

CMSV6 vehicle tracking and monitoring operation platform

User Manual

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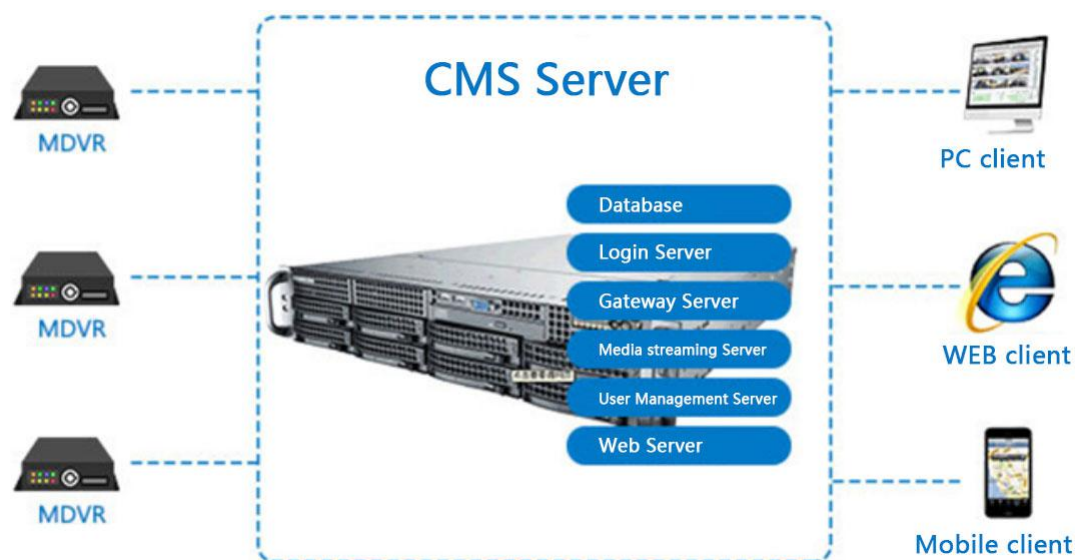
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I. Preparation purpose

Real-time reflection of actual conditions regarding all online operating vehicles can be conducted by central platform. Online management, system upgrade and technical support for each branch control center are realized; Statistics of each branch control center is performed as well as operational data is uploaded by the workstation; Statistics and analysis of various data are conducted as per management and service requirements. The monitoring center can provide a platform interface and information service for all related competent departments (transportation, public security, traffic policy, safety supervision, construction, etc.) of the government in the industry, realizing resource sharing at the same time.

II. Platform introduction



CMS mainly includes nine parts---login server, gateway server, streaming media server, user server, and automatic download server of WIFI, storage server, WEB server, FTP server and remote monitoring client.

For the server part, one or two database servers, one or two login servers, several gateway servers, several streaming media servers and several user management servers provide GPS, video, alarm and other services for on-board DVR and clients.

Database server: Mainly used for saving configuration information of the server, alarm event, etc. Database here adopts MySQL-5.18.12-win32.

Login server: Accepting registration of various servers as well as coordinating and managing servers succeeded in login. Distributing user manager servers for clients and the configuration side as well as distributing gateway servers to on-board DVR equipment; Realizing load balancing of such servers as user management server and gateway server.

Gateway server: Providing vehicle access service. Communications link between vehicle and gateway server is established and such communication line is used to transmit the vehicle position and status information.

Streaming media server: Providing media data forwarding function. It mainly includes data forwarding of audio and video, talkback, monitoring, snapshot, parameter configuration, search and download.

User management server: Providing client access service.

Automatic download server of WIFI: After the vehicle enters the station, if wifi is found, it's necessary to automatically connect and download video files.

Storage server: Used for saving picture snapshot by video recording to reduce cost

WEB server: Mainly providing GIS electronic map information as well as providing linking service for login of CMS background and front desk management system.

FTP server: Mainly used for file transmission

Client side: Providing the functions of real-time video preview, GPS positioning, display of electronic map, monitoring of vehicle status, picture snapshot, video search, video download and playback, replaying of vehicle track, monitoring of real-time alarm information, statistics of alarm information as well as configuration of vehicle parameters. The client of this version is divided into WEB client and C client. The user can login and manage the own vehicle by different modes.

III. Server deployment and management

3.1 Operating environment

3.1.1 Basic requirements of the server

Operation System	Microsoft Windows Server 2003 or higher
CPU	Intel quad-core and CPU frequency of not less than Xeon 5410(2.33GHz)
Network card	Two Gigabit Ethernet
Memory	4G (or higher)
Hard disk	1TB
CD-ROM	DVR-ROM
Others	Supporting VGA display Supporting ordinary keyboard port and recommending usage of USB keyboard port Needing computer, operation and hard disk status indicator lamps

3.1.2 Streaming media server

Performance Specifications	
	Distribution of 256 entrance video streams can be supported furthest and maximum bandwidth of entrance video stream is 128Mbps
	Maximum duplication output of single-channel media stream reaches to 6 and maximum exit media bandwidth is 512Mbps
	Based on the speed of gigabit internet access, average forwarding delay of 20Mbps output code stream is less than 5 ms
	Based on the speed of gigabit internet access, average forwarding delay of 100Mbps output code stream is less than 40 ms
	Based on the speed of gigabit internet access, average forwarding delay of 512 Mbps output code stream is less than 200 ms
Video bandwidth	
	Based on 320Kbit data volume per second of each video in the format of CIF, 256 videos need $320 \times 256 = 81,920$ Kbit bandwidth
	Description: At present, MDVR equipment is limited by network bandwidth under the 3G network environment and upload the highest resolution CIF video.

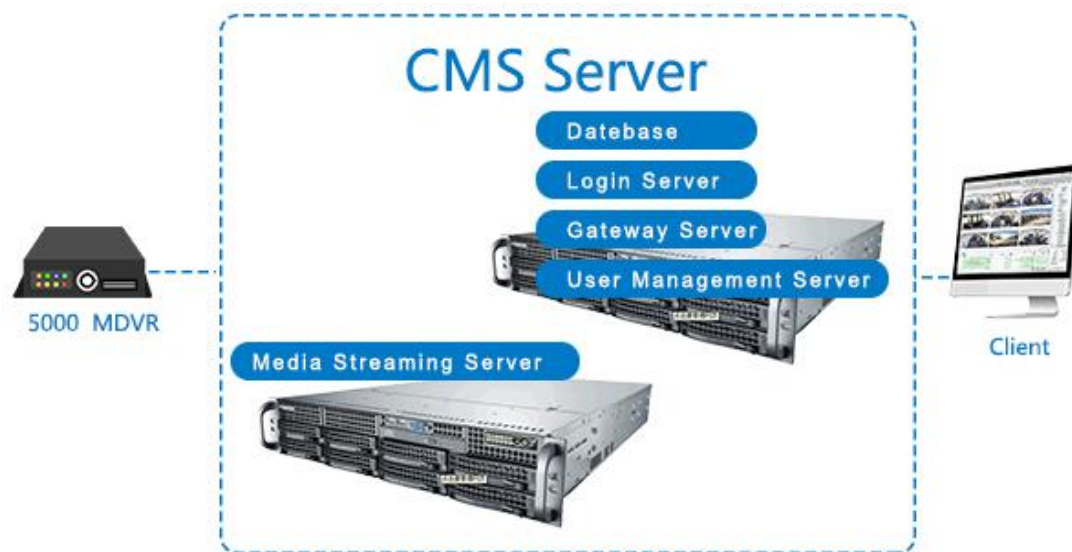
3.1.3 Examples of the system deployment

The example is only for reference. The detail shall be subject to user hardware, network as well as CMS and MDVR installation environment.

3.1.3.1 200 sets of MDVR

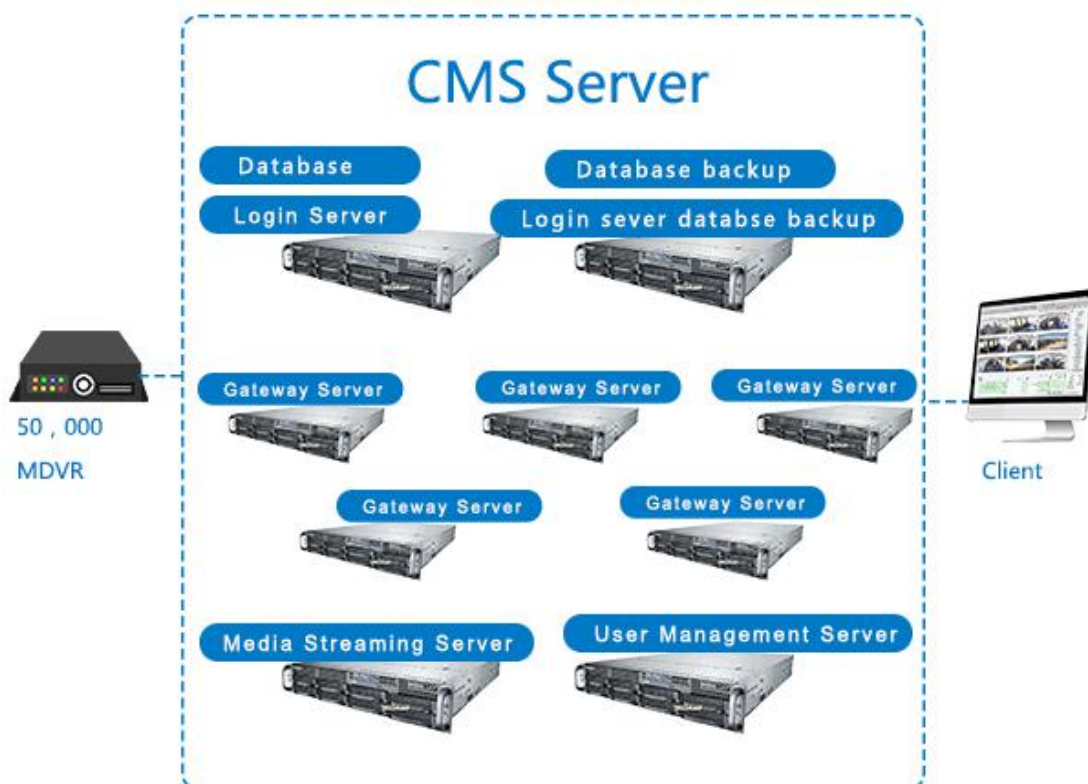


3.1.3.2 5000 sets of MDVR



Streaming media server needs to be configured with information of several streaming media servers in light of actual usage of the user.

3.1.3.3 50000 sets of MDVR



3.2 Guidance regarding software installation

1. Double click to run CMSServerV6 installation program with interface of language selection (Simplified Chinese/English) popped up, which is shown in the following figure:

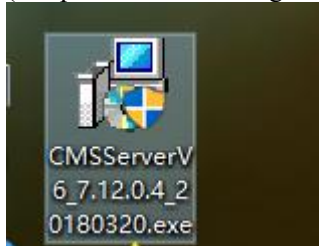


Figure 4.1 Selection of Installation Language

2. After selecting installation language of "Simplified Chinese" or "English", click "confirm" to enter installation guidance interface:

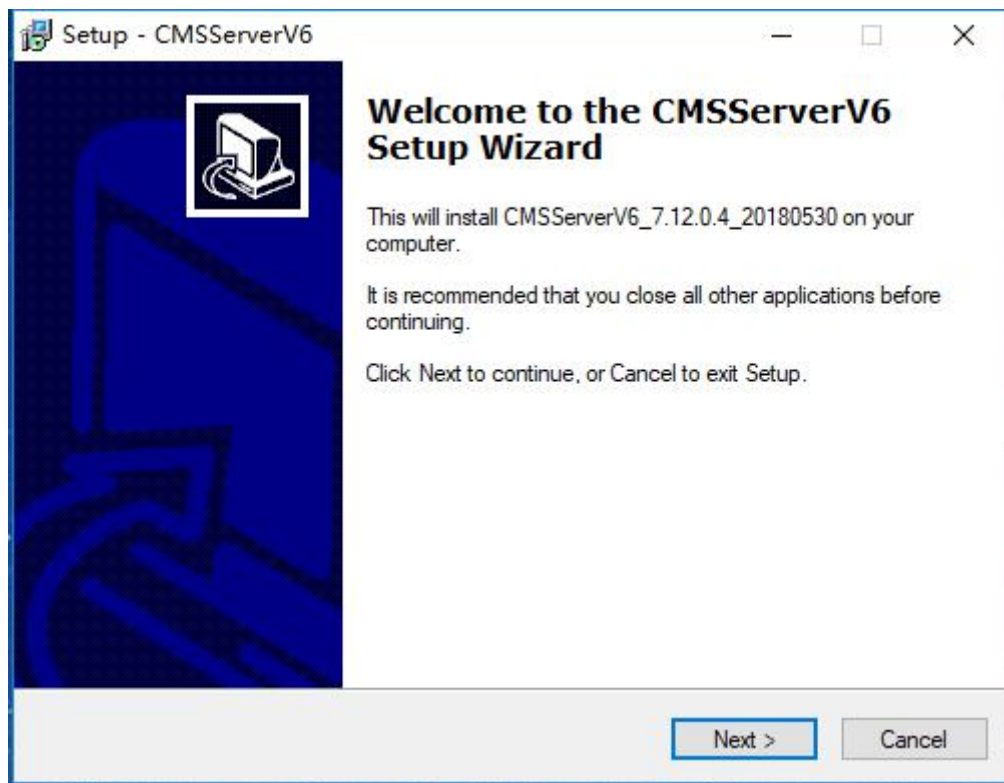


Figure 4.2 Installation guide

3. Click "Next " to enter the interface of Select Destination Location electing installation path as shown in the following figure:

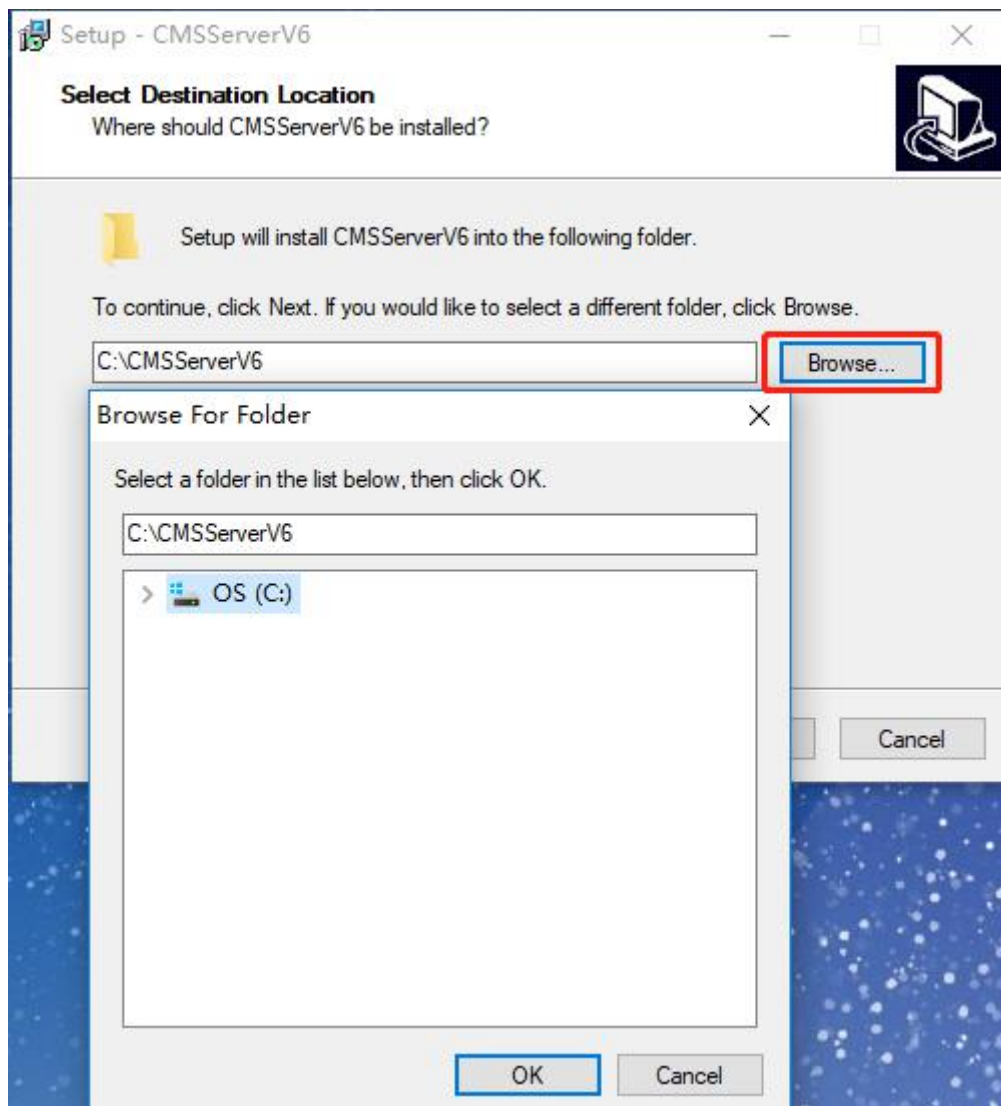


Figure 4.3 Selection of Installation Path

4. Select placement location of start menu folder and then click "OK" for continuing

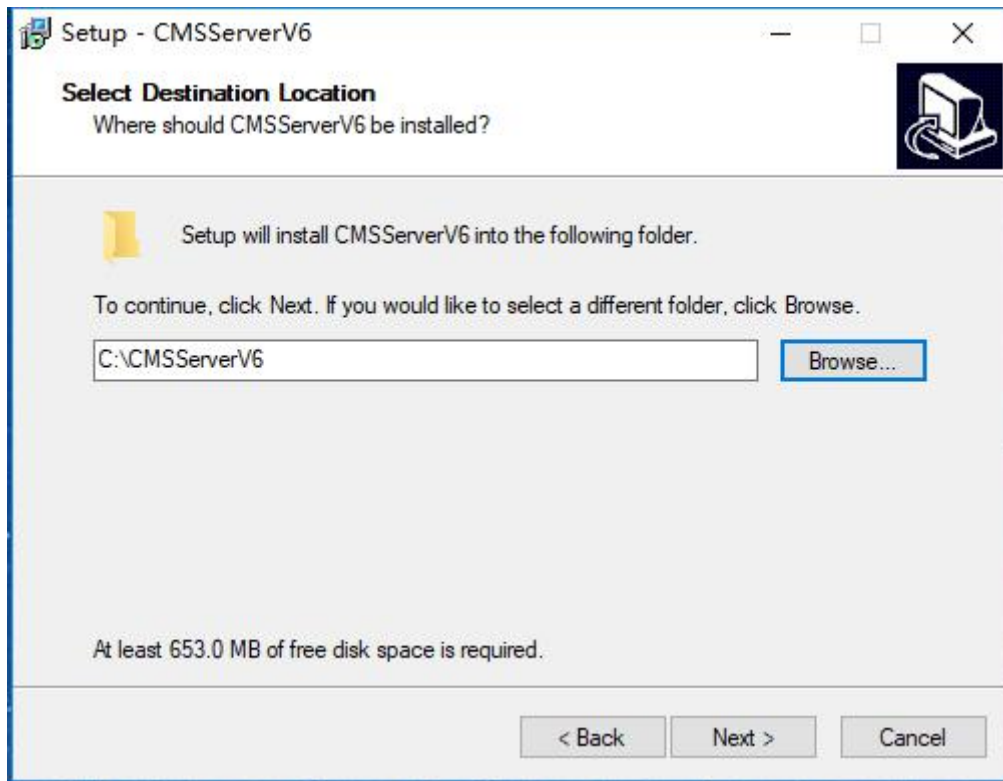


Figure 4.4 Selection of Shortcut Program Location

5. Select additional Tasks (whether to create desktop icon) and then click "Next " for continuing

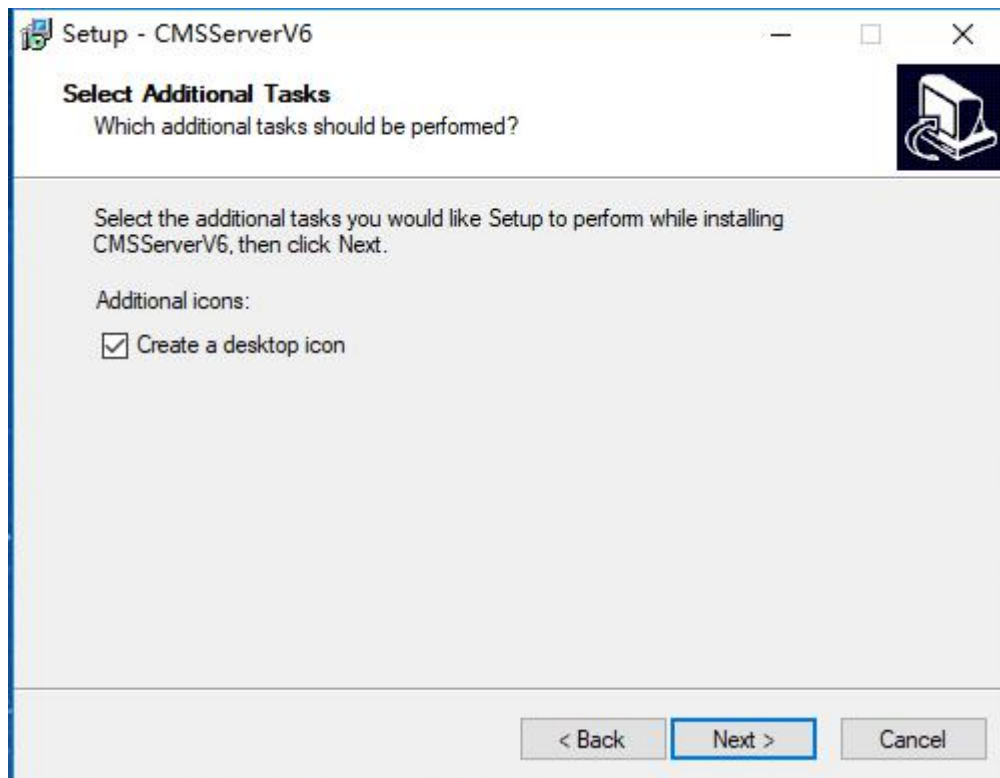


Figure 4.5 Selecting whether to create desktop shortcut

6. Click "install" to execute program installation operation and complete installation

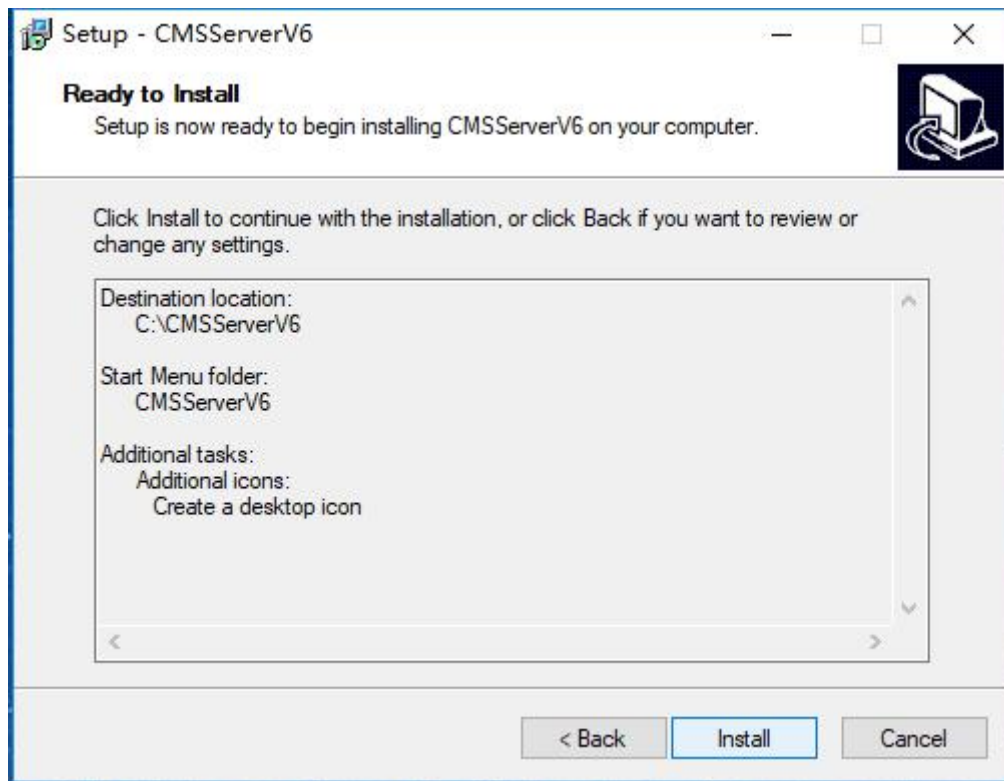


Figure 4.6 Executing installation program operation

7. Click "complete" to conduct configuration of the related data

1/5 Database Parameters

This guide applies to all servers installed on the same PC

Database File Path

Database Backup

1. Program

a. Daily basis for data backup (in addition to GPS data tables, alarm tables, tables and other data capture large table, other tables daily backups)

b. Weekly full database backup

2. Backup storage

a. Backup data is first stored in the local computer (non-database installation disk)

b. Automatically uploaded regularly back up your data in the cloud disc set

Database Drive Info

Total Diskspace236.601 G

Free Diskspace122.810 G

Database Backup Disk Information

Total Diskspace236.601 G

Free Diskspace122.810 G

Note: Please select the remaining disk space!

Next(N) Exit

Figure 4.7 Configuration of Database Parameters

8. Click "Next " to configure web server parameters

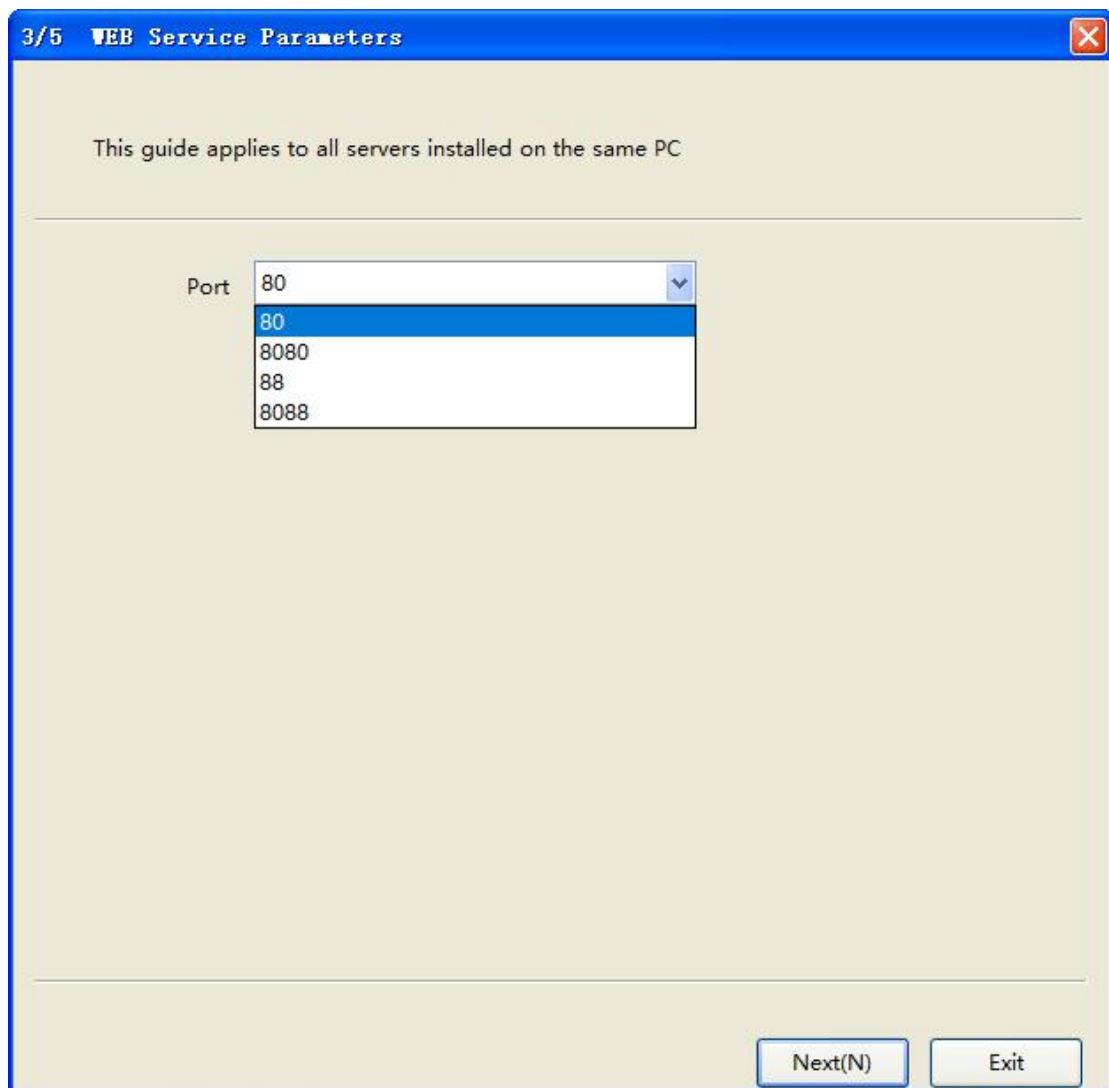


Figure 4.8 Configuration of Web Server Port

9. Click "Next" to configure network address.

2/5 Network Address Parameters

This guide applies to all servers installed on the same PC

Internet Address 116.4.10.147

WIFI Download

☒ Enable WIFI Automatically Download

SSID ssid-mdvr

Through the the SSID distinction download site (MDVR WIFI network to connect to this SSID)

LAN Address 192.168.1.121

To ensure that the MDVR through WIFI network to connect to this LAN address

Next(N) Exit

Figure 4.9 Configuration of Network Address Parameters

10. Click "Next" to configure FTP service port

4/5 FTP Service Parameters

This guide applies to all servers installed on the same PC

Service Port

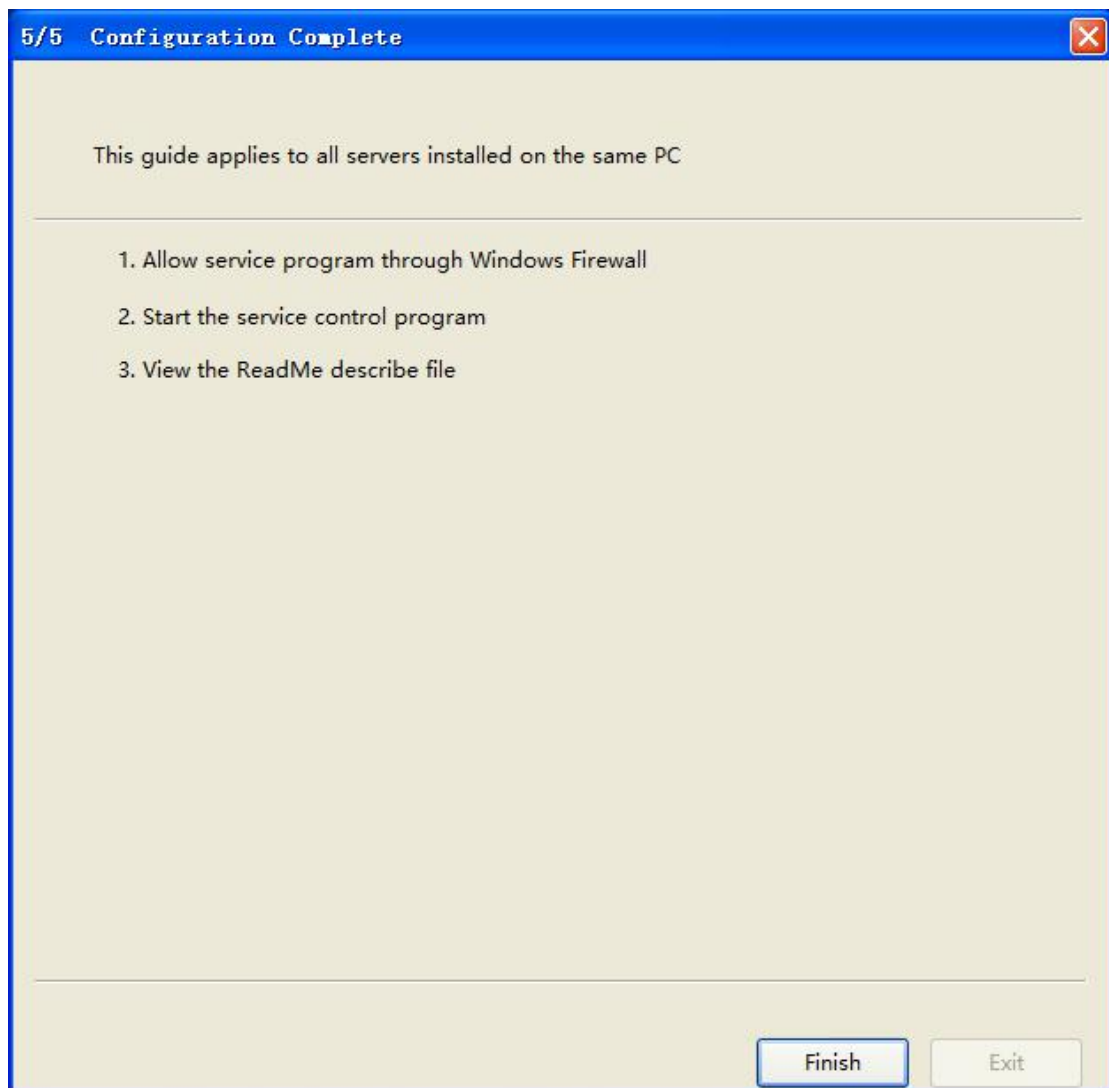
PASV Port -

Root Dir

Tips:Please Use English Directory

Figure 5.0 FTP Port Configuration

10. Click "Next" to operate CMSServerV6 server controller



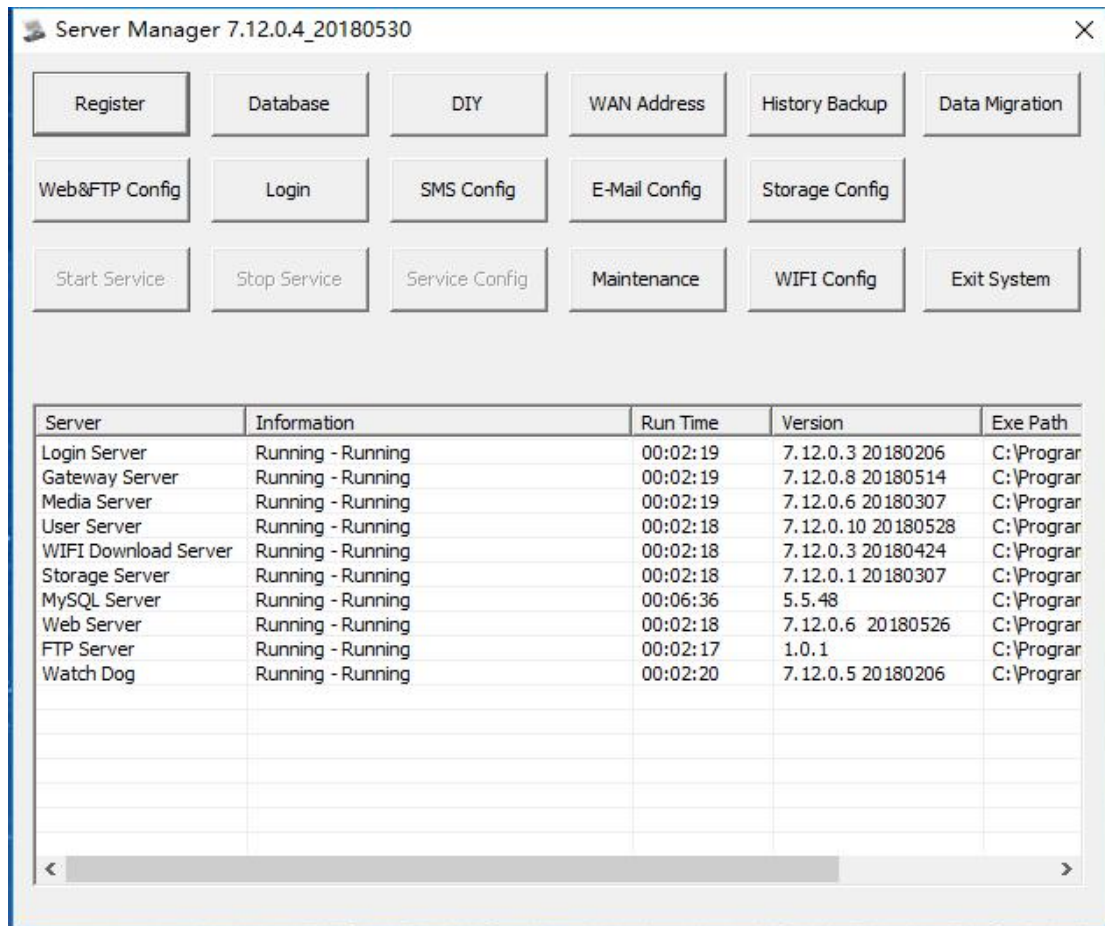


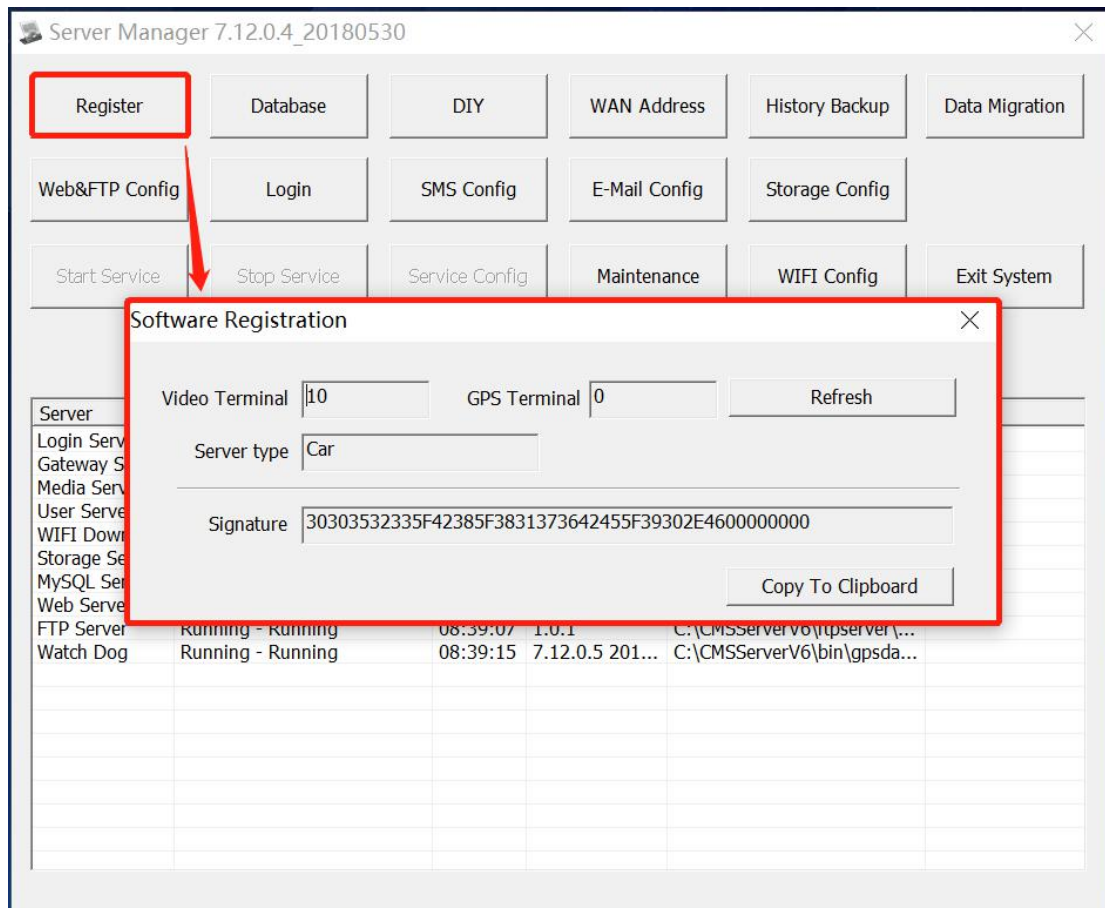
Figure 4.10 Configuration Completion

3.3 Server manager

3.3.1 Software registration

Our company will provide server software newly installed to 10 pieces of equipment for test. In case of official use, please contact our company's principal for authorization increase.

