



## V-TRACK

*Online Automatic GPS Based Vehicle Tracking System  
For Safety, Security & Efficient use of Passenger & Goods Vehicle!*



### How does it Works?

- ❖ There are 24 GPS satellites orbiting the earth placed into orbit by the U.S. Department of Defense. GPS was originally intended for military applications, but over time, the system was made available free for civilian use globally. These satellites circle the earth twice a day in a very precise orbit and transmit signal information to a GPS receiver programmed to receive this data anywhere in the world. The receiver needs a clear view of the sky and will not work underground or wherever a view of the sky is not available. The availability and quality of GPS signals may be affected by buildings, natural obstacles, weather conditions and satellite availability.
- ❖ The V-Track vehicle tracking device fitted in your vehicle receives this information from a minimum of 3 satellites and uses triangulation to calculate its exact location - latitude, longitude and movement. It also fetches vehicle information such as ignition status, vehicle moving or parked among other information and prepares all these into a data packet to be sent.
- ❖ The V-Track vehicle tracking device then sends this data over the GPRS network of the GSM service provider to their Internet gateway and further over the Internet to the V-Track Application Server. We have a tie-up with Airtel, Vodafone, idea and BSNL to use their GSM and GPRS network.
- ❖ The V-Track Application Server is the work-horse and brain behind our extensive system. It monitors the thousands of vehicle devices fitted in vehicles all over India, communicating constantly with each device independently, sending commands, receiving regular data and alerts, and storing all of this on the server.
- ❖ The V-Track Web Application is our user-friendly interface that you can access on any PC using an Internet browser. The web application shows you real-time vehicle tracking, re-plays of past vehicle movements, your account and vehicle information, and a score of reports and alert systems. The V-Track Web Application can be customized for specific use of BPO call centers, hospitals, transport houses, schools, retail distribution firms, etc.
- ❖ When a PC or the Internet is not close by, one can use the V-Track Mobile Application to get all of this information on their mobile phones.



## Features:-

- ❖ **Real-time Tracking** - Watch your vehicle moving in real-time on the map, route being traversed, distance covered and at what speed. Data update at intervals ranging from 10~15 seconds and upwards up to any period. Our optimum setting is 10~15 seconds.
- ❖ **History Replay** - Data backup is maintained and vehicle movement of past periods is available, both for viewing on map as in live display and as reports. Standard backup is 60 days and extended backup is available on payment of additional charges.
- ❖ **Speeding Limit** - Setup maximum speed permissible and receive violation alert if this is breached.
- ❖ **Geo-Fences** - Setup restricted areas that your vehicle cannot go out of OR cannot come into and receive violation alerts when these are breached.
- ❖ **Way-Points** - Setup points along the route that your vehicle must travel to, within a specific time frame as an option and receive violation alerts when these are breached. Way-Points can also be used as indicators to know what part of the journey and in what time frame has been accomplished by the vehicle.
- ❖ **Stoppages** - Know exactly where your vehicle stopped and for how long.
- ❖ **Ignition/ Engine Running Status** - Know whether vehicle engine is running or stopped.
- ❖ **Power Status** - Know whether vehicle battery power has been disconnected from the device or not. Know whether the internal battery in the vehicle device is low on power or not. Internal battery provides backup up to 7 days depending on the data sending frequency to the server. The more the frequency, the lessor the backup as it consumes power with each sends.
- ❖ **GPS Status** - Know whether device is receiving data from the GPS satellites or not.
- ❖ **Panic / SOS Switch** - The vehicle driver can press the 'panic switch' in the vehicle to send an alarm to our support center, SMS to a preset mobile number.
- ❖ **Two-way Voice Communication** - Vehicle owners can talk to the driver using the 'two-way voice communication' facility eliminating the requirement of a mobile phone with the driver.
- ❖ **SMS Alerts** - Receive SMS alerts for device tampering, over speeding, violating Geo-Fences & Way-Points, Parking movement, battery power cut-off, over speeding and emergency alerts on your cell phone.
- ❖ **SMS Location** - SMS vehicle registration to our number and instantly receive vehicle location by return SMS.
- ❖ **Trip Report** - Detailed tabular trip report right from trip start to end with in between locations, timings, speed, distance, stoppages, etc.
- ❖ **Over Speeding Report** - Report date, time, location, speed each time the maximum speed limit was exceeded.
- ❖ **Geo-Fencing Violation Report** - Report on Geo-Fencing rules breached with date, time, location, speed, etc.
- ❖ **Way-Points Violation/Adherence Report** - Report on Way-Points rules violated/adhered with date, time, route, location, speed, etc.
- ❖ **Movement Report** - Report for day, week or required period with complete each day movement start to end with in between locations, timings, speed, distance, stoppages, etc.
- ❖ **Summary Report** - Summary report covering sections of each report for quick checks.
- ❖ **Data Export** - Export all report data in Excel or PDF format.





