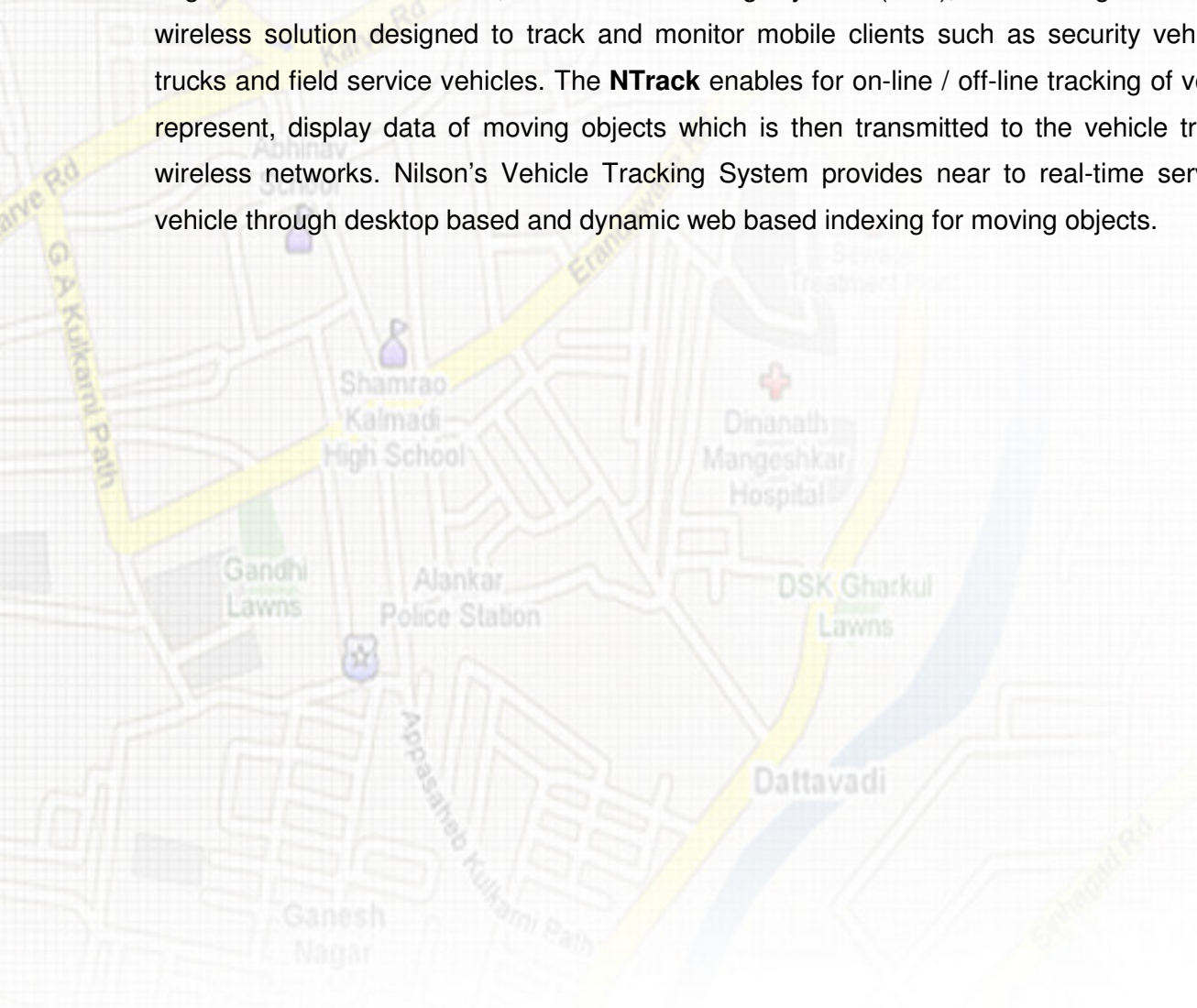




Overview of NTrack

INTRODUCTION:

Nilson Technology a Pune (India) based emerging software company provides location-based solutions and services that track or monitor moving objects such as trucks, luxury bus, containers, ambulances, fire brigade units etc. **N Track**, a Vehicle Tracking System (VTS), is an integrated hardware/software wireless solution designed to track and monitor mobile clients such as security vehicles, commercial trucks and field service vehicles. The **NTrack** enables for on-line / off-line tracking of vehicles and store, represent, display data of moving objects which is then transmitted to the vehicle tracking server via wireless networks. Nilson's Vehicle Tracking System provides near to real-time services for tracking vehicle through desktop based and dynamic web based indexing for moving objects.





WORKING PATTERN:

The architecture of **NTrack** involves GPRS & GPS integrated devices for identifying the location and transferring data between the vehicle and the web server. **NTrack** unit is discreetly kept in pocket (Personal Tracker) or installed inside the vehicle (Vehicle unit). The GPS device over the moving vehicle calculates the location, speed, date and time information. **NTrack** unit process the location data & transmit it via GPRS communication network the web server and from there it is accessed by the call centre or the user on his PC or mobile phone. The GPRS again removes the cost of infrastructure and because here we use the existing cellular networks. The transmitted information is sent to a mapping engine that plots the live route of the vehicle on a digital map.



