

# **Intelligent Fleet Management System Fleet Enterprise User Manual**

**V1.0**

**2013-11-1**

# Directory

<b>1. System introduction .....</b>	<b>4</b>
<b>2. Guide objective .....</b>	<b>4</b>
<b>3. Using circumstance.....</b>	<b>4</b>
<b>4. Function introduction.....</b>	<b>4</b>
4.1 Log in.....	5
4.2 Business LOGIC .....	5
4.3 Operation instructions.....	5
4.4 Realtime monitoring .....	6
4.5 Backend management .....	7
4.6 Vehicle data statistics.....	9
4.6.1 Trips .....	10
4.6.2 GPS Data .....	11
4.6.3 Fuel Consumption.....	12
4.6.4 DTCs.....	12
4.6.5 Alarms.....	13
4.6.6 Snapshot.....	14
4.6.7 PIDs .....	15
4.6.8 Repairs .....	16
4.6.9 Maintenance.....	16
4.7 Analysis .....	17
4.7.1 Safety Driving.....	18
4.7.2 Economic Driving.....	18
4.7.3 Fleets.....	19
4.8 Report .....	20
4.8.1 Travel Report .....	20

4.8.2 Fuel Consumption Report.....	20
4.8.3 Location Report .....	21
4.9 Management .....	21
4.9.1 Group Management .....	21
4.9.2 User Management .....	21
4.9.3 Driver Management .....	22
4.9.4 Vehicle Management.....	22
4.9.5 Device Management .....	23
4.9.6 Role Management .....	25
4.9.7 Geo-fence Management.....	26
4.9.8 System Broadcast.....	27
4.9.9 Enterprise Information.....	27
4.9.10 System Log .....	28

## 1. System Introduction

Intelligent Fleet Management System focuses on providing professional fleet management and GPS tracking solutions for enterprise. This solution integrate with advance GIS、GPS、GPRS、OBD、WEB technology, binding enterprise's each vehicle into monitoring and service system, and providing location tracking、realtime monitoring、remote diagnostics、key data report、trend analysis and vehicle/driver management services,etc for enterprise fleet asset management.

**Multi-level authority distribution** : Create account level based on business requirements。

Account level	Suitable Customer
Fleet operator	Fleet operator, manage some fleet management enterprises or fleets or drivers
Fleet enterprise	Fleet enterprise, manage lower level fleet management enterprise/fleet/driver
Fleet	Fleet, manage some vehicles/drivers
Driver	Terminal driver

**Flexible configure management authority**: Enterprise internal creating different roles, controlling data access, it could improve enterprise vehicle information management level effectively and reduce operation cost.

For more terminal device information, pls visit [tp://www.castelecom.com](http://www.castelecom.com)

## 2. Guide Objective

This file is for customers who buy and use intelligent fleet management and gps tracking system (Fleet enterprise role), and providing clear operation instructions for customers to grasp platform operation method more easily and quickly.

Attention: Some images may too large, we advise you to amplify display scale,such as 130%.

## 3. Recommended Operation

User Terminal Circumstance: Windows XP (recommended) ;

Server Deployment: Windows Server 2000; Windows Server 2003; Windows Vista;

Support Browser: IE7/IE8, Firefox 4.0 and above, Google chrome21.0 and above

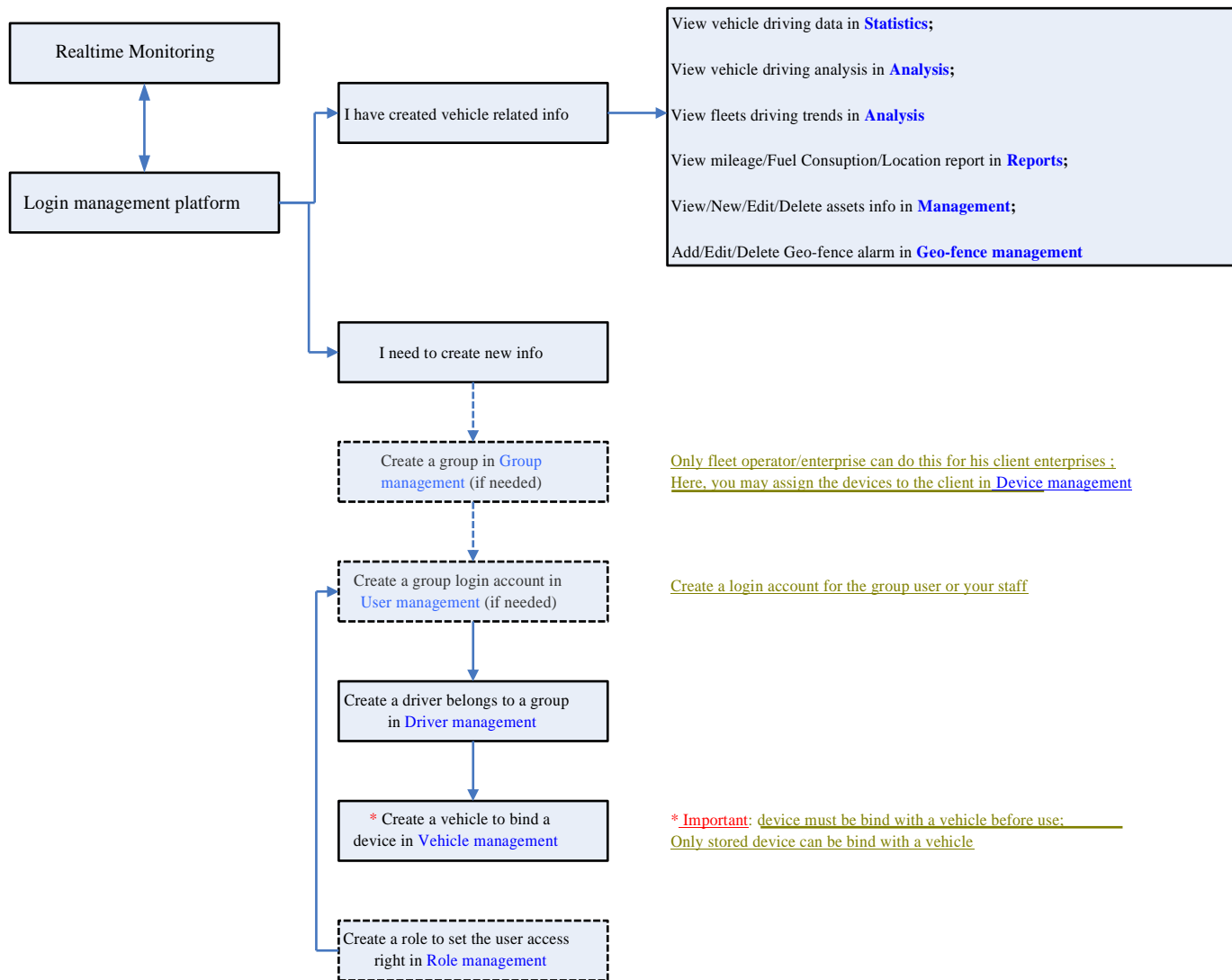
## 4. How it works

### 4.1 Logging in

Pls input this website at browser address : <http://www.livetelematics.com> to visit intelligent fleet management system;





Login account: Login account that provided by Castle

## 4.2 The platform architecture




## 4.3 Operating Instructions


Mainly aimed at backend management:


-  : Data display area full screen;  : Exit full screen display;
-  return : Click to return previous page;
-  Export to Excel : Click Export the current page data to be in Excel format; At report function, Export

all search results;

-  : All data area column name right side's lower triangular matrix, click to choose

display/hide some columns content;

-  Print : Print report function, print search results on current search condition;

- f.  **Export to PDF** : Report export to PDF, export search results on current search condition to PDF format;

## 4.4 Realtime Monitoring

After login, system go to realtime monitoring interface, customer could view vehicle location, realtime tracking vehicle, monitoring vehicle vehicle DTCs/Alarms.