In case of the server connected to outer net, it's unnecessary to provide feature code to us but carry out direct network authorization to the user.



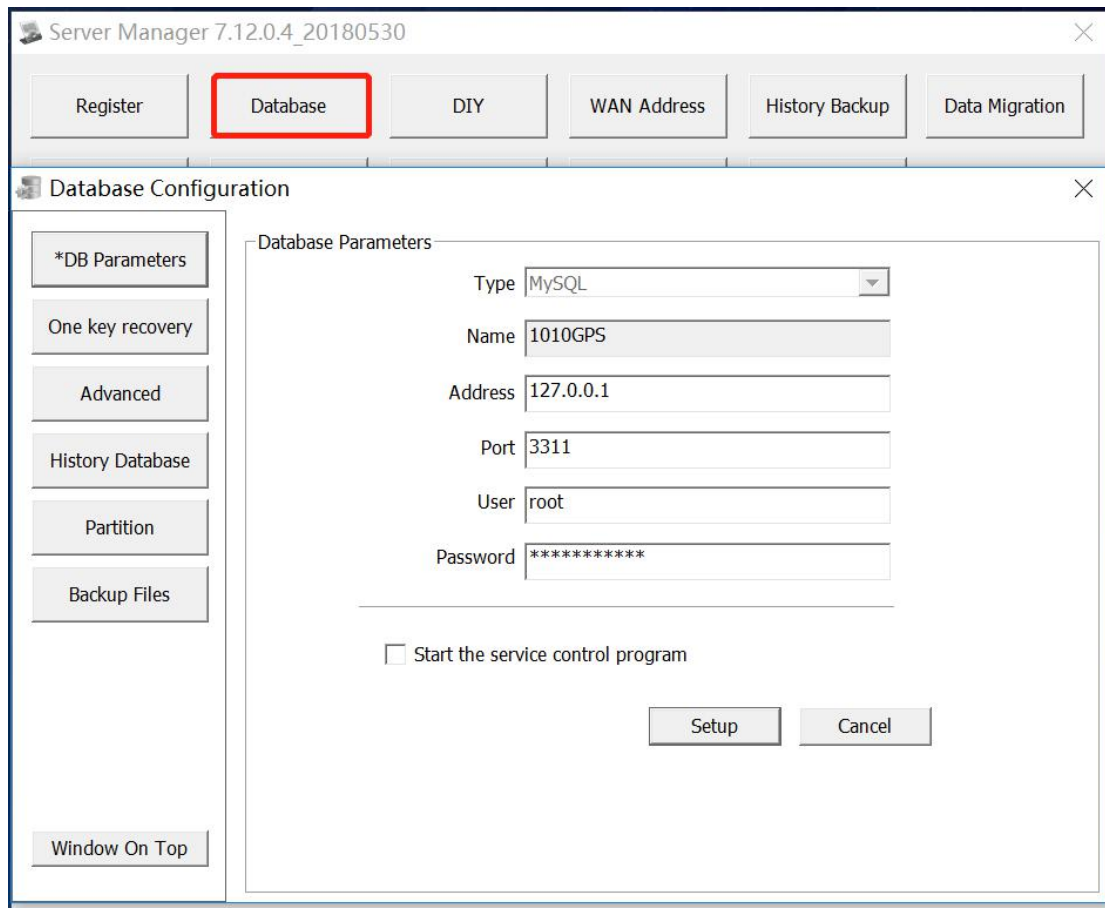
In case of VPN server adopted, it's necessary to provide feature code to us and then our company shall provide the registration code.

3.3.2 Database configuration

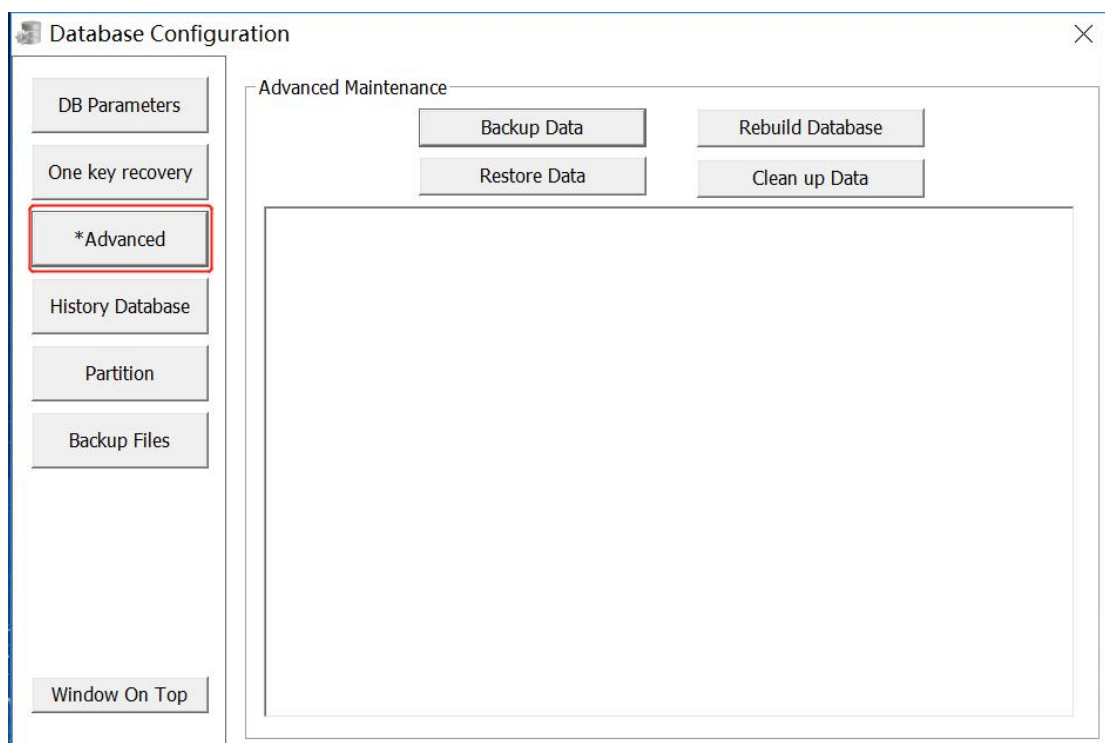
Database configuration is also database management tool which is mainly used as the tool for repairing database involving data corruption and oversize data volume of database.

3.3.2.1 Database parameters

Information of database configuration



3.3.2.2 Senior maintenance of database



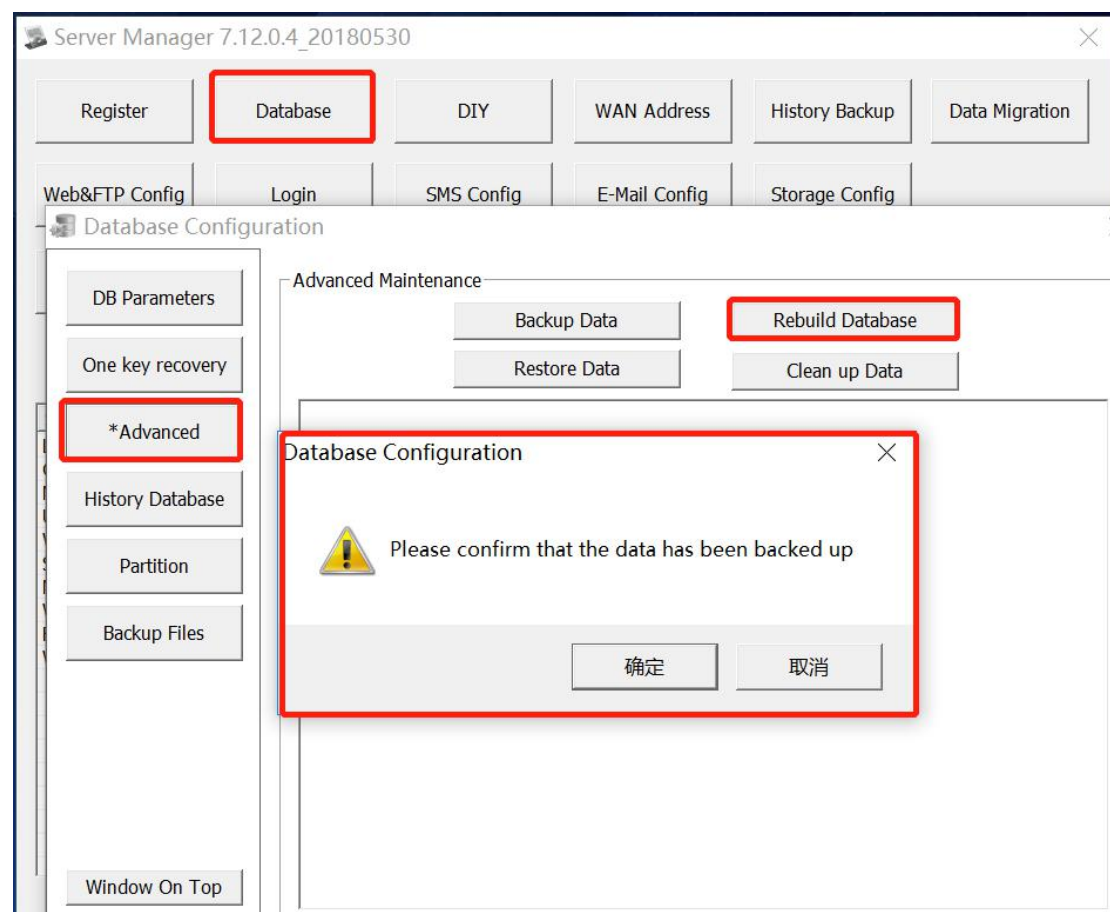
"Back up data"---It's necessary to back up existing database (selection type and time) and the database must be under the state of normal operation.

"Rebuild the database"---After original database is renamed, an empty database is newly established. At the moment of renaming, the database must be under the off state and at the time of creating table, the database must be under the state of normal operation

"Recover database"---Data backed up shall be imported to the database according to selected type and time

"Clean up database"---After type and time are selected, corresponding data shall be eliminated from the database which is unrecoverable and it's necessary to pay attention to backing up data.

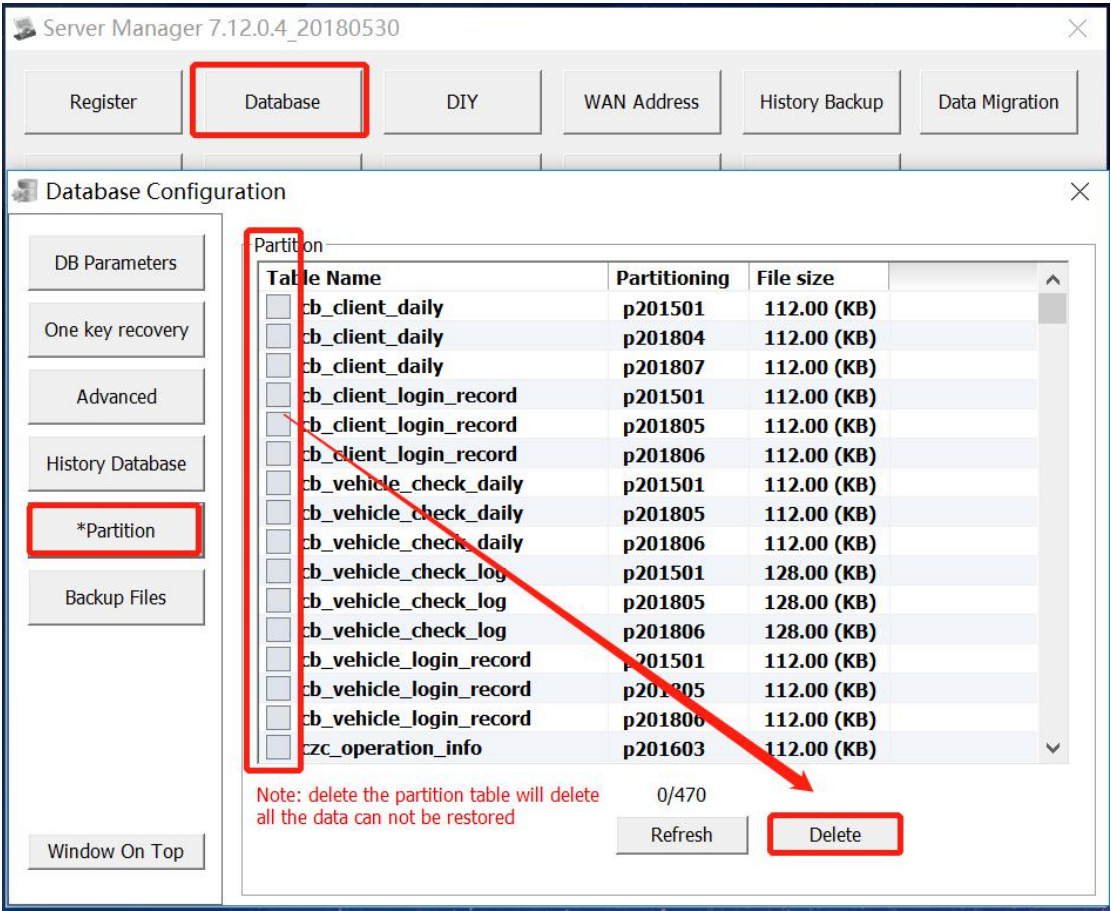
When the database is damaged which causes MYSQL service fails to be started, maintenance mode can be used to rebuild database and import data into a new database. The process will last for a long time as per data size. The user can select data table and time in accordance with the own demand.



3.3.2.3 Historical data

It's necessary to configure historical data service firstly with the button function is consistent with the "senior maintenance" operation

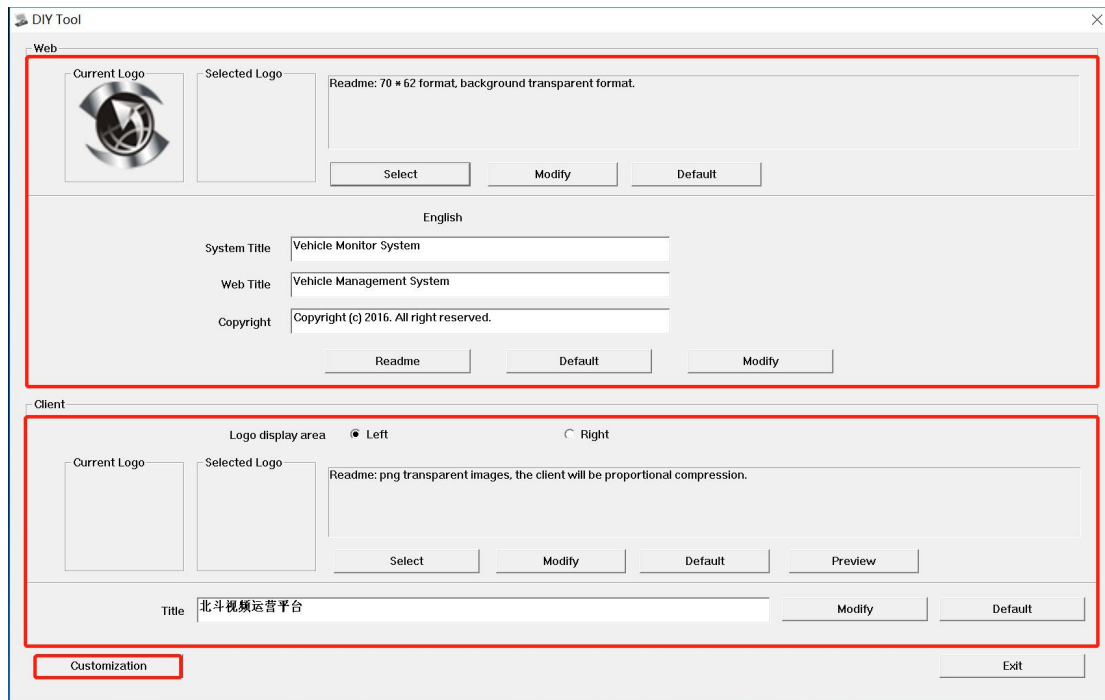
3.3.2.4 Partition table



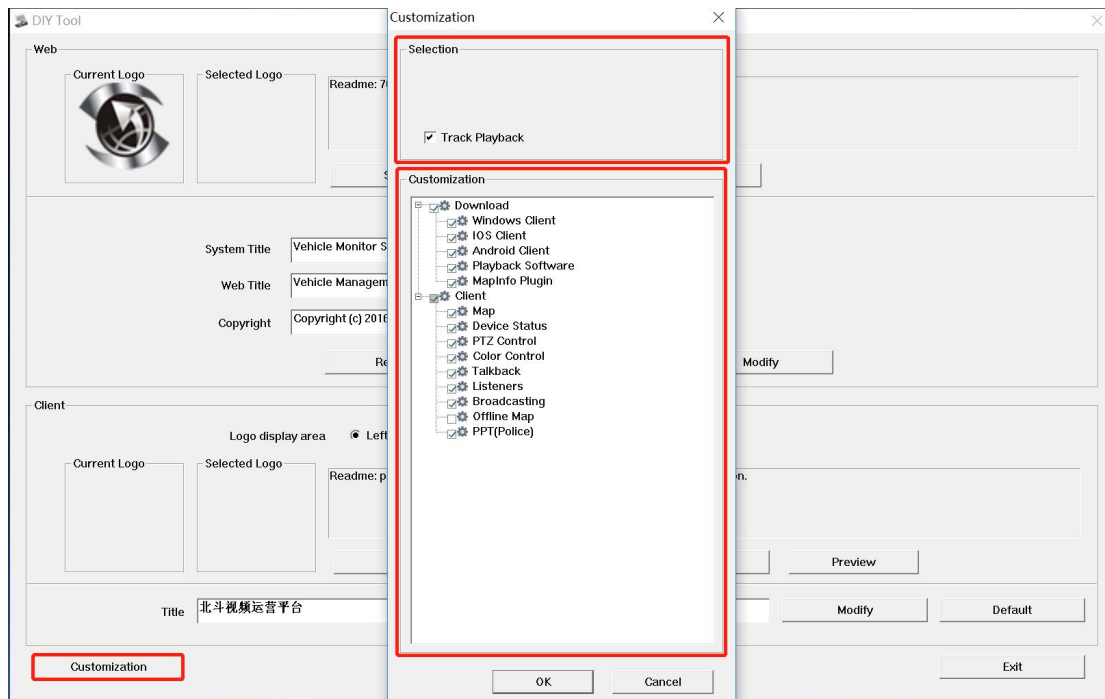
In case of oversize data and such data failing to be needed, such data can be eliminated

3.3.3 DIY

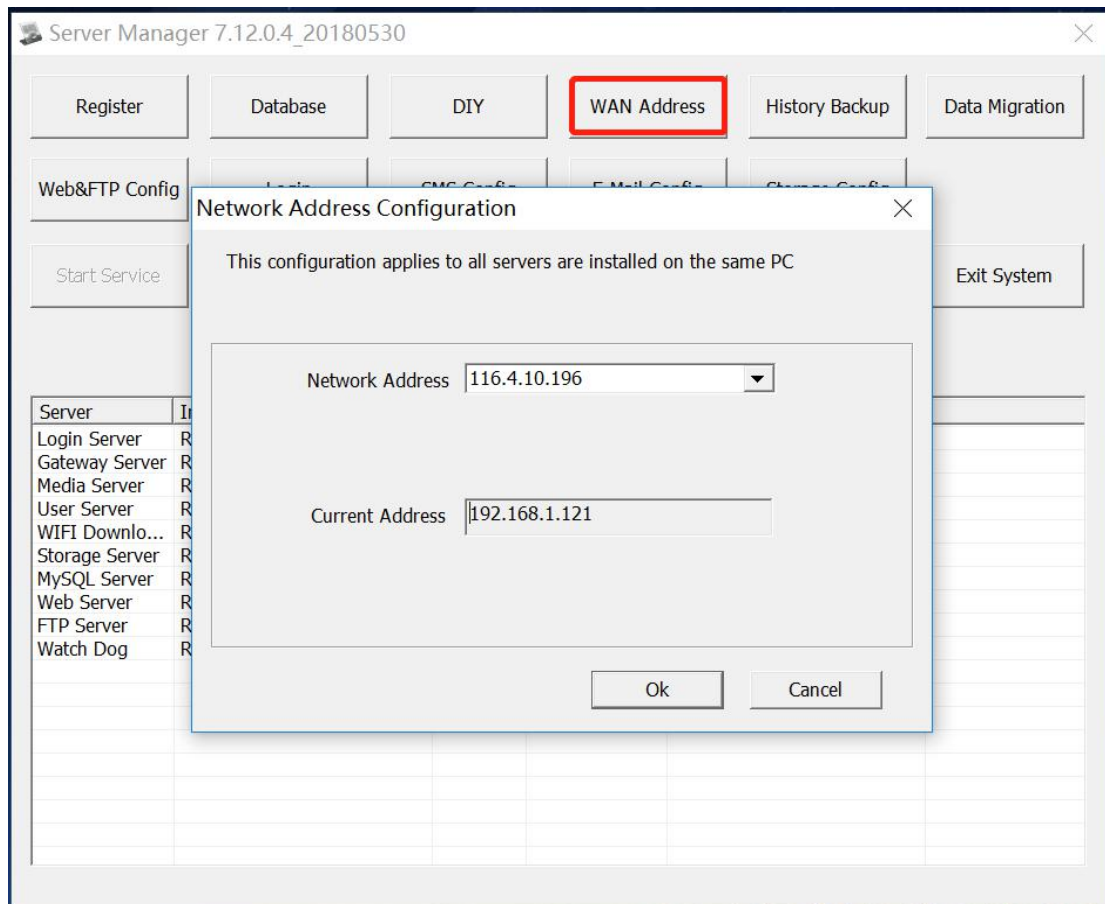
Server LOGO name is customized with some unnecessary functions on the server customized



1. Logo on WEB and client can be modified on the interface
2. For function customization, in case of needing to shield some unnecessary functions, they can be removed

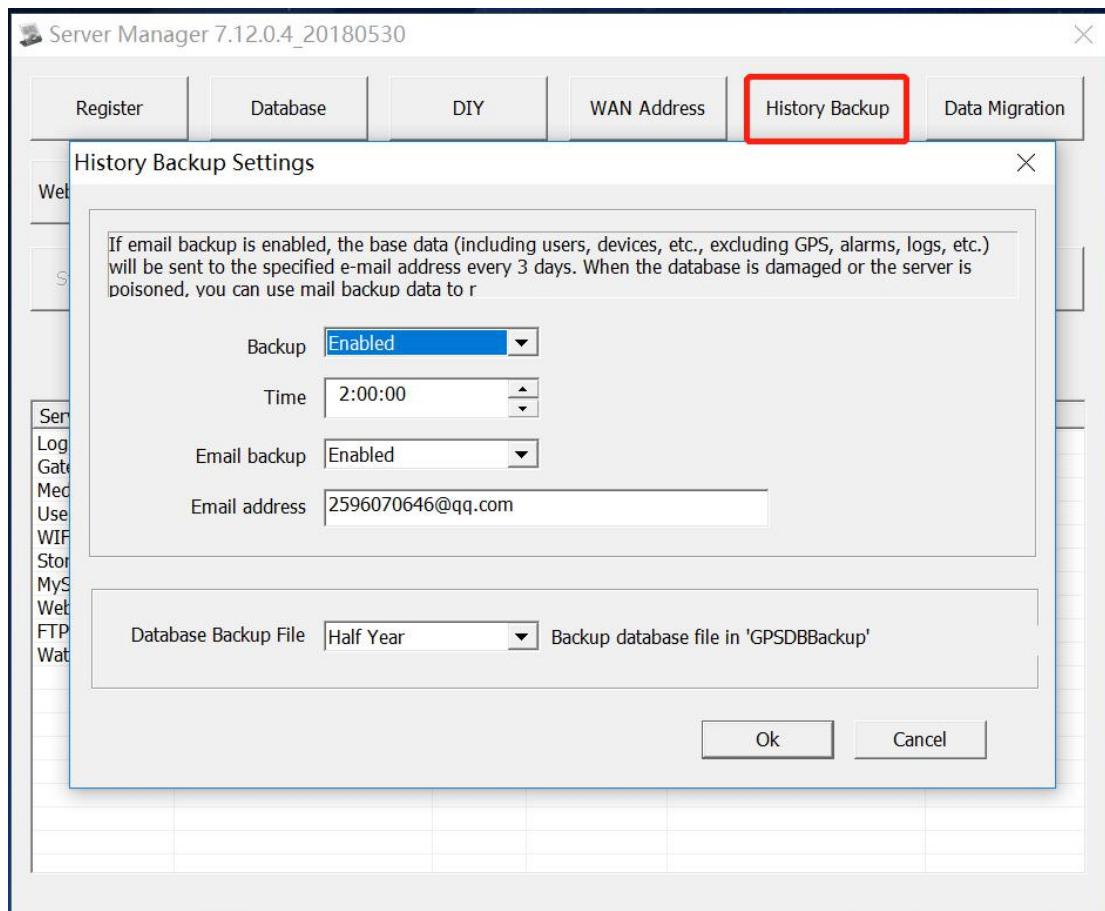


3.3.4 Configuration of the network address



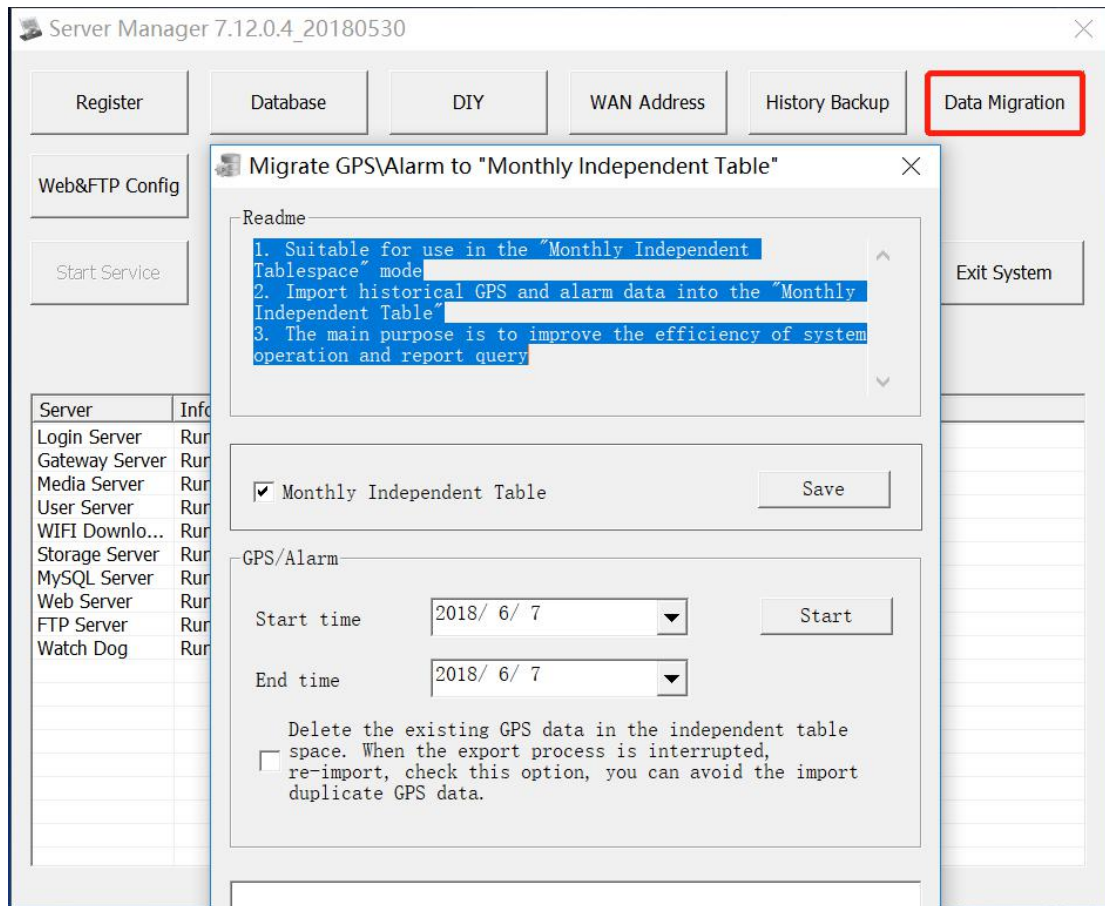
Mainly used for configuring link address of the server (the IP address or the domain name address could be used)

3.3.5 History backup



3.3.6 Data migration

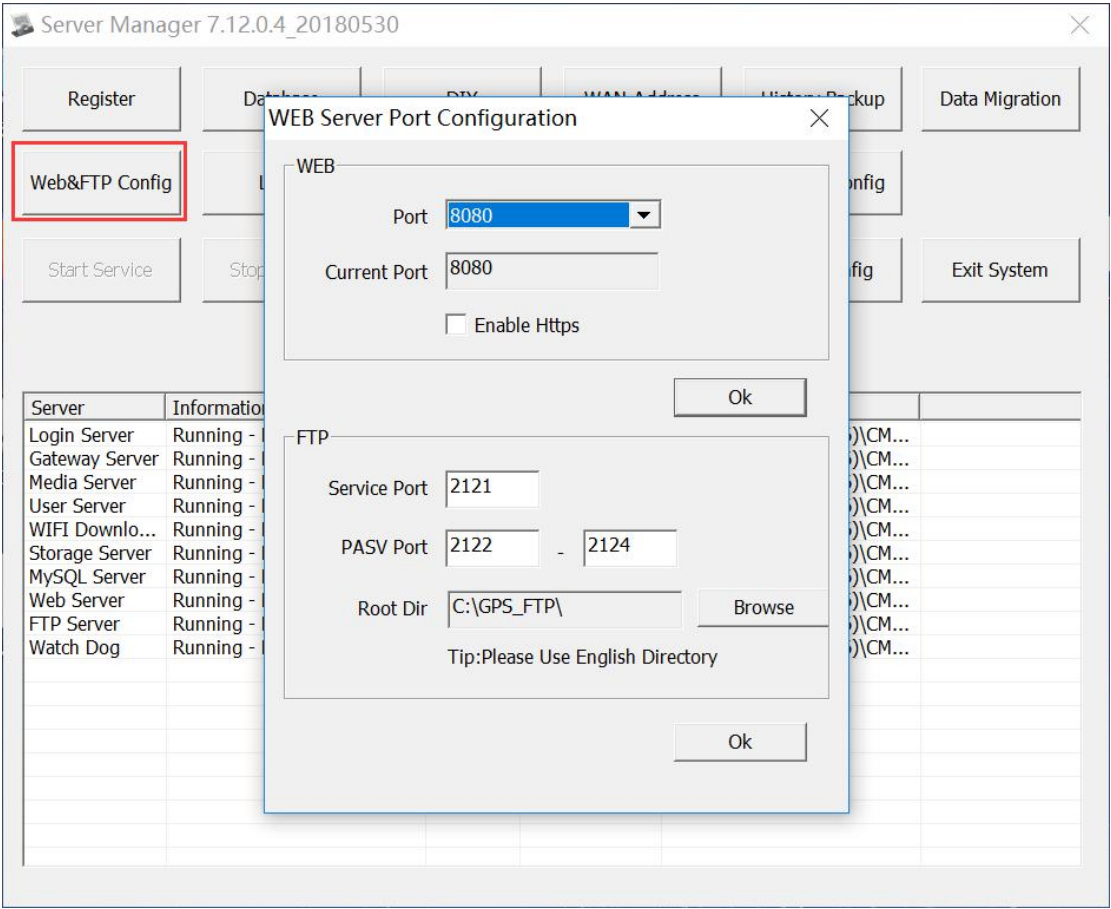
The function is mainly used for upgrading V6 server to V7 server



WEB

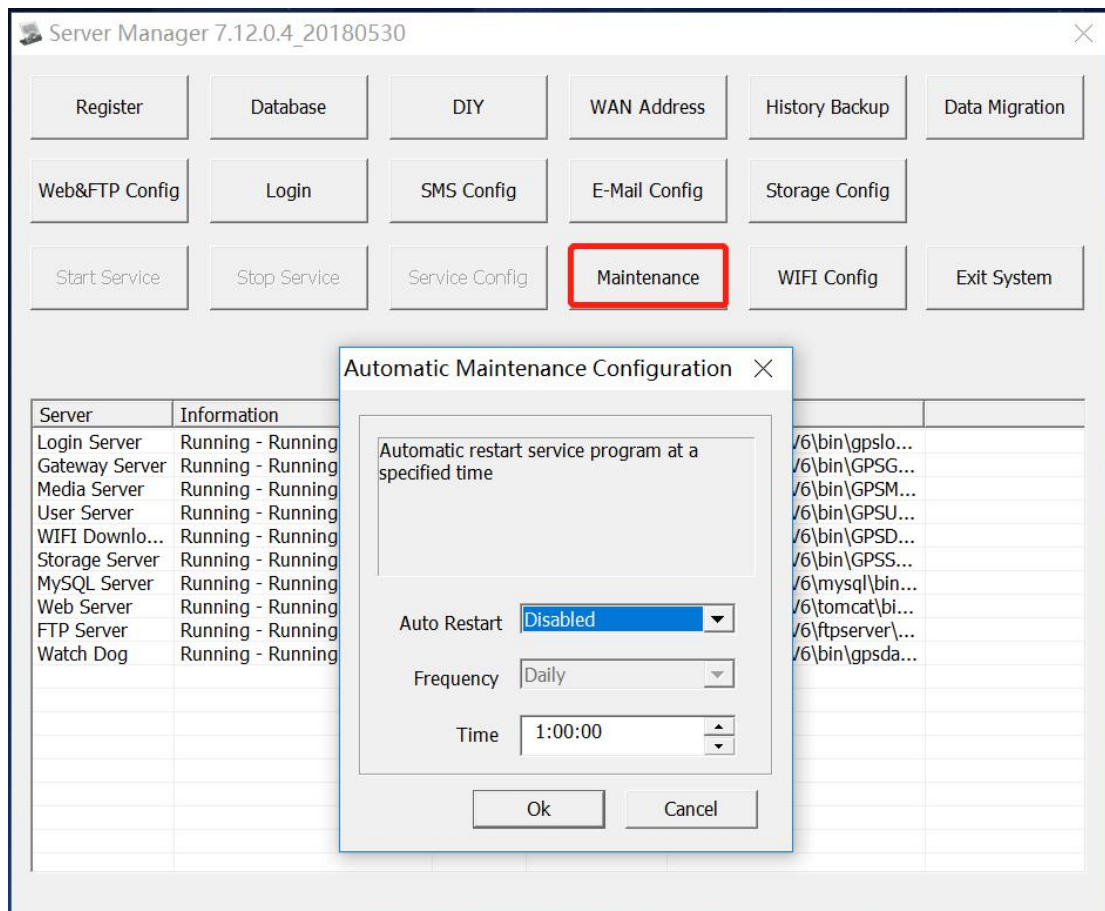
1. Basic data: Vehicle information, equipment information, user information, company information, etc. After migration, the server can be normally used, but big data such as GPS data and alarm data fail to migrate.
2. Log data: Big data such as GPS data and alarm data. Migration time may be long but fails to influence normal usage of the server (don't close the interface in the migration process until prompt of success arises)

3.3.7 WEB Port Configuration



Used for connection of WEB port

3.3.8 Automatic maintenance



Deactivation is suggested. In case of needing usage, the server will automatically restart in accordance with requirements.