### Users

- ❖ Intercity state transport passenger buses & private passenger buses
- ❖ Intercity municipal services (e.g. buses, garbage, fire, police, ambulance etc.)
- ❖ Goods transport companies owning fleet of trucks.
- ❖ Large public & private sector companies with in house fleet to distribute their products.
- ❖ Private taxi companies for both inter & intra city travel.
- ❖ IT/BPO for their employees especially in night shift.
- ❖ Distributors of perishable goods such as milk etc.
- ❖ Defense vehicles.
- ❖ Coast guard & marine use.
- ❖ Private individuals whose driver drives their wives, kids etc.
- ❖ Private individuals who park on roadside while visiting malls, multiplexes etc.

### Services

- ❖ Use any Internet enabled PC to connect from anywhere.
- ❖ Login using username and password provided.
- ❖ Manage account and vehicle details, mobile alert numbers.
- ❖ Apply settings such as maximum speed limits, route maps and geo-fences.
- ❖ View real-time tracking and display on local maps.
- ❖ View history replay of movement for past days. Data available for any number of past days.
- ❖ View and print reports.
- ❖ Customized reports available on request.

### Reports

- ❖ Detailed activity report.
- ❖ Start stop report.
- ❖ Begin end report.
- ❖ Alerts report.
- ❖ Alerts summary report.
- ❖ Fleet status report.
- ❖ Fleet summary report.
- ❖ Fleet alerts reports.
- ❖ Fleet alerts summary.
- ❖ Fleet maintenance alert report.

### Benefits

- ❖ 20 channel GPS & 4 band GSM/GPRS chipset.
- ❖ LED status lights for ease in maintenance.
- ❖ Configurable tracking intervals.
- ❖ Panic and Park buttons.
- ❖ Can receive SMS commands for polling.
- ❖ Saves GPS data if GPRS is temporarily unavailable.

### Services

- ❖ Dispatching the nearest free vehicle to location of crime/accident /emergency within minutes.
- ❖ Record stops at unauthorized locations or stops of unauthorized duration for counseling of drivers.
- ❖ Record over speeding, deviations from route delay in arrival at landmarks etc for counseling of drivers.
- ❖ Reduce loss of perishable goods via transit monitoring.
- ❖ Achieve greater no of pickups / deliveries per day to improve efficiency & productivity.
- ❖ Improve punctuality in pickups / deliveries to improve service levels.
- ❖ Ensure safety of passengers by monitoring rash and negligent driving.
- ❖ Ensure safety of passengers in night shifts of IT / BPO / Call centers.
- ❖ Equitable use of vehicles & drivers thus reducing fatigue & maintenance costs.
- ❖ In case of theft of vehicle, track its progress on the map and inform the police for retrieval.
- ❖ Possibility to obtain lower premiums on insurance of vehicles due to tracking facility.

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**V-TRACK**  
Online Automatic Vehicle Tracking Systems



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