U TRACK®

TOTAL CONTROL

ADVANCED FLEET MANAGEMENT SYSTEMS

FUEL PRO®

ADVANCED FUEL MANAGEMENT AND MONITORING SYSTEM VALUE PROPOSITION

BENEFITS TO OUR CLIENTS

UTRACK'S FUEL PRO OPTIMIZES REVENUE

Great returns on investments

At utrack we strive to ensure that our clients maximize their returns with our solutions. With our technology focused on OPEX savings, we equipped our clients with technology to reduce significant operational cost. Thus, we are proud to have saved millions for our clients with our solutions.

Customization - Suit your fleet needs

Finding the right solution has never been easy, and we understand that. Thats why, we provide a one-stop platform for all your needs. Our Triton K2 hardware can be tailored accordingly from fuel management to engine diagnostics. Furthermore, our ZONMAX Software is designed to allow full customisation of reports, events, user's management and much more.
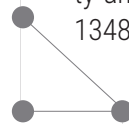
World Class - Service & Support

Fleet management requires heavy responsibilities with a plethora of mobile assets on the move each time. Alongside providing a stable and reliable technology, we are investing heavily providing our partners and clients with exceptional services and support.

Quality 100% Guaranteed

Our solutions at Utrack are developed in-house and undergo strict quality assurance to ensure excellent performance of our products. The manufacturing process is of substantial quality and certified to comply with: ISO 9001, ISO 13485, ISO 14001, AS 9100.

Superior technology innovation attentiveness to client needs.

Proven large-scale deployments with large scale clients in hard and challenging enviroment.

Secure platform with redundant data centers and intergration tools to easily intergrate Utrack products into existing systems.
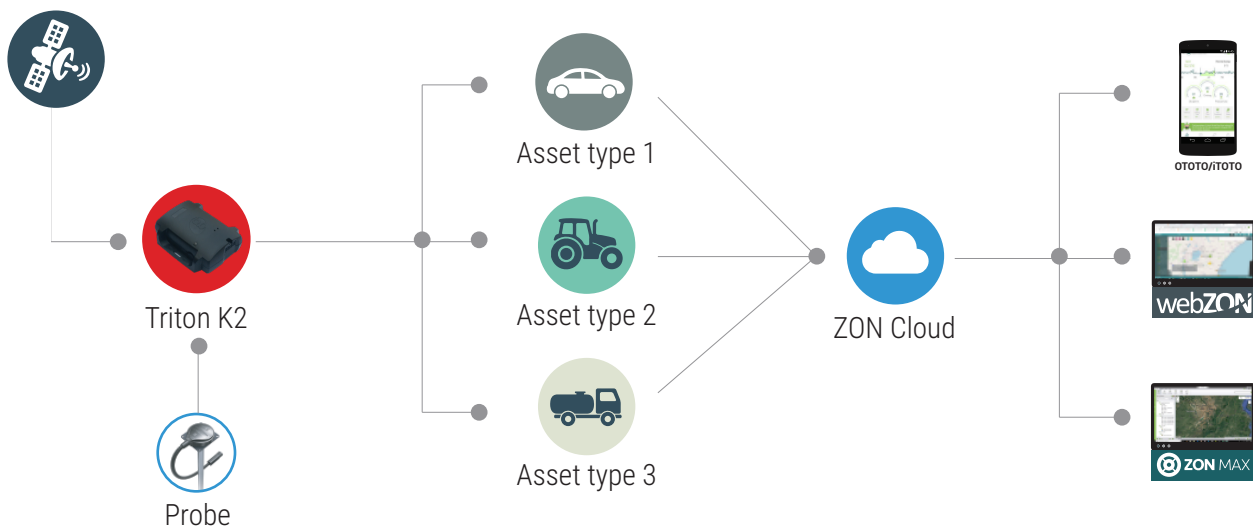
**Utrack
the partner of choice
for your fleet
management solutions.**

