

The SMARTRACE logo, where 'SMART' is in orange and 'TRACE' is in dark brown, with a stylized orange and brown graphic element above the 'T' in 'TRACE'.

**SMARTRACE**

**INTELLIGENT WIRELESS TRACKING &  
ASSET/FLEET MANAGEMENT SOLUTION**

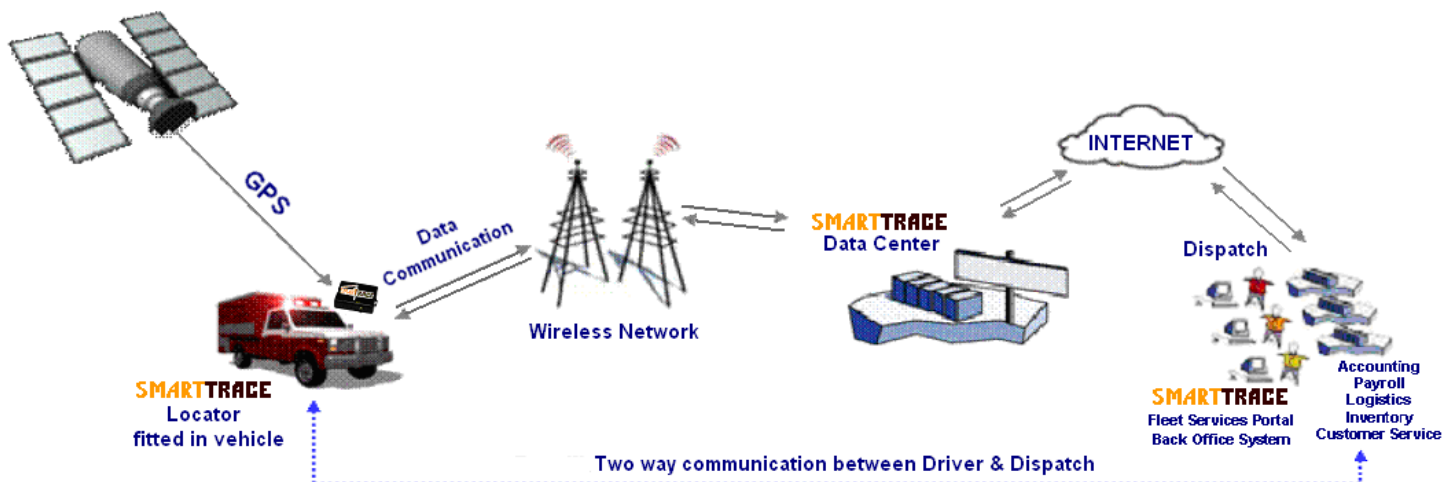
**OVERVIEW**



# **INTELLIGENT WIRELESS TRACKING & ASSET/FLEET MANAGEMENT SOLUTION**

We take this opportunity to introduce our product "SmartTrace" Intelligent Wireless Tracking & Asset Management Solution for the protection of all types of assets. Our solution provides real-time and offline tracking/monitoring and control, recording/reporting of all activities of your fleet of vehicles across the area. From our regional office "SamTech" in Dubai, we handle sales & support and provide solutions. Our Web-based solution uses Global Positioning System over Satellite (GPS) and the new generation of GSM/GPRS/Satellite communication protocols to communicate over the wireless network. Our Client-based Solution is similar to the Web-based Solution besides the fact that the client has complete control over the system and data.

Our solution has been deployed in all fields of services including those in the areas of Private Companies, Government Agencies, Security Patrol, Construction Companies, Services Providers, Car Rental Companies, Waste Management Companies, School Buses, Public Transport, Long Haul Transportation, Regional Carriers, Healthcare, ReadyMix Companies, Airport Services, Telecommunication Companies, Delivery Companies, Cash-in Transit Services, Postal Services, Tourism Services, Automotive Companies, Dairy Products Companies, Logistic Companies, Fruits & Vegetable Companies, Limousine & Taxi Companies, Education Institutes, Boats & Yachts, Banking & Financial Services, Dry Cleaners, Forwarders, Oil & Gas Companies, Distribution Companies, Fire Brigade, Ambulances, Police, Special Delivery Services, Courier Services. We hope you will find our solution advantageous and impressive.



