

What is AVLS?

AVLS (Automatic Vehicle Location System) is a robust solution developed by Infronics using Global Positioning System. It enables accurate tracking of the vehicles plying any time, anywhere including fleet management and container tracking. It effectively addresses one of the most critical problems facing transport industry, viz., tracing the whereabouts of the fleet at any given point of time. It can remotely transmit the GPS position using the GSM/GPRS network, SMS, and even Satellite communication and can also send telemetry data as an SMS text message or over the Internet. This means that assets can be seamlessly and reliably tracked almost anywhere in the world. The Solution generates valuable information without overloading your mobile data communication. Moreover, AVLS helps logistics companies to use efficient scheduling and routing schemes and will optimize the use of resources.

How does AVLS work?

There is a constellation of 24 satellites in space and at any given time, at least 3 satellites are available for use. The system computes the current location of vehicles using GPS. Mobile communication network (GSM/CDMA) is used to transmit the information. A server application/web client at the base station displays the geographical information of the fleet. It also facilitates intelligent data-logging capability based on time and distance intervals as well as various other events. The intelligent selection of data allows the system to record position information even when outside of GSM coverage. The intelligence built gives excellent control to tailor the solution into the product.



Technology Configuration

- ▲ GSM Module 850/1900 MHz – US, Canada, Mexico, South America except Brazil
- ▲ GSM Module 900/1800 MHz – Europe, Asia, MiddleEast and Bzasil
- ▲ GPRS Module 850/1900 MHz – US, Canada, Mexico, South America except Brazil
- ▲ GPRS Module 900/1800 MHz – Europe, Asia, MiddleEast and Bzasil
- ▲ CDMA/1X – by SMS
- ▲ Controller Module
- ▲ Storage module
- ▲ Display/Entry module
- ▲ One way/Two way Voice Communication



Automatic Vehicle Location System

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Unique Features of AVLS:

- ❖ User-friendly windows interface and Navigation
- ❖ Map Zoom In & Zoom Out
- ❖ Remote hardware configuration
- ❖ Route planning and Fencing
- ❖ Automatic alerts for various factors like over speed, halts etc
- ❖ Hardware remote control
- ❖ E-mail / SMS
- ❖ Location presented with full color maps
- ❖ Vehicle information: Vehicle ID, Date, time, heading, and speed
- ❖ Reporting Mode – GPRS(UDP) & SMS
- ❖ Reporting intervals GPRS mode (0-3600 seconds)
- ❖ Reporting intervals SMS mode (0 – 1440 minutes)
- ❖ Pole by demand
- ❖ Real-time reports by request, time interval, distance interval.
- ❖ Geo-fencing with Alert

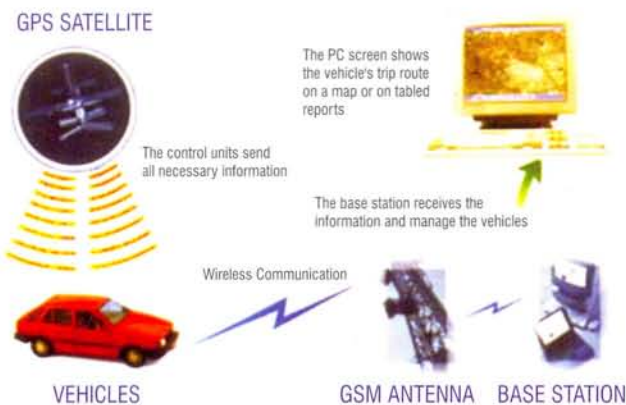
Safety:

- ❖ Automated GSM connect/disconnect
- ❖ Driver Profiling
- ❖ Event Analysis
- ❖ Over Speeding
- ❖ Excess Idling
- ❖ Harsh Braking
- ❖ Harsh Acceleration
- ❖ Accident Analysis
- ❖ 6 Second data reporting for 4 minutes prior to incident
- ❖ 1 Minute post incident



Benefits:

- ❖ Provides added services to your Clientele without driver intervention
- ❖ Traces your vehicle via GPS over wide geography
- ❖ Schedule performance analysis
- ❖ Slow traffic zone identification
- ❖ Optimizes your schedules
- ❖ Visual representation of your routes and terminals on a MAP
- ❖ Maximizes fleet efficiencies
- ❖ Reduces operational costs
- ❖ Reduces non-work related use
- ❖ Tracks stolen vehicles
- ❖ Geo-Fencing



Designed and Developed by:

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