Become a Utrack customer today

Utrack provides high-end fleet management solutions for a variety of industries. The solutions includes Fuel Management, Vehicle Tracking, Driver Behaviour, Engine Diagnosis and more.
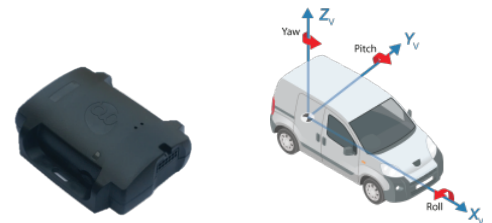
UTRACK FUEL SYSTEM ARCHITECTURE

HIGH-END HARDWARE BACKED BY EXCEPTIONAL CLOUD SERVICE

Triton K2

Probe

Asset type 1

Asset type 2

Asset type 3

ZON Cloud

OTOTO/iTOTO

webZON

ZON MAX

| HARDWARE K2 | ASSETS | CLOUD SERVER | END USER |

TRITON K2 SPECIFICATIONS
STATE OF ART TECHNOLOGY IN YOUR HANDS

Features		
Power Supply	9-30V	
Power Consumption	Full power mode	0.5 W average (Approx) @12v approx.35mA
	Low power mode	0.2 W average (Approx) @12v approx.12mA
	Deep low power mode	250uA (approx)
Internal backup battery	Li-Ion 950mA	
GSM/GPRS	Internal Antenna	
	Quad Band GSM/GPRS 850/900/1800/1900MHz	
	Quad band GSM/GPRS class 10	
GPS	Antenna Type	Internal
	Active Channels	48
	Sensitivity	-163 db
Driver Identification	Dallas button/ Keypad/ RFID cards	
General Purpose Inputs	Up to 5 general purpose inputs, can be configured to analog or digital mode separately.	
	Analog 2 can be configured to read an NTC temperature	
Outputs	Dedicated Immobilizer Output	
	Dedicated in vehicle alert buzzer output	

The Triton K2 unit has a built in accelerometer with 0.001g sensitivity for extremely accurate measurement of vehicle road behaviour.

Utrack's Triton K2 is able to connect directly to mobile assets fuel sender line (analog and pulse), engine computer and external fuel sensor. Thus able to extract real and accurate fuel data from any available fuel source.

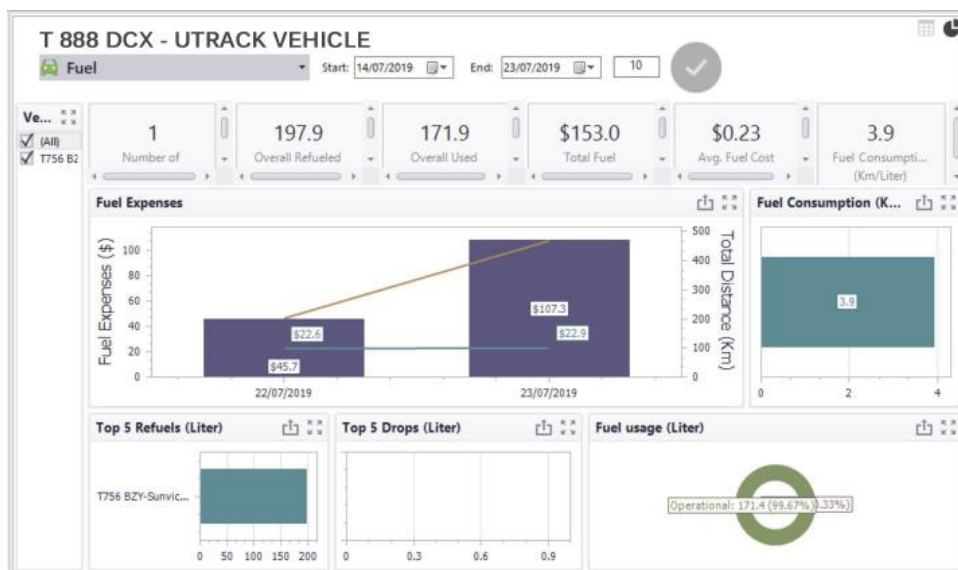|	
Memory Logger	7500 mesages (Approx)
Storage Temperature	-40 -85 Celsius
Working Temperature	-20 -70 Celsius
Max. Relative Humidity	90%
Weight	120g (Approx)