3.3.9 Data migration of server

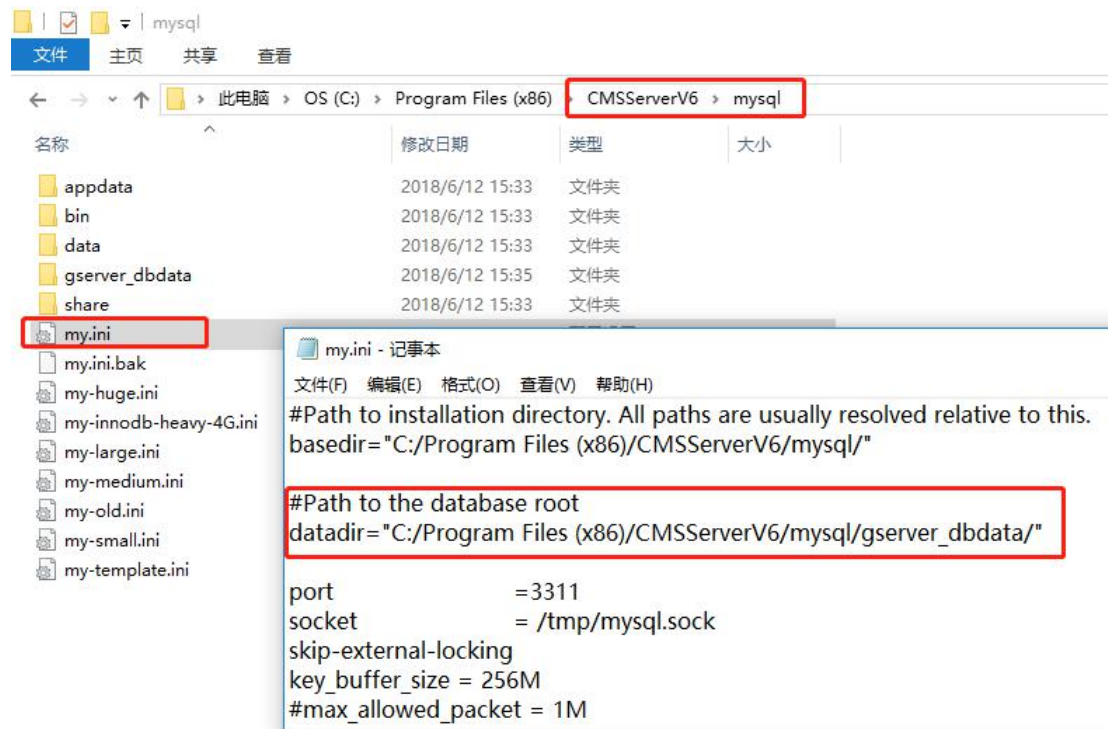
How to transfer database to new server computer at the time of changing the server computer?

1. It's necessary to duplicate database file from the computer whose server needs to be replaced

File path and file are shown in the following figure:



Find file location of database under the configuration file



Note: After server software exits, the file shall be duplicated to U disk

mysql			
文件 主页 共享 查看			
← → ↕ ↑ 此电脑 > OS (C:) > Program Files (x86) > CMSServerV6 > mysql			
名称	修改日期	类型	大小
appdata	2018/6/12 15:33	文件夹	
bin	2018/6/12 15:33	文件夹	
data	2018/6/12 15:33	文件夹	
gserver_dbdata	2018/6/12 15:35	文件夹	
share	2018/6/12 15:33	文件夹	
my.ini	2018/6/12 15:35	配置设置	6 KB
my.ini.bak	2017/12/26 19:30	BAK 文件	6 KB
my-huge.ini	2017/12/26 19:30	配置设置	5 KB
my-innodb-heavy-4G.ini	2017/12/26 19:30	配置设置	21 KB
my-large.ini	2017/12/26 19:30	配置设置	5 KB
my-medium.ini	2017/12/26 19:30	配置设置	5 KB
my-old.ini	2017/12/26 19:30	配置设置	9 KB
my-small.ini	2017/12/26 19:30	配置设置	3 KB
my-template.ini	2017/12/26 19:30	配置设置	13 KB

2. If new server computer is reinstalled with server software, database file duplicated just now shall be put to database file under the installation path after completion of installation (database file newly installed needs to be deleted firstly and exiting of server software shall be conducted at the same time.

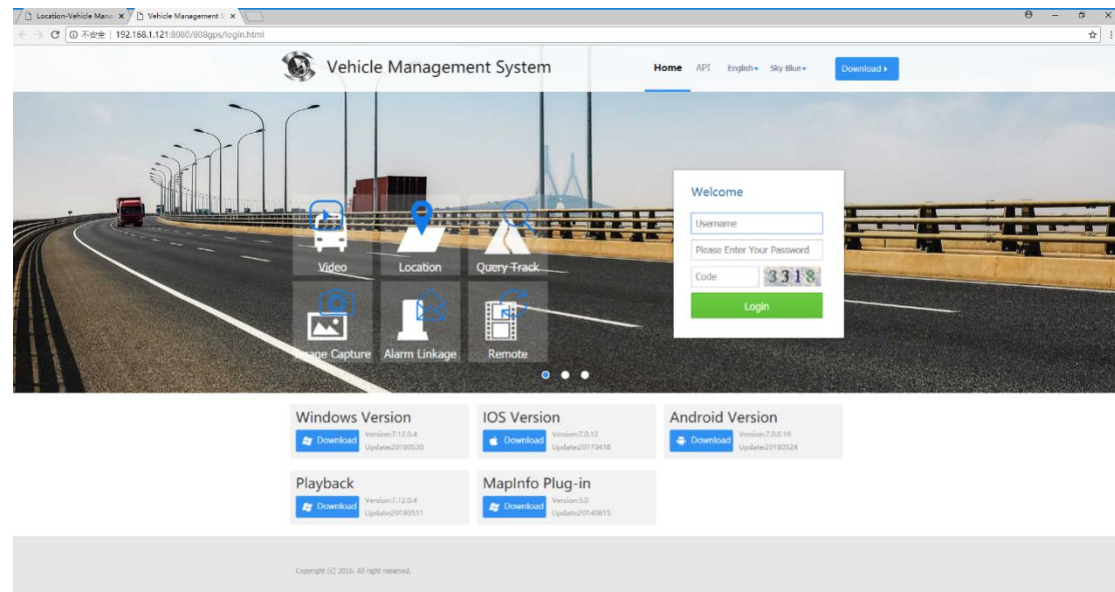
mysql			
文件 主页 共享 查看			
← → ↕ ↑ 此电脑 > OS (C:) > Program Files (x86) > CMSServerV6 > mysql			
名称	修改日期	类型	大小
appdata	2018/6/12 15:33	文件夹	
bin	2018/6/12 15:33	文件夹	
data	2018/6/12 15:33	文件夹	
gserver_dbdata	2018/6/12 15:35	文件夹	
share	2018/6/12 15:33	文件夹	
my.ini	2018/6/12 15:35	配置设置	6 KB
my.ini.bak	2017/12/26 19:30	BAK 文件	6 KB
my-huge.ini	2017/12/26 19:30	配置设置	5 KB
my-innodb-heavy-4G.ini	2017/12/26 19:30	配置设置	21 KB
my-large.ini	2017/12/26 19:30	配置设置	5 KB
my-medium.ini	2017/12/26 19:30	配置设置	5 KB
my-old.ini	2017/12/26 19:30	配置设置	9 KB
my-small.ini	2017/12/26 19:30	配置设置	3 KB
my-template.ini	2017/12/26 19:30	配置设置	13 KB

IV. Direction for use of WEB client

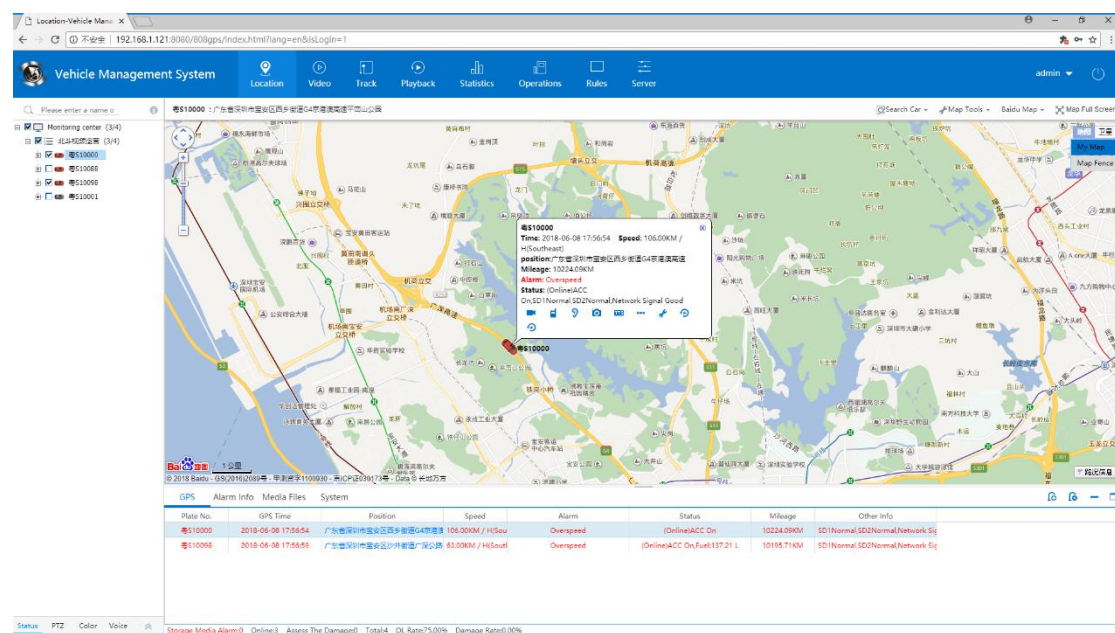
4.1 Login interface and operation interface

4.1.1 Login interface

Open the browser (above IE version 8) to enter IP on the server (if WEB port fails to be 80, please add port number) and then skip to login interface.



4.1.2 Operating interface



4.2 Operations management

4.2.1 Composition of operation and management

Operation and management mainly consist of vehicle information, motorcade management, user information, role management, company information, equipment management, SIM card information, driver information, insurance information and expiration reminder

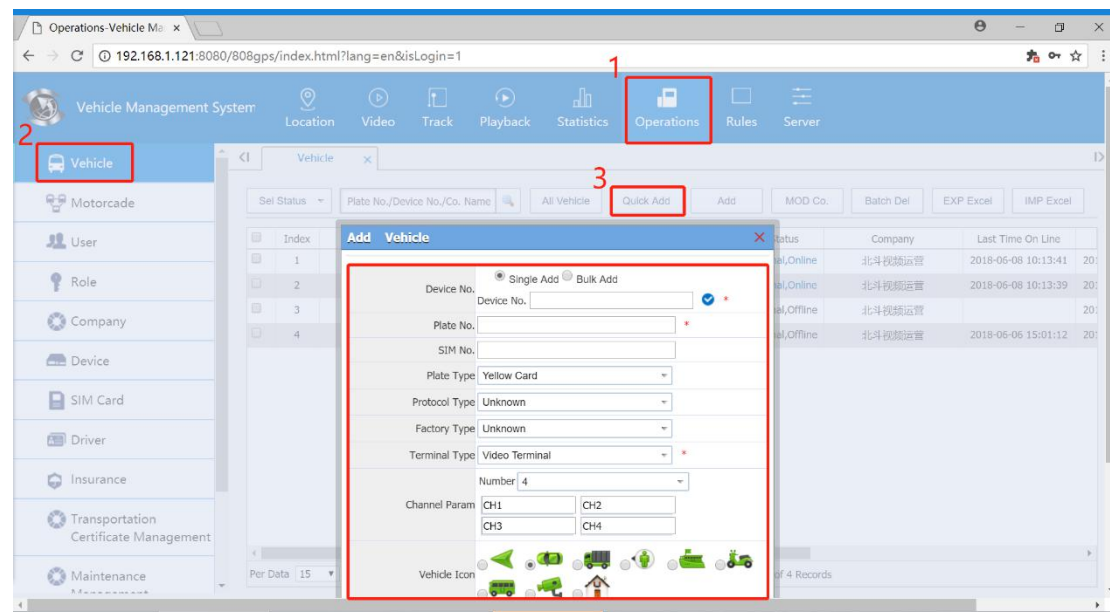
4.2.2 Increasing vehicles rapidly

Increase vehicle rapidly to collect all functions of the operation-increase of vehicle in the operation and management as well as facilitate operation of the operation-increase of vehicle by the user.

1. Rapid increase of vehicles: Basic information on increase vehicle

A、Equipment number B, license plate number C and terminal type: Position terminal, video terminal (only name used for distinction on the platform without actual difference) D. number: Refer to camera number E. channel parameters: It's allowed to modify channel name

F. Vehicle icon



2、Add subordinate companies or motorcades

A、For the company newly added, it's necessary to add primary account number (the authority of the account number is the highest by default)

B. In case of subordinate companies existing, exempt the operation of last step and directly select subordinate companies or motorcades. (In case of selecting the company, the vehicle is deemed to primary account number by default without reauthorization. Note: the company established on the server arising before the version of Feb. 2016 is free from distinction of primary account number. Please refer to primary account number of the company set on the company information in Directory 4.2.3.5)

3、Addition of users

Users here fail to be aimed at sub-account

A、Newly establishing users

Add User

Basic Info

Company	Sel Co.		
Login Account		User Name	
Login Password	000000(undefined)	Confirm Password	
The Validity	2019-06-08 00:00:00	Authorized Number	0
Single Sign On	no	Disable Password Modification	no
User Level	I		
Role Name(assign permissions)			

Save Close

Allocate authorities to users

Edit Privilege

Basic Info

Role Name	主公司监控员
Company	北斗视频运营

- ☒ Location
- ☒ Audio And Video Surveillance.
- ☐ Terminal Control
- ☒ Playback Manager
- ☒ Statistics
- ☐ Operations
- ☐ Rule Set
- ☒ System Config
- ☒ Alarm Management

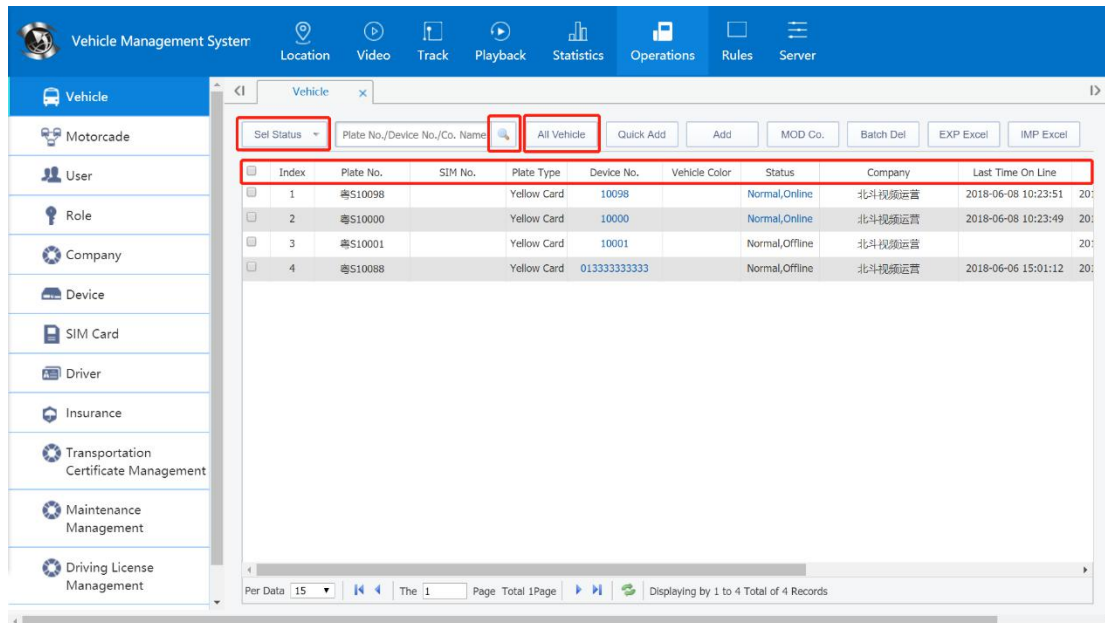
Sel or Anti-Sel: ☒ | ☐

Save Close

At the moment of creation of the role, there are no company management, motorcade management, user management or role management

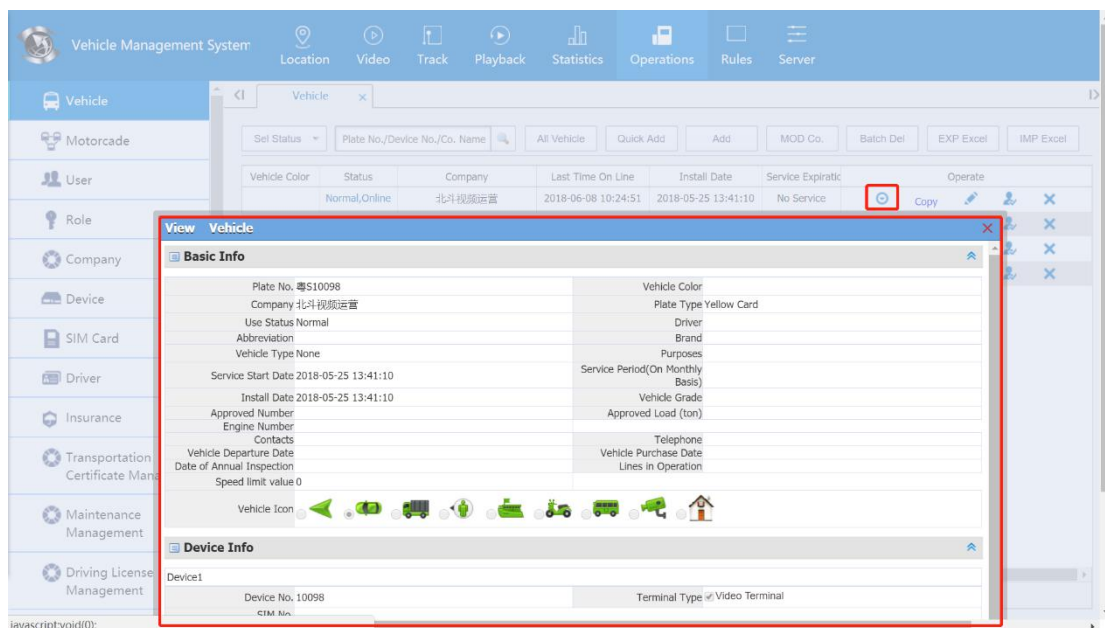
B. Users existing can carry out direct authorization to account number as well as conduct authorization to several users at the same time.

A. Choosing and query can be conducted as per vehicle status (entire, normal, online, maintenance, deactivation and arrearage) and it's also allowed to fill in license plate number and equipment number for query or display all vehicles. As shown in the following figure

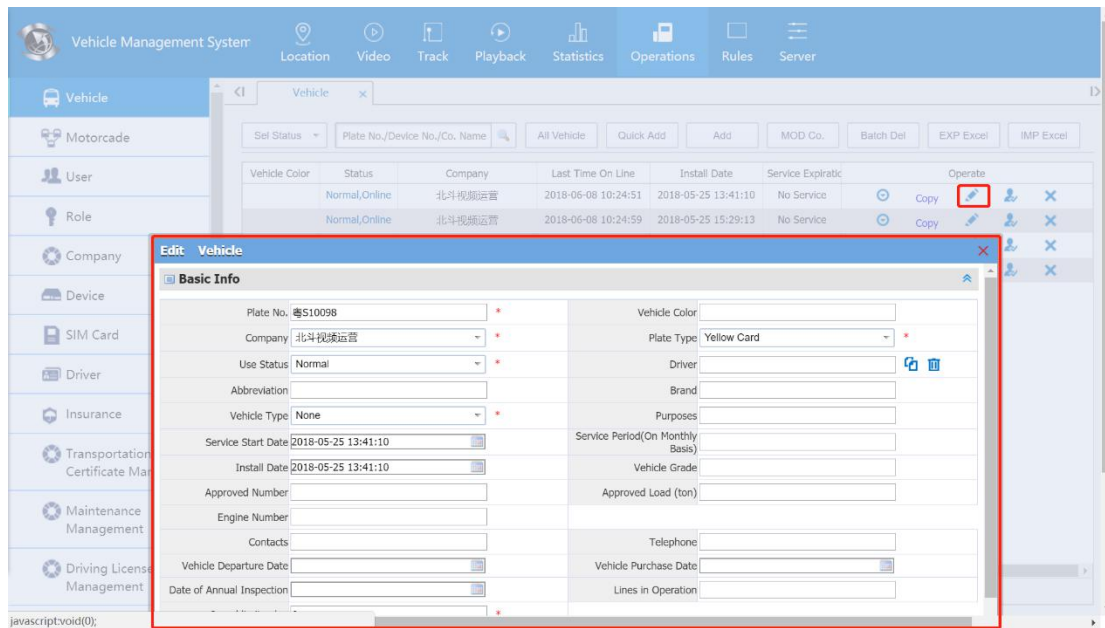


As shown in the figure above: Displayed contents: License plate number, vehicle type, equipment number, vehicle color, status, subordinate companies and operation

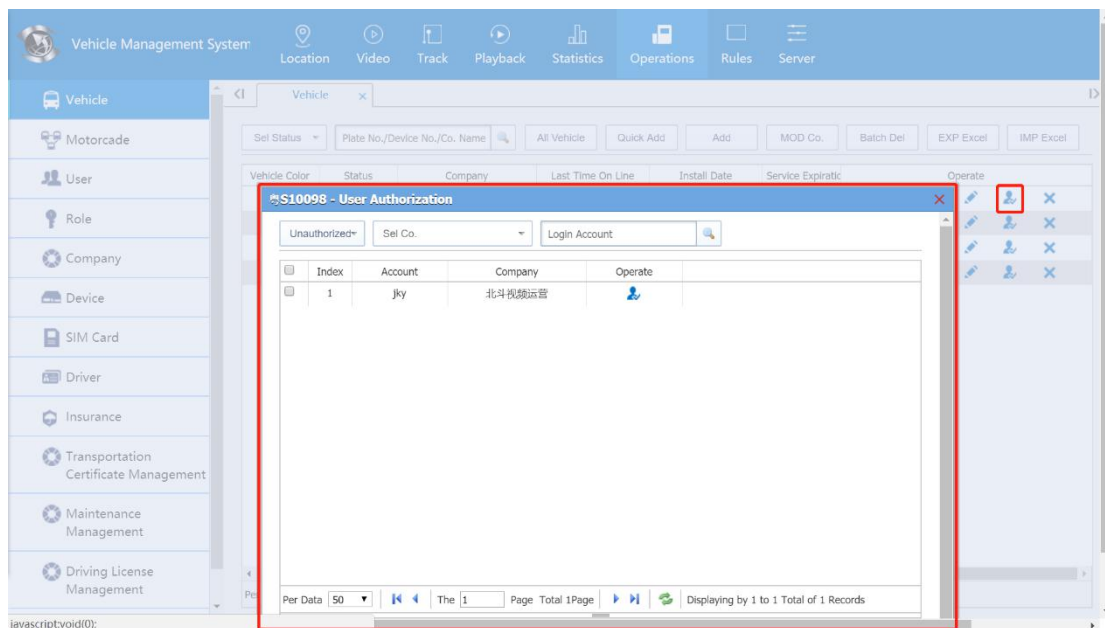
B. Operating: Detail (viewing vehicle information)



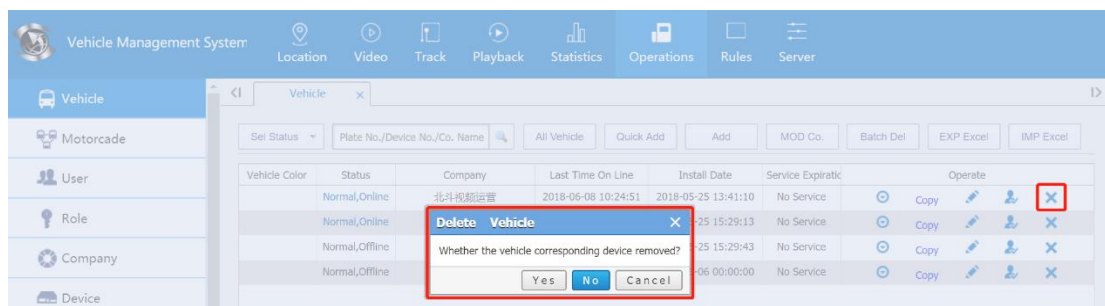
Editing: Basic information on vehicle information and equipment information



User authorization: The vehicle is authorized to the user (the premise is that the user and the vehicle belong to the same company)



Deleting: Vehicle and equipment number shall be deleted at the same time



2. Newly-added vehicle: Gathering detailed information on newly-added vehicles and all information on terminal equipment. **Note: When the equipment is connected to peripheral module, it's necessary to check corresponding one and then the client will display corresponding function.** As shown in the following figure:

The 'Add Vehicle' dialog box contains the following sections:

- Vehicle Info:** Fields for Vehicle Departure Date, Date of Annual Inspection, Speed limit value, Vehicle Purchase Date, and Lines in Operation.
- Vehicle Icon:** A row of icons representing different vehicle types.
- Device Info:**
 - Device (Master Device): Fields for Device No. and SIM No.
 - Channel Param: Number 4, CH1, CH2, CH3, CH4.
 - IO Input Param: Number 0.
 - Sensor Param: Number 0.
 - Peripheral Modules (highlighted):**
 - ☒ Support Video
 - ☒ TTS (TTS voice playback)
 - ☐ Fuel Line Controller (Off the fuel and the fuel recovery)
 - ☐ TPMS
 - ☒ Support Talkback
 - ☐ Fuel Sensor (Detecting vehicle fuel)
 - ☐ Circuit Controller (Cutoff circuit and recovery circuit)
 - ☐ TaxiMeter
 - ☒ Support Monitor
 - ☐ Digital Intercom
 - ☐ OBD
 - ☐ Traffic Statistics
 - ☐ Water Level Sensor

3. Modification of Vehicle Company: When the vehicle wrongly distributed to other company is found, it's allowed to click to check corresponding vehicle and click modification of company

The screenshot shows the 'Vehicle' list with columns: Index, Plate No., and Company. A red box labeled '1' highlights the first vehicle (Index 1, Plate No. 粤S10098, Company 北斗视频监控运营). A red box labeled '2' highlights the 'MOD Co.' button in the top right corner of the vehicle list. A red box labeled '3' highlights the 'MOD Co.' dialog box, which contains a 'Find Co.' field and a list of companies: 北斗视频监控运营 and 北斗视频监控运营-子公司. A 'Save' button is at the bottom of the dialog.

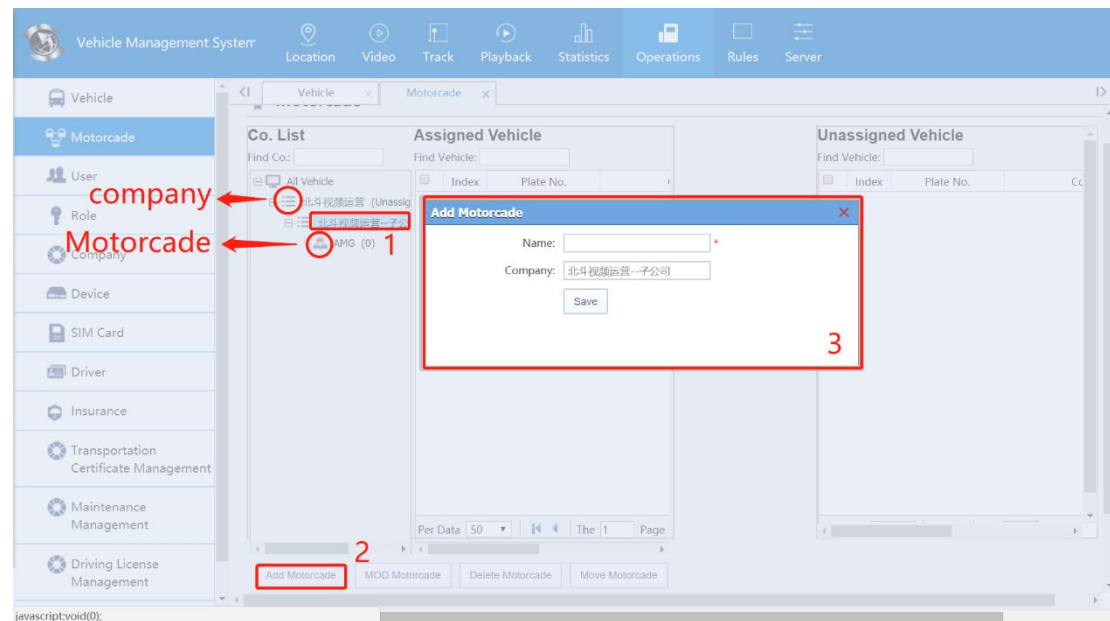
4. Bulk deletion: The vehicle can be deleted in batches by checking the button on the left

5. Export to Excel and import from Excel: It's allowed to export added vehicle information to Excel and import information to other account number.

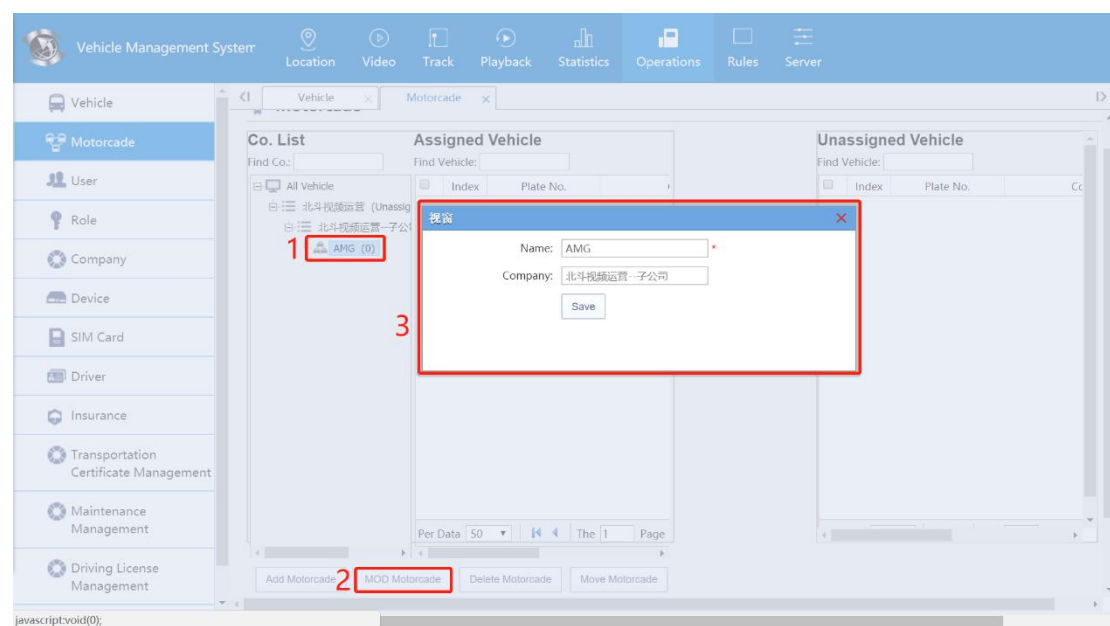
4.2.3.2 Motorcade management

When vehicles are distributed to primary account number of the company, we can consider distribution of vehicles to the motorcade and distribution of the subaccount for the motorcade to motorcade personnel for usage.

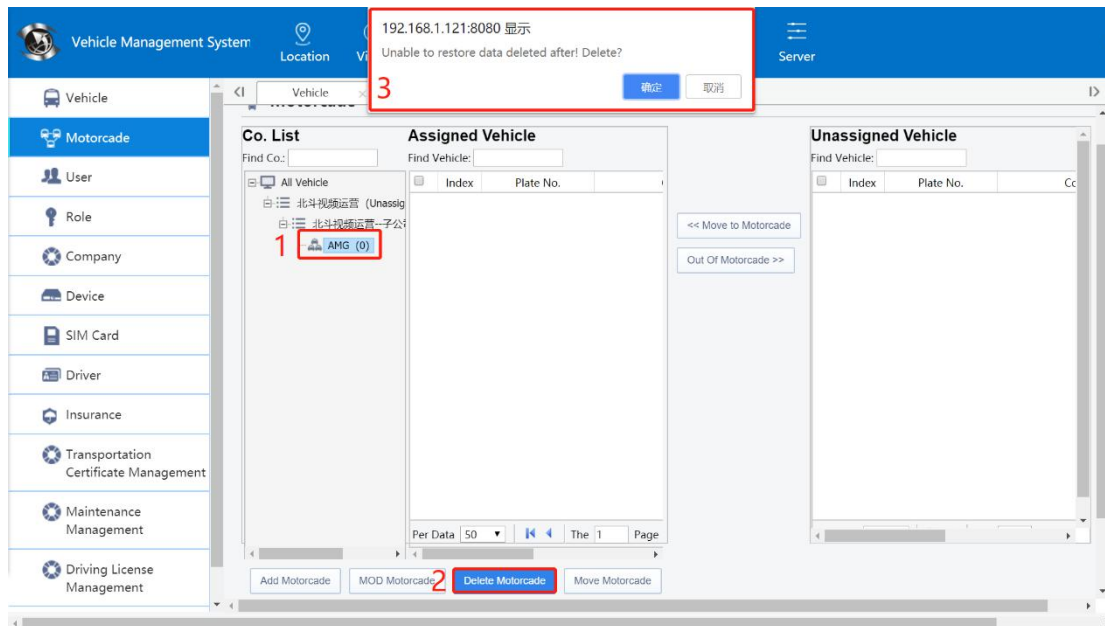
A. Addition of motorcade: Click company node and addition of motorcade as well as fill in motorcade name



B. Modification of motorcade: Select motorcade node and click modification of motorcade to modification motorcade name

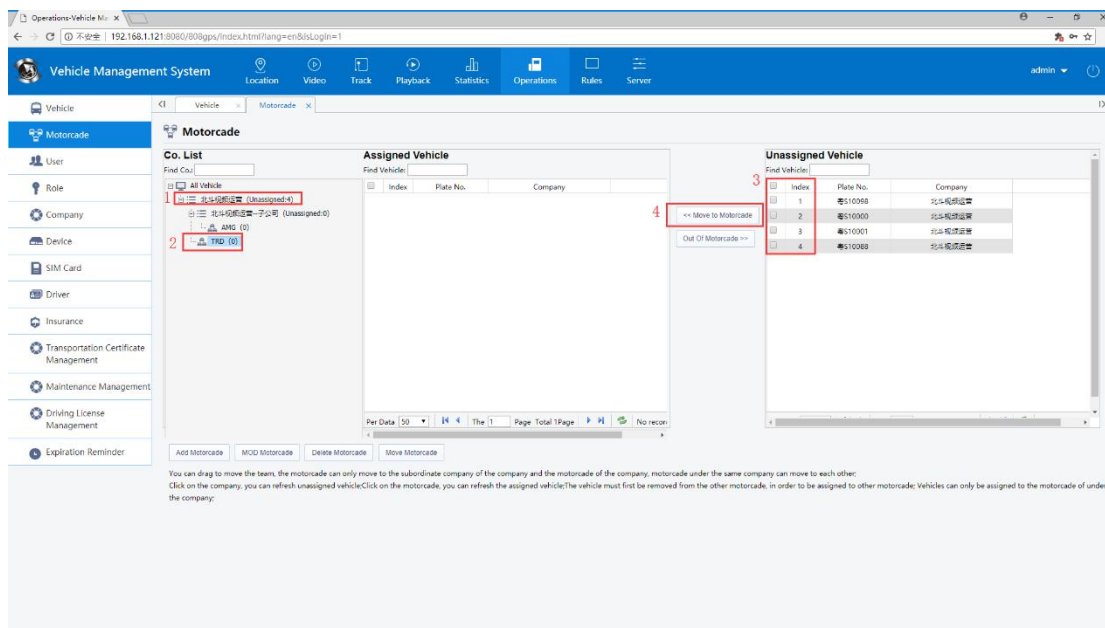


C. Deletion of motorcade: Select motorcade node and click deletion of motorcade



D. Movement of motorcade: Movement can be conducted under the same company

After establishment of motorcade, the vehicle can be moved to corresponding motorcade. Click company and motorcade to select and move undistributed vehicle to the motorcade or remove the vehicle from the motorcade. The operation is shown in the following figure:

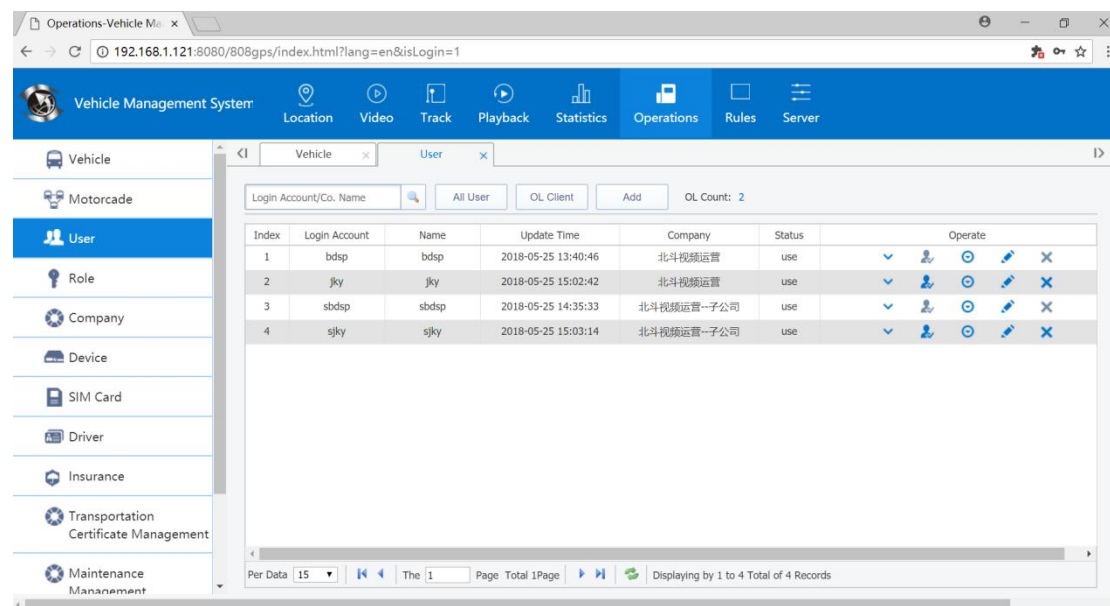


Note: For distributed motorcade, corresponding user account number can be newly added in the following user information and it's suggested that privilege is checked by default.

