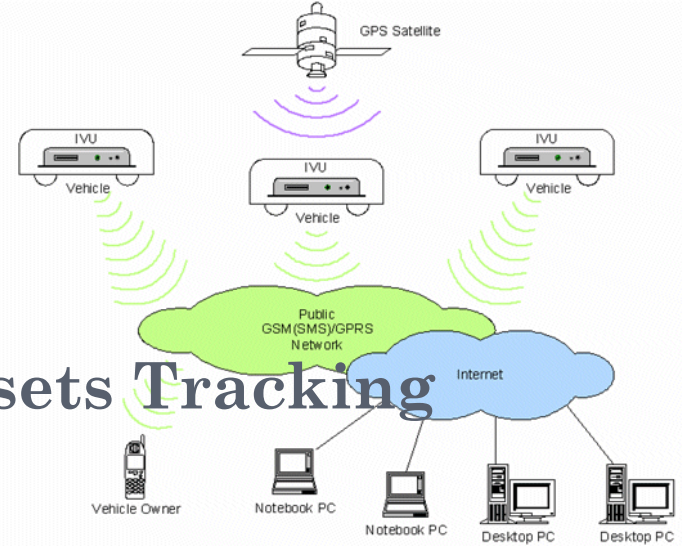




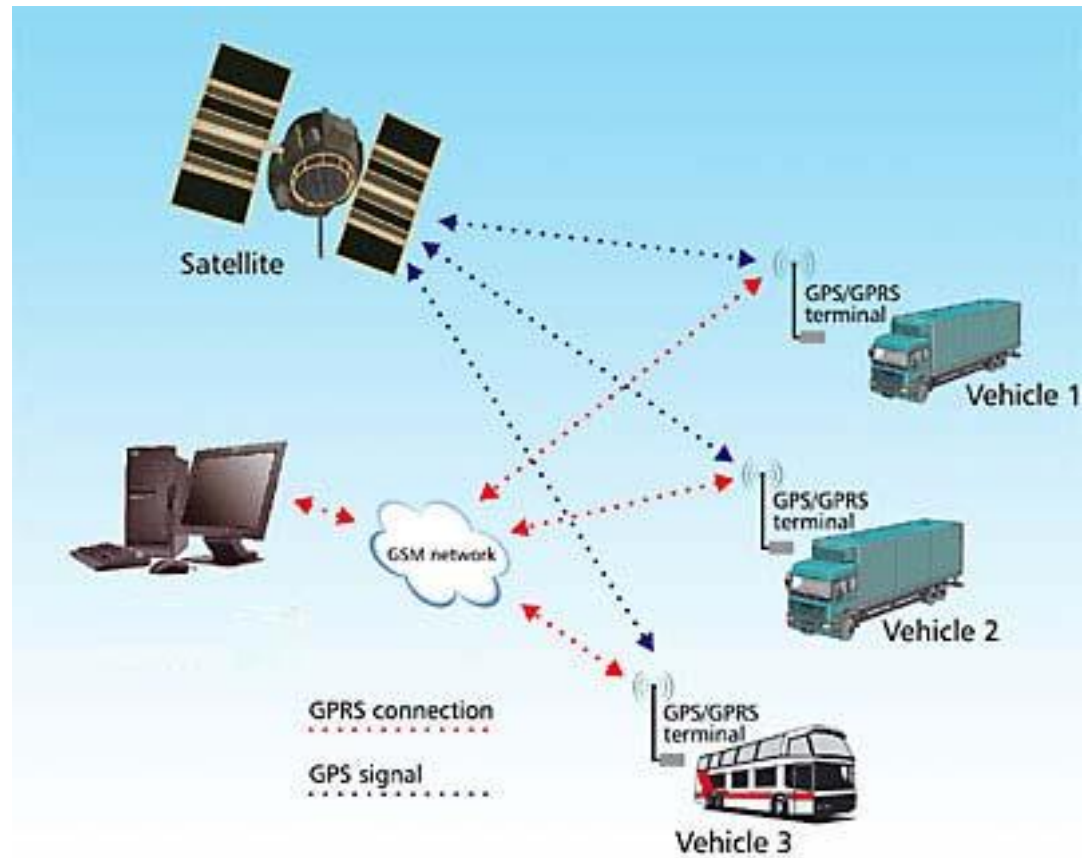
## Advance GPS Vehicle / Assets Tracking Solution



- Now, you can manage your fleet of vehicles, Valuable Assets and other Mobile objects with close scrutiny, just like a hawk
- Affordable installation and operating costs
- Easy to install and operate
- User friendly Web based client interface / Mobile application
- Full-fledged map server implementation
- Customizable software
- Monitor, Control and Manage your vehicles / Valuable Assets
- Fleet Management
- Report generation