UTRACK - FUEL MONITORING

UTRACK's sophiscated fuel algorithm provides real fuel level data and not statistical calculations based on mileage. The fuel activity reports provide a comprehensive breakdown of fuel cycle; consumption rate, refuelling, fuel drop events and general fuel trends. It detects irregular fuel activity and provide reports in order to stop fraud and unauthorized behaviour.

Thus, fuel theft and fraud can easily be detected and alerted. WebZON and ZON MAX smart dashboard provide an instinctive overview to track all the nescessary data to prevent theft and fraud.
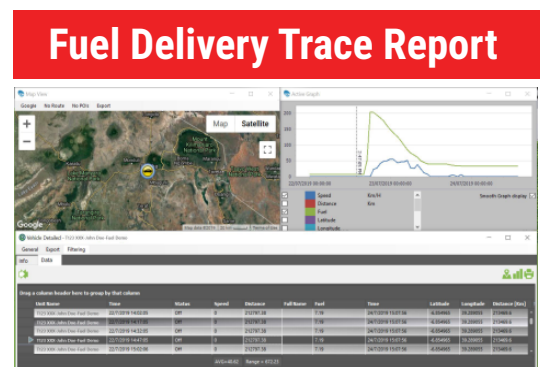
Fuel Usage Graphs and Charts

Utrack is able to monitor fuel in almost every known asset type and fuel tank shape.

The fuel level in the tank is then monitored in real time through:-

- **Existing Fuel Sendor** - Utrack's unit is connected directly to this sender's wires through its analogue input. These fuel senders are usually mechanical, and their purpose is to give indicative fuel level for the vehicle dashboard.

- **Vehicle Engine Computer** - The engine computer collected the raw data information from the same fuel sendor described above and Utrack's unit communicates with the engine computer through several types of communication protocols available.

- **Dedicated Fuel Sensor** - An external liquid level sensor is put into the fuel tank for 24/7 fuel monitoring.

- Consumption of fuel is monitored and recorded as:
  - How much fuel was filled in the vehicle
  - How much fuel was consumed
  - How much fuel was drained or siphoned

Fuel Delivery Trace Report

WIRELESS FUEL LEVEL SENSOR
UTRACK TD-BLE

The first wireless capacitive fuel level sensor on the market with Bluetooth Low Energy (BLE) technology!

This isn't just another innovation. It's an evolutionary leap into the wireless future of transport telematics!

IT'S NEVER BEEN EASIER TO INSTALL A FUEL MONITORING SYSTEM.

Installing and configuring traditional fuel level sensors takes a long time. The lack of wires will finally eliminate the tedious, time-consuming and more costly process of laying cables through the entire vehicle system. No wires - no problem.

Along with this, the risk of vandalism associated with interference with electrical wiring is eliminated. Moreover, the information on fuel is transferred to the control system as quickly, in the same volume and with the same accuracy as on wires.

Just imagine how much time, effort and money you can now save!

7 YEARS OF CONTINUOUS OPERATION FROM JUST ONE BATTERY.

Lithium-thionyl chloride batteries and, of course, Bluetooth 4.0 technology with low-energy feature, are the guarantee of long-term use of the sensor without replacing batteries. Thanks to Bluetooth Low Energy, the wireless fuel level sensor is able to perform its work from a single battery for several years.

NEW, ROBUST, AIRTIGHT, SHOCKPROOF PROTECTION.

"UTRACK TD-BLE" enclosure is equipped with an additional protective casing made of impact-resistant polyamide and is distinguished by high endurance to various mechanical damages on all types of vehicles, special equipment, in stationary tanks and containers.

The function of the device will not be affected by polarity inversions, voltage surges, interference and attempts to deliberately disrupt its performance, for example, with a stun gun. Any unauthorized interference with the TD-BLE will be recorded in the monitoring system.