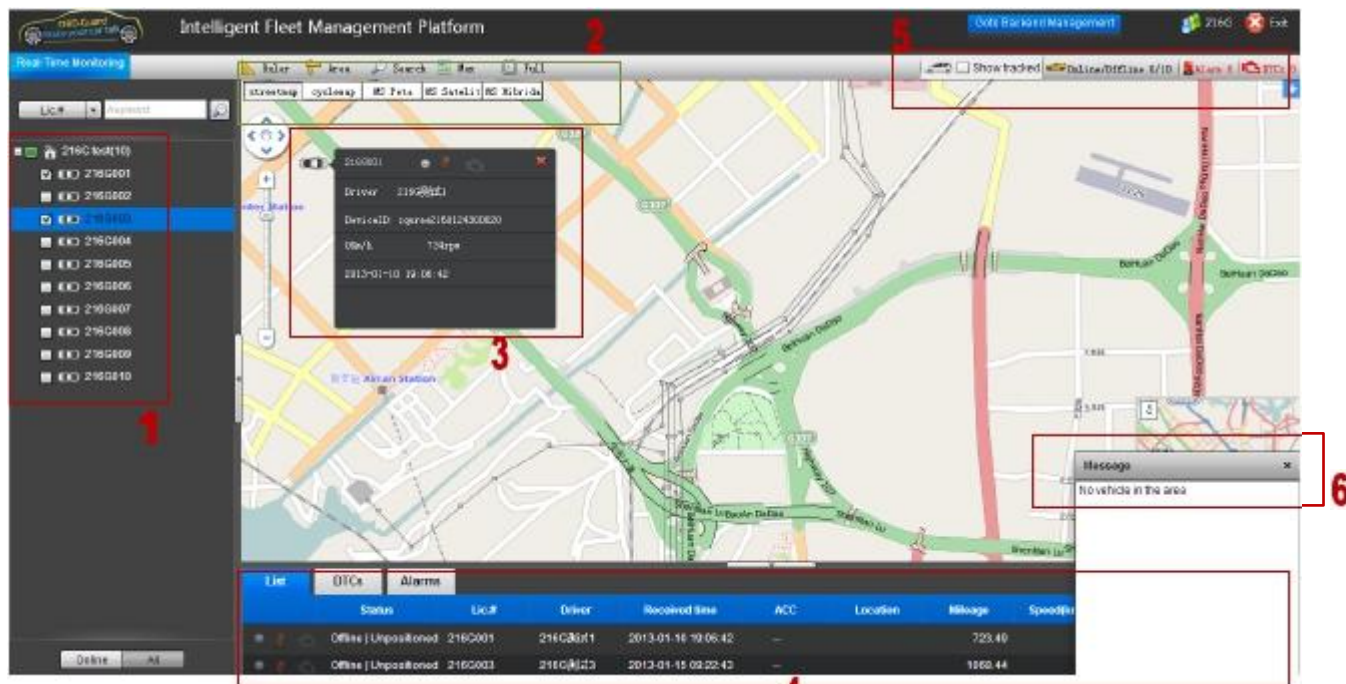


Figure 4.4\_1

### 1: Vehicle list area:




Support to search、choose more enterprises, vehicles to search;

### 2: Map operation area;

Distance measurement  **Ruler**、Test Area  **Area**、Search vehicle at current map viewing area

 **Search**、Map maximization  **Max**、Full screen  **Full**;

### 3: Vehicle position information:

Check location information on the map: Lic.#、Group、Online status  (Indicator is green when online)、whether there is alarm  (Light on means there is new alarm)、whether there is DTC  (Light on means there is new DTC)、driver、device ID、speed、RPM、GPS received time;

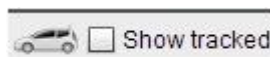
### 4: Data list:

The selected vehicle at left side area 1 could display here, could check:

Data type	Content
Vehicle current status	Online status、Alarm status、DTCs status、Location condition; Lic.#、Driver、GPS received time、ACC status、Location、Trip、Speed、RPM、GPS direction
DTCs list	Lic.#、Unit、Occurred time、DTCs、DTCs Type、DTCs details、Occurred Location、Freeze frame
Alarms list	Lic.#、Unit、Occurred time、Alarm type、Alarm description、Occurred location

#### 5: Page identified area:

Current map viewing to check all tracked vehicle



, all vehicles online/offline volume

Online/Offline 2/60

, Alarms volume

Alarm 0

, DTCs volume

DTCs 0



: Choose the unnecessary remind alarm type, default setting is all; Alarm sound setting: If turn on all

vehicles alarm sound; online,offline prompts:

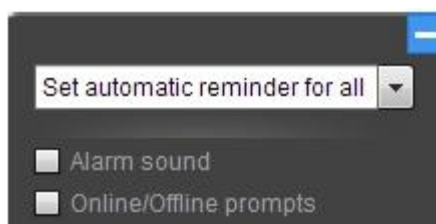


Figure 4.4\_2

#### 6: Realtime alarm area:

Realtime pop-up DTC alarm、Alarms alarm、Geo-fence alarm;

### 4.5 Backend management

Realtime monitoring interface, click:

[Goto Backend Management](#)

to enter into backend management.

Backend management including functions range: a. Vehicle asset management; b.vehicle driving trip data query; c.driver driving analysis; d. Fleet key data trend analysis; e.report query and export; f.Geo-fence alarm setting; g.system management

Each account level supported functions list at left side:

Functions list	Fleet operator	Fleet enterprise	Fleet
Vehicle data statistics	✓	✓	✓
Vehicle safety driving analysis	✓	✓	✓
Vehicle economic driving analysis	✓	✓	✓
Fleet driving trip data analysis	✓	✓	✓
Travel report	✓	✓	✓

Fuel consumption report	✓	✓	✓
Location report	✓	✓	✓
Group management	✓	✓	✗
User management	✓	✓	✓
Driver management	✓	✓	✓
Vehicle management	✓	✓	✓
Device management	✓	✓	✓
Role management	✓	✓	✓
Geo-fence management	✓	✓	✓
Message dispatch to terminal (with screen)	✓	✓	✓
System log	✓	✓	✓
Enterprise information	✓	✓	✓

