:56	1.25	39.50	0.62	0.90	0.31	1.40	0.48
		14:10:33 - 15:10:45	01:00:12	31.97	99.50	0.57	1.55	0.31	1.90	0.27
	Ron1 Ron1	17:14:10 - 17:32:36	00:18:26	2.83	58.50	1.67	1.30	0.43	2.10	0.56
Total Trips: 6			02:02:05	40.28	99.50	0.75	1.55	0.35	2.10	0.38

Vehicle Utilization Report

Vehicle Name:	Toyota Hilux	Model:	
Plate Number:	BAM6076	Group:	
Time Period:	17 сен 2014 00:00 – 17 сен 2014 23:59		

Operating Period (Calendar Days): 0
Operating Days per Period: 1
Distance: 231.092 km
Summary Working Time (hh:mm:ss): 23:59:54
Summary Effective Time (hh:mm:ss): 4:13:03

Date	Work Start - Work Finish	Work Time	Work Time %	Distance (km)	Effective Time	Effectivity %	Driving Time	Stand Time	Parking (pcs)
17-09-2014	0:00:00 - 23:59:54	23:59:54	1E2	231.09	4:13:03	18	3:58:03	0:15:00	16

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About Monitoring Software and Monitoring Service
Road Tanker: Fuel Compartments Unloading

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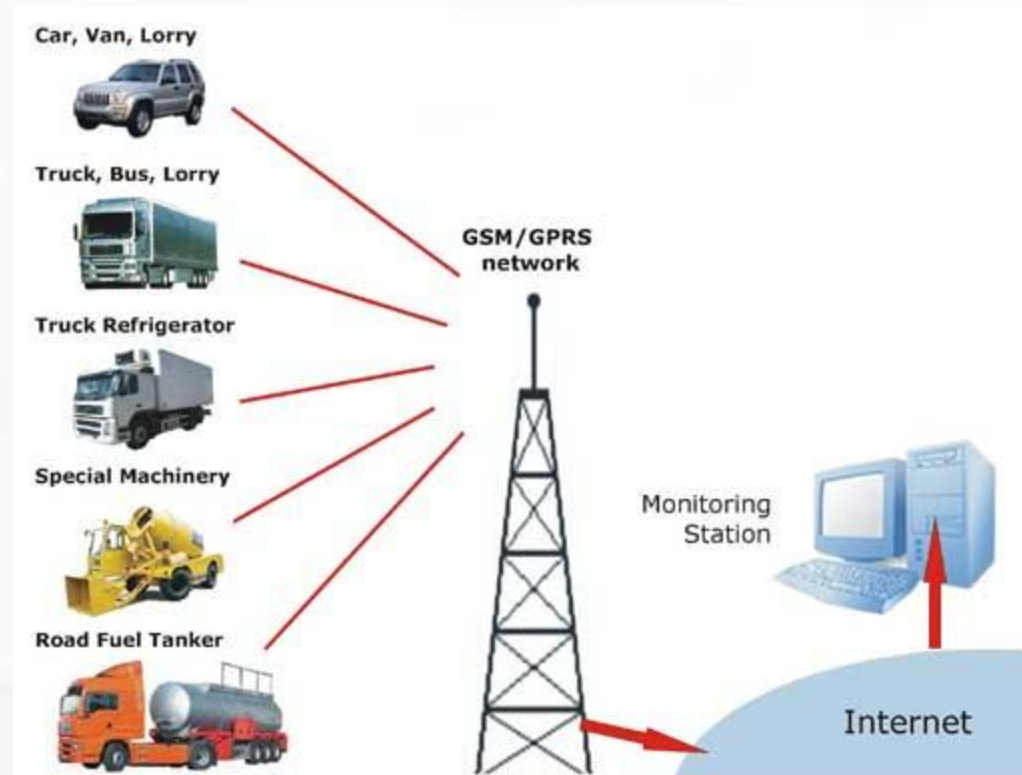
About VehicleStation, FleetStation Monitoring Software