The sensor is safely isolated from dust and moisture ingress as its housing has IP69 protection degree according to GOST 14254. Stable operation of the equipment will not be disturbed by critical changes in temperature (-30 … +85 °C) and atmospheric pressure (84 … 106.7 kPa). Due to thermal compensation algorithm "UTRACK TD-BLE" automatically corrects the fuel level when the exterior environment characteristics change.
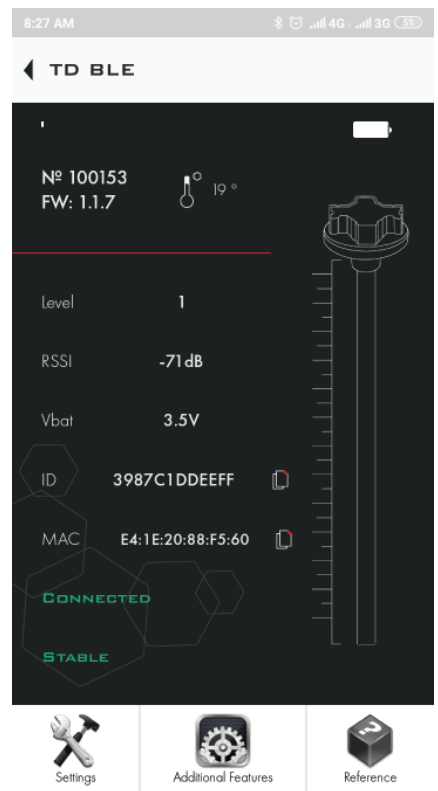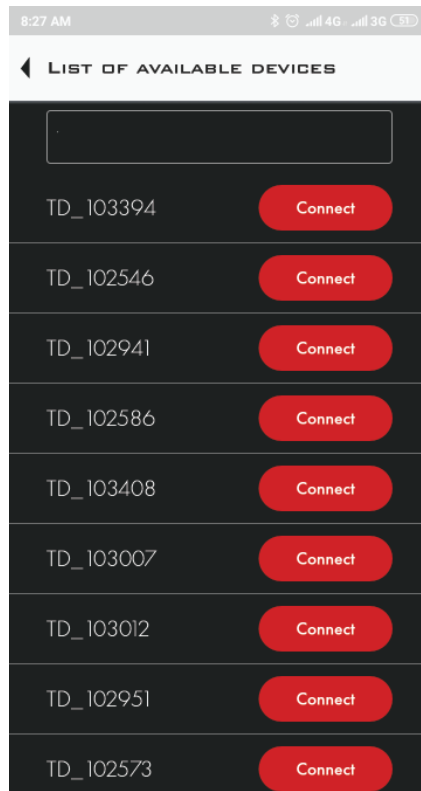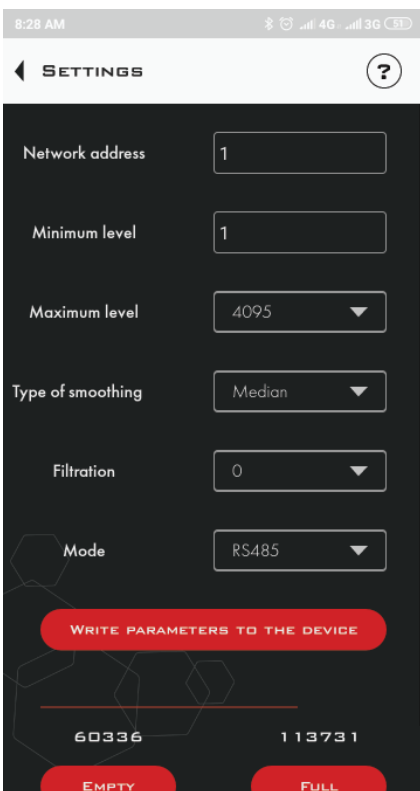
Even in the most extreme operating conditions the "UTRACK TD-BLE" sensor guarantees continuous and accurate monitoring of fuel consumption!