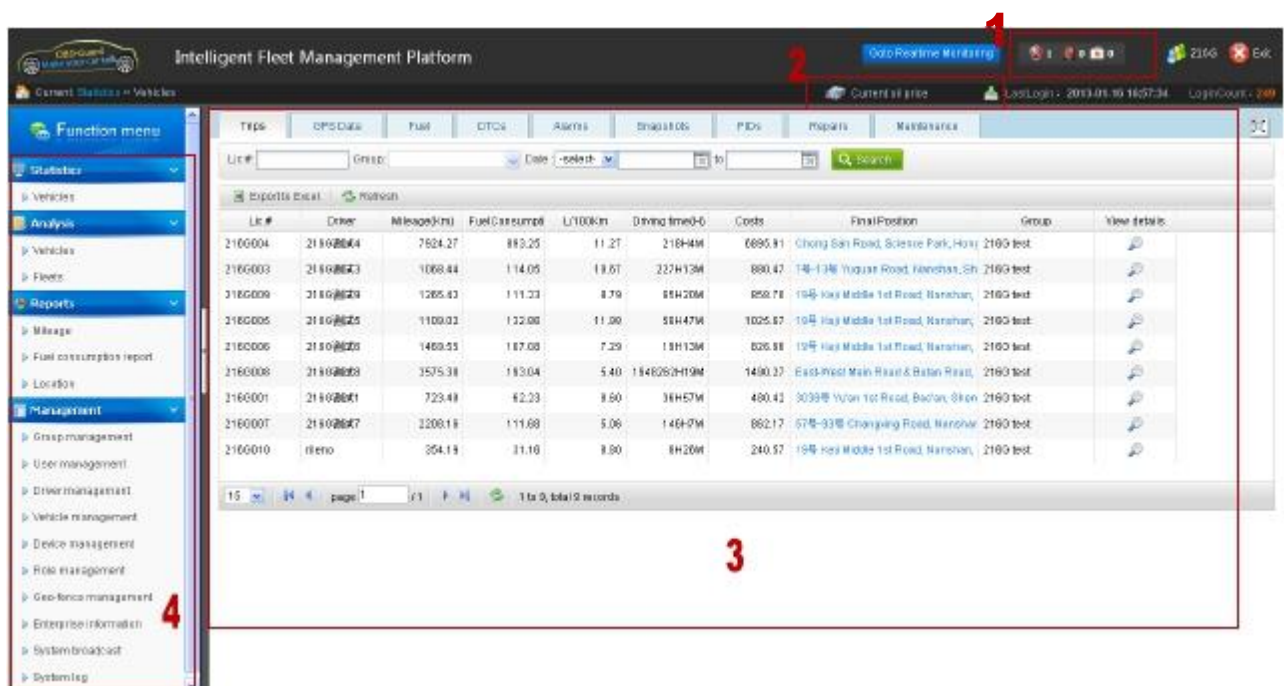


Figure 4.5\_1

Overall display:

1: Alarm prompt:

a. Current existed DTCs volume  3, click to check DTCs list;

b. Current new alarm volume  0, click to check alarms list;

c. Current maintenance remind volume  7, click to check automatic appear maintenance reminder;



**2:** Oil price edit: Put the mouse on current oil price, the system will pop-up oil price information, as shown in figure:



Figure 4.5\_2

Click edit button to edit oil price:

FuelType	Fuel	OilPrice (unit:\$)
gas	90#	<input type="text"/> *
	93#	<input type="text"/> *
	97#	<input type="text"/> *
Diesel		<input type="text"/> *

Tip: for cost accuracy, please update the price when the actual oil price changed.

Save Cancel

Figure 4.5\_3


Fast download : Click this button, direct download system tool, click it would pop-up download tooltip:



Figure 4.5\_4

**3:** Data display and operation area;

**4:** Function swift area;

## 4.6 Vehicle data statistics

After creating vehicle relative information on platform, if customer use PC Tool to set OBD device and platform 's communication parameter successfully, then after plugging device into vehicle and start engine, all vehicle relative data will be uploaded to platform.

## Vehicle based data statistics including:

Trip | GPS data | Fuel consumption | DTCs | Alarms | Snapshots | PIDs | Repairs | Maintenance



Figure 4.6\_1

### 4.6.1 Trip

Enter into: Statistics -> Vehicles -> Trips:

Default display: All vehicles trip record at current account, as shown in figure:

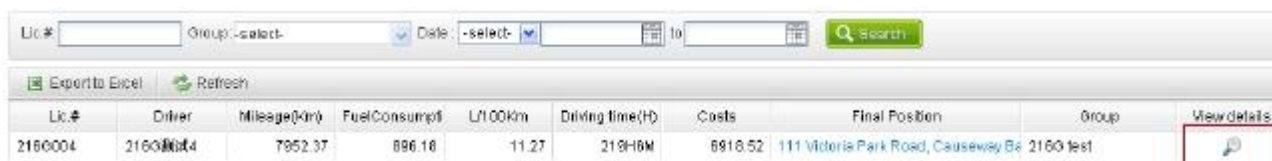


Figure 4.6.1\_1

Check trip details: Click View details column icon at right side, check one vehicle trip details, as shown in figure:

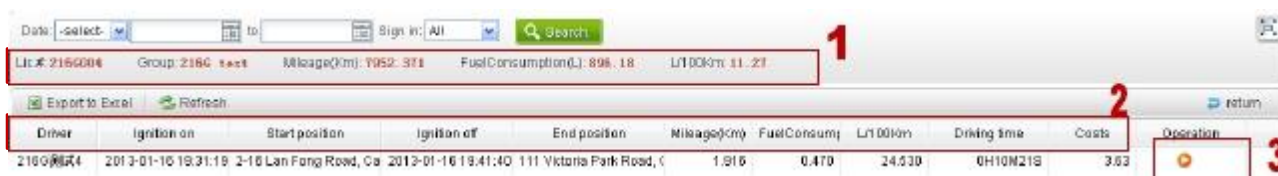


Figure 4.6.1\_2

History trace replay: Click Operation column icon 3 at right side, check one vehicle trip 's trace replay, as shown in figure:



Figure 4.6.1\_3

- 1: Real-time RPM/Speed display;
- 2: Whether display happened alarm information at history trace replay;
- 3: Play speed control;

#### 4.6.2 GPS data

**Enter into:** Statistics -> Vehicles -> GPS data :

**Default display:** All vehicles the latest GPS data record currently, as shown in figure:

<a href="#">Trips</a> <a href="#">GPS Data</a> <a href="#">Fuel</a> <a href="#">DTCs</a> <a href="#">Alarms</a> <a href="#">Snapshots</a> <a href="#">PIDs</a> <a href="#">Repairs</a> <a href="#">Maintenance</a>									
lic #	Group	select	Time	select	2013-01-18	to	2013-01-16	Search	
<a href="#">Report GPS data</a> <a href="#">Refresh</a>									
lic #	Time	Location	Speed<Mph>	RPM(RPM)	Direction	Alarm	Longitude	Latitude	Operation
2160004	2013-01-16 20:16:32	1-18 Wing Hing Street, Causeway Bay, Hong	33.7	1541	W by N66.0°		114.19070	22.28512	

Figure 4.6.2\_1

**Check GPS data details:** Click Operation column icon at right side, check one vehicle GPS data receiving details, as shown in figure:



**Default display:** All vehicles DTCs record at current account, as shown in figure:

Lic #	Driver	Pending	Cleared	Group
216G010	rileno	3	0	216G test
216G007	216G测试7	0	3	216G test

Figure 4.6.4\_1

**1:** Pending: un-cleared DTCs, still existed DTCs, click the number to check one vehicle Pending DTCs list;

**2:** Cleared: cleared DTCs, occurred DTCs, click the number to check one vehicle Cleared DTCs list;

**Check DTCs details :** View DTCs details by clicking one vehicle Pending or Cleared number, as shown in figure:


Driver	Time	DTCs	Times	Type	Details	Location	Freeze frame
rileno	2012-12-05 17:35:10	P0447	1	Auxiliary Emissl	Evaporative Emission Control System Vent		
rileno	2012-12-05 17:36:10	P2122	1	Other			
rileno	2012-12-05 17:36:10	P2125	1	Other			

Figure 4.6.4\_2

**1:** DTCs severity level:

- Very serious, please handle it immediately;
- Serious, please handle it in time;
- Common, you can handle it later;
- Slight, you can ignore this fault;

**2:** DTCs occurred times: click to view the exact occurred time;

**3:** DTCs details: click view DTCs possible reasons and maintenance suggestions that shows  icon;

**4:** DTCs location: click map window view DTCs exact location;

**5:** Freeze frame: click view data saved by vehicle system and current DTCs related data when DTCs occurred ( maybe no data, it is relative to vehicle system record when DTCs occurred )

#### 4.6.5 Alarms

**Enter into:** Statistics -> Vehicles -> Alarms:

**Default display:** All vehicles alarms record at current account, as shown in figure:



Trips	GPS Data	Fuel	DTCs	Alarms	Snapshots	PIDs	Repairs	Maintenance
Lic.#: <input type="text"/> Group: <span>-select-</span>  Date: <span>-select-</span>  2012-10-18  to 2013-01-16   Search								
 Export to Excel  Refresh								
	Lic.#	Driver	Alarms	Latest alarm	Latest alarm time	Latest alarm location	Group	View details
	216G003	216G测试3	152	0	2013-01-15 09:21:18	7号-13号 Yuquan Road, Nanshan, Sh	216G test	

Figure 4.6.5\_1

**Check alarm details:** Click one vehicle View details column ,check alarm details, as shown in figure:

Type: All	Date: -select-	2012-10-18	to	2013-01-16	Search	
Low voltage: 2	Towing: 2	High ETC: 134	Idling: 2	Emissions: 1	Plug: 5	Cutting line: 6
Export to Excel	Refresh					
Driver	Time	Type	Alarm	Location		
216G测试3	2013-01-15 09:21:18	High ETC	Temperature exceeds 80℃, please take care!			