4.2.3.3 User information

User information mainly includes User query, addition of new users and operation

1. User query



2. Addition of new users: Subordinate company, login account (used for client login), user name, login password, validity (time limit of the user and it means no time limit in case of no checking for starting using) and role name (namely, role management)

Edit User

Basic Info

Company 北斗视频运营 *

Login Account bdsp *

The Validity 2019-06-11 00:00:00 Enable

Single Sign On no *

User Level I * V Highest

User Name bdsp *

Status use *

Disable Password Modification no *

Save Close

Management of newly established role: Role name, company (subordinate company), checked item by default is used by ordinary user and others failing to be checked are aimed at permission selection of management.

Edit Privilege

Basic Info

Role Name主公司监控员*

Company北斗视频运营

Location

Audio And Video Surveillance.

Terminal Control

Playback Manager

Statistics

Operations

Rule Set

System Config

Alarm Management

Sel or Anti-Sel:

SaveClose

3. Operation:

A. Password modification B. Privilege information

C. Vehicle authorization: Select corresponding vehicle from unauthorized ones to carry out authorization of the account number

S10098 - User Authorization

Unauthorized Sel Co. Login Account

	Index	Account	Company	Operate	
<input type="checkbox"/>	1	jky	北斗视频运营		

Per Data 50
The 1 Page Total 1Page
Displaying by 1 to 1 Total of 1 Records

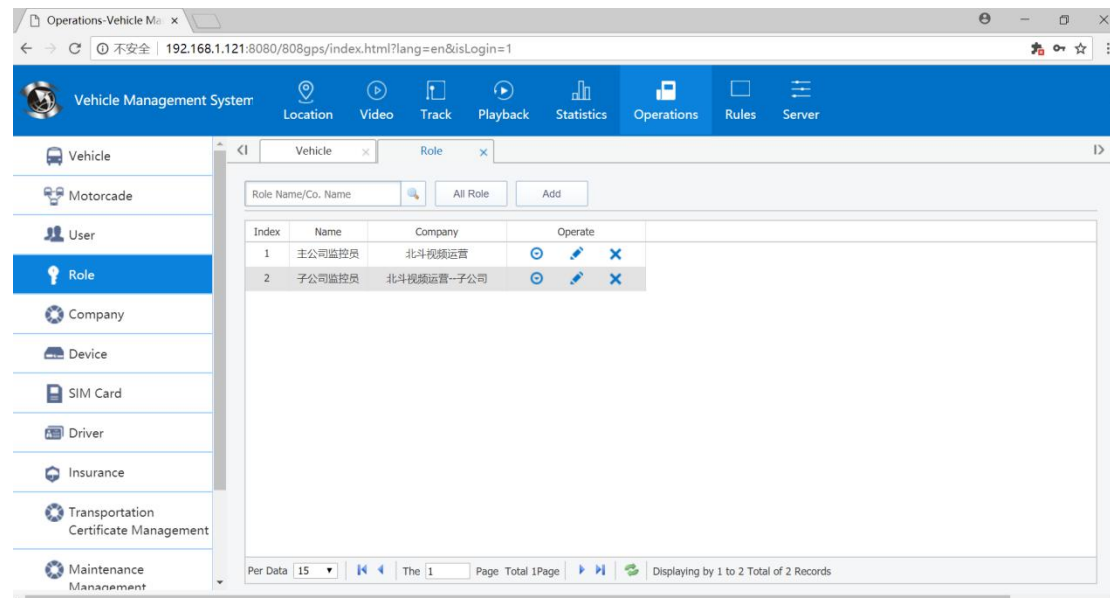
Authorize

D. Details: Viewing data

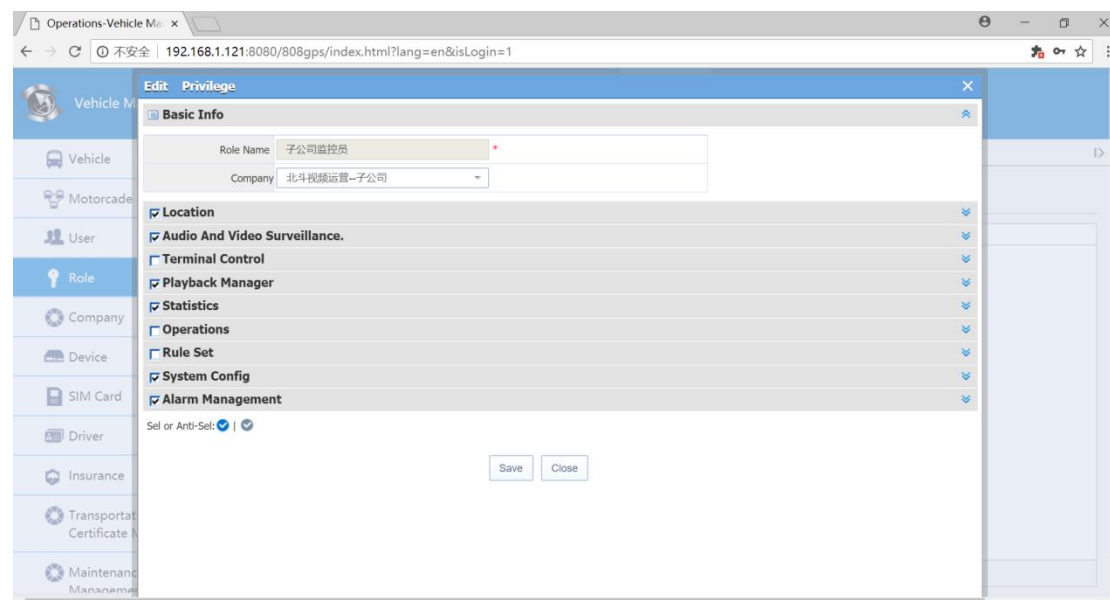
E. Editing: Modification of user information

4.2.3.4 Role management

Viewing role name and newly-added role



Management of newly established role: Role name, company (subordinate company), checked item by default is used by ordinary user and others failing to be checked are aimed at permission selection of management.



4.2.3.5 Company information

Company query and new company

A、Primary account number is distributed to the company

Note: Be careful at the time of selecting primary account number which is forbidden to be modified after selection.

Equipment management

B. Equipment query: Query as per installation situation and equipment number. Query page is as follows

Index	Device No.	SIM No.	Device Serial No.	Device Identific...	Device Type	Brand	Model	Company	Install Status	In...
1	10098				Video Terminal			北斗视频监控运营	Installed	2018-...
2	10000				Video Terminal			北斗视频监控运营	Installed	2018-...
3	10001				Video Terminal			北斗视频监控运营	Installed	2018-...
4	013333333333		3333333		Video Terminal		123	北斗视频监控运营	Installed	2018-...

Number of system management equipment: Refer to quantity of server software management equipment

Number of added equipment: Refer to quantity of added equipment

Number of equipment could be added: Number of system management equipment-number of added equipment

Number of online equipment: Refer to number of online registration server

Number of unregistered equipment: Refer to number of equipment with registered server but no equipment number added

4.2.3.6 SIM card information

Query of SIM card and newly-added SIM card

The screenshot displays the 'Vehicle Management System' interface. The top navigation bar includes links for Location, Video, Track, Playback, Statistics, Operations, Rules, and Server. The left sidebar lists various management categories: Vehicle, Motorcade, User, Role, Company, Device, SIM Card (highlighted), Driver, Insurance, Transportation Certificate Management, and Maintenance Management.

The main content area shows the 'SIM Card' tab with a search bar containing 'Sel Status', 'Install Status', 'Sel Co.', and 'SIM No.'. Below the search bar is a table with columns: Index, SIM No., Plate No., Device No., Status, Registration Time, Company, Install Status, and Operate. The table is currently empty, and a message at the bottom states 'No record'.

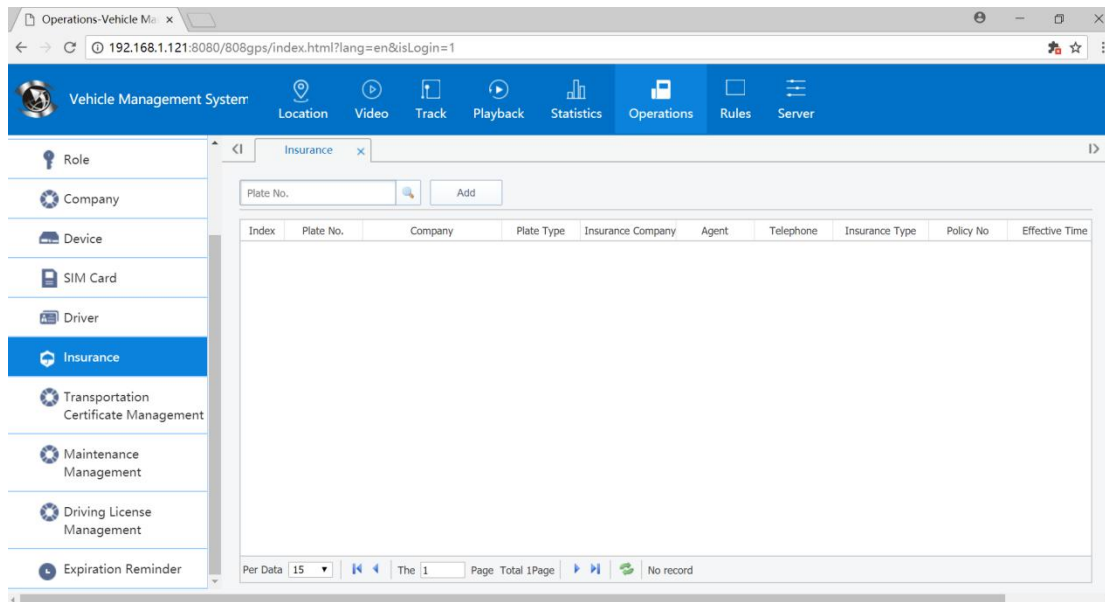
Below the main interface, the 'Add SIM Card' form is shown. It has two sections: 'Basic Info' and 'Other Info'. The 'Basic Info' section contains fields for 'SIM No.' (with a red asterisk), 'Company' (with a dropdown menu and a red asterisk), 'Registration Time' (set to '2018-06-11 00:00:00' with a red asterisk), and 'Enabled Status' (with a dropdown menu and a red asterisk). The 'Other Info' section contains a 'Remarks' text area. At the bottom of the form are 'Save' and 'Close' buttons.

4.2.3.7 Driver information

Query of driver information and information on newly added driver

4.2.3.8 Insurance information

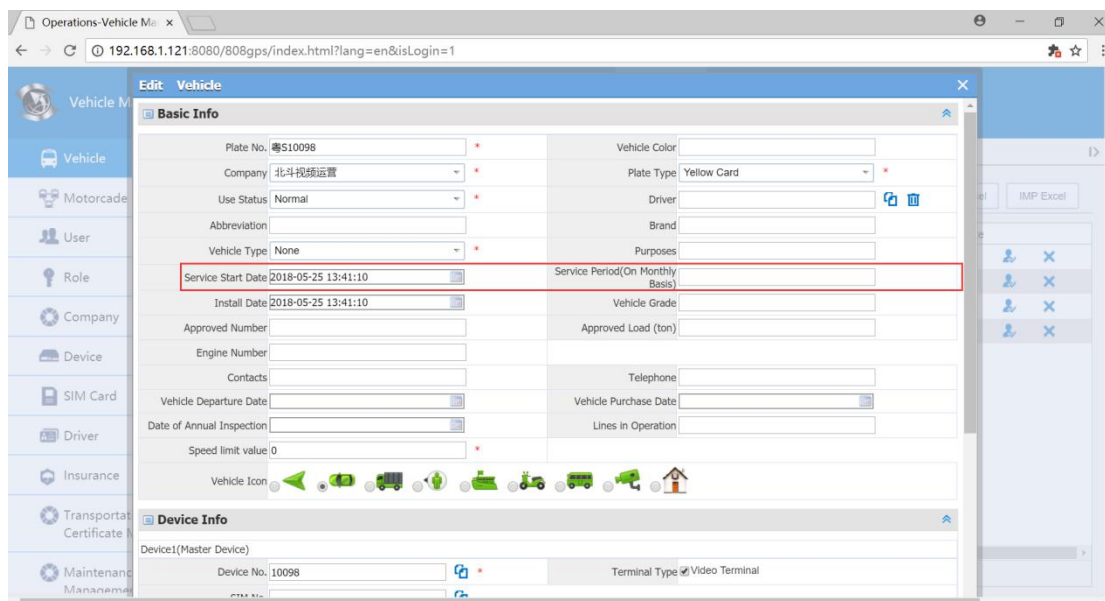
Insurance information



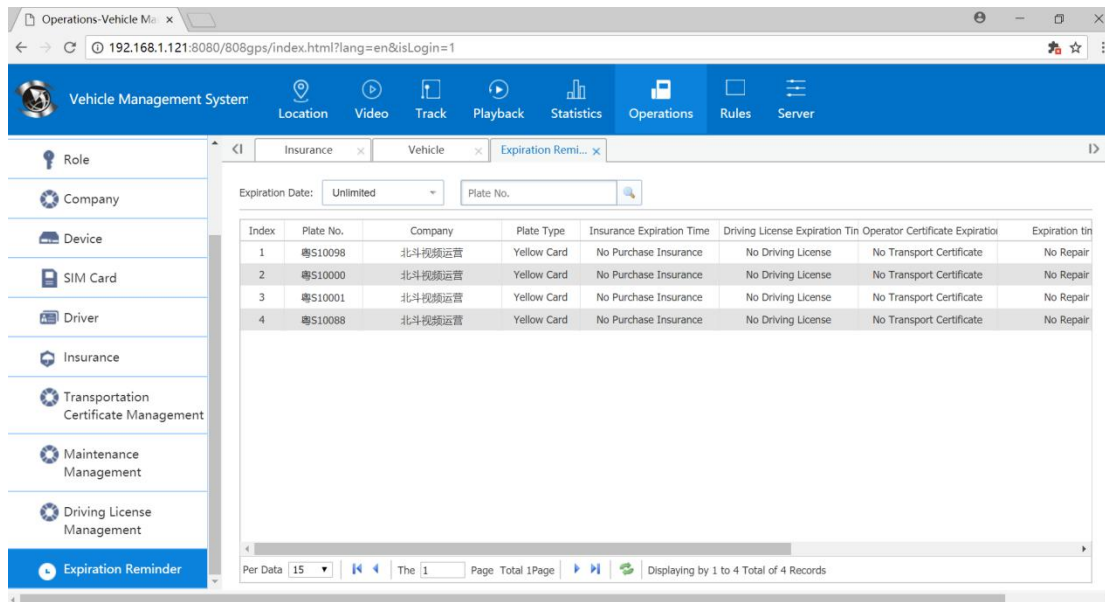
4.2.3.9 Expiration reminder

Expiration reminder is a statement for managing equipment usage time

1、 Firstly, restriction against usage time of the vehicle shall be set



2、 Data can be viewed at the moment of expiration reminder



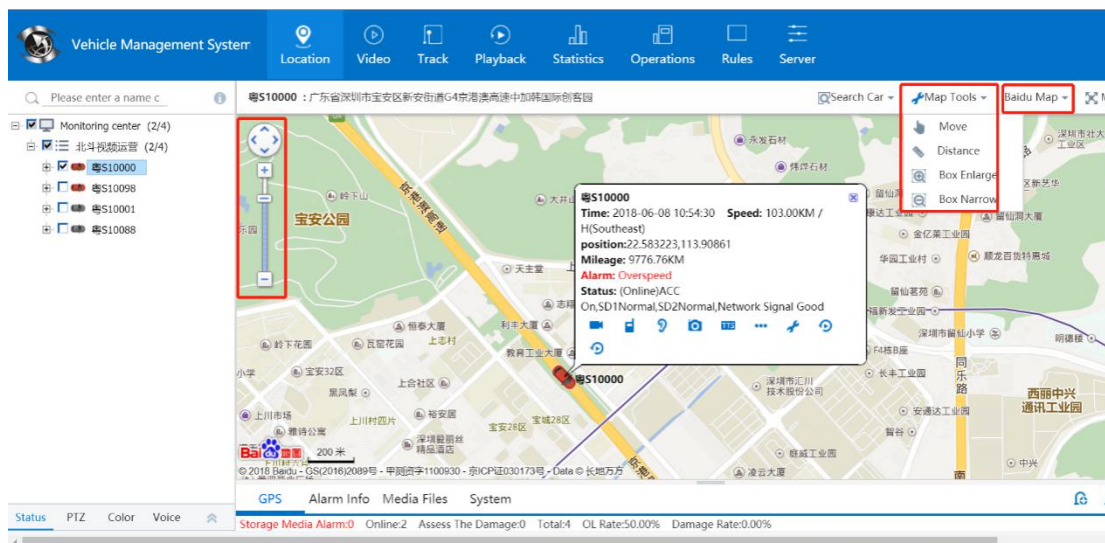
4.3 Position orientation

Real-time monitoring against the equipment in the terminal list on the left can be conducted on the CMSV6 webpage client and geographic location shall be displayed on the map.

4.3.1 Electronic map monitoring

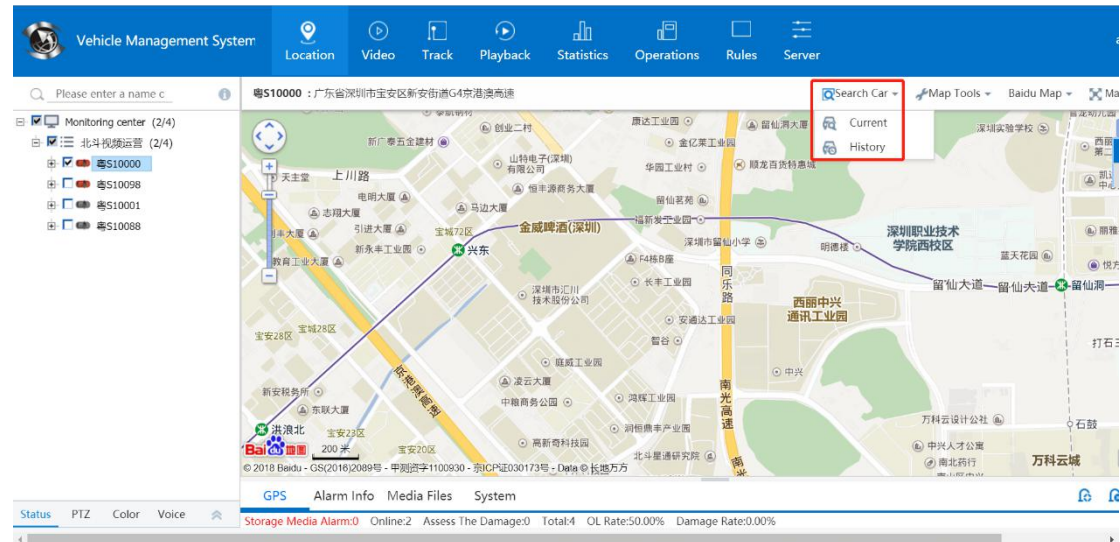
1. After selecting the equipment to be monitored in the equipment list, real-time monitoring can be realized by checking and real-time monitoring will be cancelled by removing checking.
2. For the equipment selected to undergo real-time monitoring, detailed information about such equipment will be displayed on the map, including equipment name, current running speed and date, mileage of the same day, total mileage, drive information, location and alarm information; In addition, such functions as video, talkback and monitoring are enabled.
3. Method of switching map type

Map switch at the upper right corner of the map exists and there are three choices: Baidu Map, google and amap.com



Zooming: The user can drag up and down scrollbars on the left of the map or click "+" and "-" buttons to magnify or shrink the map.

4. For vehicle check by frame, vehicle location can be checked after selecting one region.

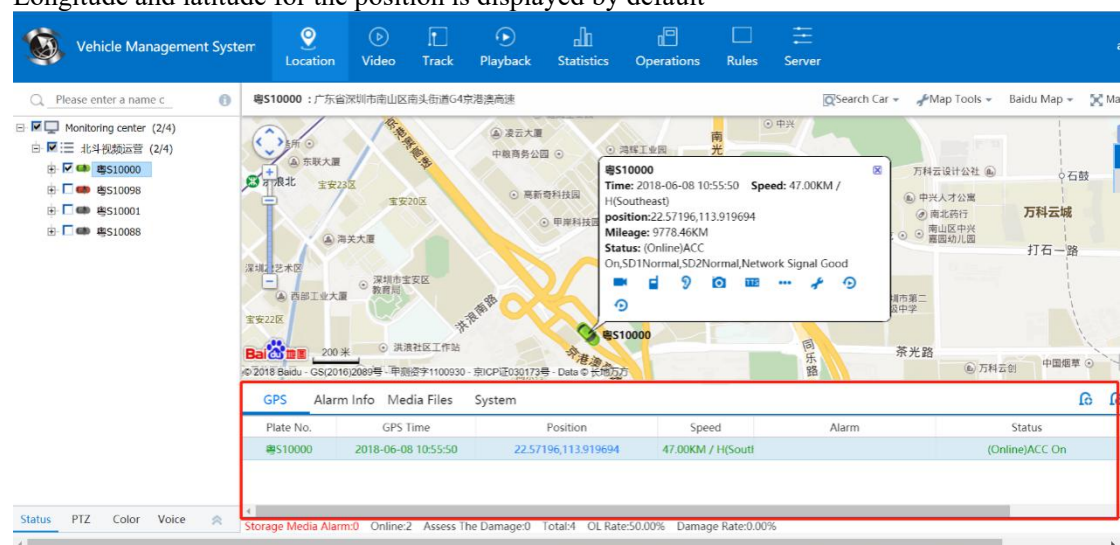


4.3.2 Information bar

Display: Definition of vehicle color, GPS monitoring, alarm information, media file and system event.

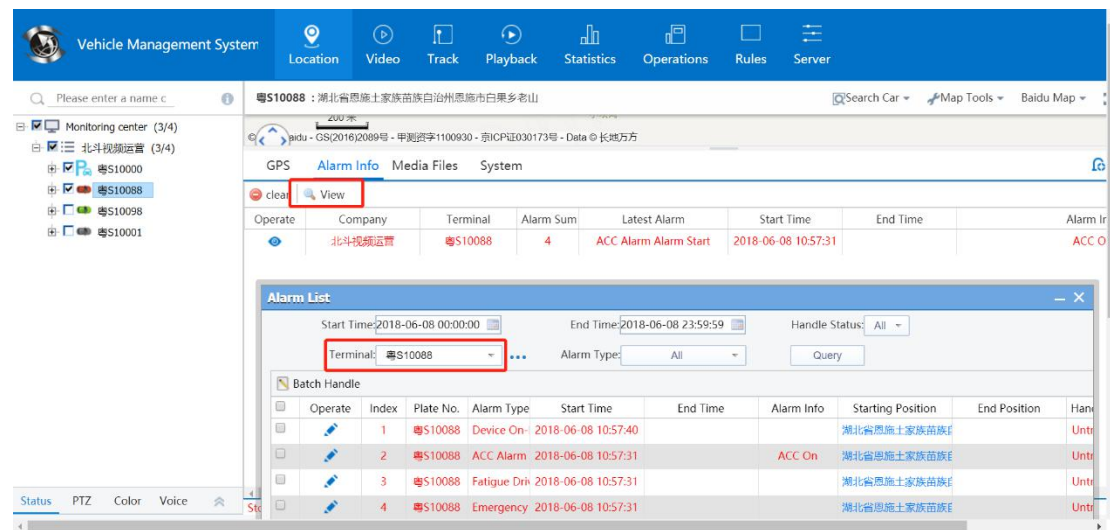
4.3.2.1 GPS monitoring

Longitude and latitude for the position is displayed by default

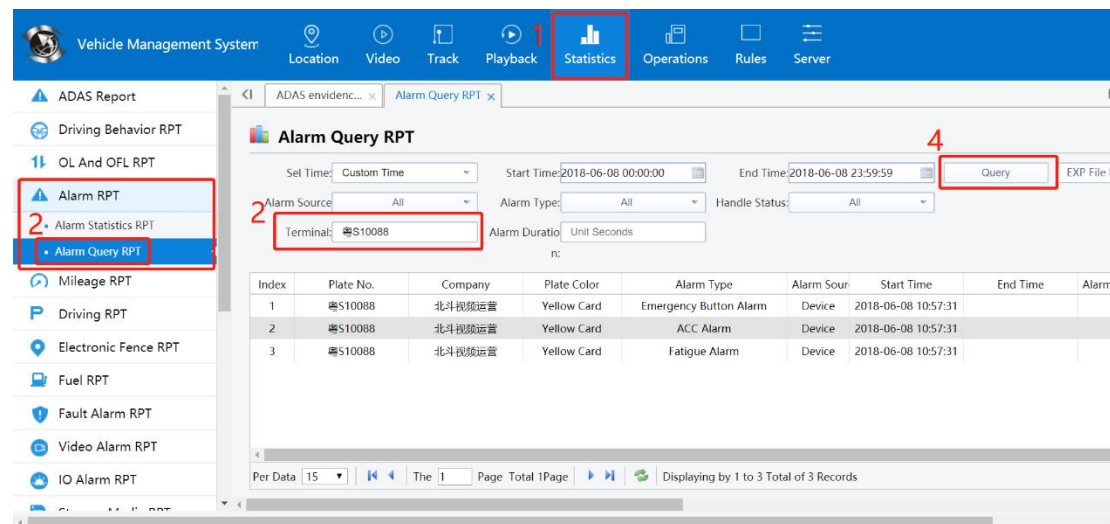


4.3.2.2 Alarm information

Query and remark of alarm can be conducted and your disposal remark content can be viewed in the alarm.

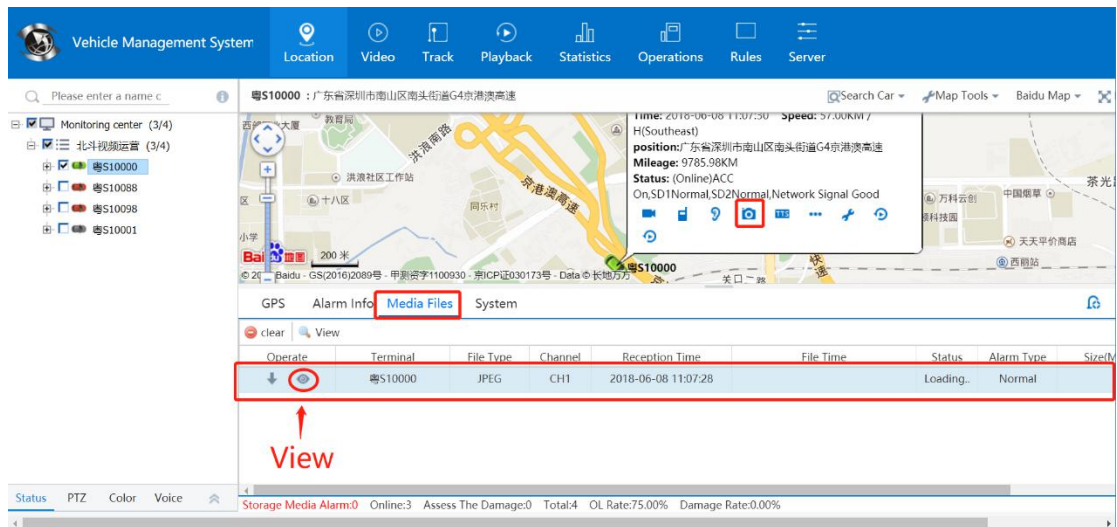


Statistics of generated alarm from the alarm list can be conducted as well as alarm disposal information can be inquired

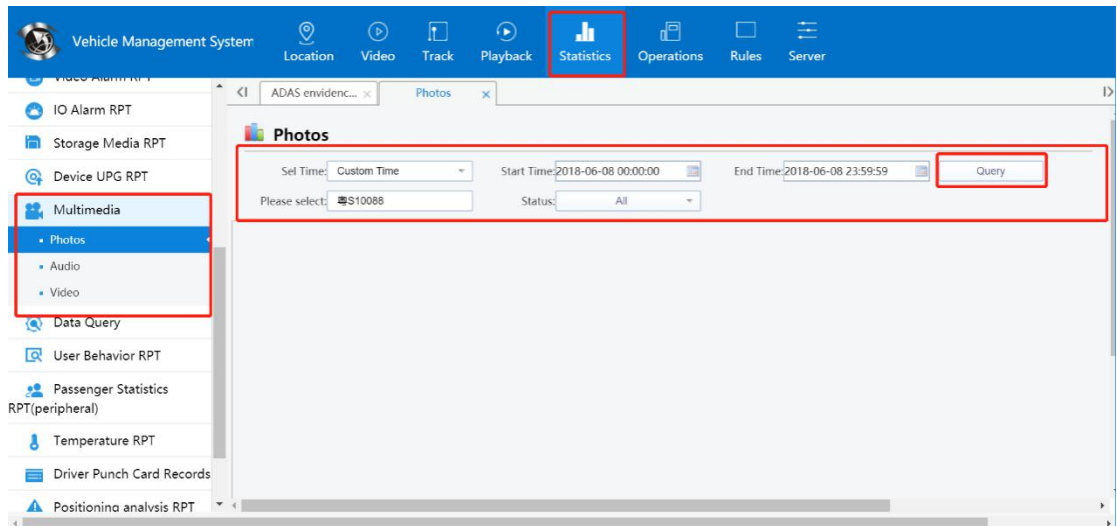


4.3.2.3 Media files

Real-time display of including operation snapshot, video and recording voice recorded on the interface or files regarding media such as picture and video files uploaded by the equipment will arise here.



The statement of media files can be inquired on the multimedia statement

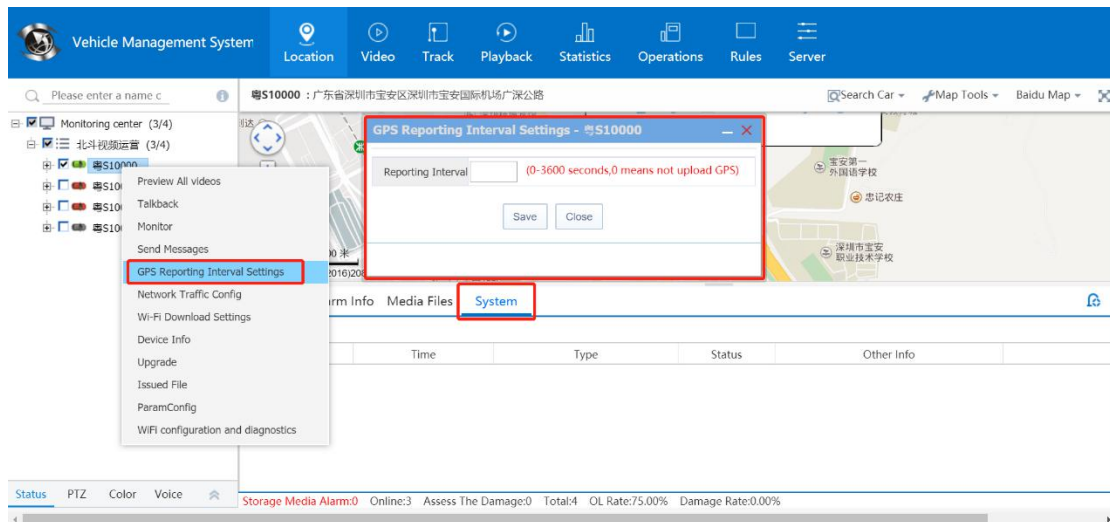


4.3.2.4 System events

1. Recording vehicle control by the user as well as GPS report interval setting.

Vehicle control: Restart the equipment, reset to factory setting, and carry out mileage liquidation and remove alarm (for equipment)

GPS report interval setting: Only data concerning GPS interval is displayed by GPS monitoring



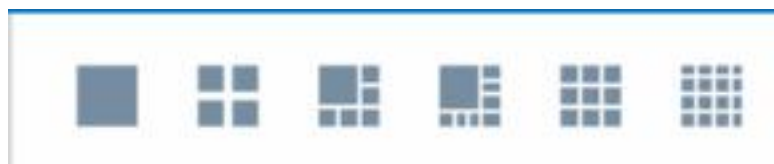
4.4 Real-time video

The interface switches to video and real-time video preview in the video window can be realized by direct double-click of the equipment in the equipment list. The user can also open channel video of designated equipment in the designated video preview window (the time of preview video frame shall be synchronous with the time of video frame of installed equipment)

4.4.1 Introduction to video form toolbar

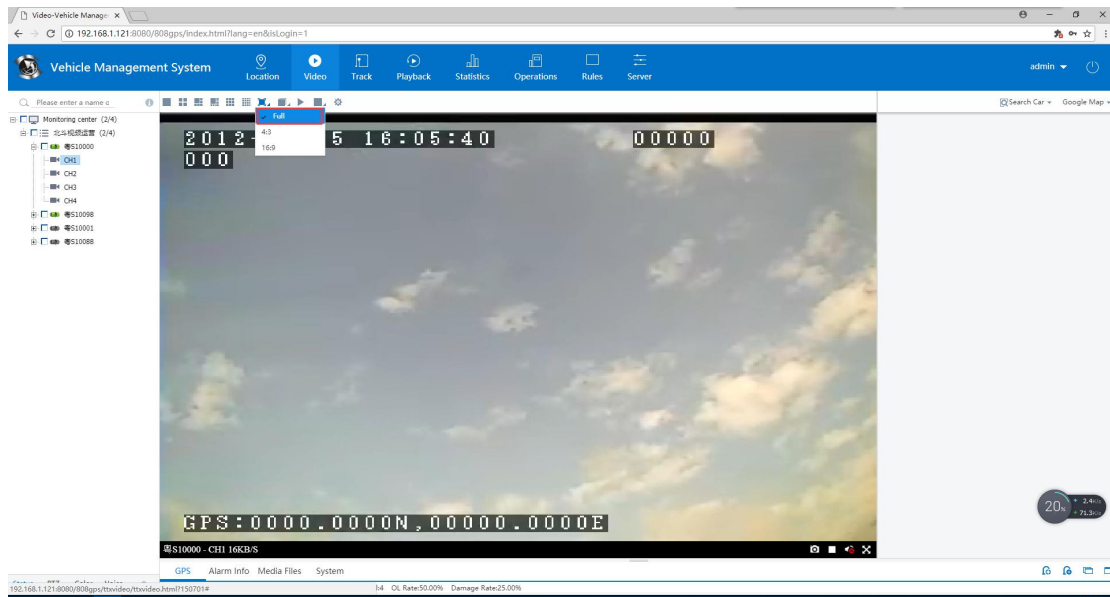


Frames of video window mode 1, 4, 6, 8, 9 and 16 are shown in the following figure

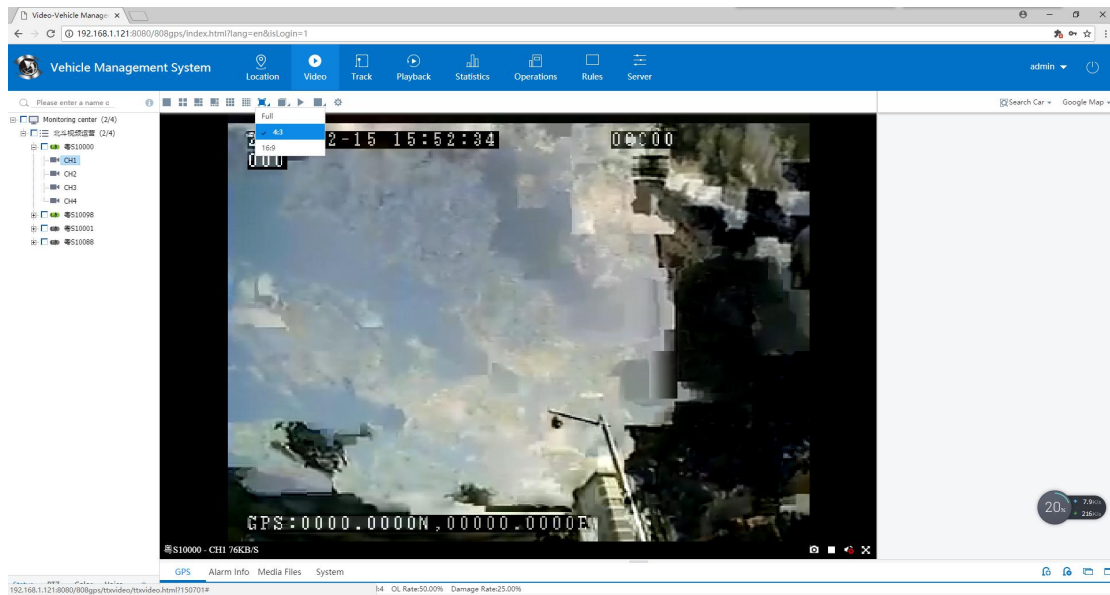


Video frame display mode: 1-Display of full screen 2- 4:3 display 3- 16:9 display