COMPLIANCE WITH EXPLOSION PROTECTION REQUIREMENTS.

"UTRACK TD-BLE" Fuel level sensor fully meets the requirements of the Technical Regulations of the Customs Union 021/2011 "On the safety of equipment for work in explosive environments. This is confirmed by EAES certificate No. RU C-RU.AD07.V.00706/19. Thus, the sensor can be officially used for transportation of dangerous goods in the Eurasian Economic Community space, including Russia, Belarus, Armenia, Kazakhstan and Kyrgyzstan. For this purpose, it features an explosion-proof enclosure, enhanced class "e" protection, intrinsic safety and other mandatory emergency protection measures.

SETTING UP FROM THE SMARTPHONE.

Your employees don't need to carry laptops anymore, as the configuration can now be done simply by using the user-friendly mobile application installed on your phone. The range of the bluetooth signal is at least 10 meters and up to 100 meters (provided there is no interference or obstacles). Handy, isn't it?

COMPATIBLE WITH POPULAR TRACKERS

"UTRACK TD-BLE" wireless fuel level sensor is compatible via Bluetooth Low Energy (BLE) with popular GLONASS/GPS trackers of such brands as Teltonika, Navtelecom, Neomatica, Queclink, Galileosky, Vega-Absolute, Fort Telecom, Glomos.

**Connection to all other types of satellite navigation systems with RS-485 LLS interface is possible via BLE-BASE wireless adapter. The adapter connects directly to the tracker and provides a wireless bridge between BLE-BASE and the wireless fuel level sensor "UTRACK TD-BLE".

TECHNICAL CHARACTERISTICS

Operation mode:	digital
Digital mode: - interface - communication protocol	Bluetooth LE (BLE) Escort BLE
Measuring error, maximum:	1%
Range (at normal conditions in the absence of interference and obstacles when working with the base):	up to 100m
Receiver sensitivity / transmitter power:	-90 dB / 0 dB
Ingress protection by GOST 14254:	IP69S
Operation conditions: - normal operating temperature range - extreme temperature range - atmospheric pressure	-45 … +50 °C -60 … +85 °C 84 … 106,7 kPa
Overall dimensions:	no more 80x80x(L+21)mm, where L– length of tubes
Length of measuring tubes:	from 1m to 6m
Weight, maximum:	0,5 kg

FUEL PRO ADDITIONAL FEATURES:
SMARTER FLEET MANAGEMENT

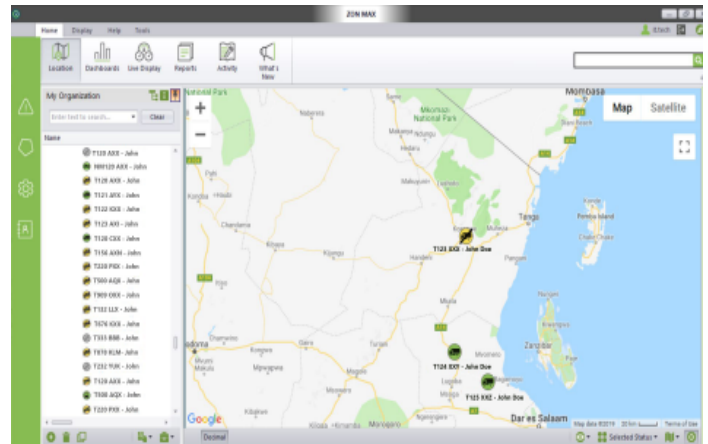## Asset Tracking & Management

Visualize your fleet

Track your assets location and status in real time. Filter your display by fleets and groups, color and region.

Live Update

Real-time traffic and address search. Optimized with google maps.

Geofencing & Unordinary driving hours

Utrack ZON MAX allows clients to set geo-locations either as a Place of Interest (POI) or a Geofence. Whenever the driver leaves or enters these locations, an event and alert is sent.