This system is of great value to the fleet managers because it enables them to view real time location of the vehicles by looking at the area map on his PC / mobile phone. A fleet manager may also take control of the fleet through geofencing (by demarcating specific geographical area for a vehicle on the computer screen) and if the vehicle violates the defined route, he can stop the vehicle from moving. Information retrieved about the actual operation of the fleet is summarized through system generated reports that should help in improving management decisions for cost reduction and increased profitability of the business.

On the other hand, the personal tracker is of immense help in the personal security of an individual as through it, the actual movements of an individual may be viewed in the area map on a PC / mobile phone.



SALIENT FEATURE:

+ **Dashboard :-**

- + **Activity History Recording (AHR) :- NTrack** offers the most powerful passive history logging system available. Many competitors sell tracking systems that are little more than handheld GPS navigational devices, and typically do not record the information you really want. NTRACK a sophisticated system that intelligently records the right information, the information that you really need.

The real difference is the ease of accessing the enormous amount of information that a **NTrack** passive system stores. Over a period of several years of use, this causes **NTrack** to have a lower overall cost of implementation compared to the other systems operating in the market.

- + **Implementation** is easy, too! About 80% of NTRACK users self-install.

- + **Powerful History Reporting & Fleet Analysis Tools** Easy-to-use **NTrack** lets you quickly filter for the information you really need -- and ignore the rest. You can generate reports (by customer visits, driver activity, vehicle details, etc.) with exactly the information you need (stop location/duration, excessive speed reports, vehicle idle time) in mere moments with the NTrack's user-friendly software. Verifying that your company vehicles are used according to company policies has never been easier! The system automatically archives speed, stop location/duration, vehicle track history, and discrete event reports (i.e. out of bounds areas). All of this information downloads into the touch key automatically. No driver or fleet manager intervention is necessary!



REPORTS:

Ntrack's ARS, built - in reporting module allows you to produce summary & detailed reports including –

- ✚ **Excessive Speed Reports** (with adjustable max speed parameter) and Speed Violation reports.
- ✚ **Viewing trips:** Very detailed information can be reviewed in map overlay or report form, including addresses, stop locations and durations, total mileage, etc.
- ✚ **Maintenance:** Effective implementation of preventive maintenance plans based on mileage or engine-on time obtained from the mileage logs.
- ✚ **Speeding & Risk Management:** Detailed speed and risk management reports are available, including extremely detailed information in the moments before a crash.
- ✚ **Vehicle Details:** Details of the vehicle in transit can be obtained at a click of the mouse.
- ✚ **Monitoring Auxiliary Events:** Reports on activation or deactivation of Sensor Events (3 sensors), Seat Belt Use, Monitors Aggressive Braking, Idle Time etc.
- ✚ **Route Planning:** The **Ntrack** allows you to plan the optimal route for a vehicle and give the driver both maps and instructions in a report format. You can also replay the route traveled to ensure compliance.
- ✚ **Easy to Use Controls (EUC)** User-friendly controls for monitoring the activities of the vehicle tracked are a value addition to the already existing features of NTrack. EUC controls include –
- ✚ **Vehicle Location Request: Receive current location, speed and direction at a click of the mouse.**
- ✚ **Vehicle Location History Request:** Access historical location and event history just by selecting the date and time of the trip/journey.
- ✚ **Fastest Speed of the Day:** The fastest speed of the current day (in excess of a preset speed threshold) is indicated to you.
- ✚ **Average Speed of the Day :** The average speed of the current day is indicated to you.



events for any violation Such alerts can be built as per the requirements of the client/customer. Some of the alerts that can be generated are as follows -

- ✚ **Maximum speed Exceeded:** Alert is sent when the maximum speed is exceeded for a period designated by the user, between one second and sixty minutes.
- ✚ **Geographic Boundary:** An alarm or pop up message to be sent when an entrance or departure is made from a fixed geographic area.
- ✚ **Reminder Notifications:** Notifications with respect to Maintenance, Lease and/or Licensing Engine.
- ✚ **On-board speeding driver alert buzzer:** reminds driver of excessive speed.
- ✚ **Fastest Speed of the Day:** The fastest speed of the current day (in excess of a preset speed threshold) is indicated to you through an alert.

MAPPING SUPPORT:

NTrack mainly use Google Maps which have excellent street level coverage for most part of the globe. Their coverage is rapidly increasing and they also regularly update their imagery. We are also in the process of linking other maps like Yahoo Maps, Virtual Earth, Map Quest etc. in our unique tracking system.

BENEFITS OF NTrack:

- ✚ Reducing running overheads and increasing profitability of the organization.
- ✚ Improving the efficiency of vehicle-based commercial operations.
- ✚ Assisting organizations in managing their mobile clients.
- ✚ Manage a fleet of vehicle by gaining control of travel records and time.
- ✚ NTrack eliminates the time-consuming task of manually completing mileage logs, trying to track down missing data or verify hand-written information.
- ✚ Help to manage fuel consumption, velocity, vehicle positioning.
- ✚ Help to Increase on time performance.