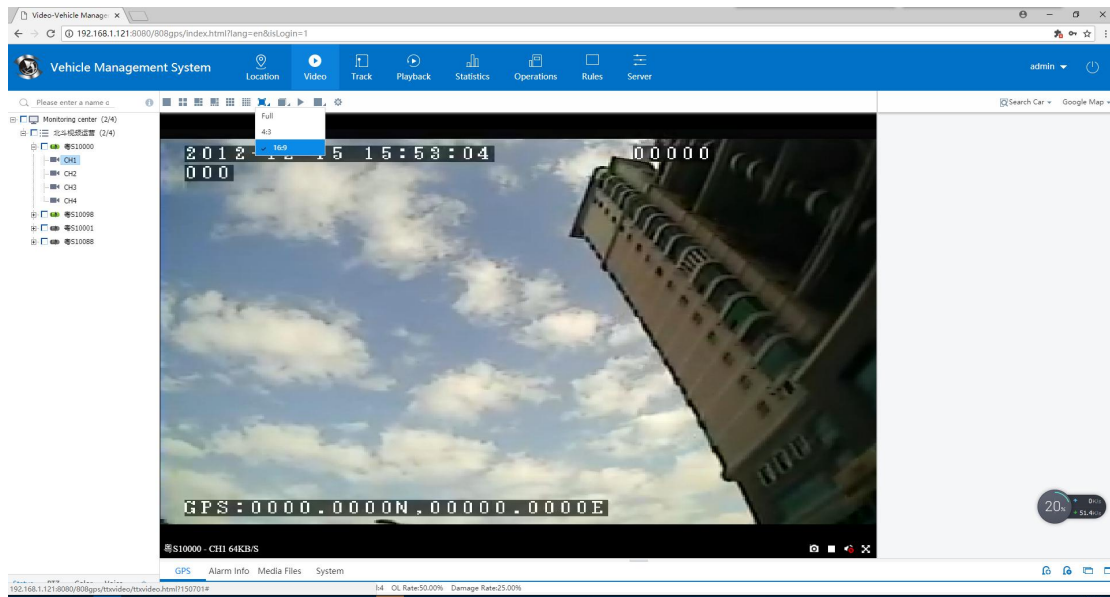
1. Effect of full screen display



4:3 display effect: Video is displayed based on aspect ratio of 4:3



16:9 display effect: Video is displayed based on aspect ratio of 16:9

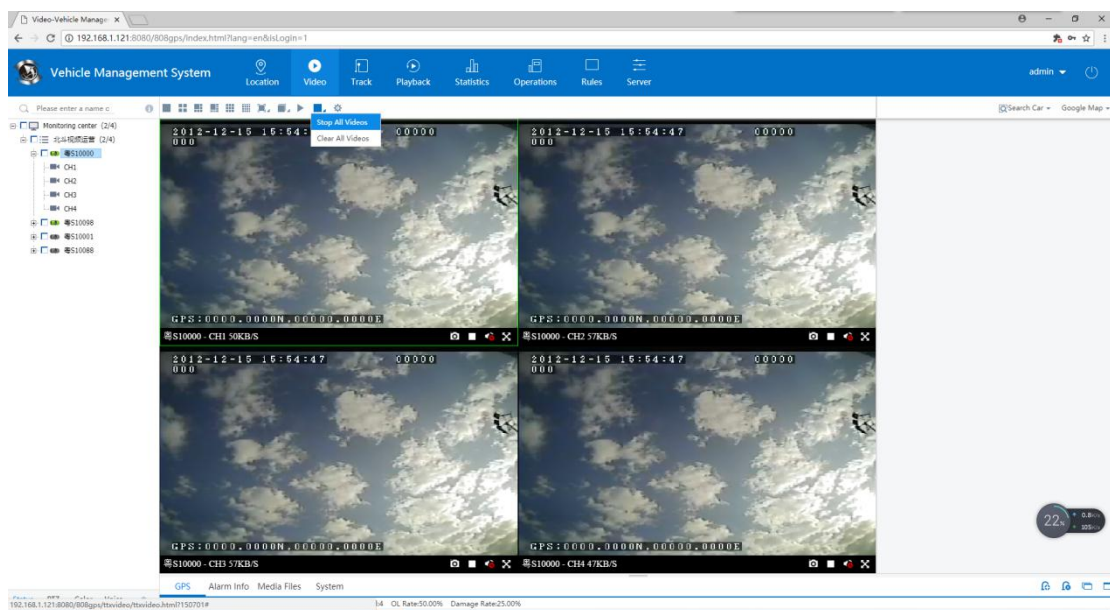


Selection of video effect: Good real-time: Giving priority to ensuring video instantaneity

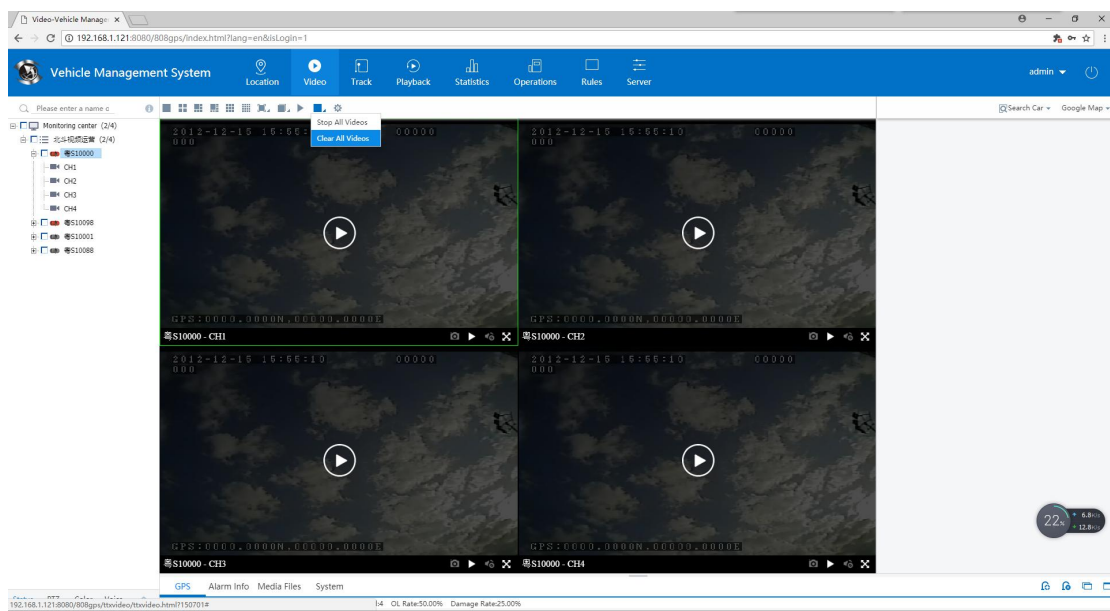
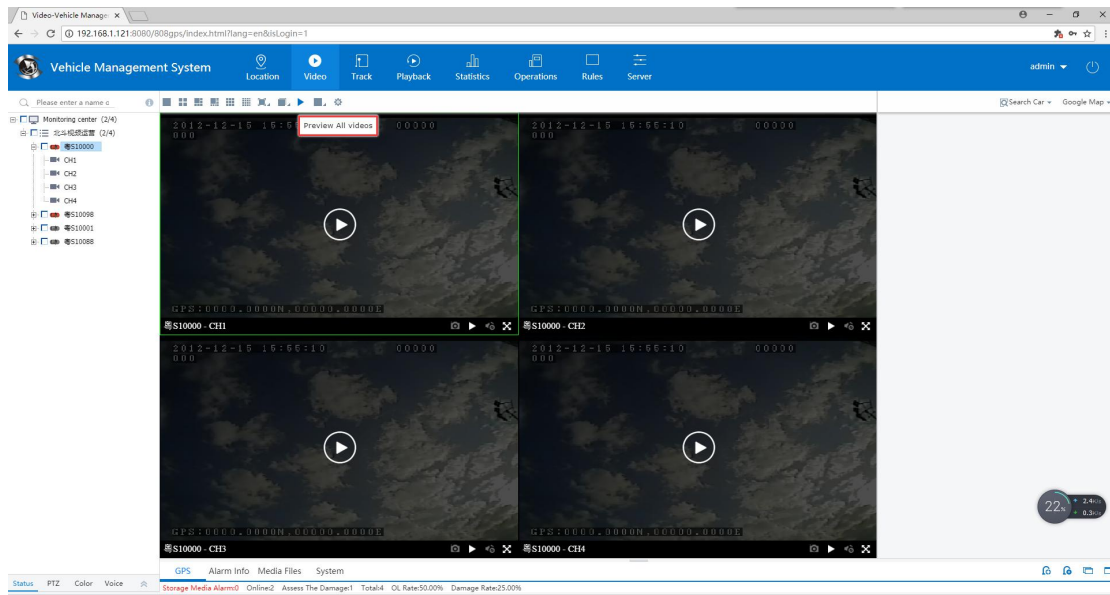
Good fluency: Giving priority to ensuring video fluency



Stopping all videos



All videos can be opened and eliminated only after the video is opened and stopped firstly.



4.4.2 Parameters setting



Video parameters, map parameters and alarm parameters

4.4.2.1 Description about video parameters

The image shows a 'Param Settings' dialog box with a blue title bar and a close button (X) in the top right corner. On the left is a sidebar with three buttons: 'Video Param' (highlighted in blue), 'Map Param', and 'Alarm Param'. The main area contains a table with four rows of settings, each with a label and a dropdown menu. At the bottom of the main area are 'Save' and 'Close' buttons.

Video Param	
The default request video	Sub-stream
Automatic shut-speaking and listening	After 5 minute off
Automatically turn off the video	After 5 minute off
Display the highest picture	Display 16 images

Save Close

(1) Default request video

When the parameter is used for view screen play, direct click of vehicle node in the left vehicle tree or channel node is conducted to play video, code stream is requested by default (subcode stream or main code stream).

(2) Automatic closure of talkback and monitoring

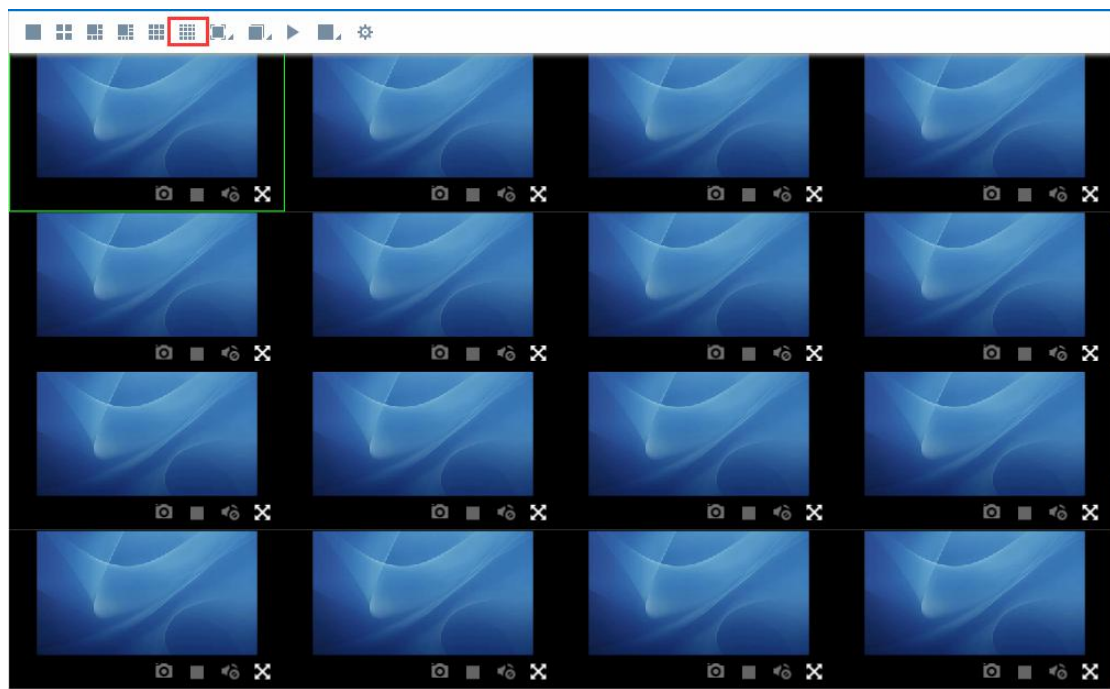
Set default time of talkback or monitoring. When monitoring or talkback time is more than such time, close talkback or monitoring

Automatic closure of video

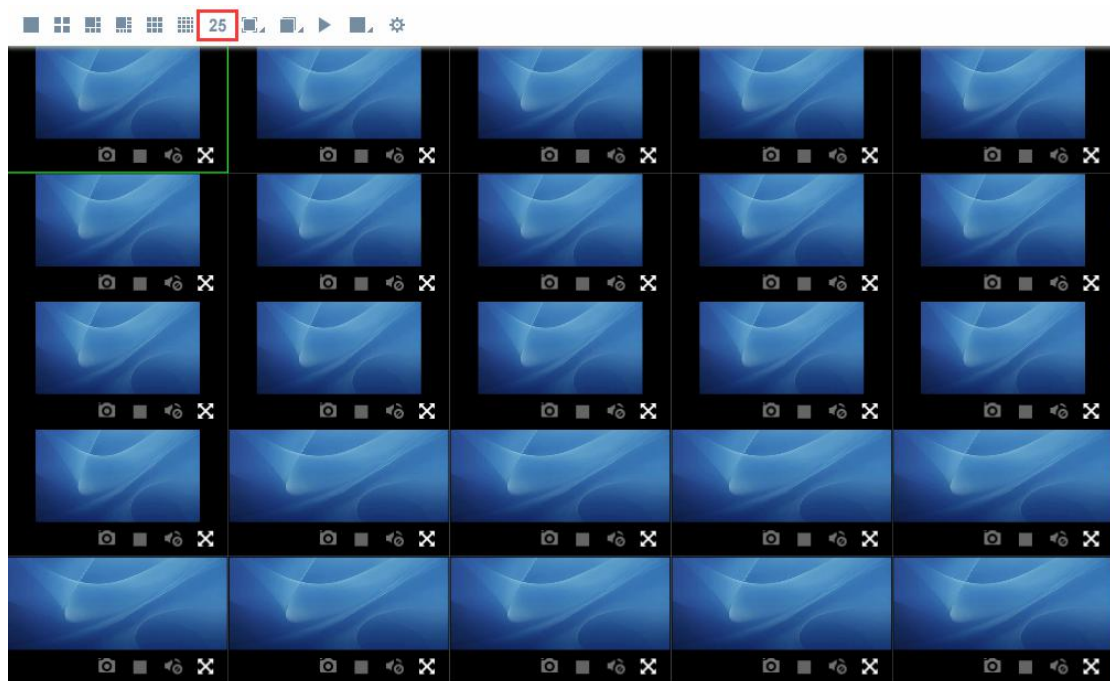
Set default time of video play. When video play time is more than such time, close video play.

Display of the highest picture

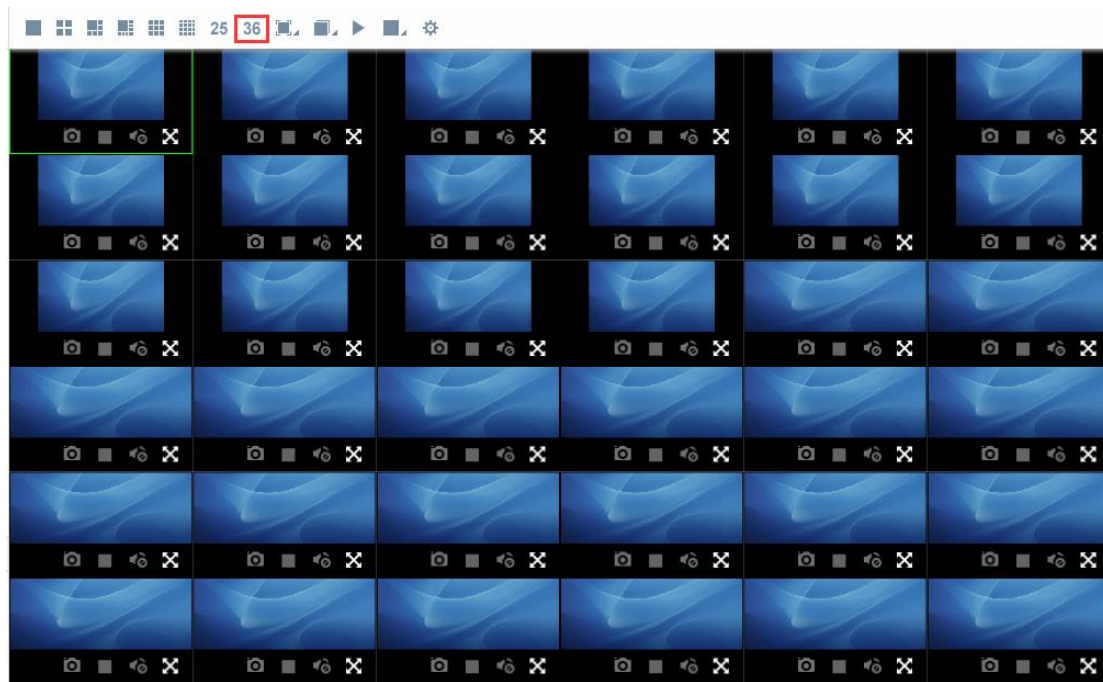
Display of 16 pictures



Display of 25 pictures



Display of 36 pictures



4.4.2.2 Map parameters

GPS refresh interval and aggregation of gauge point

Param Settings

Video Param

Map Param

Alarm Param

GPS refresh interval
10s

Enable Marker Cluster
☐ Yes ☒ No

Max Cluster Zoom
100m

Min Cluster Size
2
(2-999)

Location Resolution Type
Default

Velocity Unit
KM

Does show linesOperation
☒ Yes ☐ No

Save
Close

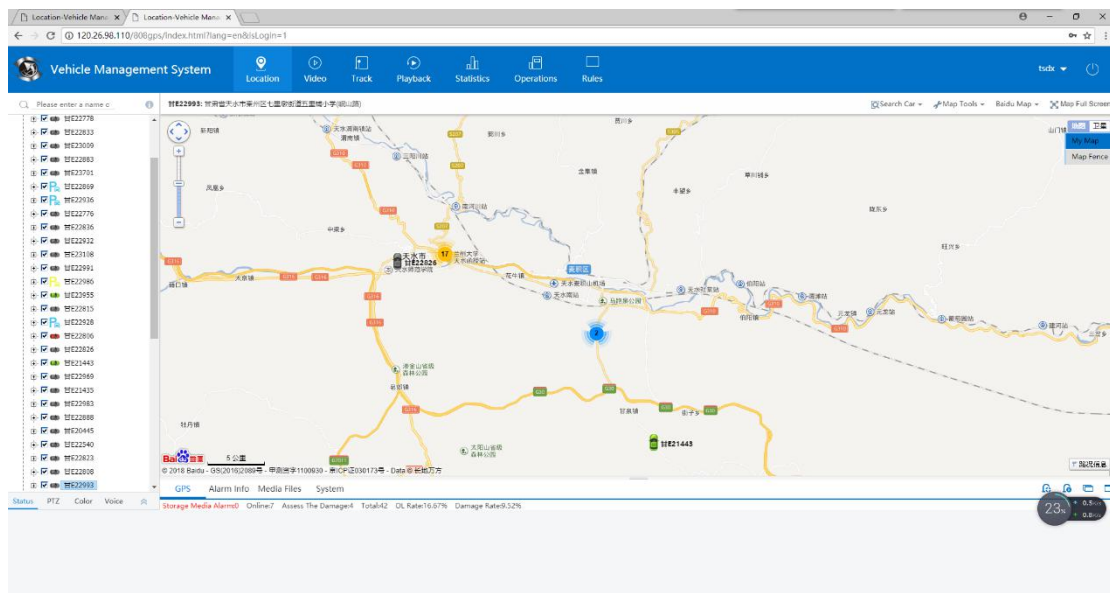
(1) GPS refresh interval

For GPS refresh interval, role of the parameter is show how long vehicle GPS status will be refreshed once



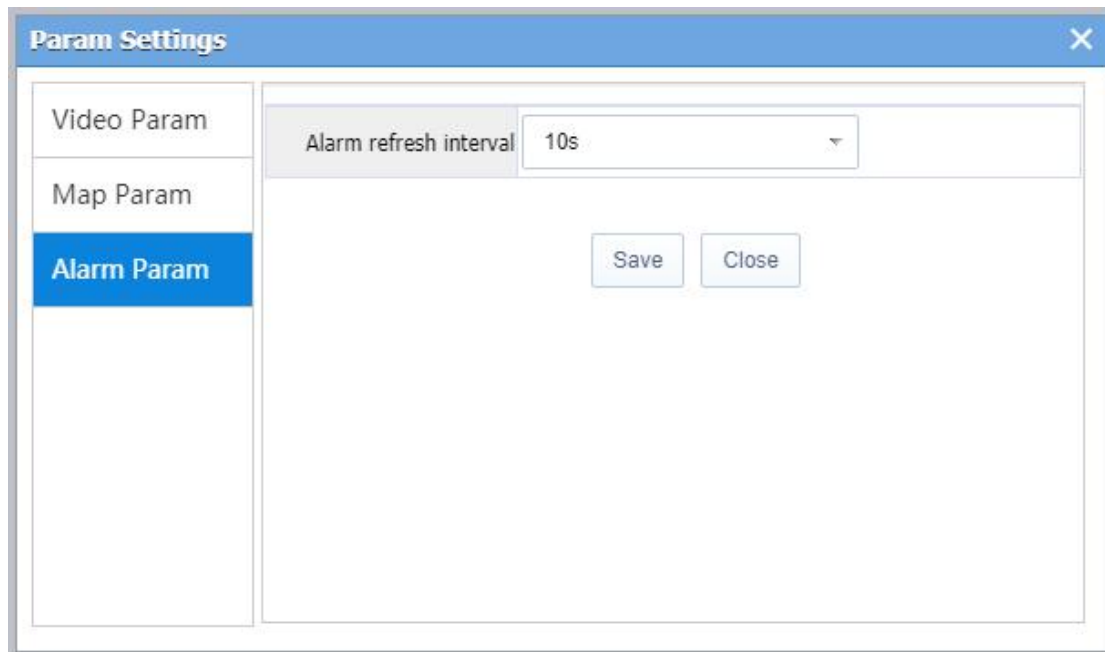
(2) Aggregation of gauge point

At the time of enabling aggregation of gauge point: When maximum aggregation level is 200m and minimum collection quantity is 2, refer to the following figure



When map distance is less than maximum aggregation level, each vehicle will be displayed

4.4.2.3 Alarm parameters



The image shows a 'Param Settings' dialog box with a sidebar containing 'Video Param', 'Map Param', and 'Alarm Param' (which is selected). The main area displays 'Alarm refresh interval' set to '10s'. There are 'Save' and 'Close' buttons at the bottom right.

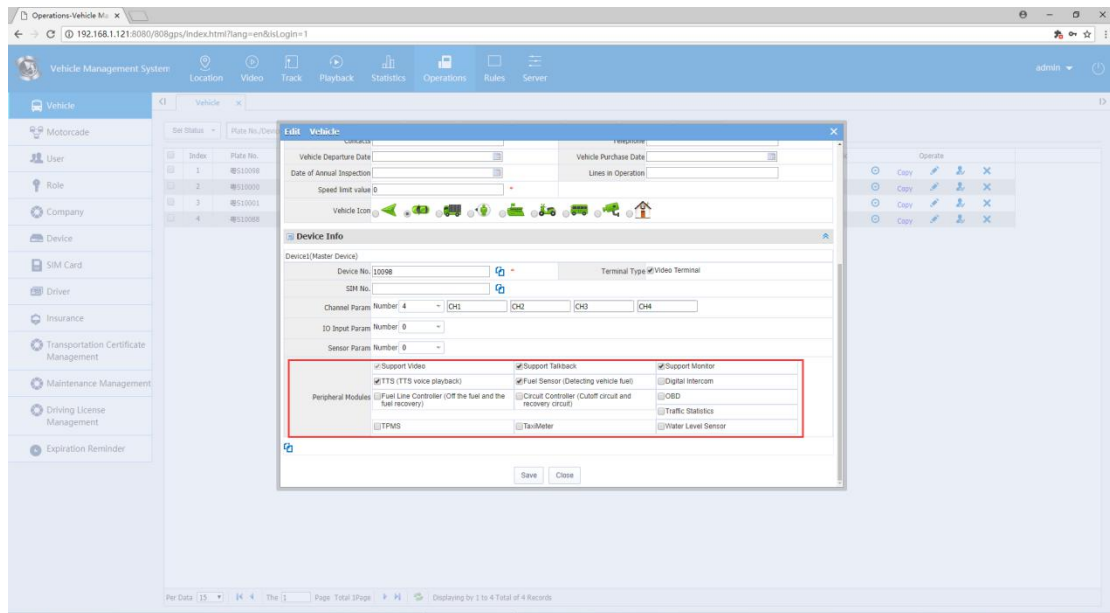
For alarm refresh interval, the parameter is used to show how long alarm status of the vehicle will be refreshed once

GPS Alarm Info Media Files System				
Plate No.	GPS Time	Position	Speed	Alarm
粤S10000	2018-06-12 14:34:48	广东省深圳市宝安区松岗街道东方大道	13.00KM / H(South)	
粤S10098	2018-06-12 14:34:47	广东省深圳市南山区南头街道南海大道	33.00KM / H(East)	

4.5 Voice talkback and monitoring

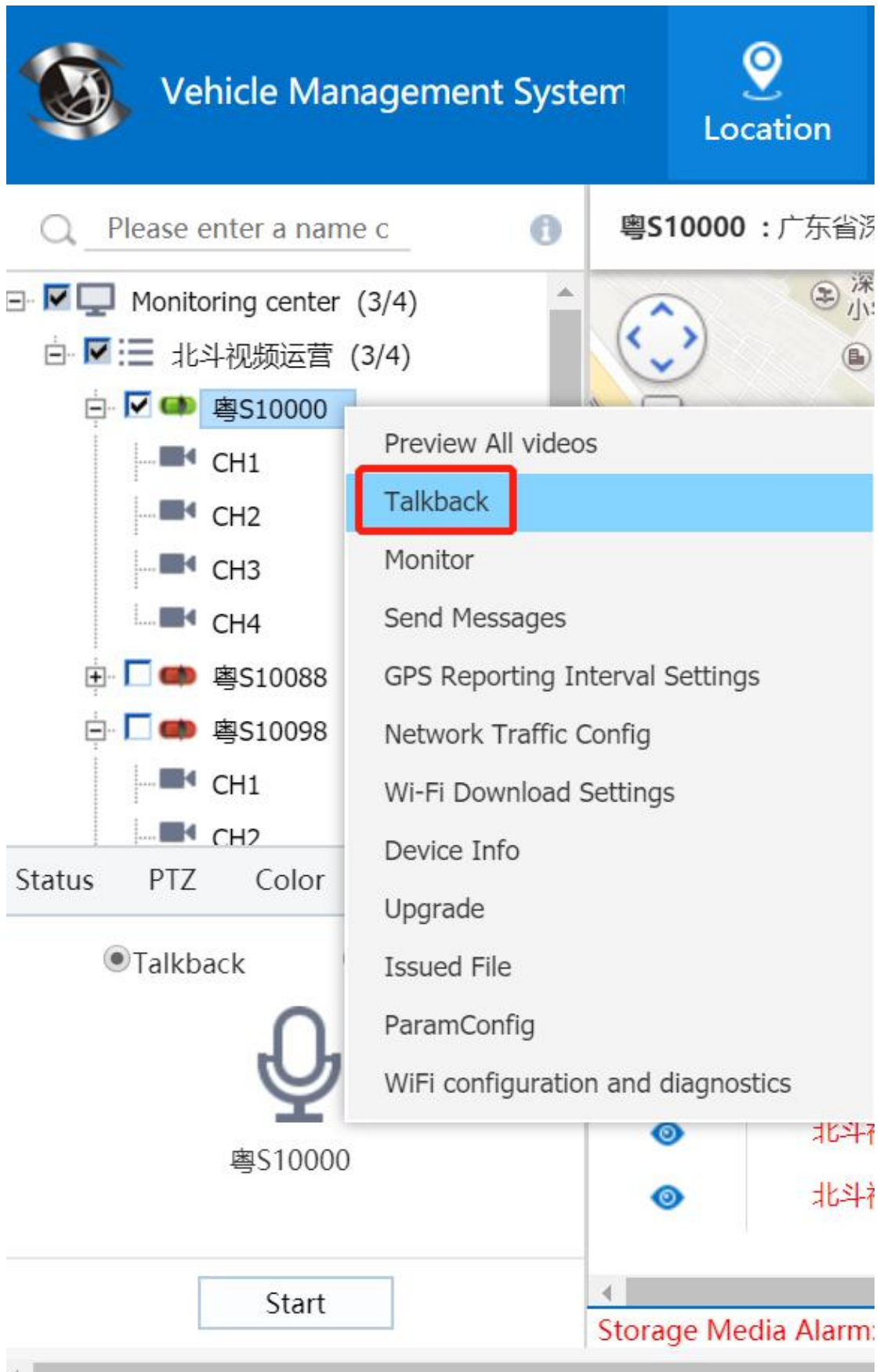
The user can carry out monitoring and talkback for the equipment managed by it on the client.

The premise is the equipment end is in possession of talkback equipment and it's necessary to edit vehicle equipment information in the vehicle information and check peripheral module.

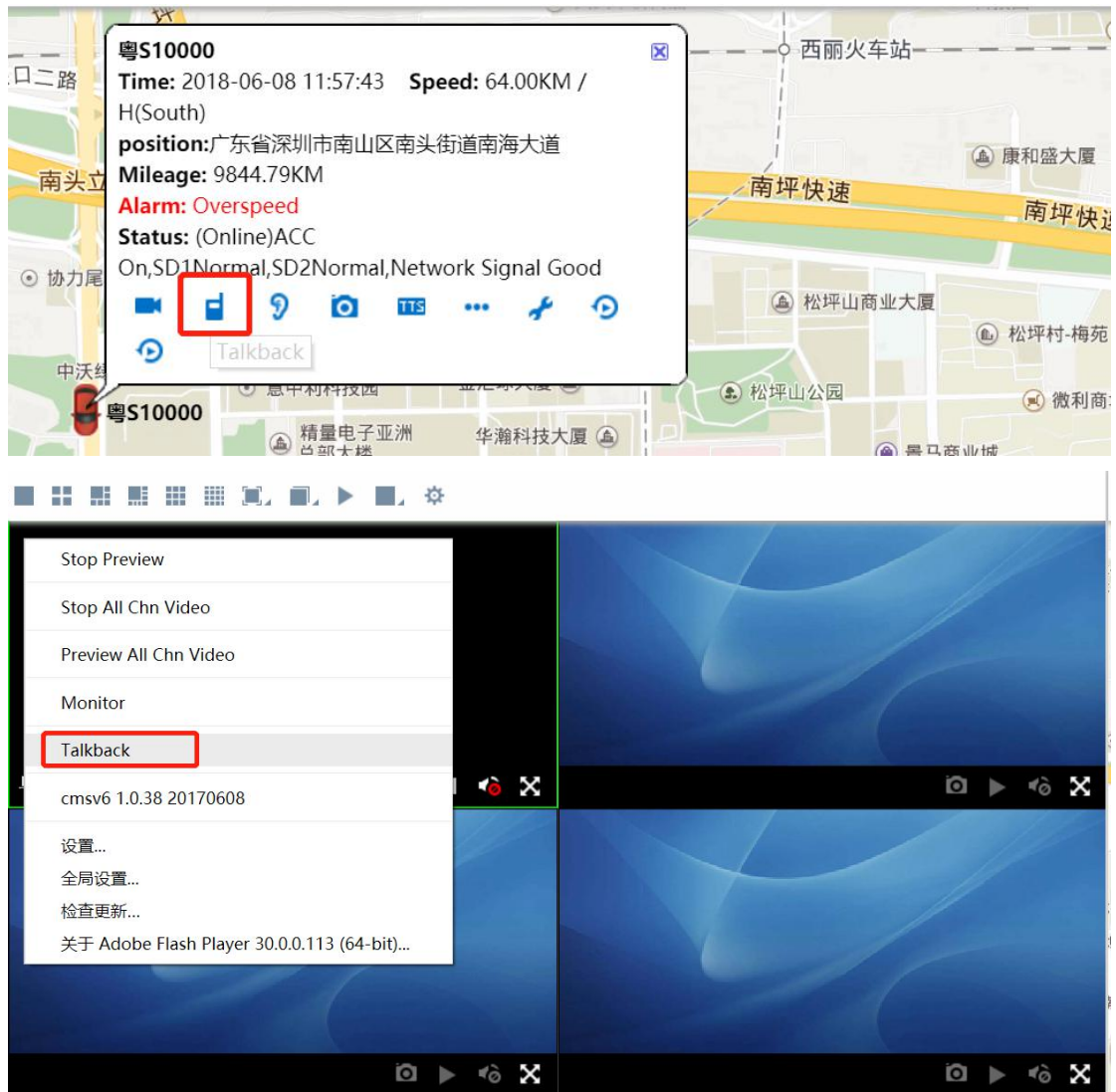


4.5.1 Voice talkback

A. Select the channel of the equipment to be talked back in the terminal list, right-click and select "Start Talkback" from the menu that appears.



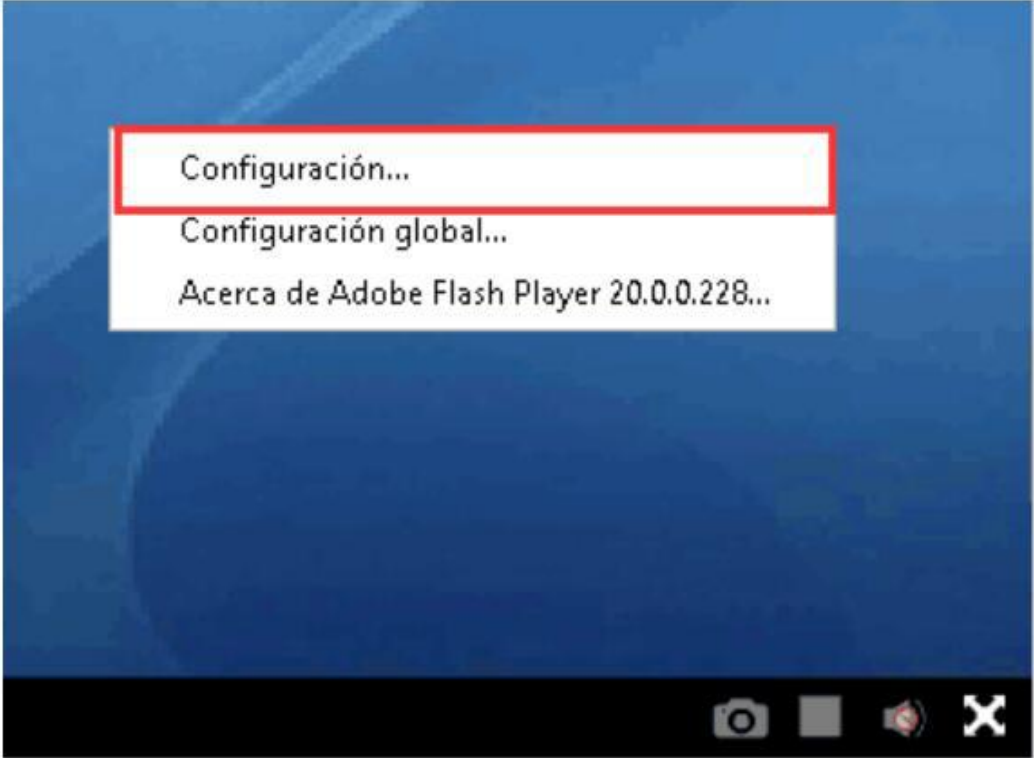
B. Directly click the video window to start talkback, or click the message box on the map to start talkback.