# HOW DOES IT WORK?



# HOW DOES IT WORK?

- In-vehicle / Equipment hardware unit receives, stores and forwards signals from GPS to server
- Web based / Mobile based application to control, view your company vehicles / Equipment
- Application server receives data from GPS and stores in the database
- Advanced Tracking and log management tool
- User friendly with alerts and alarms generated as per client's requirements and convenience



# Salient Features List

- Web Based / Mobile based real time tracking platform for Vehicles, Valuable assets / equipments and other mobile objects.
- Receive notification over SMS and email for events that require your attention, such as Vehicle theft, Asset theft, Speeding, Excessive idling, off hours vehicle usage, Ignition On/Off and Geo fence violations.
- View vehicles on a map in a mobile phone (optional)
- Optional - Fuel Monitoring, Temperature Monitoring etc.,
- Better productivity of Out-field staff
- Vehicle Theft Control (Vehicle Immobilization) Alert AND Equipment theft alert.
- TrackSmart Vehicle Tracker helps you to quickly locate the closest available vehicle for an assignment and locate your Equipment where ever it is
- Total control on rental equipments
- Saving cost of recruitment of non-productive out-field staff
- Non-working days Vehicle usage
- In case of emergency, Panic button can be pressed in order to alert the Transport Management
- Over Idling of Vehicle or Excessive Idling Report
- Geo-fence Alerts
- Control over reckless driving with speed alert report
- Odometer management for Service maintenance of the Vehicles
- Battery Voltage Indicator
- Advanced detailed Reports Generation and Enhanced Reports
- Reducing burden of Managers/Transport Supervisors:



# Additional Salient Features

- Built in Modem (GSM/ CDMA/ GPRS)
- Accurate information with built-in capability to store 15,000 records
- Data Communication through GSM/GPRS
- Works on Vehicle Power 12 VDC
- Transmission of vehicle status (over-speed, stoppages etc.) to Main Server or Control Station
- Distance and time calculation
- Send real time data on position/ and pre-determined messages
- Receive messages from Control Station
- History and Logs
- Live and Offline tracking, Ignition On/Off, Open/Close Doors etc.,
- Integrated with Google maps, Cloud Maps and also with custom made maps
- Routing with Shortest and Nearest routes
- Alerts ( Geo fencing, Battery Power, Fuel consumption, Over-speed etc., )
- Route Guidance
- Affordable Software Price
- European hardware
- Insurance Advantage
- Continuous Software Development Process for new versions of AVL



# ADVANTAGES

- Improve Fleet Management
- Improve and manage the productivity / usage of rental equipments
- Safety and security of the vehicle / assets
- Control and Maintain Safety of valuable consignments
- Identify & dispatch “nearest service vehicle”
- Increase operational efficiency/effectiveness
- Improve Driver Safety
- Faster emergency response
- Monitor location of every unit in the fleet
- Coordinate response to emergencies & breakdowns



## ADVANTAGES – CONT...

- Monitor on-time performance
  - What time did consignment / rental equipment reach?
  - How long did vehicle take to reach destination?
  - Proper usage of rental equipments
  - What was the net turn-around time for delivery?
- Document driver performance
  - Monitor unscheduled & out-of-route activities
  - Record scheduled runs & on-site activity
  - Loiter-check feature increases turn-around time for delivery.
  - Document driver history (speed, stops, etc.)
- Reduce response time
- Retrieve the rental equipments on time upon non-payment / end of rental period



# TRACKING

MAIN FLEET ROUTE TRACK demo 23/03/2013 04:41:37 PM Sign Out

Map Satellite Hybrid

Veh#	Location	Speed	Date/Time	Battery	Status
1	6th Main Road Stage 2 B	0.0	07:1		
2	TM Layout	0.2	0:55		
			013 PM		
2	7th Main Road Stage 2 B	11.0			
1	TM Layout	0.0	6:54		
			013 AM		
2	7th Main Road Stage 2 B	2.0	02:2		
2	TM Layout	0.0	3:05		
			013 PM		
1	10th Main Road Ita	10.5			
2	madu Ganeshnagar	2.4	7:35		
			013 AM		

1

Map Satellite Hybrid

Violation Type	Location	Date	Time	Parameter
No Violation Found!				



# REPORTS

MAIN FLEET ROUTE TRACK demo eil 21/03/2013 11:59:34 PM Sign Out ?