Driver Identification
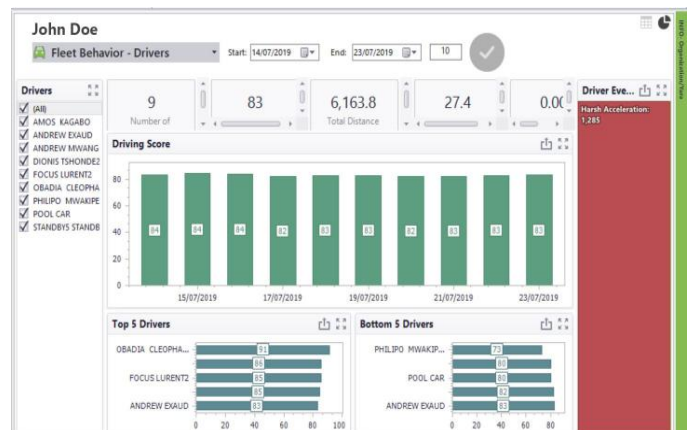

Immobilizer

Dallas Key

Utrack solutions enables the user to choose between various number of driver identification methods. (Dallas, RFID Cards, Numeric Keypad etc.) The driver identification enables to eliminate unauthorised car use by connecting one of the above methods to the immobilizer. Moreover, the driver identification feature can be used to manage the drivers profile.

Managers can mobilize and immobilize the vehicle remotely using Utrack Software or via direct SMS command.

Driver Behavior

Utrack driver behavior summary provides information on drivers performances over the course of the desired time period. The driver behavior summary uses Galooli's algorithm to calculate the grade for each driver. The chart reflects both the top 5 drivers and the worst 5 drivers and vehicles.
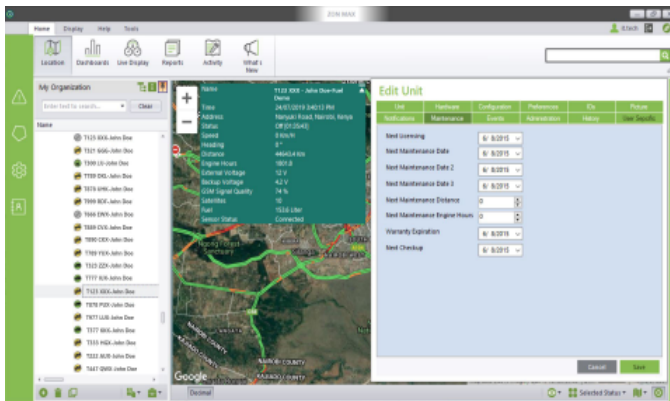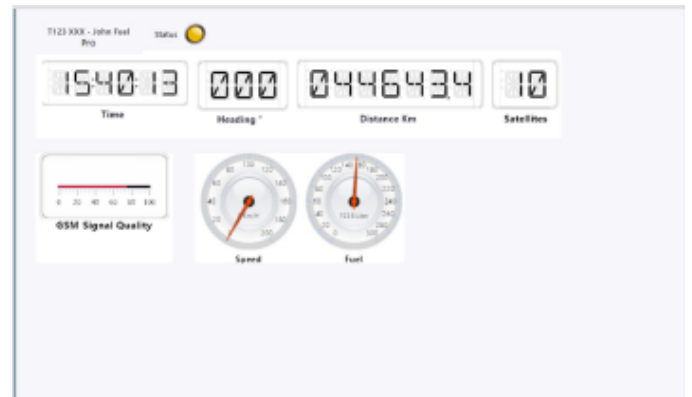
Thus fleet managers can take action with the information provided to enhance their business productivity and safety of the vehicles.

FUEL PRO ADDITIONAL FEATURES:
SMARTER FLEET MANAGEMENT

Engine Diagnostics

Utrack's platform enables the user to get the engine diagnostics information from various sources. (FMS, ELM 327, OBDII, CAN-bus) This data enables the user to see the current status of the engine parameters (such as oil temperature coolant temperature, engine load and etc.) as well as recognising trends, thus it enables preventive maintenance and alerts upon abnormal engine performance.