If the browser does not set up talkback properly, you need to set talkback by clicking the video window

Please turn FLASH plug microphone ✕

1. select Settings in the video window on the right-click menu



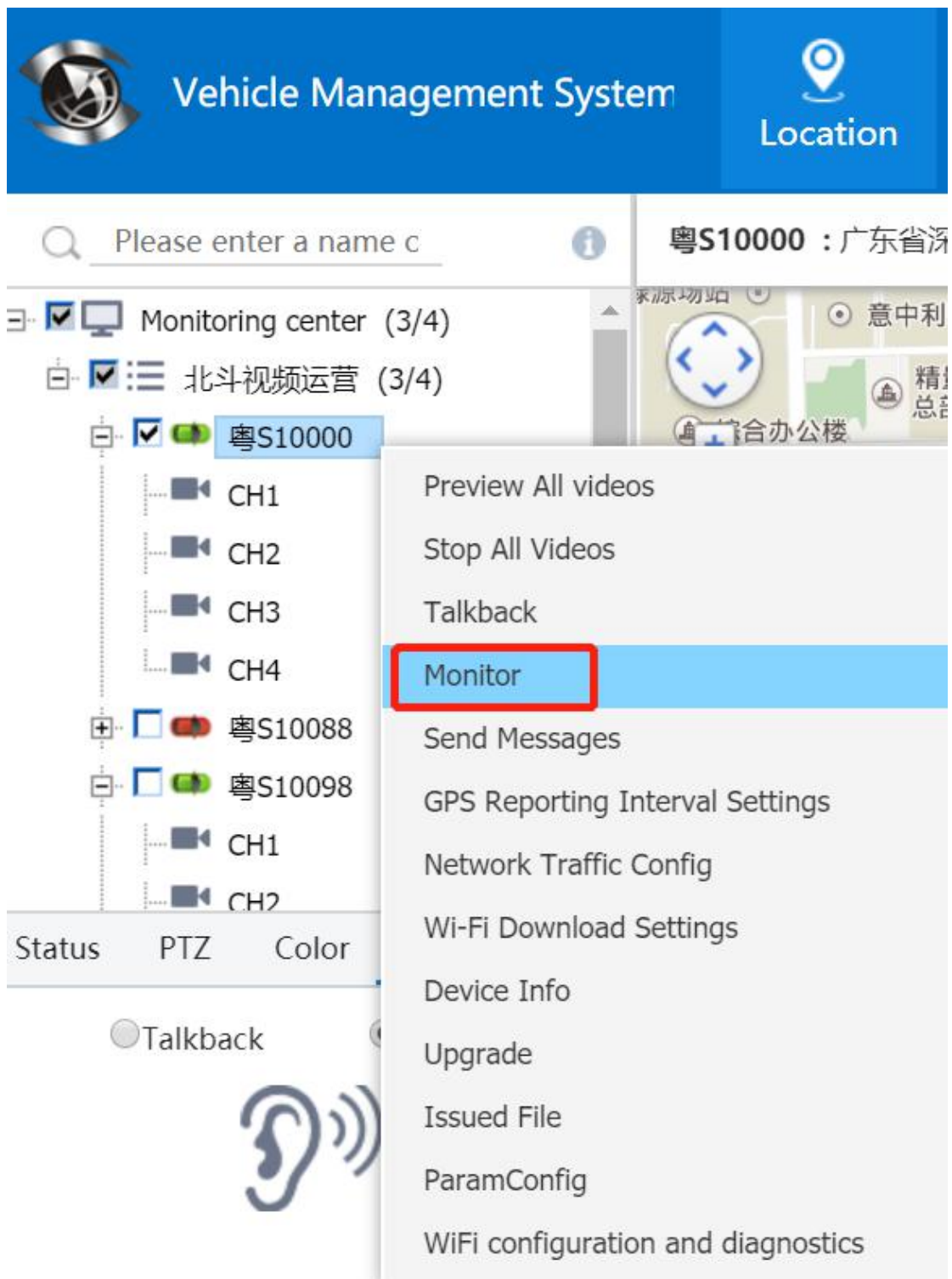
The second step in the Settings window select 'Allow' and check the 'Remember'



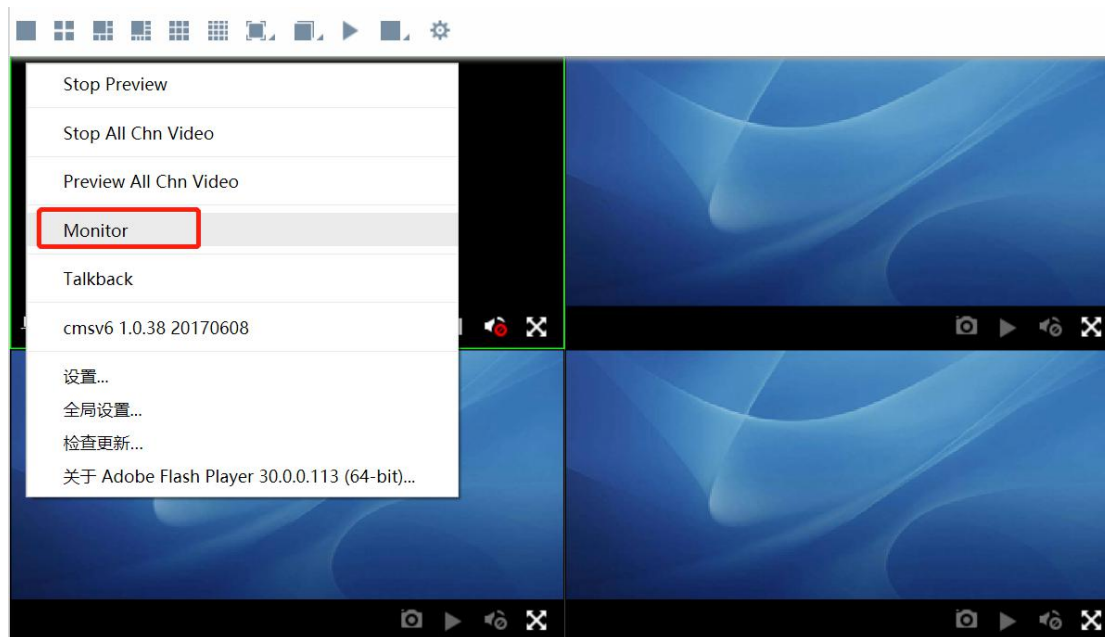
Close the settings and restart the intercom

4.5.2 Monitoring

A. Select the equipment to be monitored in the terminal list, right-click and select "Start Monitoring" from the menu that appears.

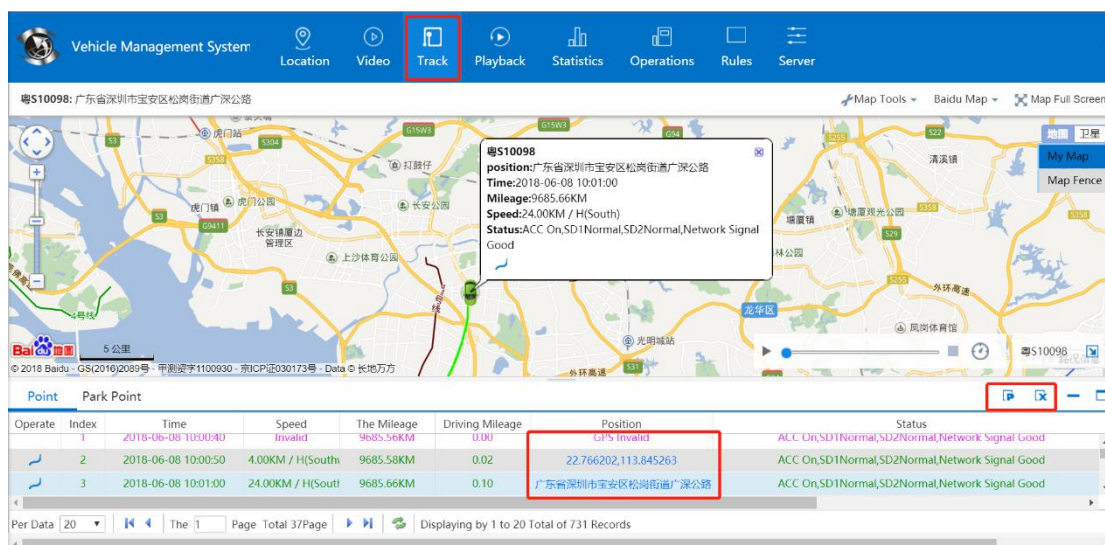


B. Open the real-time video preview of the equipment, right-click, and start the monitoring through the menu or the information bar on the map (see section 11.1.1)



4.6 Track playback

The designated equipment performs the trajectory search according to the specified conditions, and displays the trajectory with green lines, and meanwhile displays the trajectory points and the parking spots on the information bar synchronously, and exports the related data as required, as shown in the figure below.



Headway: Upload a GPS data on every selected interval. If it is 0, upload a GPS data for every 10 seconds.

Parking duration:

0: Search for all parking gps points and show them

None 0: In case of continuous gps parking spot, only the last gps parking point data is uploaded to the platform.

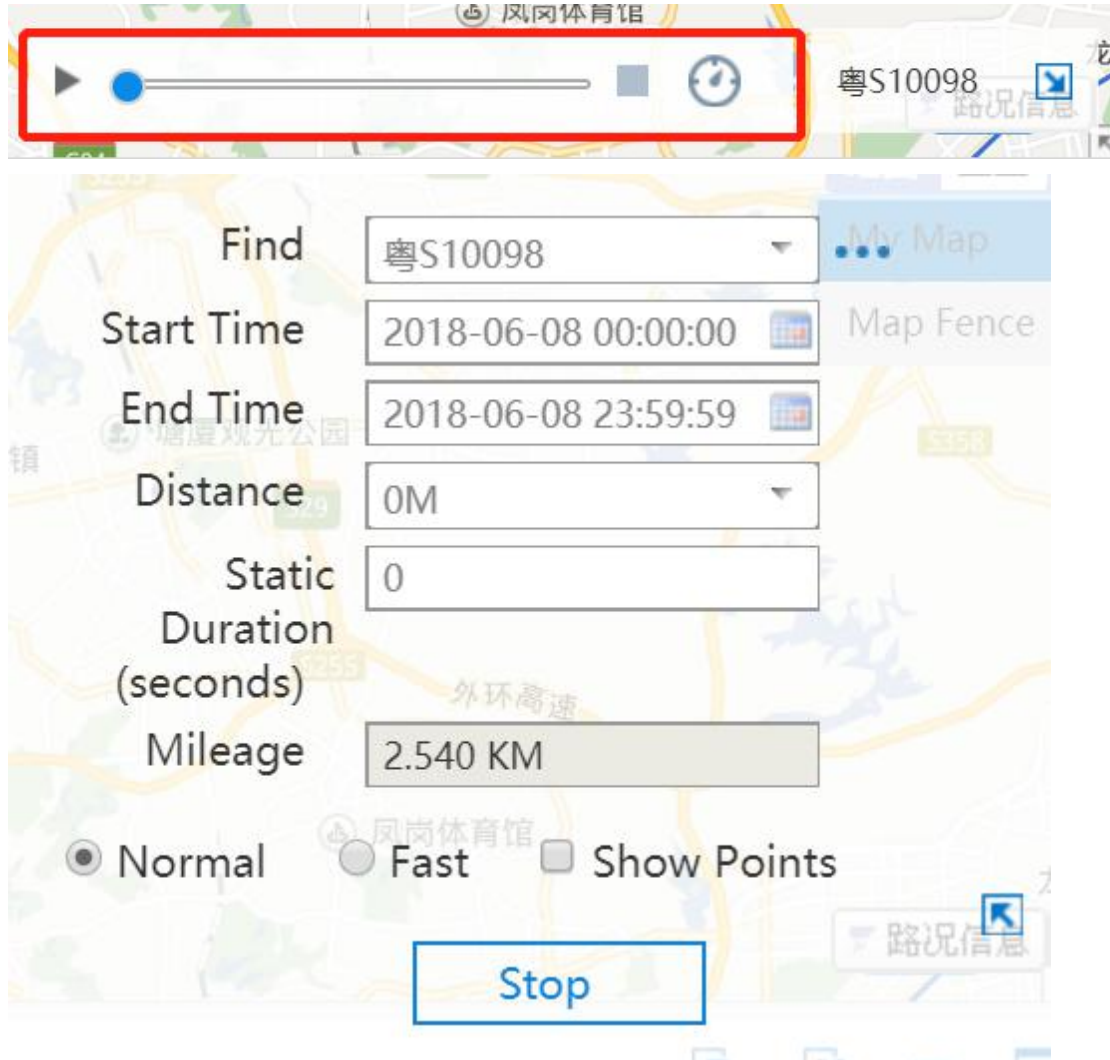
Traveled distance: Total mileage of the current vehicle on the day

Speed: Control the speed of track playback

Location:

a) Line: Changing from white lines to blue lines, representing the download progress of the trajectory data

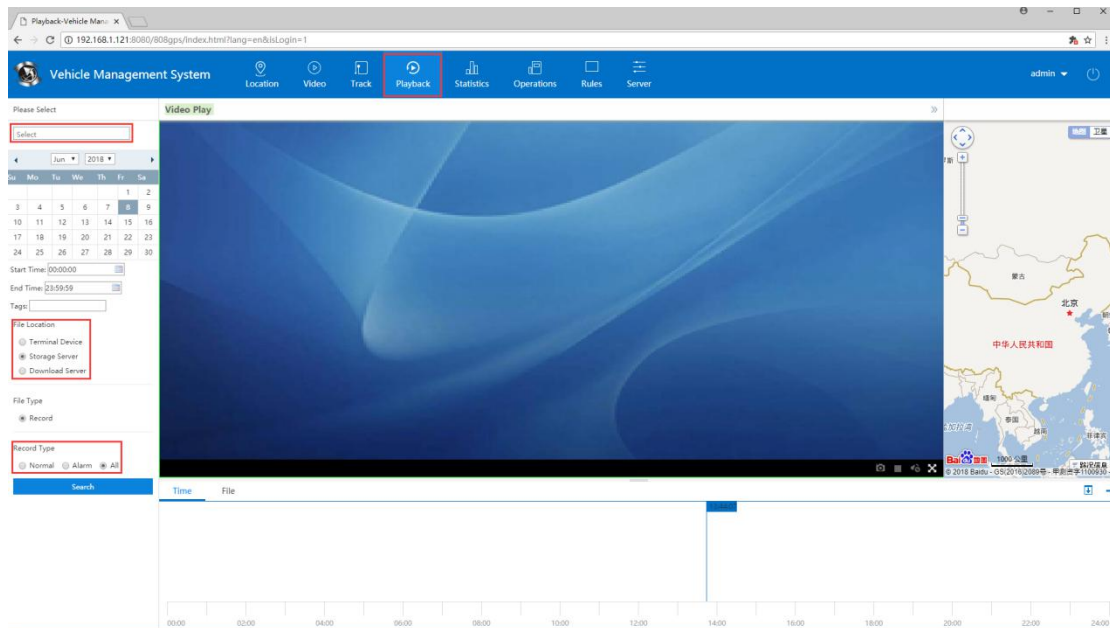
b) Drag the button: Progress of trajectory playback



4.7 Video replay

4.7.1 Video search

Click "Video Replay" on the interface, and select the vehicle and time query, the interface is as follows



Terminal equipment: Search for video file in SD card or hard disk

Storage server: The equipment is configured with a storage plan to search for video file recorded on the storage server

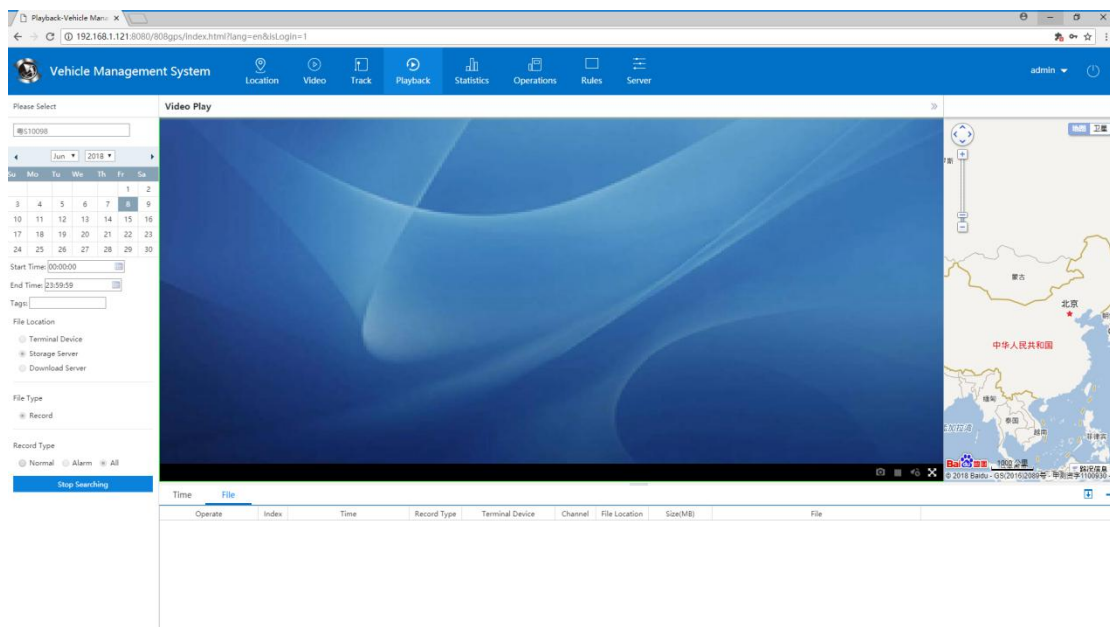
Download server: Search for video file on the download server

Video type

When searching for videos, there are three kinds of video search conditions: alarm video, regular video and all videos.

4.7.2 Video replay

After specifying the search condition, there is a list of searched file below, as shown below:



Icon introduction



Download this file

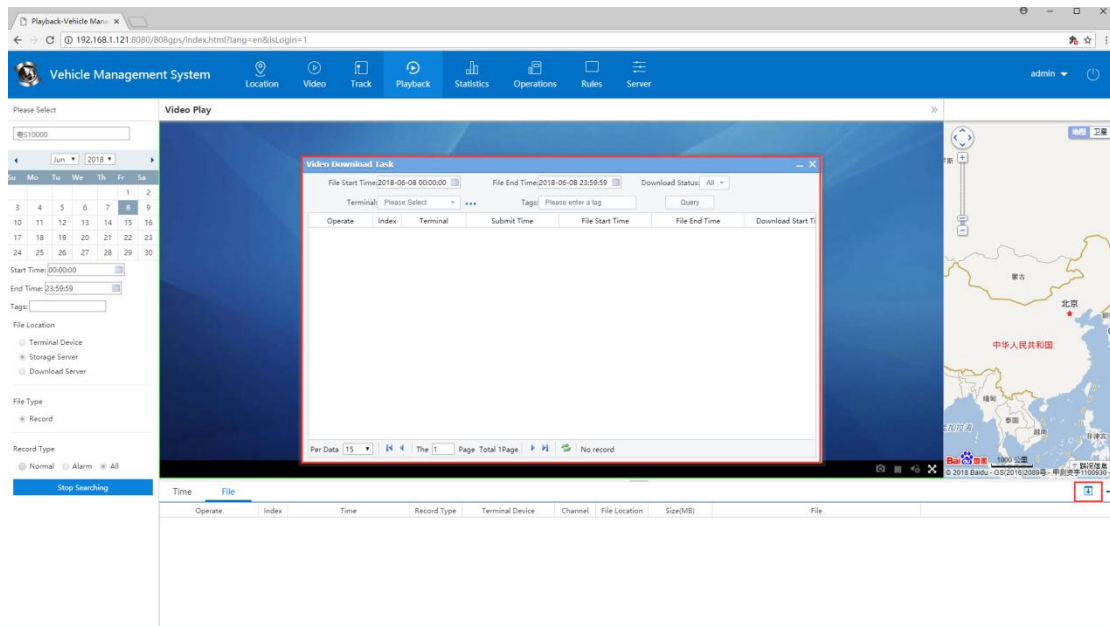


Download a section of this file (when one file is too large)



Video playback

4.7.3 Viewing download task



4.8 Statistics statement

Statistics statement is divided into safety aided driving, driving behavior analysis, online and offline statement, alarm statement, mileage statement, parking statement, electronic fence statement, oil mass statement, fault alarm statement, video alarm statement, IO alarm statement, storage media statement, equipment upgrade statement, multimedia, data query, user behavior analysis, driver punch card record table, people counting statement.

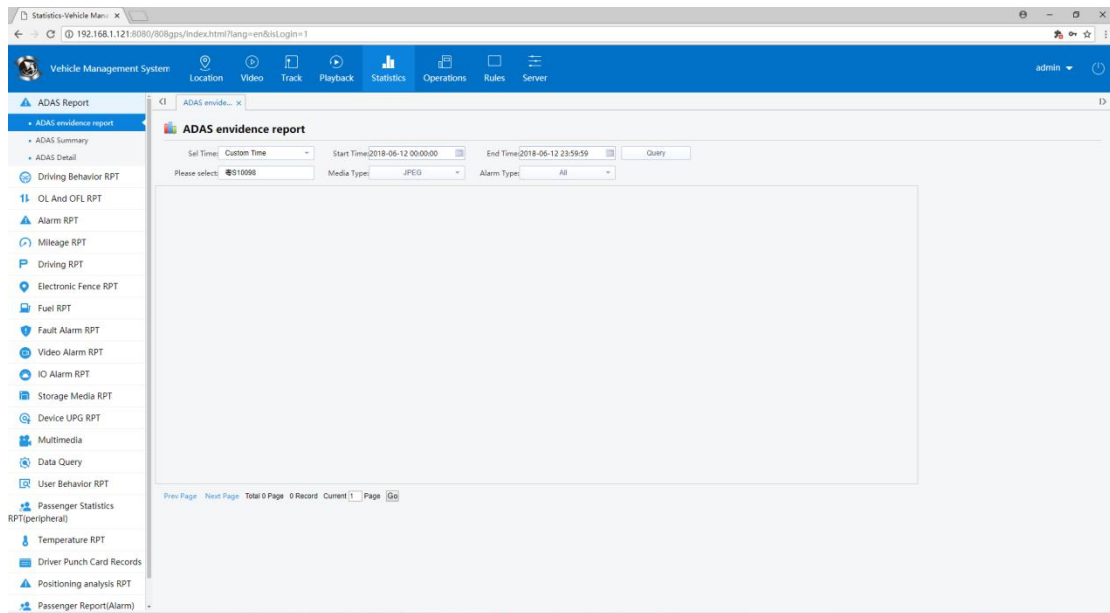
4.8.1 Safety aided driving

Safety aided driving consists of three parts: the safety aided driving evidence table, the safety aided driving summary table, and the safety aided driving schedule.

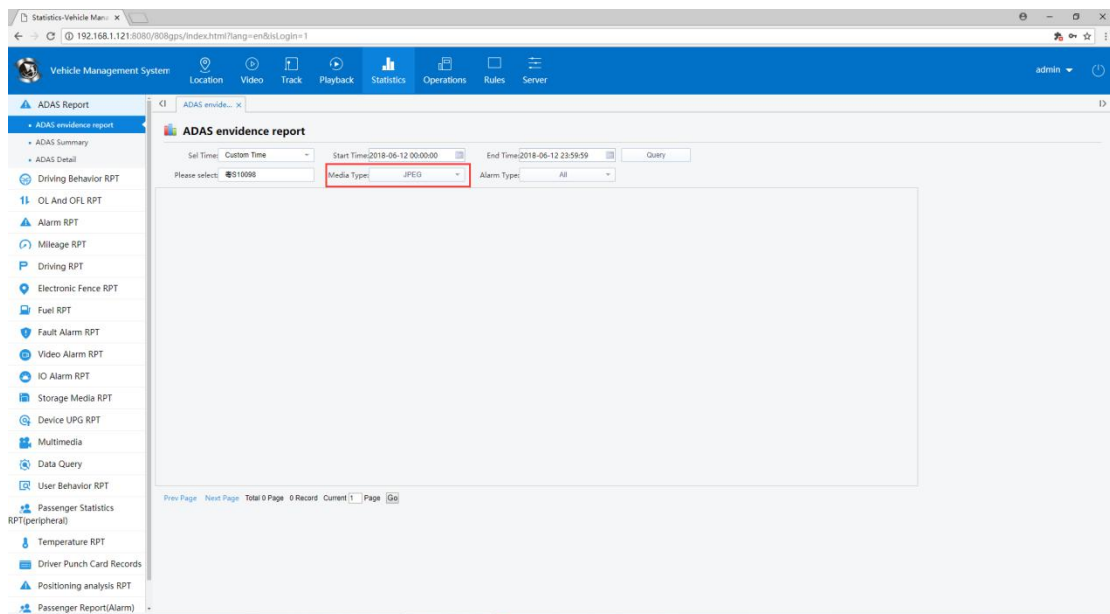
Safety aided driving evidence table:

The alarm snapshot pictures or videos if a vehicle can be queried according to four options: license plate number, date, multimedia type (picture/video), alarm type.

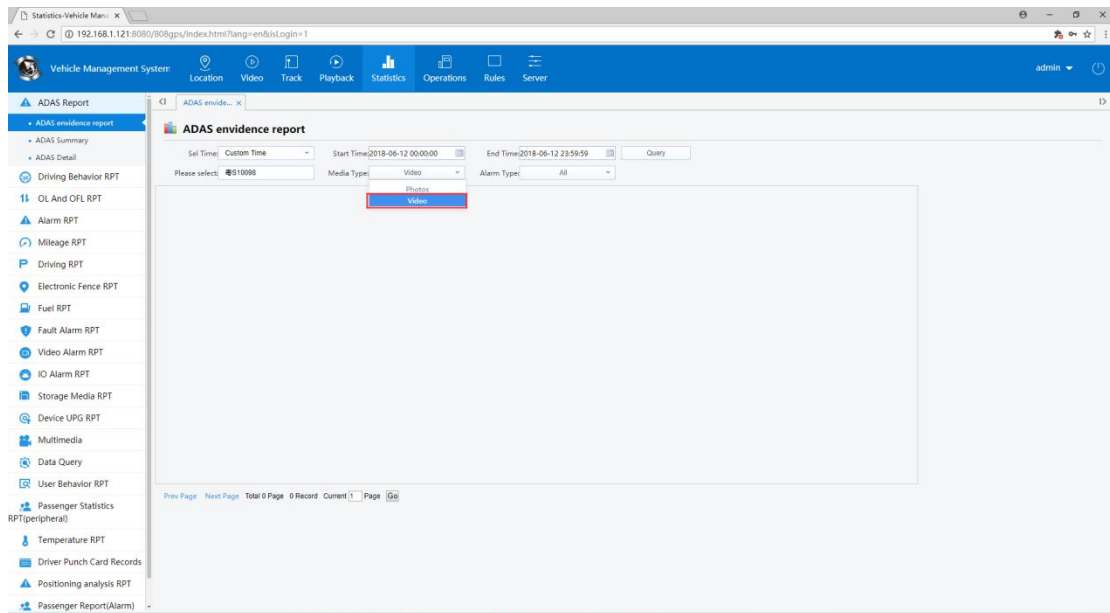
Searching by pictures:



Click the picture to view the large picture, vehicle alarm location, specific alarm information, and click the button function to save the alarm snapshot



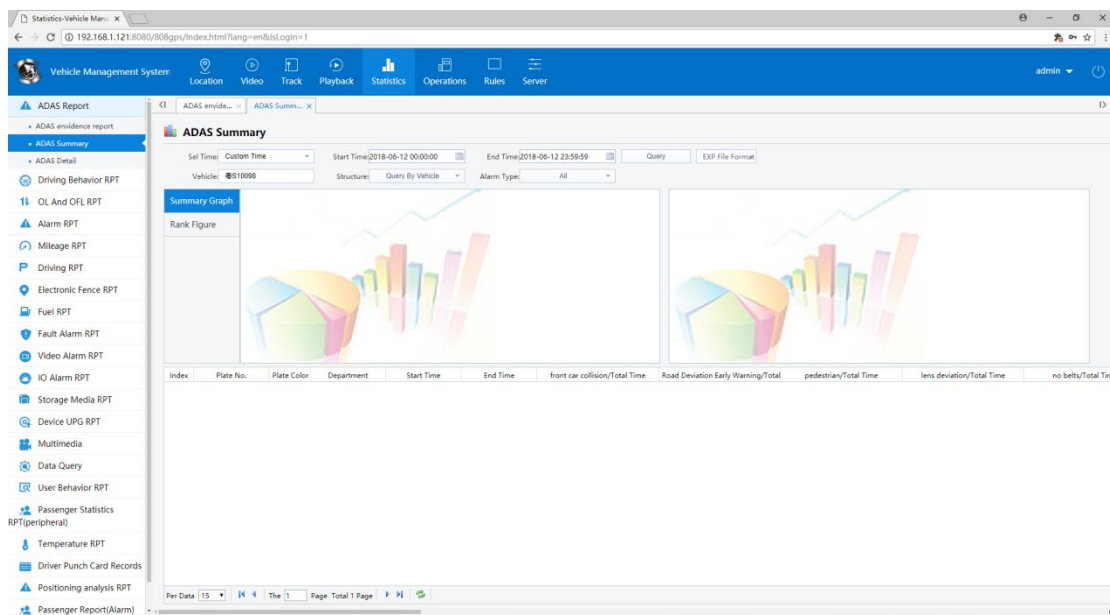
Searching by videos:

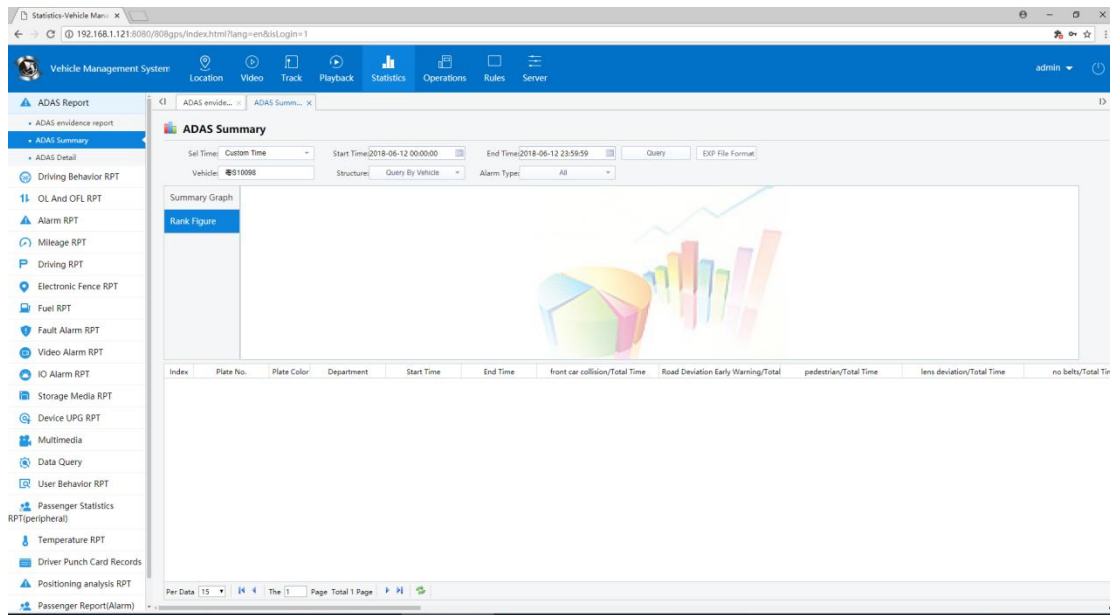


Click the video to preview the video

Safety aided driving summary:

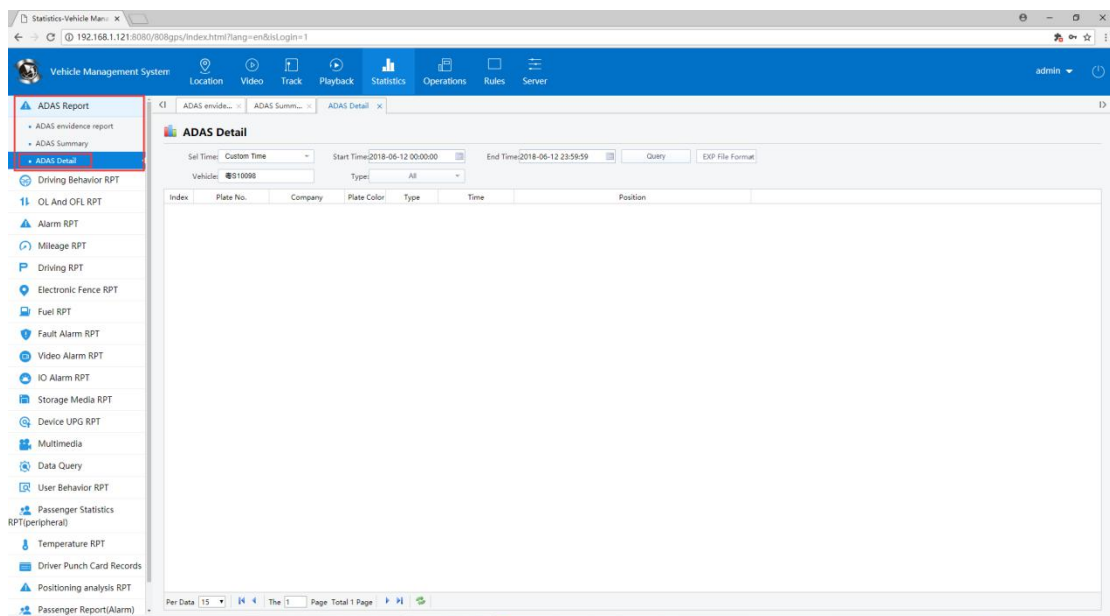
You can query the alarm information of one or more vehicles according to the four options: license plate number, date, structure, and alarm type. Click a vehicle in statistics chart, and you can switch to the ranking chart to view the ranking.





Safety aided driving evidence table:

You can query the alarm details by setting the query conditions



4.8.2 Driving behavior analysis

Driving behavior statistics, driving behavior inquiry, driving track schedule, trajectory over-speed summary and schedule

Driving behavior analysis: The system obtains this statement through statistics analysis of the GPS and its alarm information reported by the equipment.