Vehno : DEMO 1, From Date : 03/12/2013, To Date : 03/22/2013, From Time : 00:00:00, To Time : 11:00:00, Workplace : EIL

Sino	FromTime	ToTime	TimeSpan	Location	Status
1	21/03/2013 10:28:18	21/03/2013 10:55:24	0 Hrs and 27 Mins	5th Main Road Stage 1 BTM Layout	ING_OFF
2	20/03/2013 17:46:44	21/03/2013 10:27:51	16 Hrs and 41 Mins	20th Main Road Stage 1 BTM Layout	ING_OFF
3	20/03/2013 15:24:38	20/03/2013 17:45:47	2 Hrs and 21 Mins	Tavarekere Main Road Brindavan Nagar Sadduguntepalya	ING_OFF
4	20/03/2013 15:07:31	20/03/2013 15:24:38	0 Hrs and 17 Mins	7th Main Road Stage 2 BTM Layout	ING_OFF
5	20/03/2013 13:00:08	20/03/2013 15:07:31	2 Hrs and 7 Mins	15th Cross Road Stage 2 BTM Layout	ING_OFF
6	20/03/2013 12:33:56	20/03/2013 12:55:51	0 Hrs and 21 Mins	10th Cross Road Stage 2 BTM Layout	ING_OFF
7	20/03/2013 12:23:11	20/03/2013 12:33:56	0 Hrs and 10 Mins	7th Main Road Stage 2 BTM Layout	ING_OFF
8	20/03/2013 11:57:25	20/03/2013 12:23:11	0 Hrs and 25 Mins	9th Cross Road Stage 2 BTM Layout	ING_OFF
9	16/03/2013 17:36:31	20/03/2013 11:57:25	90 Hrs and 20 Mins	6th Cross Road Stage 2 BTM Layout	ING_OFF
10	16/03/2013 15:34:54	16/03/2013 17:35:37	2 Hrs and 0 Mins	1st Main Road Stage 2 BTM Layout	ING_OFF

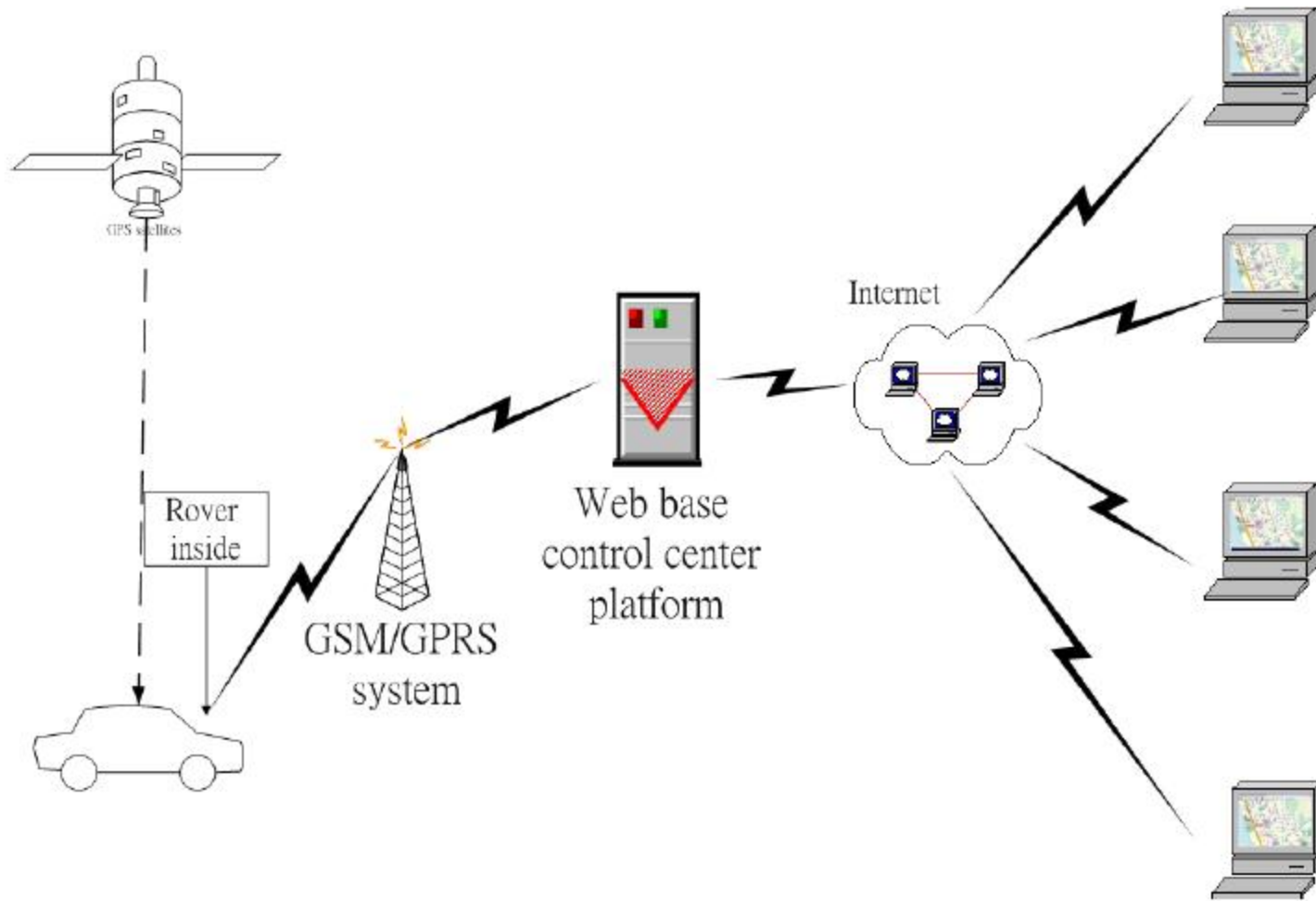
**Total Time Span is 115 Hrs And 9 Mins.**