## **1- SmartTrace Intelligent Wireless Tracking & Asset Management Solution:**

Ensures on-the-job reporting of staff, maintains safe driving, and prevents drivers from over-speeding and unauthorized vehicle usage. It gives instant alerts if your vehicle is stolen or driven out-of-territory. It also gives you the option of "Telematics" that controls the activities of your vehicle remotely over the Internet. All records are stored on the Portal at SamTech Data Centre and such records can be retrieved locally on-site or from anywhere and anytime over the Internet.

**These functions will save you time and money and will enhance the operations and maintenances of your fleet, and productivity will therefore be increased.**

The application can either be Web-based or Standalone/Client-based depending on the number of **SmartTrace** subscribed locators.

**SmartTrace** Wireless Locator is a small hardware device that is installed in any vehicle; it combines a GPS receiver and a wireless GSM/GPRS/Satellite Telecommunication modem. The GPRS/Satellite modem connects to a Server Station modem via the **GSM/GPRS/Satellite** Networks. The device is coded into our Web-based Server. The client is given a Username and a Password to log on to the Internet Website "[www.samtech-me.com](http://www.samtech-me.com)" from any PC to check the location of the Vehicle in real-time mode on retrieved digital maps, check the speed and distance traveled, check travel time and idle time, and to generate different reports for vehicle activities over the Internet. Vehicles are represented by symbols on digital maps that sit on **SmartTrace** Servers.

The same principle is used for the Client-based solution. The device is coded into the client's server and the client can access the data from his servers and PC's directly.

## **2- Software Features and Capabilities:**

- 1) Capability to display Real-Time geographic location of Vehicle and positions with different symbols and colours, and to provide detailed activity reports on vehicle speed, travel time, stop and idle time, direction, and GPS readings.
- 2) Storage of tracking data input and Management Reporting of subsequent analysis - Produce vehicle records and historical activity logs for subsequent review.
- 3) Capability to provide Detailed Vehicle Messaging Reports/Data usage or Data Security reports for different functions of Vehicle activities and Performance for added security.
- 4) Vehicle GeoFencing Alerts for Boundary Crossing, or out of territory driving alert.
- 5) Options:
  - a) Capability to provide Telematics functions for remote control of vehicle (s) activities including reports - to record and manage dedicated functions over the Internet.
  - b) Capability to connect a Mobile Data Terminal (MDT) to provide two-way messaging, Driver ID information, information on trips and mileage.
  - c) Internal Battery Backup (Lithium Battery).
  - d) Store & Forward functionality of up-to 2000 GPS records, when out of range.

The following are the features that are available in the **SmartTrace** solution.

### **Mapping:**

- 1) Unit Position Menu
  - a) Last Position
  - b) Latest Positions
  - c) Unit History
  - d) Playback
- 2) Geofence Menu
- 3) Landmark Menu

## Reports:

- 1) Charts
  - a) Total Travel Distance
    - i) Bar 2D
    - ii) Column 2D
    - iii) Column 3D
    - iv) Doughnut 2D
    - v) Line 2D
    - vi) Pie 3D
  - b) Total Travel Time
    - i) Bar 2D
    - ii) Column 2D
    - iii) Column 3D
    - iv) Doughnut 2D
    - v) Line 2D
    - vi) Pie 3D
- 2) Geofence Reports
  - a) Geofence
  - b) Geofence In Out
  - c) Vehicles in Geofence
  - d) Vehicles Near Geofence
- 3) Notification Reports
  - a) Geofence In Out Notification
  - b) Geofence Overtime Notification
- 4) Service Reports
  - a) Average Fault Fixing Duration
  - b) Fault Summary
  - c) Fuel Log Report
  - d) Service Due Summary
  - e) Service Overdue
  - f) Vehicle Faults
  - g) Vehicle Servicing
- 5) Telemetry Reports
  - a) Door Status
  - b) Vehicle Temperature
- 6) Tracking Reports
  - a) Activity
  - b) Activity Summary
  - c) Idling
  - d) Idling Summary
  - e) Latest Position
- f) Speeding
- g) Stop
- h) Travel Summary
- 7) Trips
  - a) Geofence In/Out without Trip Assignment
  - b) Trip Assignment
  - c) Trip Counts
  - d) Vehicle Trip Summary
- 8) Troubleshooting Reports
  - a) No GPS Fix
  - b) Not Responding Units
  - c) Not Travelled Units
- 9) Vehicles/Driver Lists
  - a) CNIA Updates
  - b) Drivers
  - c) Vehicles