Engine Maintenance & Trends

Fleet Management can improve customers' satisfaction and grant companies efficiency by monitoring severe safety and misuse events. Maintenance alerts are optimized according to the clients requirements and assist in scheduling neccessary repair works. Such information can also be used by customers to shop for an optimized service in terms of location, duration and cost.
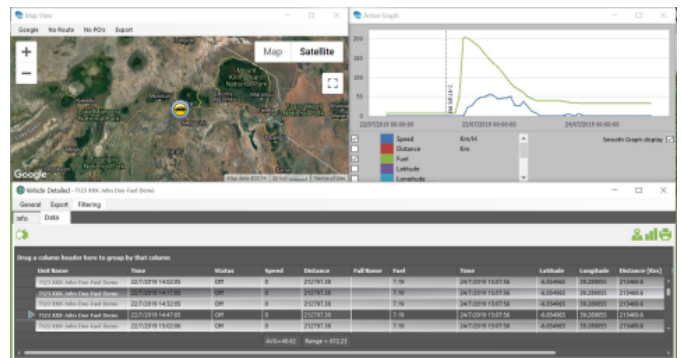
ZON MAX:

CONNECTED BUSINESS INTELLIGENCE

Our Platform

Internet of things (IoT) and Machine to Machine (M2M) solutions now provide new opportunity to create and deliver value. Data from connected assets, devices and sensors can enhance business processes, enrich customer processes, and provide dramatic insights into the physical world. Intelligence acquired from connected assets will drive unprecedented business innovation.

ZON MAX

The core of Utrack's technology is based on the ZON MAX platform. The proprietary ZON MAX allows for the development , customization and management of end-to-end applications and services for the Remote Performance Monitoring (RPM) industry, ZON MAX enables cross-platform multi application solutions for a variey of users, and a unique modular support of systems tailored to customer's needs.

Events & Alerting

Events

ZON MAX real time events engine allows you to enter business rules and receive notifications of violations so you can control your assets instead of them controlling you!!

Alert Systems

Customize your alerts to advisory, caution or warning and set them to be sent via SMS, E-mail and Pop-up, Choose to whom you send which alert and get statistic report and trail of alerts.
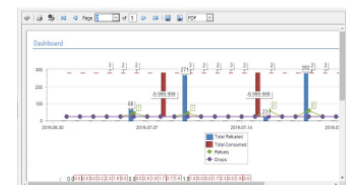
Multizon™

Utrack's ZON MAX boasts the ability of being able to add 4 individual events and use the "and/or" logic to create 1 unique MultiZON event. This allows the administrator to receive unique alarms which is unachievable in any other operation management programs.

Customized Reports

ZON MAX offers you with a real reporting engine. We believe data provided by the system has to meet your exact needs, so we let you choose your data. Run reports by vehicle, fleet, group or drivers. All are generated in an easy-to-read format that can be printed, saved or set to send automatically to one or more reciepients. Most reports allow you to jump to the detailed map view in one click. You can also save your setup for one-click reporting.

ZON MAX:
CONNECTED BUSINESS INTELLIGENCE

Live Video

ZON MAX allows managers to see live video streaming coming from their assets in real time. Mobile DVR devices mounted in the assets can display a live high quality video of up to 4 channels. This feature is usually required for safety reasons and can be applied on public transportation or any other high value assets.

Mobileye Intergration

Mobileye is a driver assistance systems (DAS) providing safety warning to drivers based on image recognition. Mobileye can be easily intergrated into ZON MAX allowing you to receive real time warnings of unsafe driving thus improving safe driver behaviour exceedingly.

Web & Mobile App

WebZon is designed to provide user access from every web browser and is accessible from all devices i.e PC, Mac, Tablets and more. Our web based application is created to provide our clients with an ease of use and flexibility.

OTOTO/iOTOTO is an initutive application for smartphones, enabling end users to easily track and monitor their fleet or vehicle as well as getting real time alerts on the go.

TARGET YOUR NEEDS WITH THE RIGHT SOLUTION

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