# REPORTS - CONTD.

MAIN FLEET ROUTE TRACK demo eil 21/03/2013 12:00:38 AM Sign Out					
Vehno : DEMO 1, From Date : 03/12/2013, To Date : 03/22/2013, From Time : 00:00:00, To Time : 11:00:00, Workplace : EIL					
Trip Start Details			Trip End Details		
Trip Started	3:34:23 PM		Trip Ended	11:02:52 AM	
Location	7th Main Road Stage 2 BTM Layout		Location	5th Main Road Stage 1 BTM Layout	
Total Distance	10.4 Kms		Total Runtime	17838739 hrs 2 Mins	
S.No	Time	Location	Dist(Kms)	Acc Dist(Kms)	Speed
16 Mar 2013					
1	3:34:23 PM	7th Main Road Stage 2 BTM Layout	3.78	3.78	0.8
2	5:35:37 PM	1st Main Road Stage 2 BTM Layout	0.44	4.22	0.6
3	5:36:04 PM	7th Cross Road Stage 2 BTM Layout	0.2	4.43	0.4
4	5:36:31 PM	6th Main Road Stage 2 BTM Layout	0.21	4.63	0.4
20 Mar 2013					
5	11:57:25 AM	6th Cross Road Stage 2 BTM Layout	0.21	4.84	1.6
6	12:23:11 PM	9th Cross Road Stage 2 BTM Layout	0.12	4.96	1.2
7	12:33:56 PM	7th Main Road Stage 2 BTM Layout	0.11	5.07	2
8	12:55:51 PM	10th Cross Road Stage 2 BTM Layout	0.27	5.33	0.8
9	1:00:08 PM	7th Main Road Stage 2 BTM Layout	0.24	5.57	1.4
10	3:07:31 PM	15th Cross Road Stage 2 BTM Layout	0.57	6.14	0.6
11	3:24:38 PM	7th Main Road Stage 2 BTM Layout	0.12	6.26	1.8
12	5:45:47 PM	Tavarekere Main Road Brindavan Nagar Sadduguntepalya	1.47	7.72	5.2
13	5:46:44 PM	Outer Ring Road Stage 1 BTM Layout	1.29	9.01	0.4
21 Mar 2013					

# SOLUTION DIAGRAM



## TrackSmart Standard AVL Device TS202



- Car / Assets security and tracking
  - Parameterized operation (acquire & send)
  - ALARM button (2 inputs)
  - Online tracking
  - Geo-fence
  - Motion sensor
  - Low energy consumption in sleep mode
- 
- GPS and I/O data acquisition
  - Real Time tracking
  - External sensors connection capability
  - Smart algorithm of data acquisition (time, distance, angle and event based)
  - Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
  - Smart algorithm of GPRS connections (GPRS traffic saving)
  - Operating in roaming networks (preferred GSM providers list)



# ROI

- Productivity improvement with “supervisor onboard”
- Increase efficiency of transportation / equipments
- Reduce out-of-route, unscheduled, unauthorized activities & vehicle usage during unofficial working days
- Assistance in recovering stolen vehicles
- Keep safety of consignments
- Additional extensions like Vehicle / assets Availability Records will help minimise waiting time for consignments.
- Retrieve the rental equipments on time upon non-payment / end of rental period