## Administration:

- 1) General
  - a) Change Password
  - b) Manage User Types
  - c) Manage Permissions
- 2) Users
  - a) Manage Users
- 3) Groups
  - a) Manage Groups
  - b) Assign Groups to User
- 4) Units
  - a) List All Units
  - b) Assign Units to Group
- 5) Reporting
  - a) Scheduled Reports
- 6) Fleet Management
  - a) Drivers
  - b) Notifications
  - c) Vehicles
  - d) Trip Assignment
  - e) Fuel Log
  - f) Maintenance

### **3- End-to-End Wireless Services Solution:**

**SmartTrace** employs the Vehicle Location System to combine the technologies of the Global Positioning System (GPS), wireless networks and the Internet to create an innovative, end-to-end wireless solution that solve four prevalent fleet management challenges:

- Reporting
- Field Personnel Management
- Vehicle Operations & Usage
- Customer Service

We are pleased to provide a solution that will grow and change with the servicing requirements of your fleet.

Future service will include basic Telematics such as remote door lock/unlock, vehicle maintenance alerts, airbag deployment and Internet services.

### **Sector Locator:**

Communicates with the GPS satellite network to determine the location of the vehicle, and then transmits this location and messaging data to the **SmartTrace** Network Operations Center.

### **SmartTrace Wireless Locator Specifications:**

- Input Voltage 9 - 36 VDC
- Integrated rugged design
- RS-232 Connector
- PPP and NMEA Protocols
- Locator Plus Software
- 2000 Records Store and Forward if Out-of-Range
- GSM/SMS/GPRS
- GSM 900/1800/850/1900 MHz
- GPS Antenna
- GSM Antenna
- Weight 125g
- Operating Temperature +20°C to +60°C
- Humidity 95% Max (non-condensing)
- Digital I/O

### **User Friendly Online Fleet Command Centre:**

It acts as your fleet dispatcher's command centre for vehicle tracking, communications and service management. Enjoy a precise view of where your vehicle assets are at all times with full color maps!

### **Detailed Fleet Activity Reports:**

It gathers all of the location and vehicle usage data of your fleet to provide in-depth activity reports. Validate and verify a wide range of fleet activity from business kilometers reporting to "on the job" times.

### **2-Way Messaging and Paperless Reporting:**

Personal Digital Assistants (PDA's) are a flexible mobile computing device alternative to traditional, bulky and lap-based terminals. It utilizes PDA's and Mobile Data Terminal (MDT) to deliver two-way text messaging, Driver ID entry, and paperless reports from the field. Ask us for customization of your system and we can make your fleet paperless!

### **4- Immediate Benefits:**

Fleets are the primary addressable market and may be segmented into a wide variety of verticals. **SamTech** is initially focused on security, trucking, courier and field services fleets although the system may be packaged and offered into any vertical.

- Private Asset - corporate, service, and delivery (plumbing, courier, utility, electrical, telecom).
- For-Hire Trucking - construction, services, agriculture, resources, wholesale, retail, manufacturing, utilities.
- Safety and Security Agencies - ambulance, fire and rescue fleets, police, home security.

- Government - sanitation, inspection, landscaping, corporate.
- Buses - public transportation, schools.
- Taxicab & Limousine Fleet, Rental Fleet

Deploying our services would deliver the following benefits:

1. Field Personnel Management
  - Improved safety for the workers
  - Reduce downtime of mobile fleet
  - Actively manage and communicate with field personnel
  - Increase productivity through fleet activity analysis
2. Reporting
  - Access and document real-time location information
  - Conduct detailed fleet activity analysis
  - Access history reports that includes:
    - Distance driven
    - Vehicle speed
    - Stops over a user-defined time period
    - Location logs over a user-defined time period
3. Safety
  - Roadside assistance
  - Panic buttons
  - Emergencies
4. Telematics
  - Ability to remotely monitor and perform specific vehicle functions (door open/close, fuel pump shut off, etc.)
5. Messaging
  - Two-way messaging using the PDA

### **5- Training:**

Two sessions of complete training is provided to the system administrator(s) so that they are aware of each and every feature of the system. The training will help in understanding, identifying and enhancing the performance of the vehicle/driver.

A dedicated customer support center at **SamTech** office is always available to assist the customer in any type of queries related to the system.