Speeding Track Detail

Set Time: Custom Time Start Time: 2018-06-08 00:00:00 End Time: 2018-06-08 23:59:59 Query: EXP File Format

Vehicle: 粤S10000 Speeding Length(s): 10 Limit(KM / H): 30 Super Rate(>= %): 0

Index	Plate No.	Plate Color	Department	Start Time	End Time	Overspeed Lon	Speeding Rate	Start Speed(KM / H)	Start Mileage(KM)	Starting Position	End Speed(KM / H)	End Mileage(KM)	End Position
1	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:00:59	2018-06-08 10:01:19	20S	100%	60.00	9717.52	广东省深圳市南山区粤海街道北环大道	5.00	9717.70	广东省深圳市南山区
2	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:03:39	2018-06-08 10:04:19	40S	113%	54.00	9718.20	广东省深圳市南山区粤海街道北环大道	26.00	9718.75	广东省深圳市南山区
3	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:04:29	2018-06-08 10:04:59	30S	73%	30.00	9718.83	广东省深圳市南山区粤海街道北环大道	27.00	9719.18	广东省深圳市南山区
4	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:05:09	2018-06-08 10:06:29	1M 20S	147%	44.00	9719.28	广东省深圳市南山区粤海街道北环大道	28.00	9720.52	广东省深圳市南山区
5	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:06:39	2018-06-08 10:06:59	20S	33%	38.00	9720.61	广东省深圳市南山区粤海街道北环大道	0.00	9720.80	广东省深圳市南山区
6	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:07:19	2018-06-08 10:16:29	9M 10S	290%	38.00	9720.83	广东省深圳市南山区粤海街道北环大道	0.00	9734.79	广东省深圳市宝安区
7	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:16:59	2018-06-08 10:17:19	20S	70%	49.00	9735.06	广东省深圳市宝安区松岗街道北环大道	24.00	9735.32	广东省深圳市宝安区
8	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:18:09	2018-06-08 10:29:40	11M 31S	190%	47.00	9735.73	广东省深圳市宝安区松岗街道北环大道	27.00	9748.94	广东省深圳市宝安区
9	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:29:50	2018-06-08 10:30:20	30S	13%	34.00	9740.04	广东省深圳市宝安区松岗街道北环大道	14.00	9749.29	广东省深圳市宝安区
10	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:30:40	2018-06-08 10:31:10	30S	77%	49.00	9740.43	广东省深圳市宝安区松岗街道北环大道	8.00	9749.80	广东省深圳市宝安区
11	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:33:20	2018-06-08 10:33:50	30S	87%	34.00	9750.63	广东省深圳市宝安区松岗街道北环大道	18.00	9751.01	广东省深圳市宝安区
12	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:34:30	2018-06-08 10:46:20	11M 50S	183%	36.00	9751.31	广东省深圳市宝安区松岗街道北环大道	28.00	9764.75	广东省深圳市宝安区
13	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:47:10	2018-06-08 10:47:30	20S	70%	47.00	9765.16	广东省深圳市宝安区松岗街道北环大道	29.00	9765.42	广东省深圳市宝安区
14	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:48:00	2018-06-08 10:57:10	9M 10S	290%	35.00	9765.63	广东省深圳市宝安区松岗街道北环大道	0.00	9779.58	广东省深圳市宝安区
15	粤S10000	Yellow Car	北山松岗街道	2018-06-08 10:57:30	2018-06-08 10:59:50	2M 20S	150%	40.00	9779.65	广东省深圳市宝安区松岗街道北环大道	27.00	9781.57	广东省深圳市宝安区

Click to export and display Excel, as shown below

Speeding Track Detail

Index	Vehicle	License C	Time Start	Time End	Overspeed Lon	Start Spe	Start Mile	Start Position	End Spe	End Mile	End Position
1	粤S10000	Yellow	2018-06-08 10:00:59	2018-06-08 10:01:19	20S	60	9,717.52	广东省深圳市南山区粤海街道北环大道	9,717.7	广东省深圳市南山区粤海街道北环大道	
2	粤S10000	Yellow	2018-06-08 10:03:39	2018-06-08 10:04:19	40S	64	9,718.2	广东省深圳市南山区粤海街道北环大道	9,718.75	广东省深圳市南山区粤海街道北环大道	
3	粤S10000	Yellow	2018-06-08 10:04:29	2018-06-08 10:04:59	30S	30	9,718.83	广东省深圳市南山区粤海街道北环大道	9,719.18	广东省深圳市南山区粤海街道北环大道	
4	粤S10000	Yellow	2018-06-08 10:05:09	2018-06-08 10:06:29	1M 20S	44	9,719.28	广东省深圳市南山区粤海街道北环大道	9,720.52	广东省深圳市南山区粤海街道北环大道	
5	粤S10000	Yellow	2018-06-08 10:06:39	2018-06-08 10:06:59	20S	38	9,720.61	广东省深圳市南山区粤海街道北环大道	9,720.8	广东省深圳市南山区粤海街道北环大道	
6	粤S10000	Yellow	2018-06-08 10:07:19	2018-06-08 10:16:29	9M 10S	38	9,720.83	广东省深圳市南山区粤海街道北环大道	9,734.79	广东省深圳市宝安区松岗街道北环大道	
7	粤S10000	Yellow	2018-06-08 10:16:59	2018-06-08 10:17:19	20S	49	9,735.06	广东省深圳市宝安区松岗街道北环大道	9,735.32	广东省深圳市宝安区松岗街道北环大道	
8	粤S10000	Yellow	2018-06-08 10:18:09	2018-06-08 10:29:40	11M 31S	47	9,735.73	广东省深圳市宝安区松岗街道北环大道	9,748.94	广东省深圳市宝安区松岗街道北环大道	
9	粤S10000	Yellow	2018-06-08 10:29:50	2018-06-08 10:30:20	30S	34	9,749.04	广东省深圳市宝安区松岗街道北环大道	9,749.29	广东省深圳市宝安区松岗街道北环大道	
10	粤S10000	Yellow	2018-06-08 10:30:40	2018-06-08 10:31:10	30S	49	9,749.43	广东省深圳市宝安区松岗街道北环大道	9,749.8	广东省深圳市宝安区松岗街道北环大道	
11	粤S10000	Yellow	2018-06-08 10:33:20	2018-06-08 10:33:50	30S	34	9,750.63	广东省深圳市宝安区松岗街道北环大道	9,751.01	广东省深圳市宝安区松岗街道北环大道	
12	粤S10000	Yellow	2018-06-08 10:34:30	2018-06-08 10:46:20	11M 50S	36	9,751.31	广东省深圳市宝安区松岗街道北环大道	9,764.75	广东省深圳市宝安区松岗街道北环大道	
13	粤S10000	Yellow	2018-06-08 10:47:10	2018-06-08 10:47:30	20S	47	9,765.16	广东省深圳市宝安区松岗街道北环大道	9,765.42	广东省深圳市宝安区松岗街道北环大道	
14	粤S10000	Yellow	2018-06-08 10:48:00	2018-06-08 10:57:10	9M 10S	35	9,765.63	广东省深圳市宝安区松岗街道北环大道	9,779.58	广东省深圳市宝安区松岗街道北环大道	
15	粤S10000	Yellow	2018-06-08 10:57:30	2018-06-08 10:59:50	2M 20S	40	9,779.65	广东省深圳市宝安区松岗街道北环大道	9,781.57	广东省深圳市宝安区松岗街道北环大道	
16	粤S10000	Yellow	2018-06-08 11:00:10	2018-06-08 11:00:50	40S	47	9,781.73	广东省深圳市宝安区松岗街道北环大道	9,782.32	广东省深圳市宝安区松岗街道北环大道	
17	粤S10000	Yellow	2018-06-08 11:03:10	2018-06-08 11:04:00	50S	47	9,782.73	广东省深圳市宝安区松岗街道北环大道	9,783.4	广东省深圳市宝安区松岗街道北环大道	
18	粤S10000	Yellow	2018-06-08 11:04:10	2018-06-08 11:04:40	30S	35	9,783.48	广东省深圳市宝安区松岗街道北环大道	9,783.83	广东省深圳市宝安区松岗街道北环大道	
19	粤S10000	Yellow	2018-06-08 11:04:50	2018-06-08 11:06:10	1M 20S	45	9,783.94	广东省深圳市宝安区松岗街道北环大道	9,785.17	广东省深圳市宝安区松岗街道北环大道	
20	粤S10000	Yellow	2018-06-08 11:07:00	2018-06-08 11:15:58	8M 58S	46	9,785.5	广东省深圳市宝安区松岗街道北环大道	9,799.41	广东省深圳市宝安区松岗街道北环大道	
21	粤S10000	Yellow	2018-06-08 11:16:08	2018-06-08 11:16:58	50S	35	9,799.43	广东省深圳市宝安区松岗街道北环大道	9,799.97	广东省深圳市宝安区松岗街道北环大道	
22	粤S10000	Yellow	2018-06-08 11:17:38	2018-06-08 11:29:38	12M	43	9,800.29	广东省深圳市宝安区松岗街道北环大道	9,813.79	广东省深圳市宝安区松岗街道北环大道	
23	粤S10000	Yellow	2018-06-08 11:30:18	2018-06-08 11:30:38	20S	58	9,814.13	广东省深圳市宝安区松岗街道北环大道	9,814.4	广东省深圳市宝安区松岗街道北环大道	
24	粤S10000	Yellow	2018-06-08 11:32:58	2018-06-08 11:33:28	30S	47	9,815.31	广东省深圳市宝安区松岗街道北环大道	9,815.67	广东省深圳市宝安区松岗街道北环大道	
25	粤S10000	Yellow	2018-06-08 11:33:58	2018-06-08 11:34:18	20S	33	9,815.88	广东省深圳市宝安区松岗街道北环大道	9,816.08	广东省深圳市宝安区松岗街道北环大道	

4.8.2 Online and offline statement

Online/offline statements: Make the statistics of the vehicle online/offline rate, and analyze the company's vehicle online rate according to the information uploaded by the equipment.

The summary statement of vehicle online/offline, the detailed statement on the vehicle online/offline, the daily online rate statement, the monthly online rate statement of vehicles, and the online rate alarm of vehicles

The following describes the operation taking the vehicles online/offline as an example: Search the online/offline conditions of equipment

Vehicle Management System

Detail RPT of OL And OFL

Set Time: Custom Time Start Time: 2018-06-08 00:00:00 End Time: 2018-06-08 23:59:59 Query EXP File Format

Terminal: All Vehicle

Index	Plate No.	Department	Plate Color	OnlineTime	OnlinePosition	OfflineTime	OfflinePosition	Network Address
1	粤S10098	北斗视频监控运营	Yellow	2018-06-08 10:00:40	广东省深圳市宝安区松岗街道广			192.168.1.121 64109
2	粤S10000	北斗视频监控运营	Yellow	2018-06-08 10:00:49	广东省深圳市南山区粤海街道北			192.168.1.121 55575
3	粤S10088	北斗视频监控运营	Yellow	2018-06-08 10:57:40	湖北省恩施土家族苗族自治州恩			192.168.1.138 1028

Per Data 13 Page Total 1Page Displaying by 1 to 3 Total of 3 Records

Export the Excel form

Device Online Detail - 2018-06-08 00:00:00 - 2018-06-08 23:59:59

Index	Vehicle	Affiliated Organizations	License Color	OnlineTime	OnlinePosition	OfflineTime	OfflinePosition	Net Address
1	粤S10098	北斗视频监控运营	Yellow	2018-06-08 10:00:40	广东省深圳市宝安区松岗街道广			192.168.1.121 64109
2	粤S10000	北斗视频监控运营	Yellow	2018-06-08 10:00:49	广东省深圳市南山区粤海街道北			192.168.1.121 55575
3	粤S10088	北斗视频监控运营	Yellow	2018-06-08 10:57:40	湖北省恩施土家族苗族自治州恩			192.168.1.138 1028

4.8.3 Statement of alarm

The alarm statement consists of alarm query and alarm statistics. The information of this alarm statement conducts statistics and analysis on information mainly based on the alarm information on the equipment terminal.

Vehicle Management System

Alarm Query RPT

Set Time: Custom Time Start Time: 2018-06-08 00:00:00 End Time: 2018-06-08 23:59:59 Query EXP File Format

Alarm Source: All Alarm Type: All Handle Status: All

Terminal: All Vehicle Alarm Duration: Unit: Seconds

Index	Plate No.	Company	Plate Color	Alarm Type	Alarm Sour	Start Time	End Time	Alarm Duration	Start Speed(KM / H)	End Speed(KM / H)	Starting Position	End Position	Alarm
1	粤S10000	北斗视频监控运营	Yellow	Carc Video Signal Li	Device	2018-06-08 11:45:48			41.00	0.00	广东省深圳市宝安区深圳市宝安区		
2	粤S10000	北斗视频监控运营	Yellow	Carc Emergency But	Device	2018-06-08 11:45:36	2018-06-08 14:00:40	2H 15M 4S	46.00	0.00	广东省深圳市宝安区深圳市宝安区	广东省深圳市宝安区粤海街道	
3	粤S10088	北斗视频监控运营	Yellow	Carc ACC Alarm	Device	2018-06-08 10:57:31			67.00	0.00	湖北省恩施土家族苗族自治州恩		
4	粤S10088	北斗视频监控运营	Yellow	Carc Fatigue Alarm	Device	2018-06-08 10:57:31			67.00	0.00	湖北省恩施土家族苗族自治州恩		
5	粤S10088	北斗视频监控运营	Yellow	Carc Emergency But	Device	2018-06-08 10:57:31			67.00	0.00	湖北省恩施土家族苗族自治州恩		

Per Data 15 Page Total 1Page Displaying by 1 to 5 Total of 5 Records

In case of the statistics type, click the dialog box and check

Index	Plate No.	Company	▼ Plate Color	Alarm Type	Alarm Sour	Start Time	End Time	Alarm Duration
1	粤S10000	北斗视频运营	<input checked="" type="checkbox"/> Index	al Lc	Device	2018-06-08 11:45:48		
2	粤S10000	北斗视频运营	<input checked="" type="checkbox"/> Plate No.	But	Device	2018-06-08 11:45:36	2018-06-08 14:00:40	2H 15M 4S
3	粤S10088	北斗视频运营	<input checked="" type="checkbox"/> Company	n	Device	2018-06-08 10:57:31		
4	粤S10088	北斗视频运营	<input checked="" type="checkbox"/> Plate Color	rm	Device	2018-06-08 10:57:31		
5	粤S10088	北斗视频运营	<input checked="" type="checkbox"/> Alarm Type	But	Device	2018-06-08 10:57:31		
			<input checked="" type="checkbox"/> Alarm Sources					
			<input checked="" type="checkbox"/> Start Time					
			<input checked="" type="checkbox"/> End Time					
			<input checked="" type="checkbox"/> Alarm Duration					
			<input checked="" type="checkbox"/> Start Speed(KM / H).					
			<input checked="" type="checkbox"/> End Speed(KM / H).					
			<input checked="" type="checkbox"/> Starting Position					
			<input checked="" type="checkbox"/> End Position					
			<input checked="" type="checkbox"/> Alarm Info					
			<input checked="" type="checkbox"/> Handle Status					
			<input checked="" type="checkbox"/> Handle User					
			<input checked="" type="checkbox"/> Handle Content					
			<input checked="" type="checkbox"/> Handle Time					

4.8.4 Other statements

Other statements reanalyze their role based on specific functions

4.9 Rule management

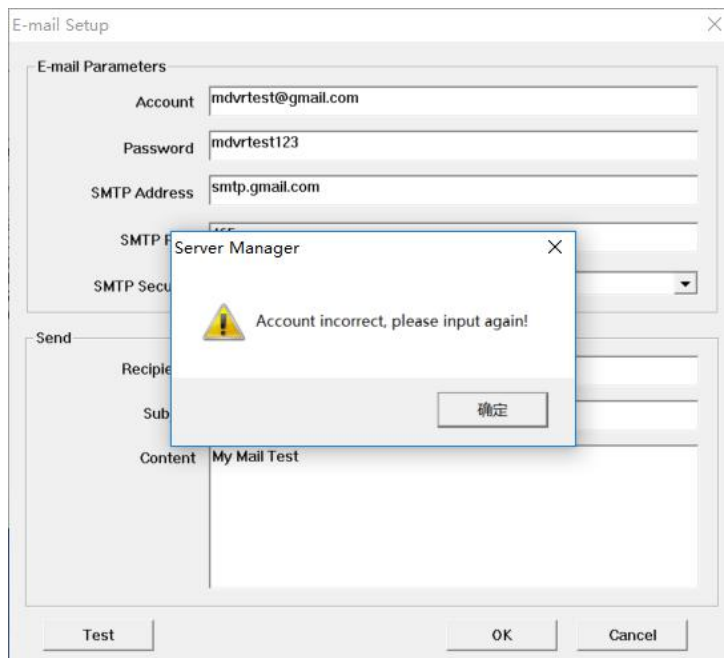
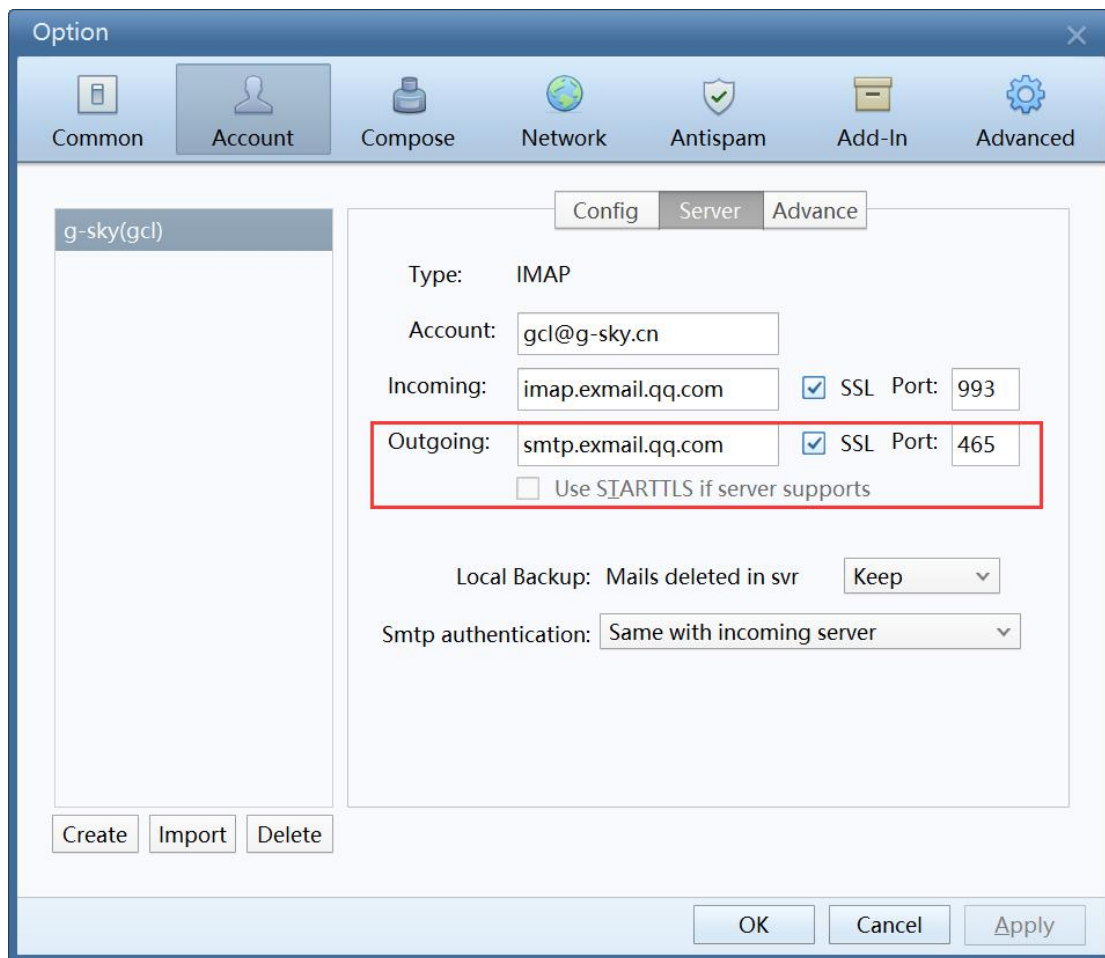
Rule management is a flexible management tool that sets restrictions on the rules of conduct based on the customer's own management needs of the vehicle and personnel, and the platform calculates through the information reported by the terminal to determine whether it conforms to the rules and then makes the alarm statistics.

4.9.1 Server is configured with email and SMS

4.9.1.1 Configure the e-mail

The screenshot shows the 'Server Manager 7.12.0.4_20180530' application window. In the top navigation bar, the 'E-Mail Config' button is highlighted with a red rectangle. An 'E-mail Setup' dialog box is open in the foreground. It contains two main sections: 'E-mail Parameters' and 'Send'. In the 'E-mail Parameters' section, the 'SMTP Address' field is highlighted with a red rectangle and contains the text 'smtp.gmail.com'. Other fields in this section include 'Account' (mdvrtest@gmail.com), 'Password' (mdvrtest123), 'SMTP Port' (465), and 'SMTP Security' (SSL). The 'Send' section includes fields for 'Recipients', 'Subject' (Send Mail Test), and 'Content' (My Mail Test).

Fill in the same email sending server as that you used to send the text message



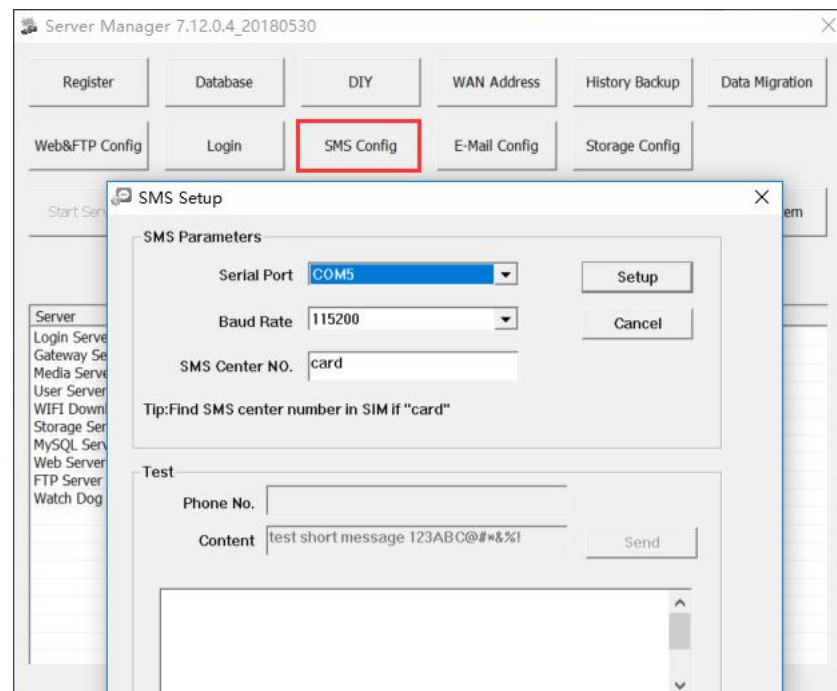
E-mail configuration:

The account and password are the email account and password used to send the email.

Note:

For overseas customers, the default email address cannot be used. It is necessary to fill email and email password applied in the local, and then restart the gateway server. The Hong Kong server also needs to replace the email.

4.9.1.2 Configure SMS configuration



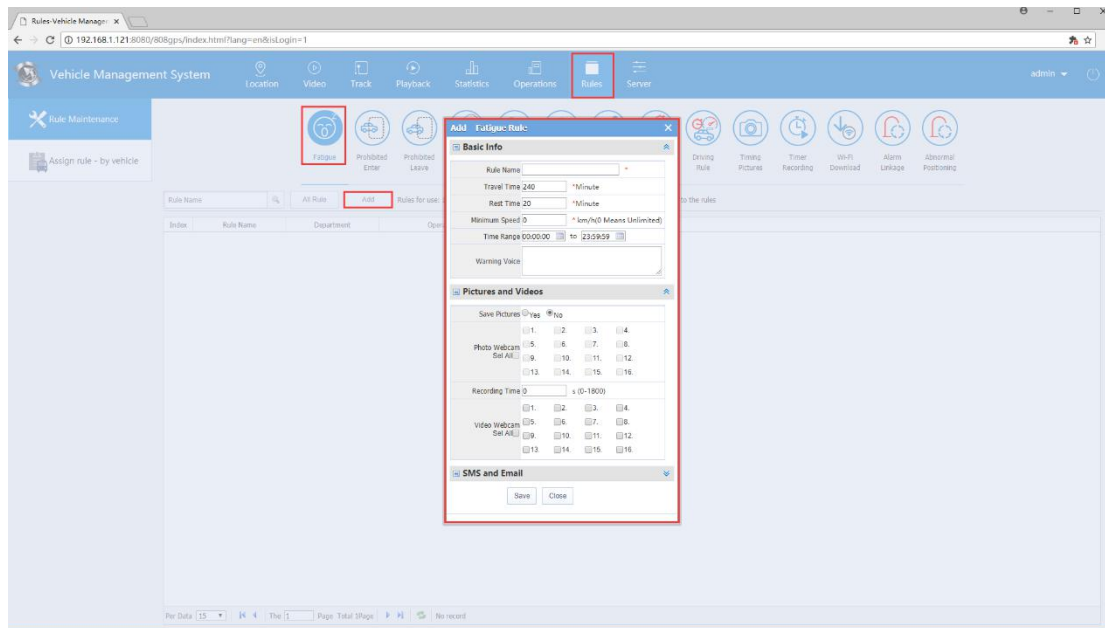
When sending SMS, you need to connect an SMS modem to the server, and install a serial port driver. Then, when configuring this, select the corresponding serial port number and click "Configure". If an SMS modem is not connected externally, text messages cannot be sent.

4.9.2 Fatigue rules

Fatigue rule is a management rule to ensure the driver safety setting

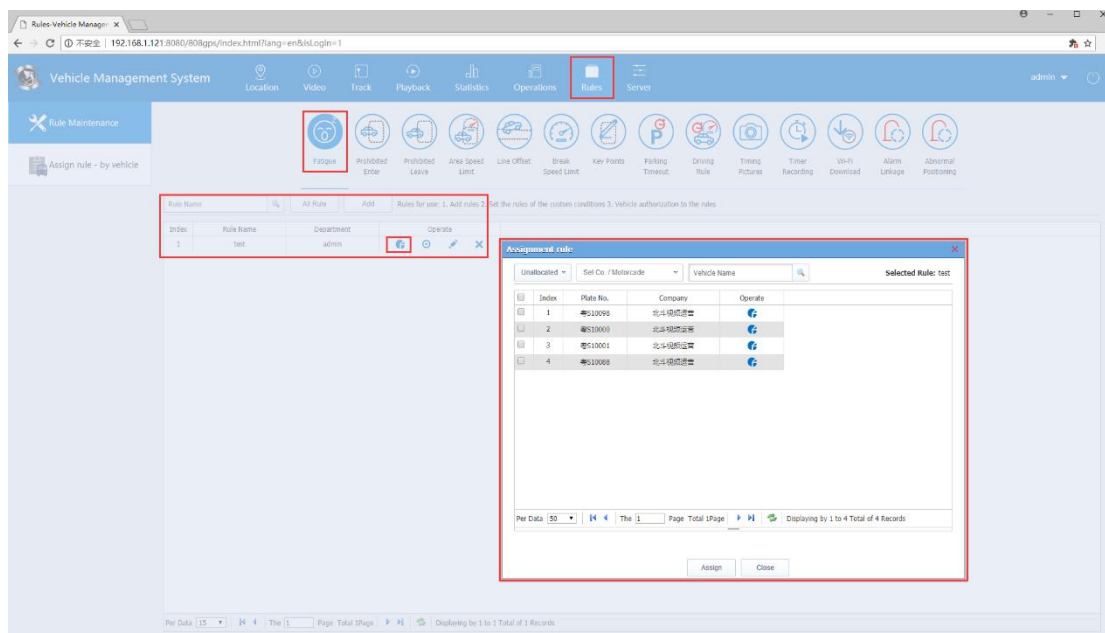
4.9.2.1 Set rules

If you need configuration to send e-mailing and messages, first configure the directory 4.9.1

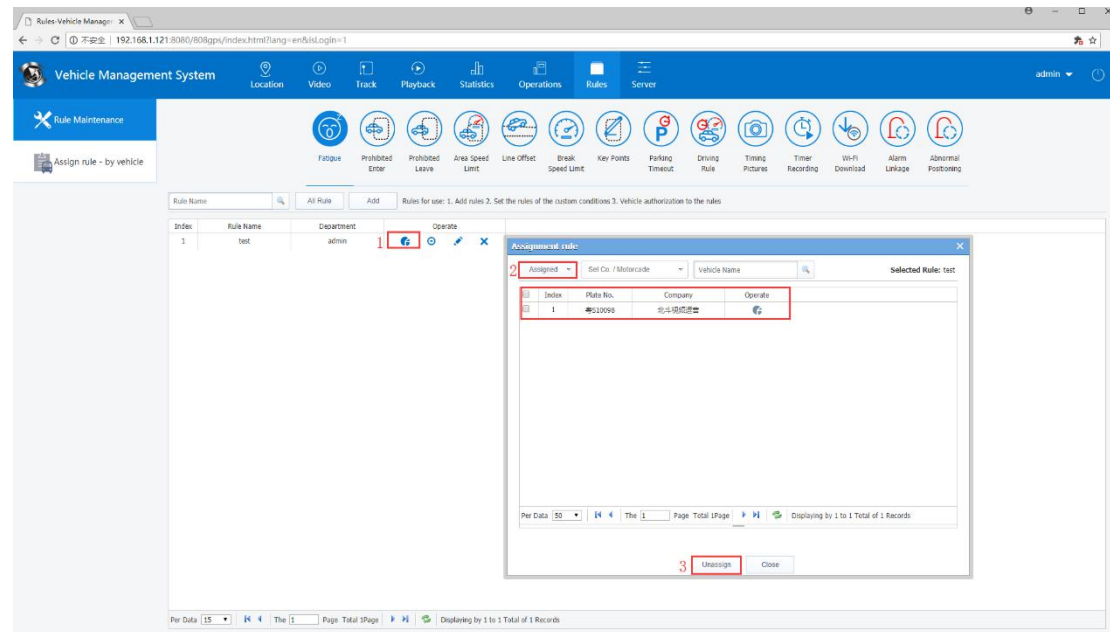


4.9.2.2 Vehicle assignment rule

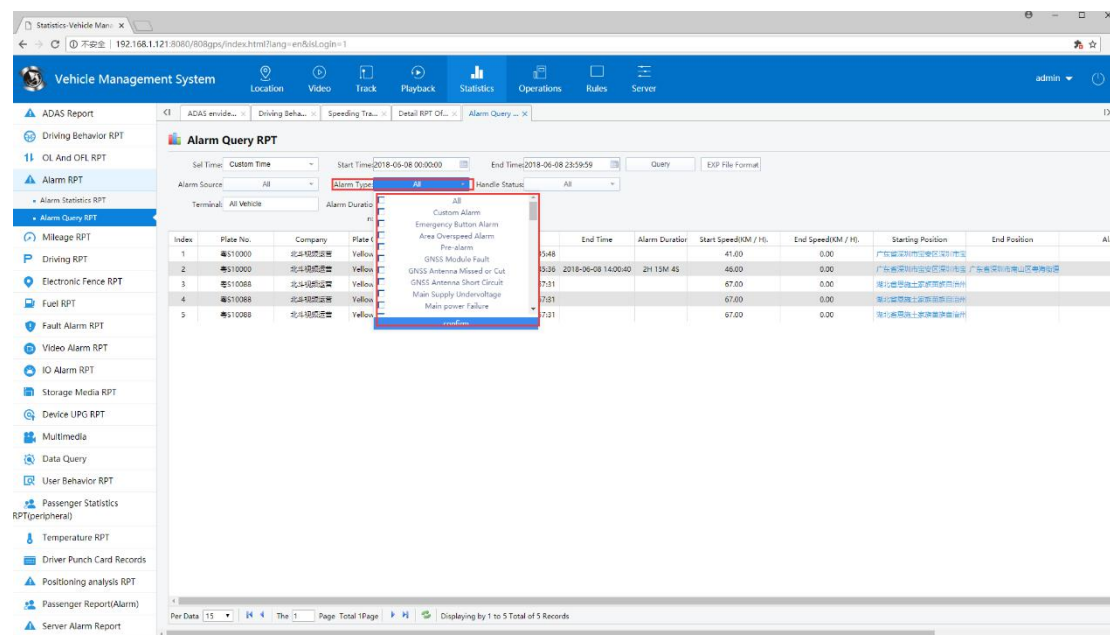
Select the rule and open the assignment button to find vehicles in unassigned vehicles and assign to this rule



4.9.2.3 Cancellation of vehicle distribution from the rules



4.9.2.4 Query statement in alarm statement

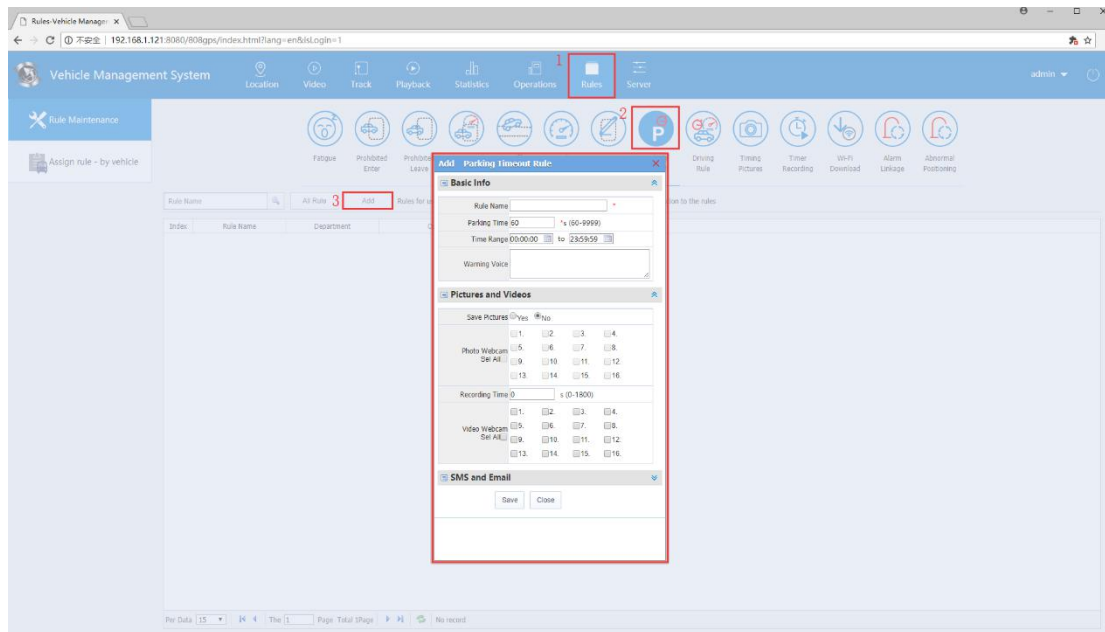


4.9.3 Parking timeout

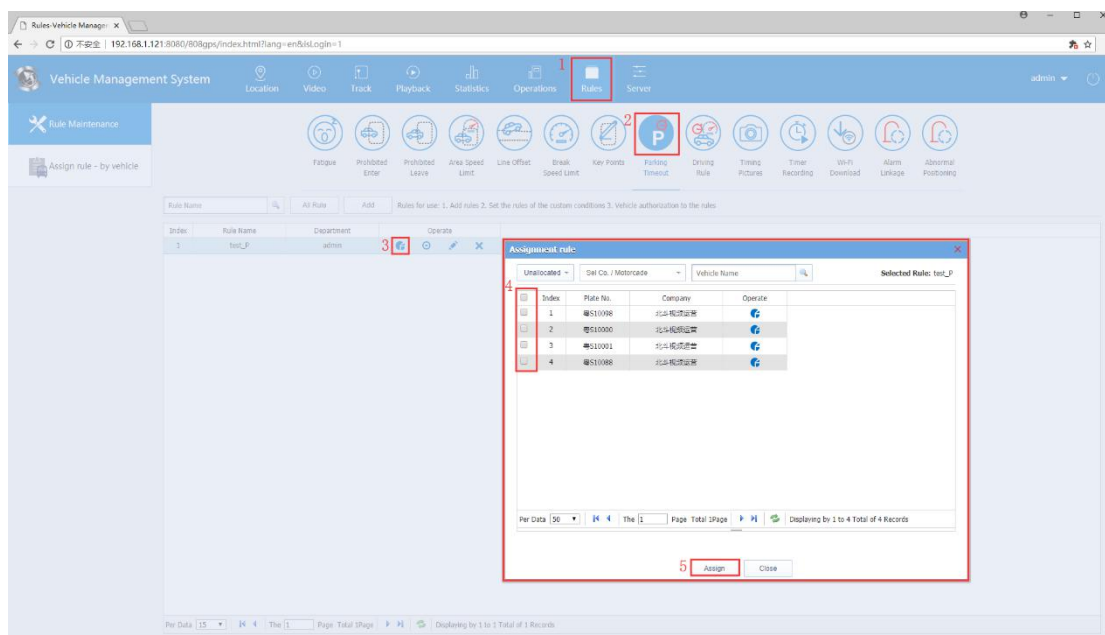
Parking timeout is divided into two types: one is the timeout judged by the terminal software and the other one is judged by the platform.

The following is the one judged by the platform.