Figure 4.6.5\_2

**Check alarm location :** Click Location column icon, check alarm location details on map window (how to set alarm ?);

#### 4.6.6 Snapshots

**Enter into:** Statistics -> Vehicles -> Snapshots:

**Default display:** All vehicles recent data informations for vehicle ignition record at current account, as shown in figure:

Trips	GPS Data	Fuel	DTCs	Alarms	Snapshots	PIDs	Repairs	Maintenance
Lic.#: <input type="text"/> Group: <input type="text" value="select-"/> Date: <input type="text" value="-select-"/> <input type="text" value="2012-10-18"/> to <input type="text" value="2013-01-16"/> <input type="button" value="Search"/>								
<input type="button" value="Export to Excel"/> <input type="button" value="Refresh"/>								
Lic.#	Driver	Snapshots	Latest snapshot	Group	Operation			
216G005	216G测试5	127	15	216G test				

Figure 4.6.6\_1

**Check Snapshots details:** Click Operation column icon,check one vehicle snapshot data, as shown in figure:

Date: 

-select-

 2012-10-18 to 2013-01-16 

Search

Lic.#: 216G005

Group: 216G test

Snapshot: 127

Export to Excel

Refresh

Time	Location	Snapshot
2013-01-16 20:05:49	<div></div>	<div></div>

Figure 4.6.6\_2

**1:** Occurred location: snapshot upload location;

**2:** Snapshot detailed data, different vehicles support different data ( How to check the data that my car support ? );

Snapshot	
Time :2013-01-16 20:06:49	Export to Excel
Vehicle data stream	value
Fuel System Status	2
Calculated Load Value	57
Engine Coolant Temperature	24
Short Term Fuel Trim-Bank1 Bank3	0
Long Term Fuel Trim-Bank1 Bank3	2
Intake Manifold Absolute Pressure	57
Engine RPM	1249
Vehicle Speed Sensor	0
Ignition Timing Advance for 1	-10
Intake Air Temperature	22
Absolute Throttle Position	19
Location of O2 Sensors	3
O2 Sensor Output Voltage B1S1	0.755
O2 Sensor Output Voltage B1S2	0.43
OBD Require To Which Vehicle Designed	6
Time Since Engine Start	12
Distance Travelled While MIL Activated	0
Commanded Evaporative Purge	0

Figure 4.6.6\_3

#### 4.6.7 PIDs

**Enter into: Statistics -> Vehicles -> PIDs:**

**Default display:** All vehicles PIDs record at current account, as shown in figure:

Lic.#

Group:

select

Date:

-select-

2012-10-18

to

2013-01-16

Search

Export to Excel

Refresh

Lic.#	Driver	Data details	Chart analysis	Group
218G004	218G测试4			218G test

Figure 4.6.7\_1

**1:** Data details: Click view detailed PIDs data record , as shown in figure:

Date:

-select-

2012-10-18

2013-01-16

Search

Lic.#: 216G004

Group: 216G test

Export to Excel

Refresh

Time	Engine RPM	Mass Air Flow Sensor	Engine Coolant Temperature	Vehicle Speed Sensor
2013-01-16 20:38:00	970	4	86	20
2013-01-16 20:37:00	725	4	86	7
2013-01-16 20:34:00	1780	24	84	92

Figure 4.6.7\_2

**2:** Data graph: click view icon-based PIDs data, as shown in figure:

Data details

Chart analysis

Date: -select- 2012-10-18 2013-01-16 Search

Lic.#: **216G004** Group: **216G test**

Refresh

Ignition on	Ignition off	Operation
2013-01-16 20:03:03	2013-01-16 20:38:49	<span>view details</span>
2013-01-16 19:31:19	2013-01-16 19:41:40	<span>view details</span>

Figure 4.6.7\_3

**Check details:** click view details, as shown in figure:



Figure 4.6.7\_4

## 4.6.8 Repairs

**Enter into:** Statistics -> Vehicles -> repairs:

**Default display:** Vehicle repair record at current account, as shown in figure:

<span>New repair</span>	<span>Import repair</span>	<span>Export to Excel</span>	<span>Refresh</span>				
Lic #	Driver	Start time	End time	Repair item	Cost	Group	Operation
216G002	216G002	2012-11-20	2012-11-20	换雨刮	200.00	216G test	<span>view details</span>

Figure 4.6.8\_1

**Support operations :** Add, modify, import( Excel format ), delete, export repair record;

## 4.6.9 Maintenance

**Enter into :** Statistics -> Vehicles -> Maintenance

**Default display:** Vehicle maintenance record at current account, as shown in figure:



Lic.#	Owner	Group	Remind basis	Maintenance at	Current status	Interval	Tel	Status	Operation
2160002	2160002	2160 test	Mileage or time	100.00	100.00	-	-	Maintained	

Figure 4.6.9\_1

**1:** Maintenance setting: Click set vehicle maintenance reminder, system will automatically generated reminder according user setting, as shown in figure:

Lic.#	Usermae	Group	Remind basis	First maintained	Maintenance interval	Pre-remind m	Time interval	Maintenance da	Remind switch	Operation
-------	---------	-------	--------------	------------------	----------------------	--------------	---------------	----------------	---------------	-----------

Figure 4.6.9\_2

**Click New Reminder:**

Group:

Lic.#:

Remind basis: ☒ Mileage or time, whichever is earlier ☐ Mileage ☐ Driving time

**Mileage**

First maintained:  Km  
Your first maintained mileage, like 5000Km.

Maintenance interval:  Km  
Maintenance interval after first maintenance, like maintaining per 8000 Km.

Pre-remind mileage:  Km  
Mileage before maintenance mileage to remind you.

**Driving time**

Time interval:  months  
Time interval.

Maintenance date:    
Please choose the maintenance time interval.

:  days  
Days before maintenance date to remind you.

Remind switch: ☒ ON ☐ OFF

Figure 4.6.9\_3

## 4.7 Analysis

Analysis model mainly include vehicle safety driving analysis, vehicle economic driving analysis and fleets driving data trend three parts.

