Technical Details

Vehicle Tracking Solutions

Brief Overview

Track Innovative Technologies Limited is a one stop IT solution provider specializing in vehicle tracking and security solutions and services. We import accessories and devices from China, Taiwan, UK and America and assemble them here, design necessary hardware and write the necessary software and offer them as a complete solution. We further provide automation and remote monitoring and control solutions for semi automatic industries.

Our core tracking service allows our clients to keep track of their valuable possessions. We provide tracking solutions for cars, trucks, motor cycles, entire fleets, cargo containers and even individuals.

Our product is customized to the needs of the customer and features can be added or removed as desired. The client has the option to monitor fuel usage, load carried, number of passengers in the vehicle, temperature, AC on/off status, RFID readers, pretty much any measurable quantity. We would further like to bring GPS systems for commercial vehicles like taxis, buses and three wheelers. We have developed the product as per BTRC guidelines and would be very transparent with government agencies so that our operations can be monitored in accordance to state regulations.

Our organization consists of a management team, focusing on R&D, planning and operation and a separate execution team that deals with installation and troubleshooting. We have a finance and legal team to maintain our accounting and paper work.
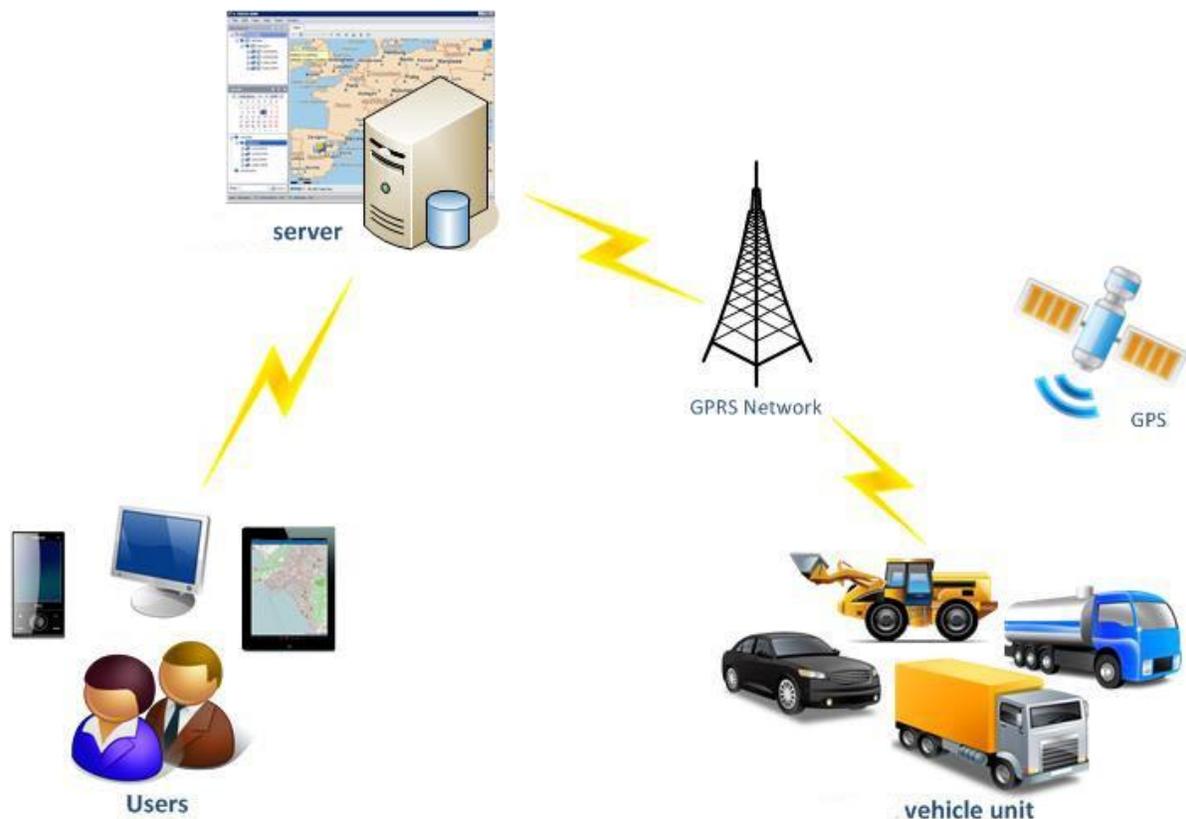
Why use Trackers?