Vehicle Station and FleetStation are the series of a special program intended for "Real Time" mobiles and stationary objects monitoring (All-In-One monitoring software).
 VehicleStation (FleetStation) give you secure access to all your vehicle in any part of the world.
  Monitoring software located in your office server (office PC) and all information about your vehicle located only in your office.
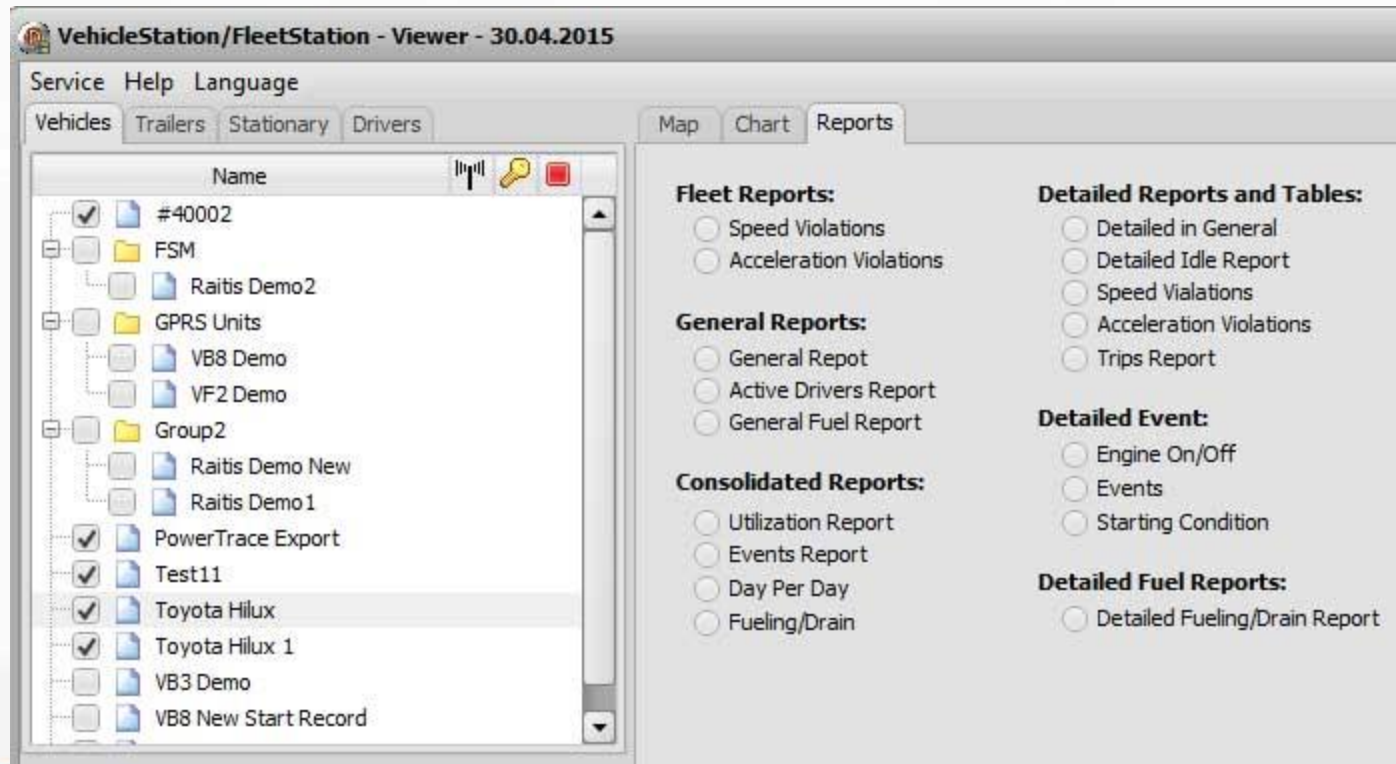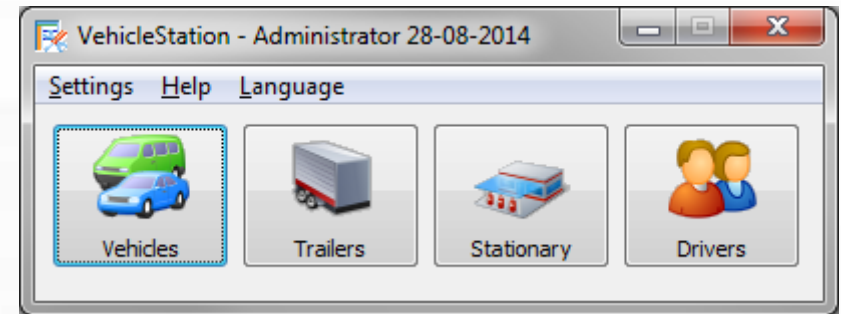