### 4.7.1 Safety driving

**Enter into:** Analysis -> Vehicles -> Safety driving

**Default display:** Vehicle safety driving analysis at current account, as shown in figure:

Lic.#	Lic.#	Average score	Driving days	Suggestion	Group	View details
2160001	2160001	50(A)	36	Safety, please keep a good driving ha	2160 test	

Figure 4.7.1\_1

**Check details :** Click View details column icon at right side, check details :

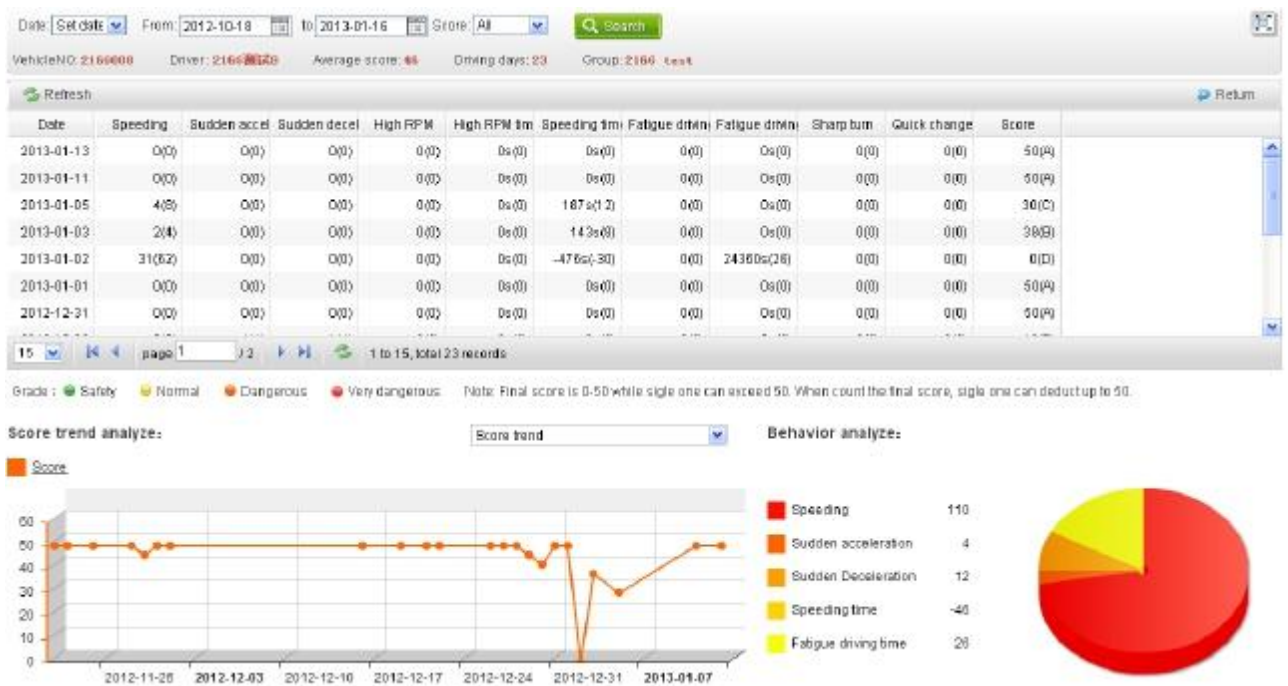


Figure 4.7.1\_2

### 4.7.2 Economic driving

**Enter into:** Analysis -> Vehicles -> Economic driving

**Default display:** Vehicle economic driving analysis at current account, as shown in figure:

Lic.#	Lic.#	Average score	Driving days	Suggestion	Group	View details
2160001	2160001	50(A)	36	Economy, regular maintain keeps a g	2160 test	
2160003	2160003	50(A)	40	Economy, regular maintain keeps a g	2160 test	

Figure 4.7.2\_1

**Check details :** Click View details column icon at right side, check details :



Grade: Economy Normal Costly Gas guzzler Note: Final score is 0-50 while single one can exceed 50. When count the final score, single one can deduct up to 50.

Score trend analyze:

Score



Behavior analyze:

Speeding 12  
Sudden Deceleration 4

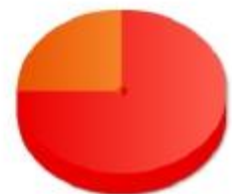


Figure 4.7.2\_2

### 4.7.3 Fleets

Enter into: Analysis -> Fleets:

Default display: Vehicle relative driving data overview(mileage, fuel consumption, alarm, DTCs, maintenances and repairs,etc ) at current account, as shown in figure:

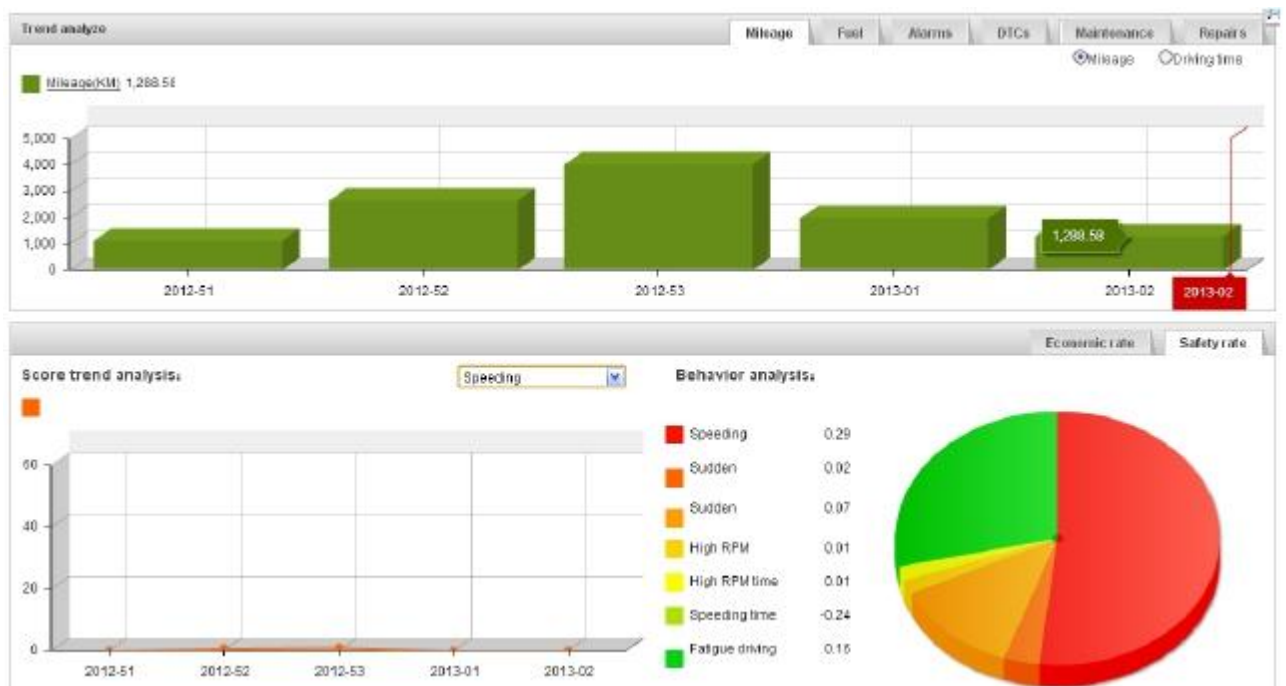


Figure 4.7.3\_1

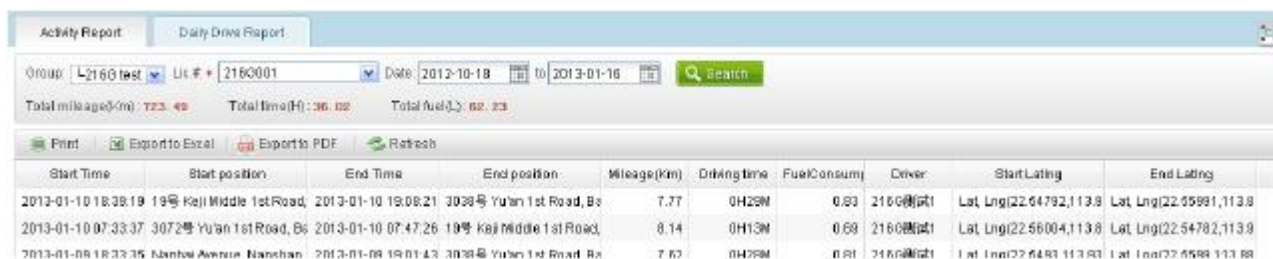
## 4.8 Report

### 4.8.1 Mileage report

Enter into: Reports -> Mileage:

#### a. Activity report:

Set to check one vehicle mileage situation in a period, as shown in figure:



The screenshot shows the 'Activity Report' tab selected. The search criteria are Group: L216G test, Lic #: 216G001, Date: 2012-10-18 to 2013-01-16. The search button is green. Below the search bar, summary statistics are displayed: Total mileage(Km): 723.48, Total time(H): 36.02, Total fuel(L): 62.23. Below these are buttons for Print, Export to Excel, Export to PDF, and Refresh. The main table has columns: Start Time, Start position, End Time, End position, Mileage(Km), Driving time, FuelConsum, Driver, Start Lat/Lng, and End Lat/Lng. The table contains three rows of activity data.