Bangladesh, being a fast developing economy, is having rapid growth in all sectors over the last decade. Industrialization has gone up rapidly, thus new jobs have been created and a big middle class has sprung up. As the public transport sector hasn't expanded in the same pace more and more individuals have opted for personal cars as a major means of transport. With the influx of private cars, car theft has become rampant. The average crime rate related to theft and hijacking of vehicles has gone up.

To help these individuals and companies keep tabs on their valuables, we provide them with trackers. We have tested trackers for cars, motorcycles and also individual trackers that can

be carried on person. The trackers are equipped with SOS button for emergencies.

We have developed software utilizing Google maps that can be accessed from both PCs and smart phones to see the location of the assets that are being tracked. Added features like geo-fencing, remote immobilization, temperature control, motion control, camera, fuel sensor can be added to the tracker as per need of the customer.

How the Vehicle Tracking System Works

GPS tracking device: This is the actual device that is installed inside the vehicle. It receives signals from multiple GPS/GLONASS satellites and calculates its position. It combines this with other information such as from sensors or from the vehicle itself via OBD II and sends all of this at regular intervals to a central server using GPRS/3G Internet. It also supports SMS as a way of

sending select information (position/alarm/battery levels etc.). Most of these devices are also capable of switching relays and thereby turn things (including the vehicle itself) on or off.

GPS tracking server: This is the central data store of all the information sent from the tracking devices. It receives the data from the trackers, interprets the different components of the data and stores it away in a database.

The server also has a front end that allows users to log in via the web and view the information stored for their devices. It allows the user to select a particular vehicle or a group of vehicles, the information they want to view (location/fuel status/trip durations/etc) and then displays the information in an intuitive format for the user. The user then has the option to download/save the information for a report or for further analysis.

Why Our Tracking System

Features of our Vehicle Tracking Solution

Track by SMS or GPRS/3G	GPS Blind Area Alarm
Track on Demand	Low Battery Alarm
Track by Time Interval	Speeding Alarm
Track by Distance Interval	Impact Alarm
Track on Mobile Phone	Tow Alarm
Listen-in or Two-way Audio (Optional)	GPS Antenna Cut Alarm
Internal 4Mb Memory for Logging	External Power Cut Alarm
Inbuilt Tremble Sensor	Mileage Report
850mAh Internal Backup Battery	Engine Cut (Engine immobilization)
SOS Alarm	Inbuilt Super Magnet (optional)
Geo-fence Alarm	

Possibilities for expansion

Depending on the device selected, we have the possibility to integrate sensors that provide digital/analog or serial data.

This means that we are able to monitor multiple statuses (digital), such as whether the AC is on or off, whether the vehicle is started while in a parked position, whether there are

passengers in any of the seats, etc.

The analog input can be the temperature (in case of refrigerated cargo), fuel/gas remaining in the tank, load (in case of a truck), speed, etc.

The serial data can be from RFID/barcode readers to identify the driver or cargo in a trunk. We carry special cameras that can utilize the serial link to transmit images from the vehicle.

There are also digital outputs available that allow us to control (using relays) different things such as central door locks/windows in a car, remote immobilization of a vehicle, a secondary lock on the inside of covered cargo vans, etc.

Superior quality products

TrackIT uses the best and the latest technology to serve their client base. The solutions they are marketing come with superior quality products sourced directly from Taiwan, China and America.

Vehicle Tracking Products

Anti-theft Vehicle GPS Tracker – T322X

The T322 is a basic tracker used primarily as an anti-theft device. It provides location, alarms and a limited number of inputs and outputs. The tracker supports phone voice menu for arming query, status query, and location query in long standby mode.

An SMS command, phone, or platform command can be used to set anti-theft.

Remote control SOS alarm

GPS antenna cut-off alarm

External power cut-off alarm

GPS blind spot alarm

Remote engine cut-off alarm

Engine or vehicle door status alarm

Towing alarm, Arming or disarming

ENGINE CUT, ACC/DOOR DETECTION

Detect the status of vehicle's engine and door for anti-theft.

REPORT SMS WITH GOOGLE MAPS LINK GPS/GSM (LBS) TRACKING

Not only report latitude and longitude, but also link for quick access to Google maps on your smart phone.

Dual tracking mode helps you track by GSM station while no GPS signal.

GPS/GSM (LBS) tracking

I/O status dynamic display

Polygon Geo-fence

Group command sending

Route deviation alarm

More than 20 language versions

Mao: OSM, Google, Bing, MapABC

APP for smartphone

Tracking	Alarm
On demand, time interval, distance interval	SOS, Geo-fence, GPS blind spot, low battery, speeding, tow, GPS antenna cut, external power cut
Report	*OTA*
Mileage, alarm, history, speed, parking, sensor, RFID, input, picture	Upgrade firmware over the air