VehicleStation (FleetStation) monitoring software gives the following:
-Online tracking of your vehicles 24/7/365;
- Monitor trailers and your drivers;
- Overview of trips, parking and stop times;
-Online fuel monitoring;
-Online temperature monitoring;
- Generation different reports and graphs;
- Easy reporting;
- Comfortable monitoring center configuration;
- Data storage up to: depend only of your wishes (hard drive size).
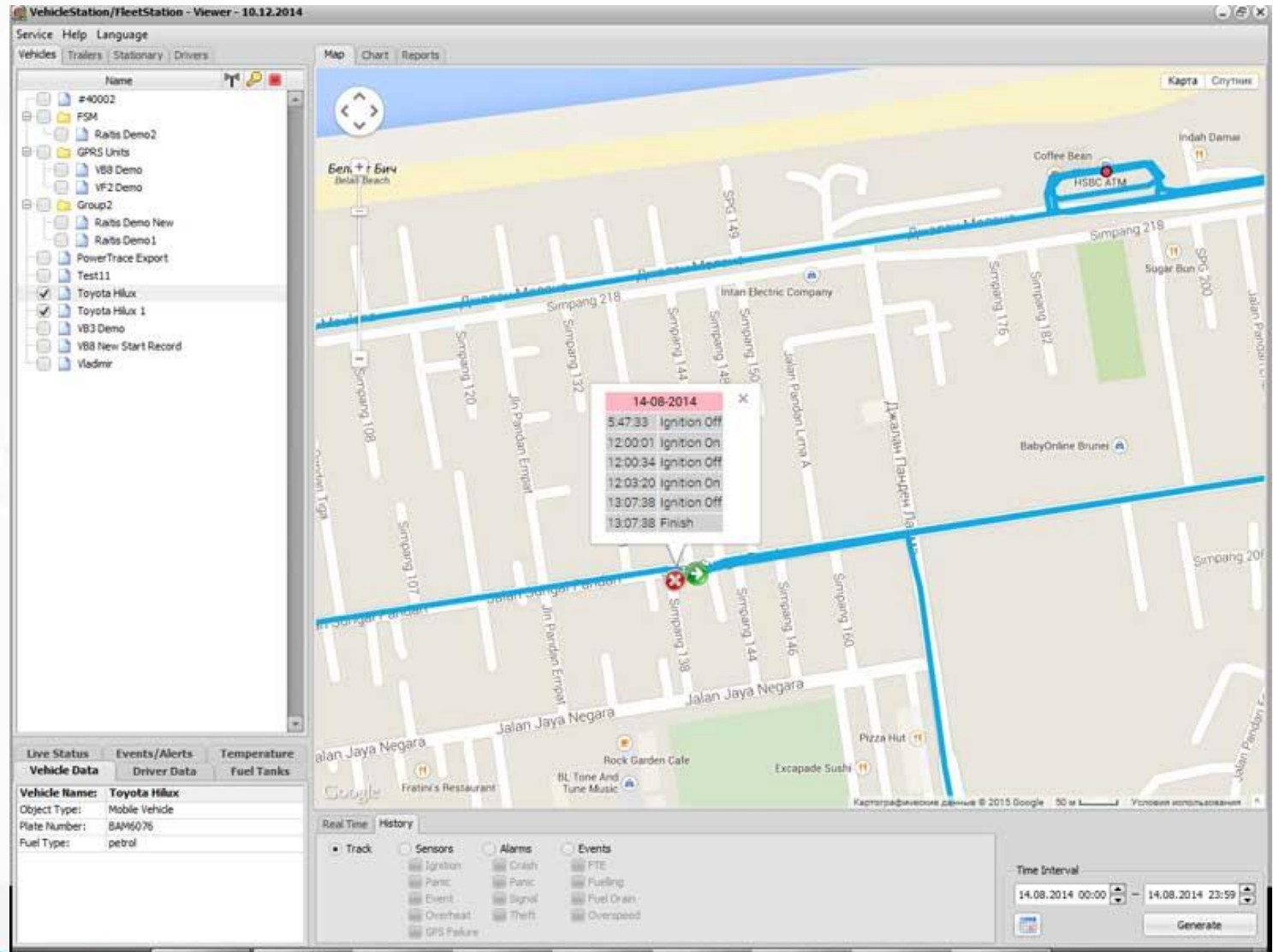