Start Time	Start position	End Time	End position	Mileage(Km)	Driving time	FuelConsum	Driver	Start Lat/Lng	End Lat/Lng
2013-01-10 18:38:19	19号 Kaji Middle 1st Road,	2013-01-10 19:08:21	3038号 Yulan 1st Road, Bz	7.77	0H29M	0.83	216G测试1	Lat: Lng(22.64792,113.8	Lat: Lng(22.65991,113.8
2013-01-10 07:33:37	3072号 Yulan 1st Road, Bz	2013-01-10 07:47:26	19号 Kaji Middle 1st Road,	8.14	0H13M	0.68	216G测试1	Lat: Lng(22.66004,113.8	Lat: Lng(22.64782,113.8
2013-01-08 18:22:35	Nanhai Avenue, Nanhai	2013-01-08 19:01:42	3038号 Yulan 1st Road, Bz	7.67	0H29M	0.81	216G测试1	Lat: Lng(22.6483,113.83	Lat: Lng(22.6599,113.88

Figure 4.8.1\_1

#### b. Daily Drive report:

Set to check some vehicles daily drive report situation under one enterprise, as shown in figure:



The screenshot shows the 'Daily Drive Report' tab selected. The search criteria are Group: L216G test, Vehicle pool: 216G001,216G002,216G003,216G004, Date: 2013-01-16. The search button is green. Below the search bar, summary statistics are displayed: Total mileage(Km): 376.66, Total time(H): 9.5, Total fuel(L): 35.46. Below these are buttons for Print, Export to Excel, Export to PDF, and Refresh. The main table has columns: Lic.#, Car type, Group, Driver, Mileage(Km), Driving time, and FuelConsumption(L). The table contains seven rows of daily drive data.

Lic.#	Car type	Group	Driver	Mileage(Km)	Driving time	FuelConsumption(L)
LIRAN	Ford	216G test	liran_test	78.24	0H46M	6.55
216G009	VW	216G test	216G测试9	12.66	0H43M	1.50
216G003	Benz	216G test	216G测试3	15.33	1H5M	1.94
216G005	Besturn	216G test	216G测试5	14.04	0H39M	1.82
216G006	BYD	216G test	216G测试6	31.41	1H2M	2.29
216G004	Buick	216G test	216G测试4	224.98	5H13M	21.36

Figure 4.8.1\_2

### 4.8.2 Fuel consumption report

Enter into: Reports -> Fuel consumption report:

Set to check some vehicles fuel consumption situation under one enterprise, as shown in figure:

Group: L216G test Vehicle pool: 216G001,216G002,216G003,216 Date: 2012-10-18 to 2013-01-16 Search

Total mileage(Km): 19917.04 Total time(H): 922.17 Total fuel(L): 1779.52

Print Export to Excel Export to PDF Refresh

Lic.#	Car type	Group	Mileage(Km)	Driving time	FuelConsumpti	L/100Km
216G004	Buick	216G test	7979.82	219H42M	898.70	11.26
216G005	Bestun	216G test	1142.83	51H57M	137.26	12.01
216G003	Benz	216G test	1105.57	228H55M	118.58	10.73
216G009	VW	216G test	1290.58	86H30M	114.30	8.86
216G006	BYD	216G test	1532.53	20H52M	111.77	7.29
LIRAN	Ford	216G test	78.24	0H46M	6.55	8.37

Figure 4.8.2\_1

### 4.8.3 Location report

**Enter into:** Reports -> Location:

Set to check some vehicles the latest received GPS location informations situation on platform under one enterprise, as shown in figure:

Group: L216G test Vehicle Pool: 216G001,216G002,216G003,216 Search

Print Export to Excel Export to PDF Refresh

Lic.#	CarType	Group	Driver	Position	Position coordinate	Position time	Speed (km/h)
LIRAN	Ford	216G test	liran_test	19号 Keji Middle 1st Road, Nanshan, Shenzhen	Lat, Lng(22.54714,113.9359)	2013-01-16 17:10:54	36
216G010	Ford	216G test	rleno	19号 Keji Middle 1st Road, Nanshan, Shenzhen	Lat, Lng(22.54897,113.9388)	2013-12-05 15:02:38	0
216G009	VW	216G test	216G测试9	40号 Nanguang Road, Nanshan, Shenzhen, Ch	Lat, Lng(22.51517,113.9221)	2013-01-16 19:16:50	26
216G008	Bentley	216G test	216G测试8	East-West Main Road & Bulei Road, Longgan	Lat, Lng(22.62274,114.1394)	2013-01-13 21:23:29	0
216G007	Benz	216G test	216G测试7	57号-83号 Changping Road, Nanshan, Shenzh	Lat, Lng(22.52986,113.9207)	2013-01-09 21:55:17	0

Figure 4.8.3\_1

## 4.9 Management

### 4.9.1 Group management

**Enter into:** Management -> Group management:

**Default display:** All the enterprises informations including current enterprise, as shown in figure:

Name

Enterprise: 216G test

Search

New Group

Import Group

Export to Excel

Refresh

Name	Upper enterprise	Enterprise	Device	Address	Contact	Tel	Mobile	Email	Operation
216G test	数据公司	Oversee F	11			1234568		SDFSDF@SOHU	

Figure 4.9.1\_1

**Supported operation:** Add,import, edit, delete and export enterprise;

Note: this function only available for fleet operators and fleet enterprises, fleet or driver account role doesn't have this function.

### 4.9.2 User management

**Enter into:** Management -> User management:

**Function:** Create a new user account for one unit to login platform, as shown in figure:







: The icon is used for Binding one device to the vehicle, user can check the vehicle data on platform and knowing the collected data informations by device only after binding the device to exact vehicle.



: PIDs data query icon, click view data flow informations that current vehicle support to read, as shown in figure:

Required:

- ☒ Engine Coolant Temperature
- ☒ Intake Manifold Absolute Pressure
- ☒ Engine RPM
- ☒ Vehicle Speed Sensor
- ☒ Intake Air Temperature

Tip: required PIDs is for calculating mileage and fuel consumption.

Optional:

Tip: choose required and optional PIDs, total chose PIDs limit to 10.

Figure 4.9.4\_2

Note: Choose required and optional PIDs, total chose PIDs limit to 10, due to the fuel consumption need, user can choose other interested data on Optional column icon. The selected the data upload details can be checked on PIDs list.

#### 4.9.5 Device management

**Enter into:** Management -> Device management:

**Function:** Manage devices informations under current account, user devices come from upper enterprises, as shown in figure:

Device type:  Device ID:   Group:  Batch:  Assign status:

Device ID	Device type	Software version	Group	Batch	Lic.#	Assign status	Enable time	Assign time	Operation
IDD-216002Test13011	OBD-2160	IDD_216002_S V1.1.1		H100000000	URAN	Sold	2013-01-16 16:54:24	-	
bxdbbk2160124300019	OBD-2160	IDD_216001_S V1.0.0		H100000000	2160010	Sold	2012-10-29 15:55:24	-	
ochksa216012430002	OBD-2160	IDD_216001_S V1.0.0		H100000000	2160009	Sold	2012-10-29 15:54:37	-	

Figure 4.9.5\_1

**Supported operation:** Assign, export, authorize, set, etc;



: The icon can set current device basic setting, alarms setting, mobiles setting, as shown in figure:

Basic setting

Alarms

Mobiles

Close device switch, device will not be able to upload device data. Close GPS, device will not be able to upload GPS data

---

Device ID: IDD-216G02Test130111

Device type: OBD-216G

Device switch: ☒ ON ☐ OFF

GPS device: ☒ ON ☐ OFF

PIDs switch: ☒ ON ☐ OFF

Mobiles: ☒ ON ☐ OFF

PIDs parameter setting:

Collection interval  seconds (range: 2~600)    Upload packets  (range: 1~30)

GPS upload setting:

Collection interval  seconds (range: 1~600)    Upload packets  (range: 1~30)

☐ Apply to all devices

Figure 4.9.5\_2

Basic setting

Alarms

Mobile

Device ID: IDD-216G02Test130111    Device type: OBD-216G

Setting **1**

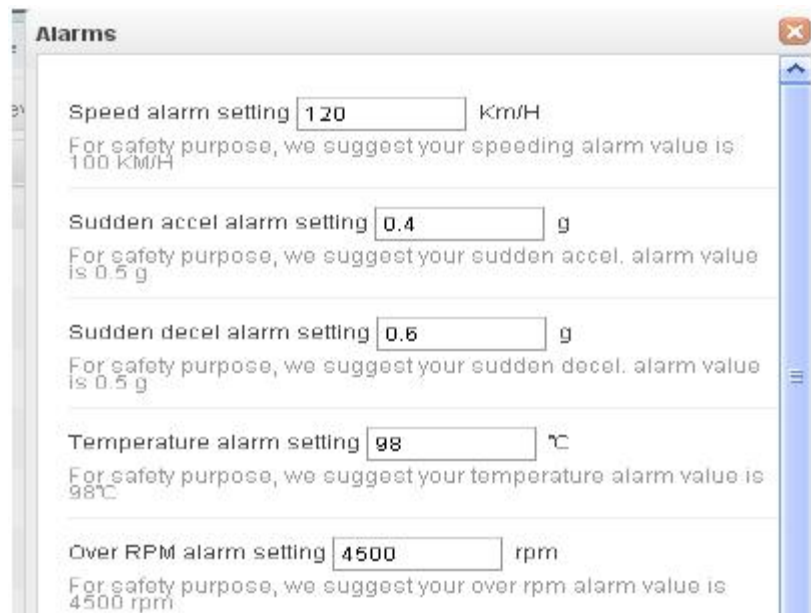
Speed alarm setting 120 Km/H	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Sudden accel alarm setting 0.4 g	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Sudden decel alarm setting 0.6 g	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Temperature alarm setting 98 °C	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Over RPM alarm setting 4500 rpm	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Low-voltage alarm setting 10.5 V	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Parking with engine running setting 15 min	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Quick change line alarm setting 0.4 g	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Sharp turn alarm setting 0.5 g	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Fatigue driving alarm setting 4 hour	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	
Crash alarm setting 1.5 g	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	

☐ Enable for the devices with same type



Figure 4.9.5\_3


1: Click Settings, modify all the alarm threshold value setting, as shown in figure:



The 'Alarms' window displays five alarm settings, each with a text input field and a unit. Below each input field is a safety suggestion. The settings are: Speed alarm setting (120 Km/H, suggestion 100 Km/H), Sudden accel alarm setting (0.4 g, suggestion 0.5 g), Sudden decel alarm setting (0.6 g, suggestion 0.5 g), Temperature alarm setting (98 °C, suggestion 98°C), and Over RPM alarm setting (4500 rpm, suggestion 4500 rpm).

Alarm Type	Setting Value	Unit	Safety Suggestion
Speed alarm	120	Km/H	100 Km/H
Sudden accel	0.4	g	0.5 g
Sudden decel	0.6	g	0.5 g
Temperature	98	°C	98°C
Over RPM	4500	rpm	4500 rpm

Figure 4.9.5\_4



The 'Basic setting' window shows tabs for 'Basic setting', 'Alarms', and 'Mobile'. Below the tabs is a 'Device ID' field with the value 'IDD-216G02Test130111'. A red arrow points to a '+ Setting' button. Below this is a table with columns 'Name', 'Mobile phone number', and 'State'.

Name	Mobile phone number	State
------	---------------------	-------

Figure 4.9.5\_5

1: Click Setting, set mobile number for receiving alarm message.

## 4.9.6 Role management

**Enter into:** Management -> Role management:

**Function:** After user login system, use system function and data access authority. User can configure access for other subsidiary account according to business need, as shown in figure:

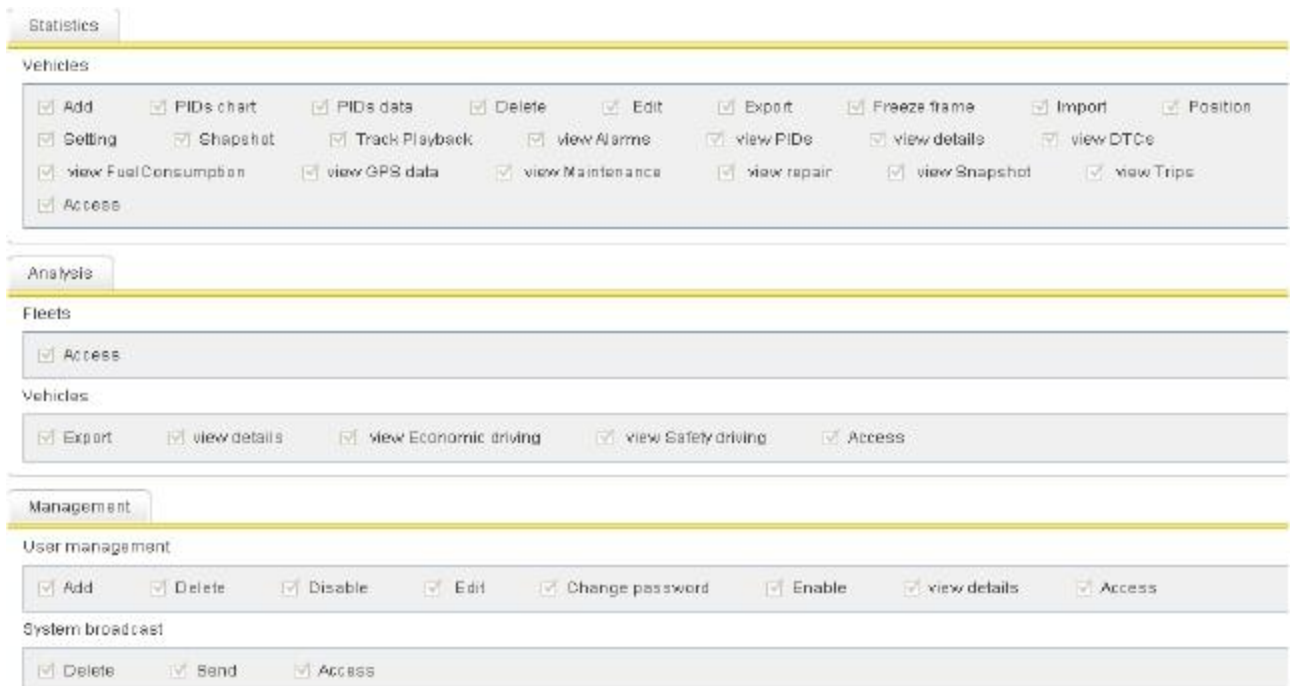


Figure 4.9.6\_1

Note: Added role could authorize user account by User management.