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About VehicleStation, FleetStation Monitoring Software

Monitor: Vehicle, Driver, Trailer

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About VehicleStation, FleetStation Monitoring Software

Main

Operation

Window

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WEB Based Monitoring. (PowerTrace Monitoring Service)

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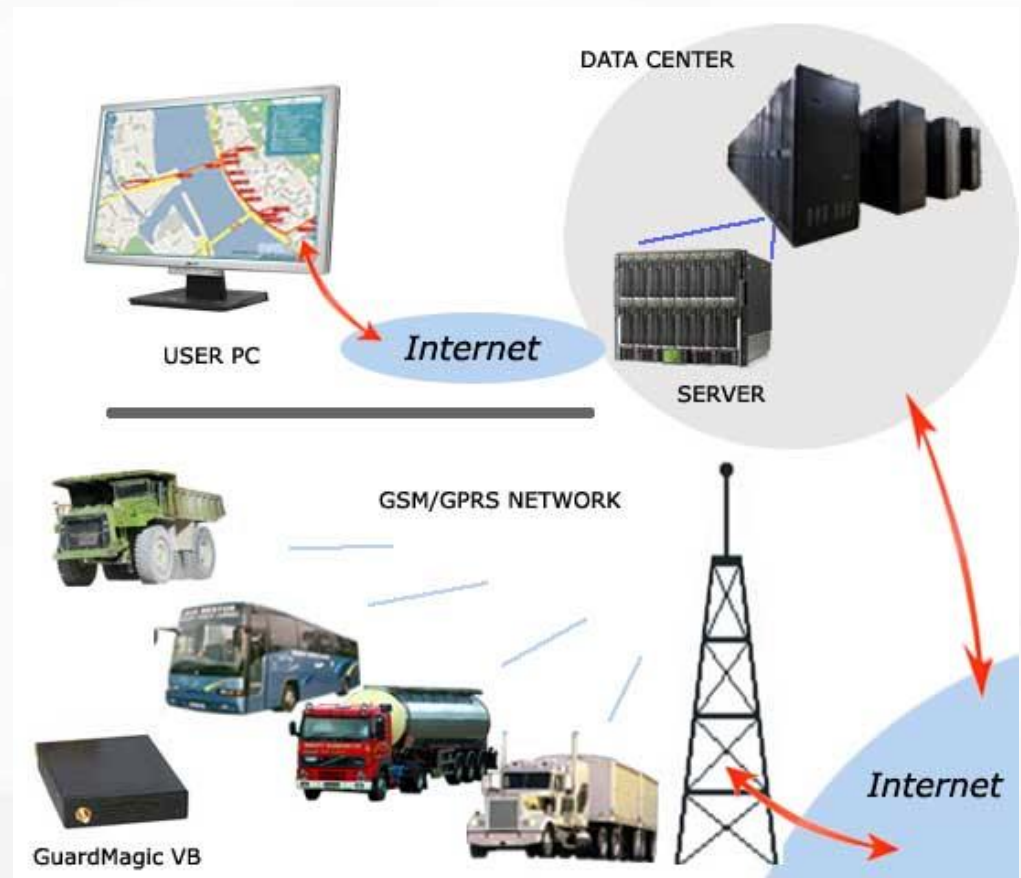www.tankercontrol.com
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About PowerTrace Monitoring Service

WEB based PowerTrace monitoring service give you 24-hour secure access to all your vehicle from any PC in any part of the world.
  WEB based system does NOT require any software installation or any your support of system operation. The only requisite is a computer with internet access.

Powerful PowerTrace web based vehicle monitoring service give the following:
- Online tracking of your vehicles 24/7/365;
- Overview of trips, parking and stop times;
- Geofencing institution;
- Online Fuel monitoring;
- Generation different reports and graphs;
- Automatic reporting;
- Alerts and warning sending;
- Data storage up to 15 months;
- Information downloaded in XML, CSV for management information;
-Online monitoring via Smartphone.

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