#### 4.9.7 Geo-fence management

**Enter into: Management -> Geo-fence management:**

**Function:** This function is used for vehicle regional monitoring, providing region drive in/out alarms; as shown in figure:

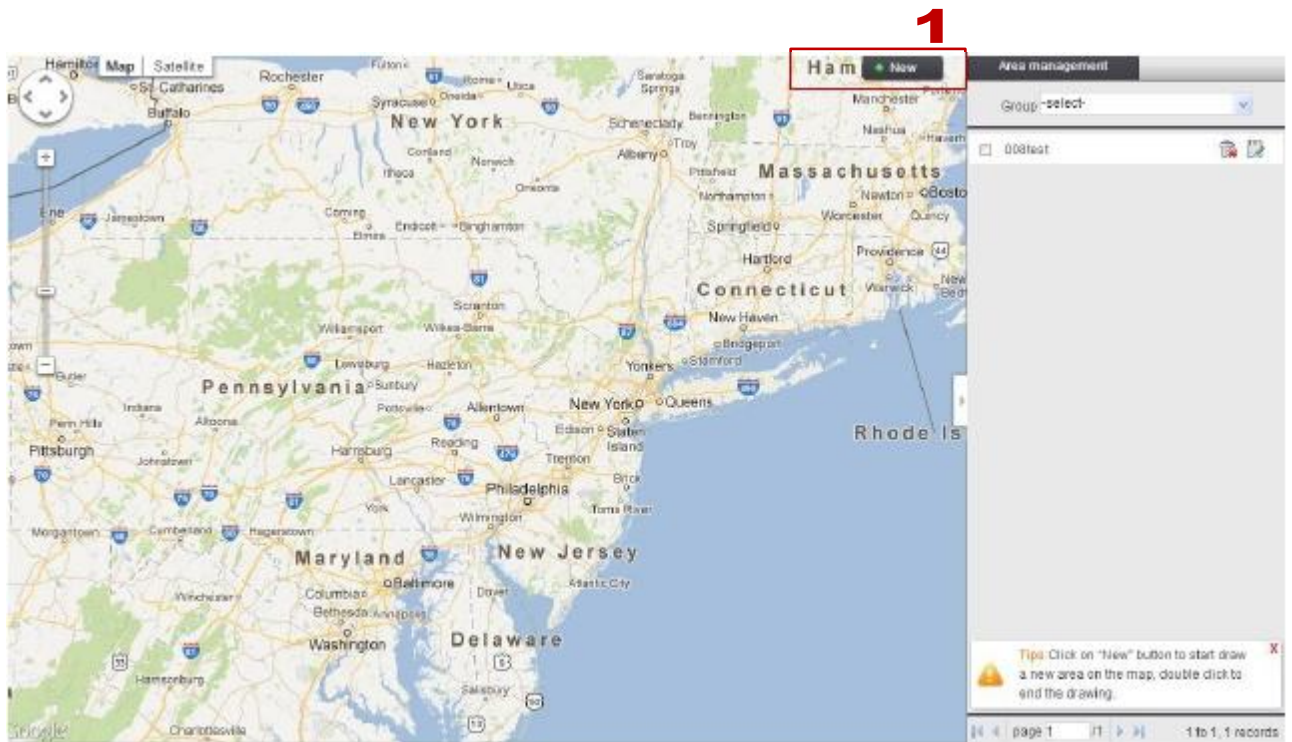


Figure 4.9.7\_1

**Supported operation:** New、Edit、Delete

**1:** Click New, directly click draw monitoring region on the map, double click to determine the region, and set the region vehicles, properties and alarm type.

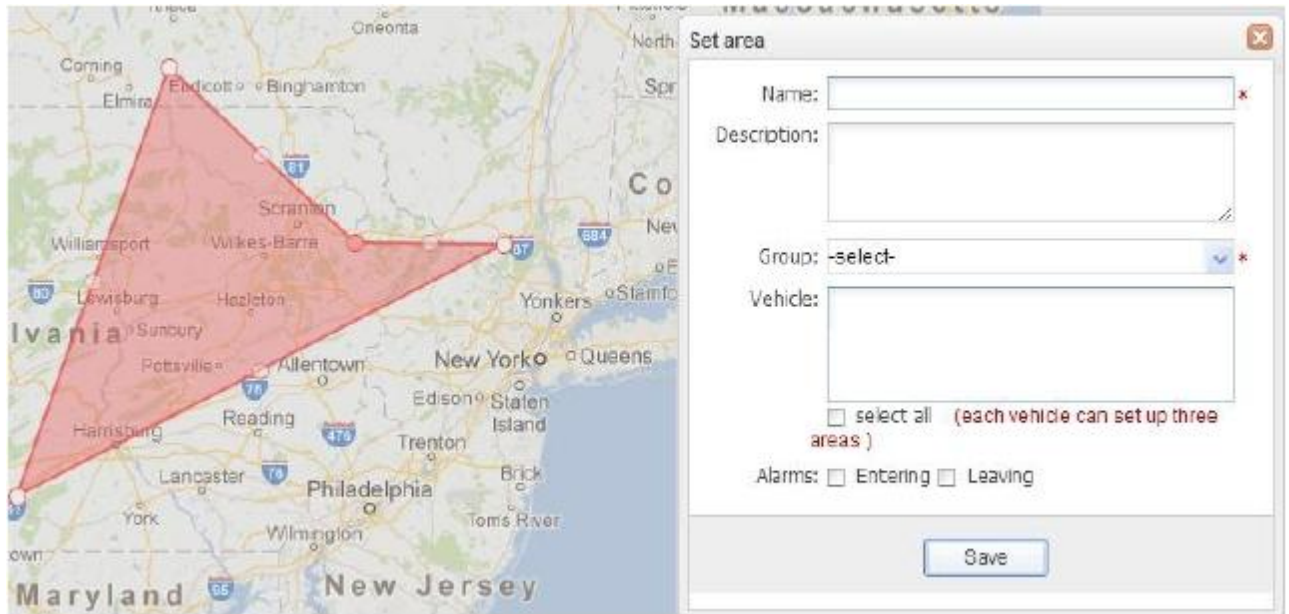


Figure 4.9.7\_2

#### 4.9.8 System Broadcast

**Enter into:** Management -> System broadcast:

**Function:** This function is only for device with a screen-side, the platform dispatch message to screen-side display.

Send Bulk delete Refresh						
<input type="checkbox"/>	Title	Following vehicle	Date	State	Operation	
<input type="checkbox"/>	send message	T29088	2012-11-10 13:52:42	Send successfully		
<input type="checkbox"/>	send message	T2089	2012-11-10 13:52:42	Send successfully		

Figure 4.9.8\_1

**Supported operation:** send message、delete message、delete message in batch;

#### 4.9.9 Enterprise Information

**Enter into:** Management -> Enterprise information:

**Function:** This function is used for checking current account enterprise information, as shown in figure:

Enterprise Info	
<b>Company:</b>	216G test
<b>Address:</b>	
<b>Contact:</b>	
<b>Tel:</b>	1234568
<b>Mobile:</b>	
<b>Email:</b>	SDFSDF@SOHU.COM
<b>IM:</b>	
<b>Created at:</b>	2012-10-29 14:23:08

Figure 4.9.9\_1

#### 4.9.10 System log

**Enter into:** Management -> System log:

**Function:** This function can record user's system operation, it could be used in operation query, as shown in figure:

Date:	<input type="text"/>	to	<input type="text"/>	Module:	All	Operator:	<input type="text"/>	<input type="button" value="Search"/>
<input type="button" value="Refresh"/>								
Time	Module	Operation	Operator					
2013-01-16 21:49:54	Login/Exit	Exit system	216G					
2013-01-16 20:52:23	Login/Exit	Login system	216G					
2013-01-16 20:35:11	Login/Exit	Login system	216G					
2013-01-16 19:49:19	Login/Exit	Login system	216G					

Figure 4.9.10\_1