4.9.3.1 Add rule

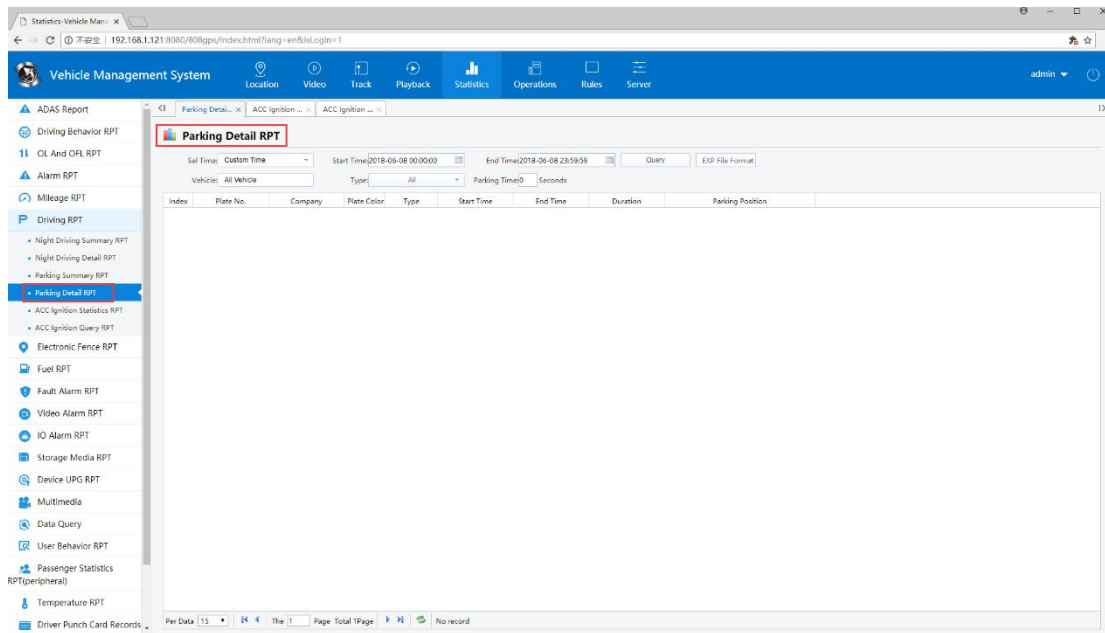


4.9.3.2 Distribution rule

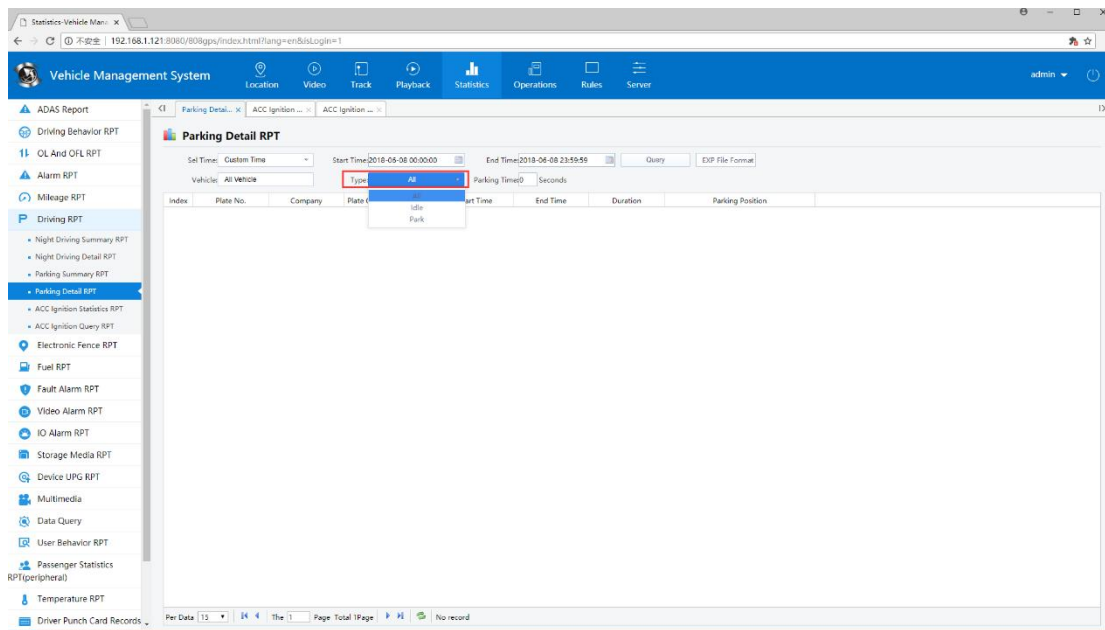


4.9.3.3 Statistics query on statements

It is the data statement submitted by the equipment



The parking statement generated by the platform rule



4.10 Electronic fence rules

Regional electronic fence: Entry prohibition rule, exit prohibition rule, regional speed limit

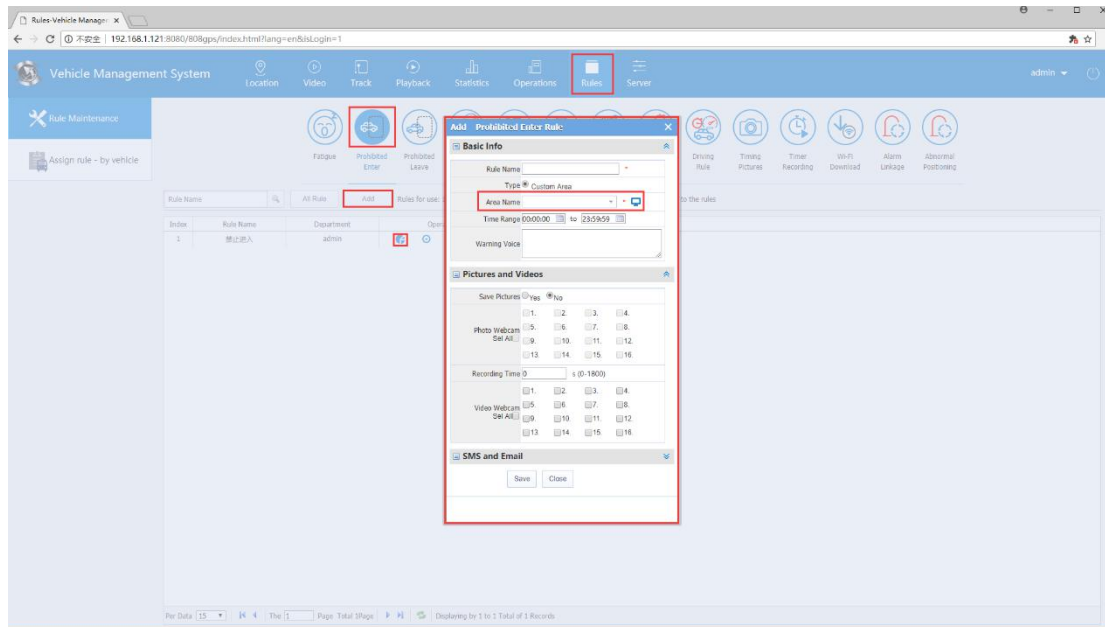
Line electronic fence: Line deviation, segmented speed limit

Point electronic fence: Key Points:

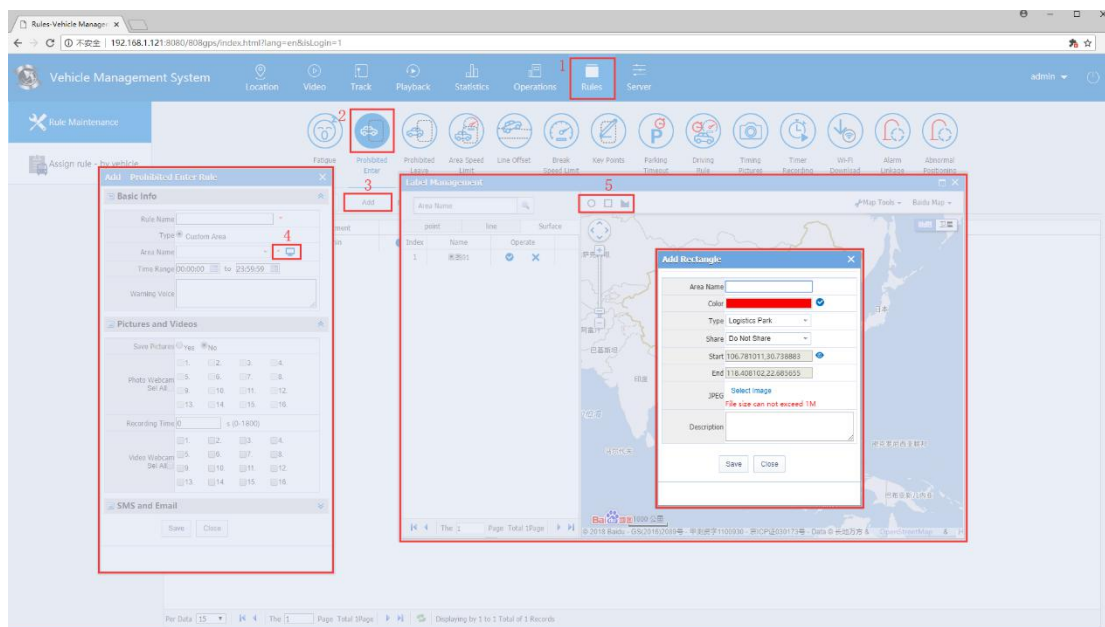
Taking the entry prohibition rule as an example

4.10.1 Set rules

If you need configuration to send e-mailing and messages, first configure the directory 4.9.1

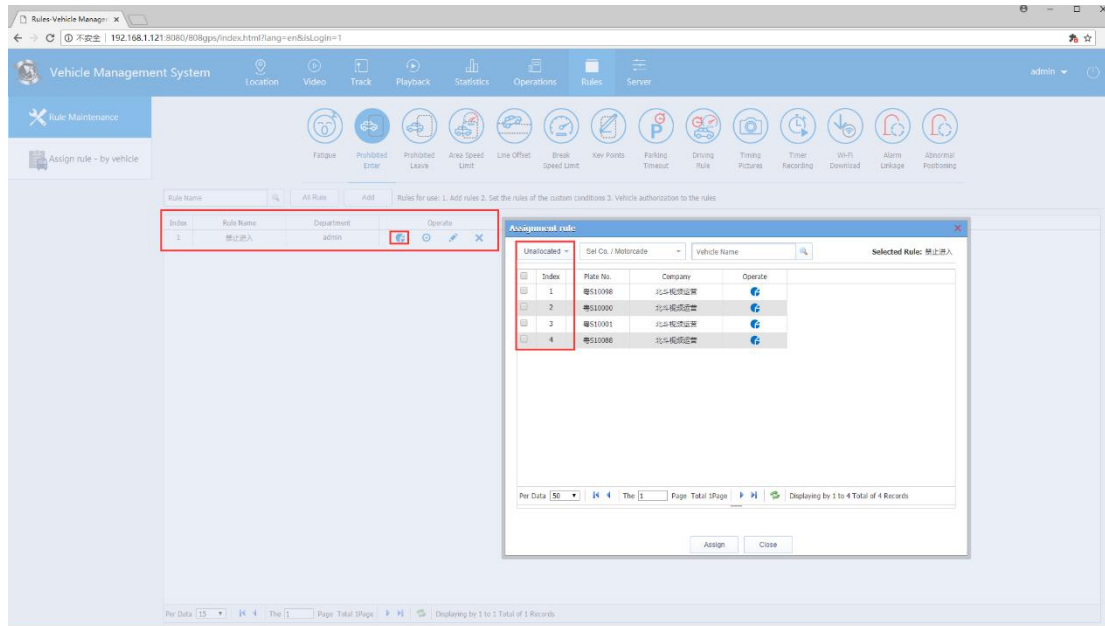


Set up regions and region names



4.10.2 Distribution rules

The vehicles of entry prohibition are distributed below the rules: Select the rule and open the assignment button to find vehicles in unassigned vehicles and assign to this rule

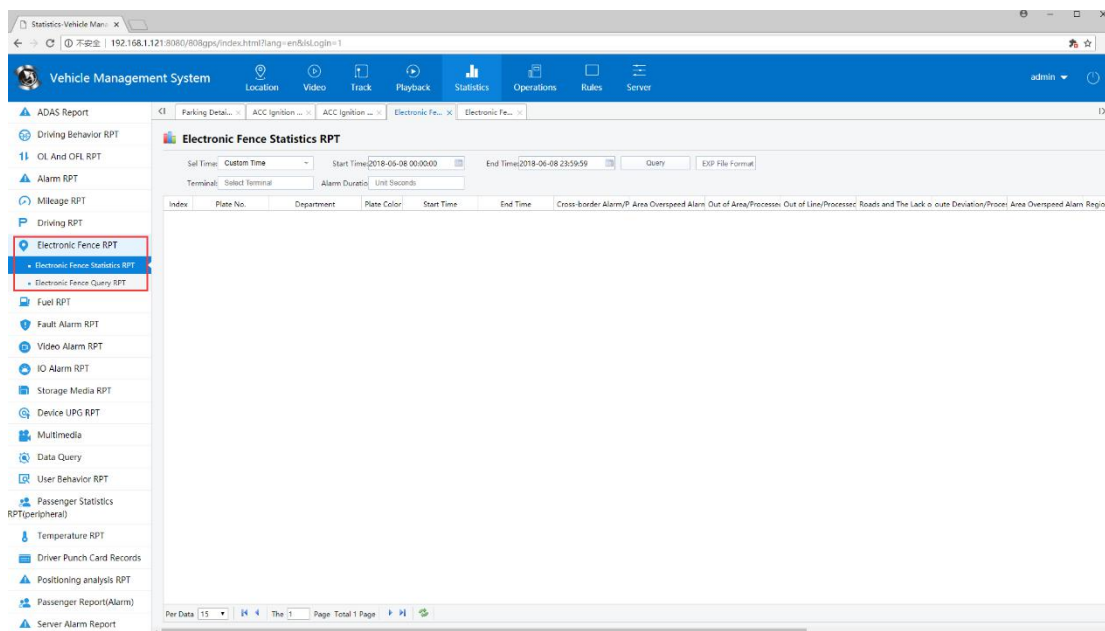


4.10.3 Cancellation of vehicle distribution from the rules

See the above directory 4.9.2.3

4.10.4 Query of related statements in the statements

Related statements can be queried both in the electronic fence statement and the alarm statement.



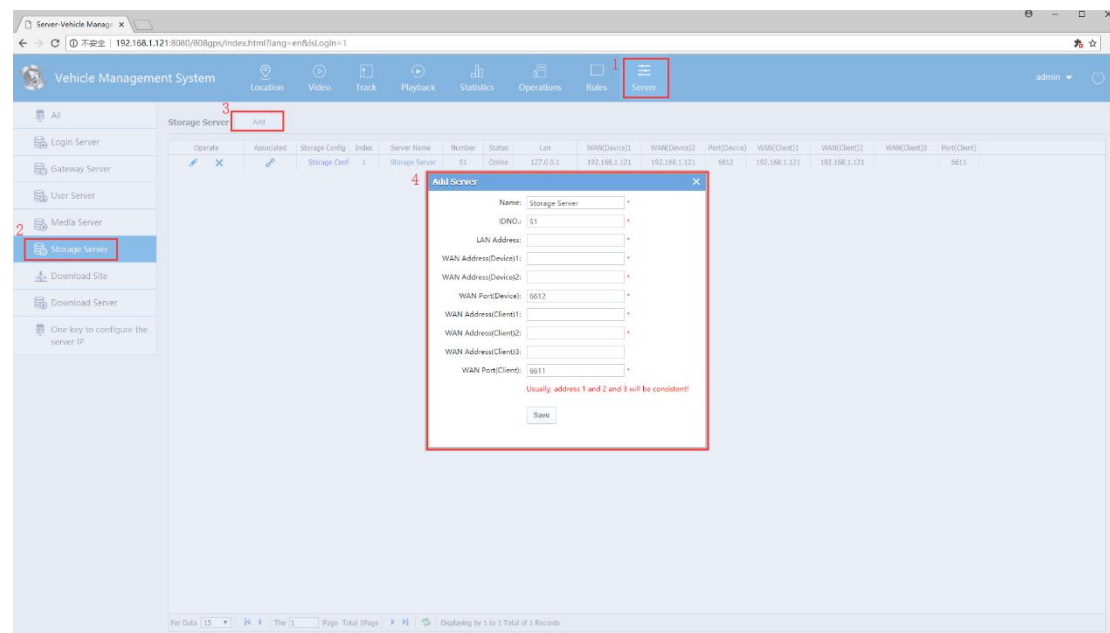
4.11 Timed photographing and timed video

4.11.1 Addition of the storage server and the storage relevance

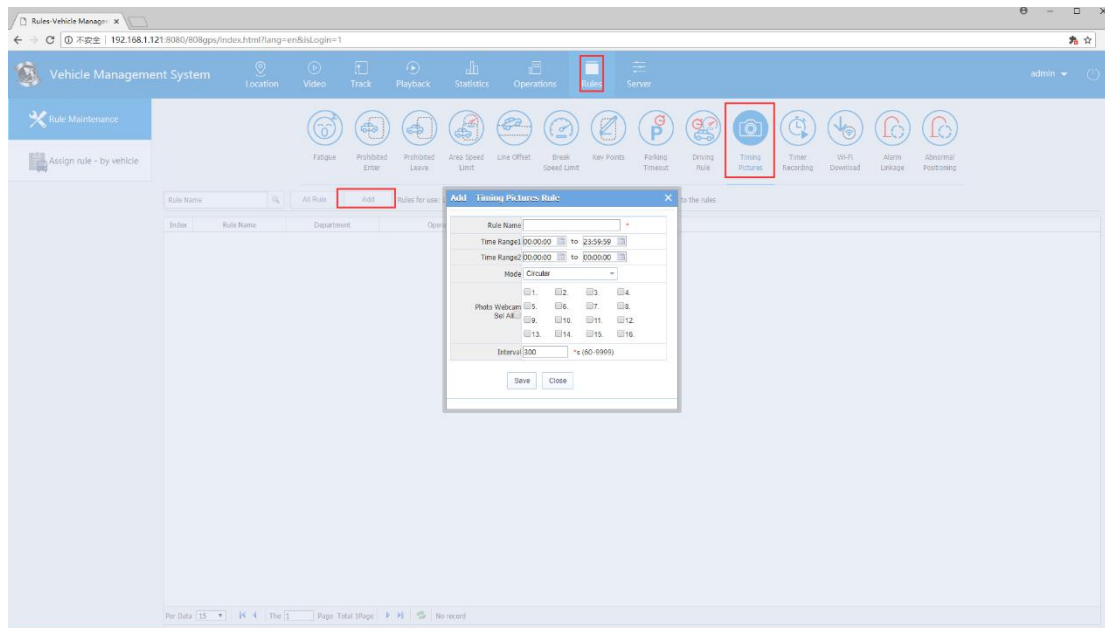
Log in the background, enter the "server management" page, add the storage server, including the storage associated configuration.

The storage server can automatically download and save data to a storage server according to a user-configured plan. When the user uses the data, the data are downloaded directly from the storage server. For example: The channel video snapshots greatly reduce the costs, compared to real-time preview video (consuming 3G traffic).

a. Add a storage server (If you already have one, you do not need to add it again. This number must be consistent with the server number in the server configuration on the server console -> Service Configuration)



b. Add storage association

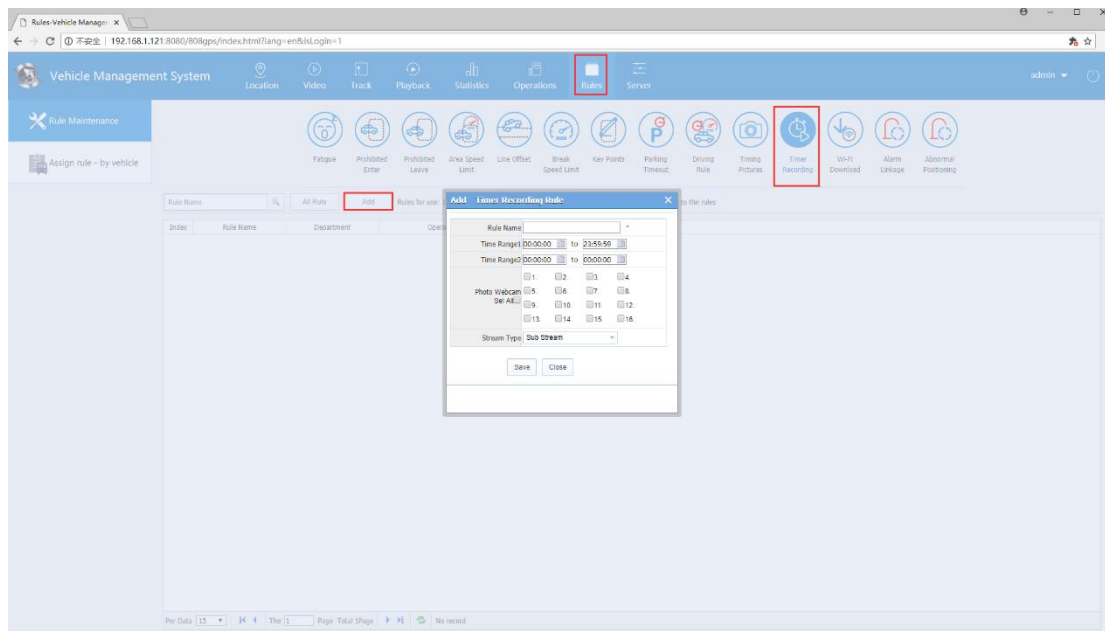


4.11.2 Setting timing snapshot rules and timing video rules

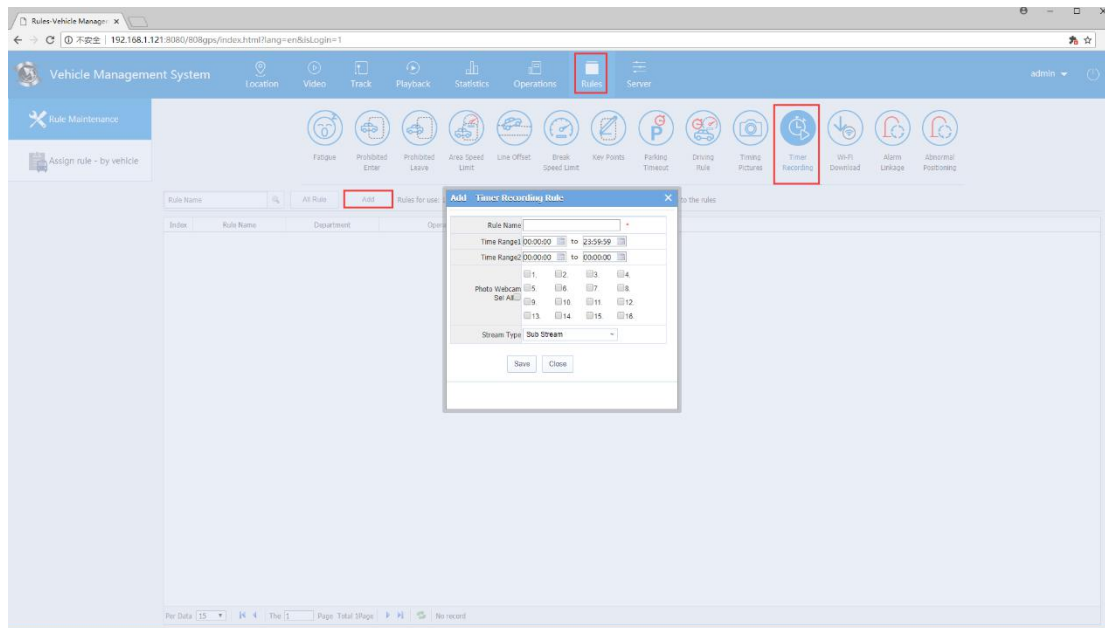
Cycle snapshot in the snapshot mode:

After snapshotting channel 1, snapshot the second channel at the specified interval, and circulate it independently in order:

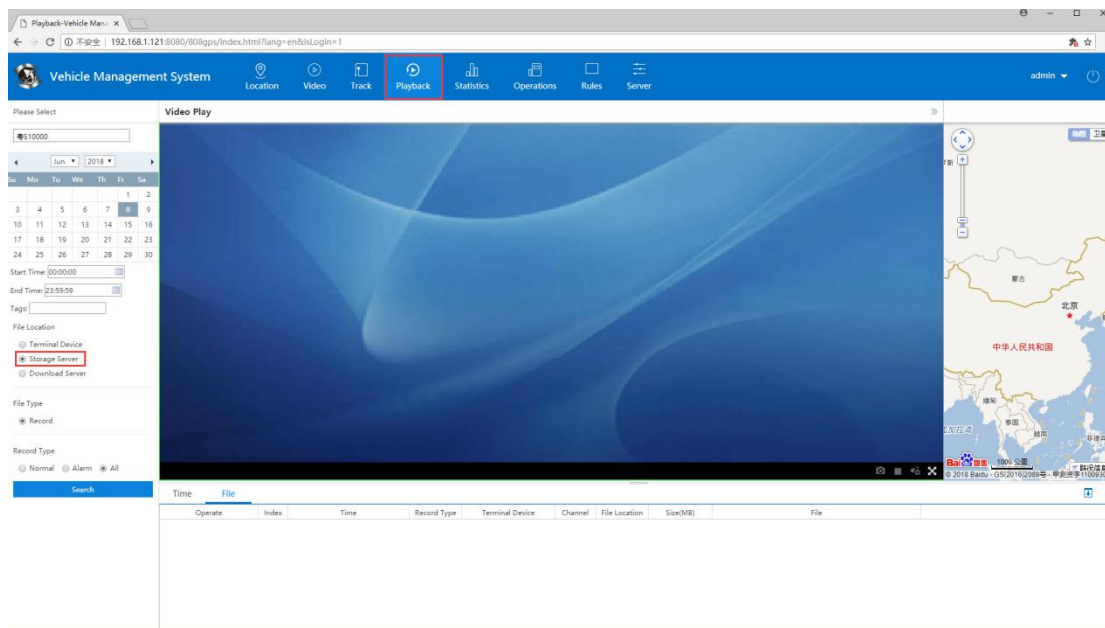
Each channel is independent, taking snapshots at intervals



Timing video rule



4.11.3 Query of video from Video replay selection server



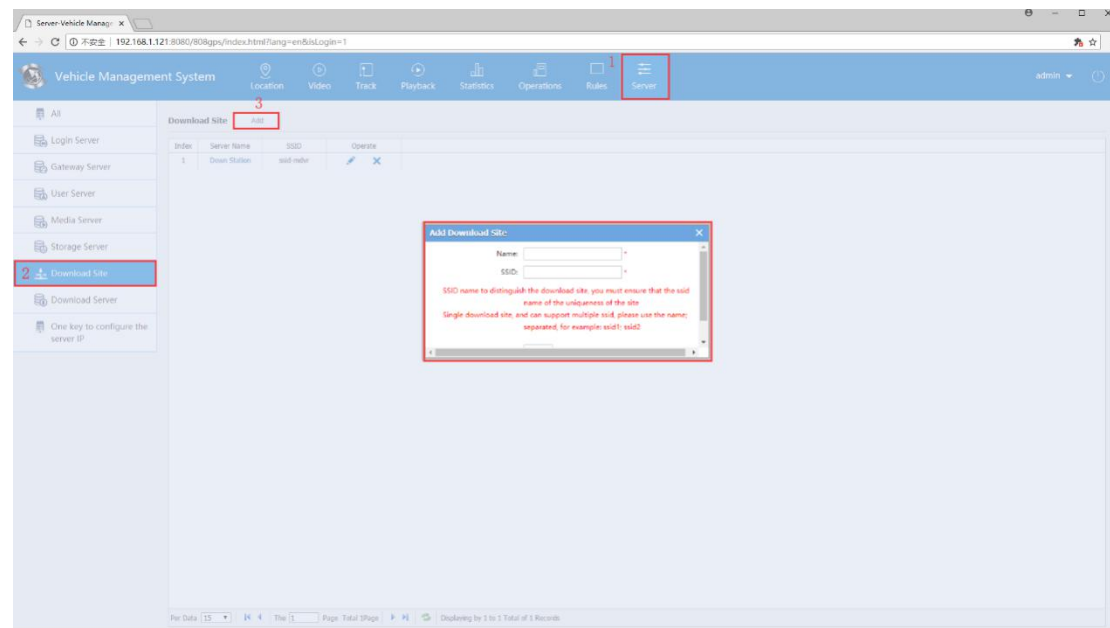
4.12 WIFI video download plan

Prerequisites for using wifi video download plan: The equipment has the wifi function.

4.12.1 Increase wifi download sites

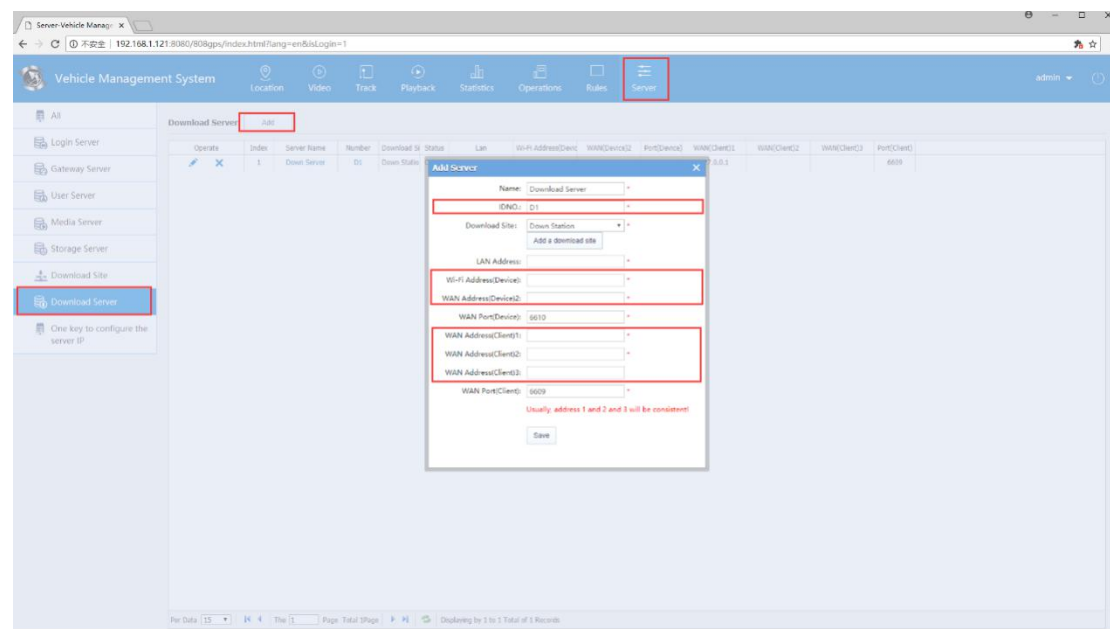
Log in the background, open the server management, click the Download Site, open the page, and then click Add Download Site for configuration.

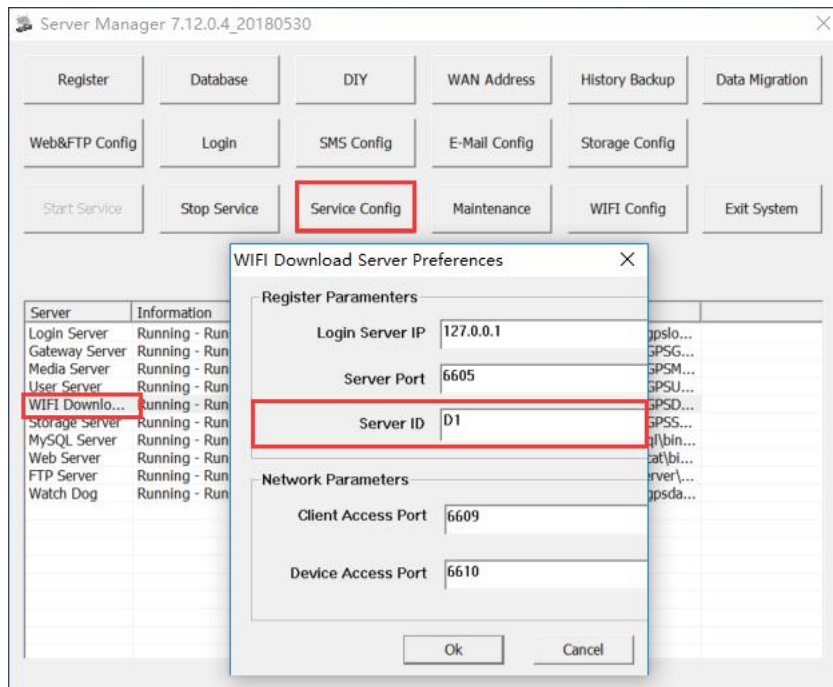
Note: The wifi download site must be the same as the wifi site used when the equipment reports, that is, the SSID must be the same in the same LAN, otherwise the download plan will not be executed.



4.12.2 Increase wifi download servers

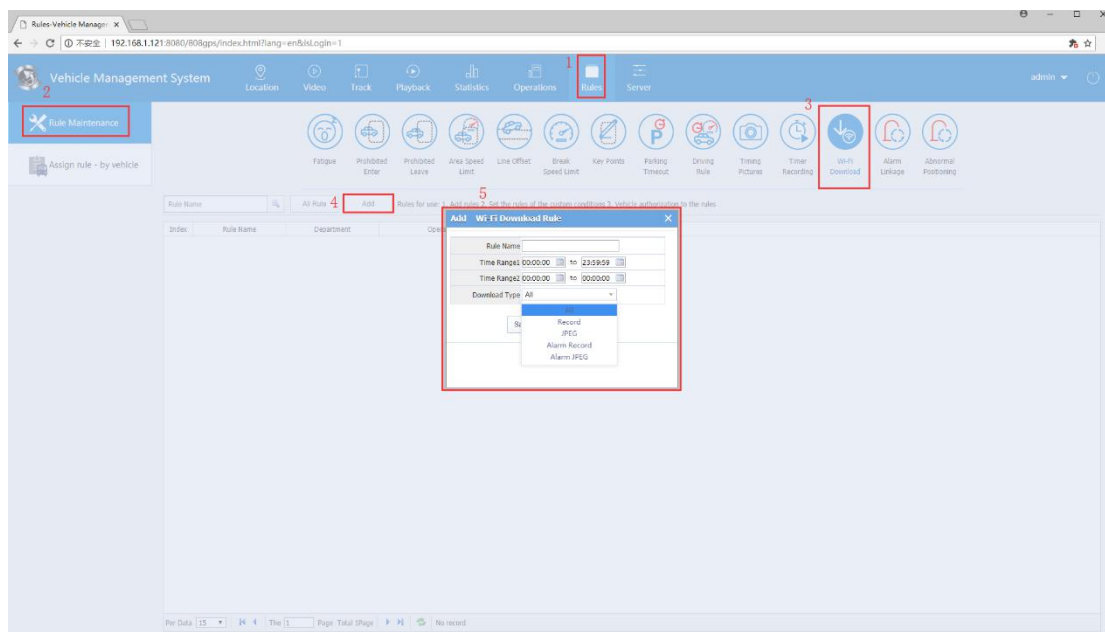
After successfully adding the download site, add a wifi download server. As shown in the figure



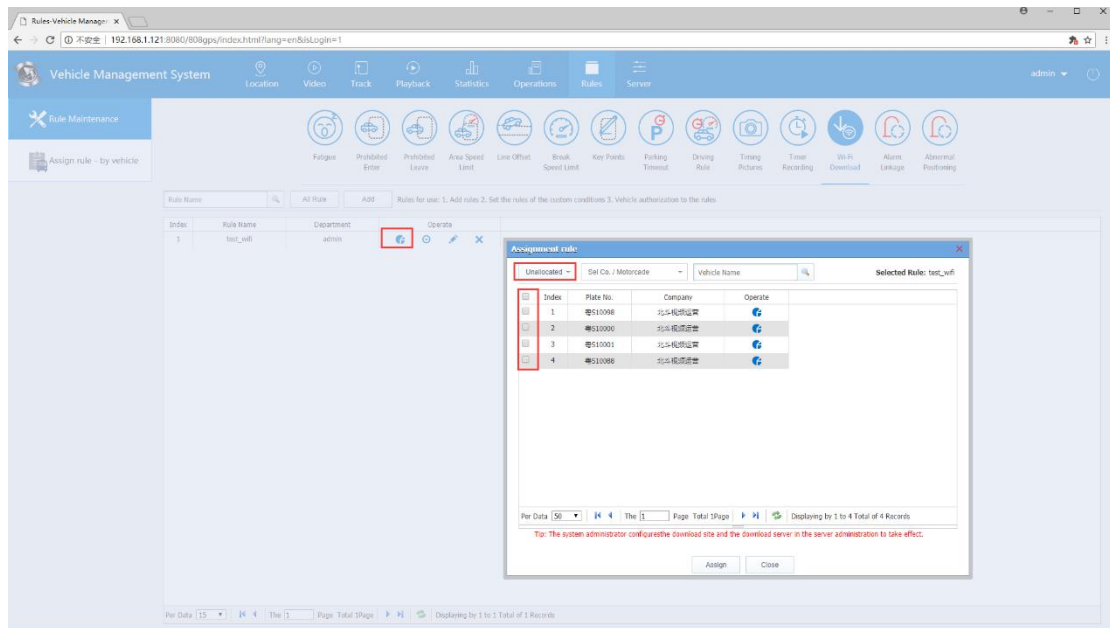


4.12.3 Configuration of wifi download plan

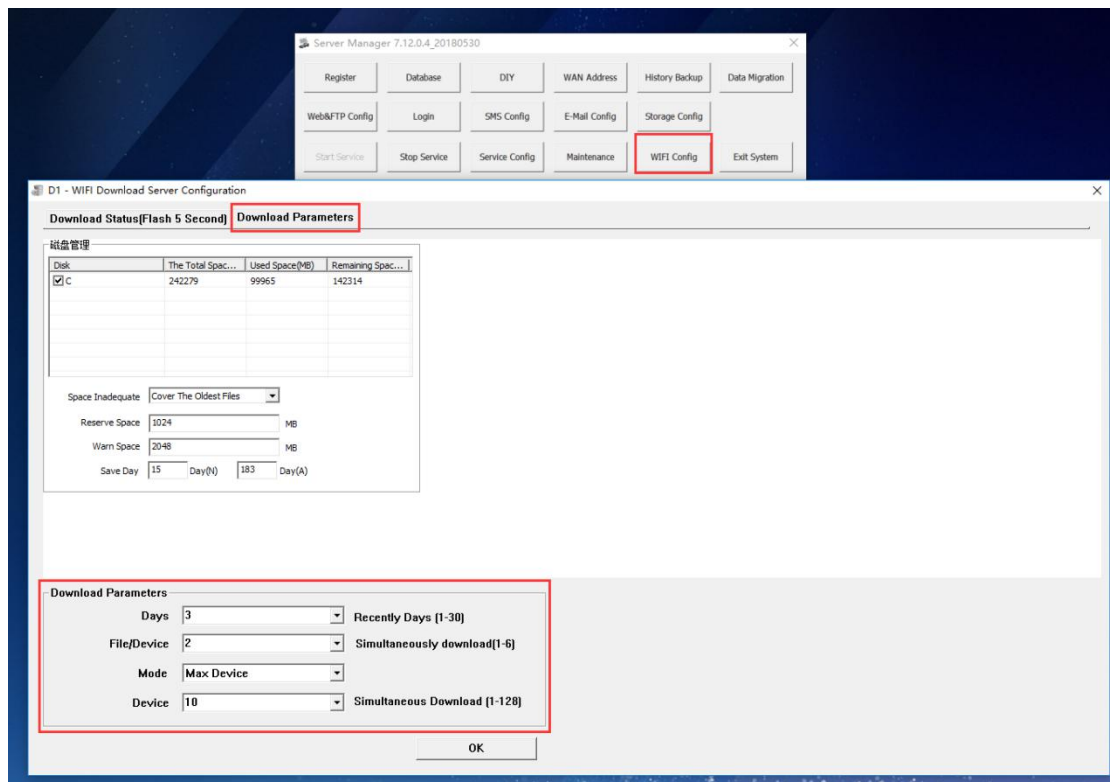
Log in web rules management, configure wifi download plan after successful configuration, the video file on the server will be automatically downloaded according to the configuration plan when the equipment is connected to wifi.



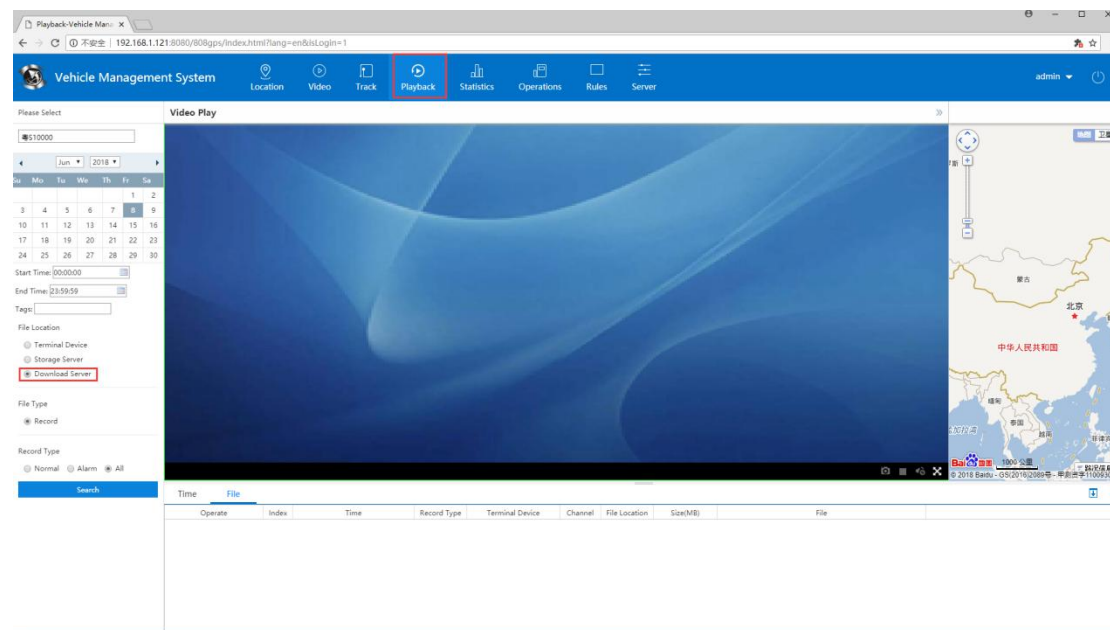
Distribution rule



4.12.4 Setting wifi download path and download status on the server software



4.12.5 Playback of downloaded video under the interface of the video replay

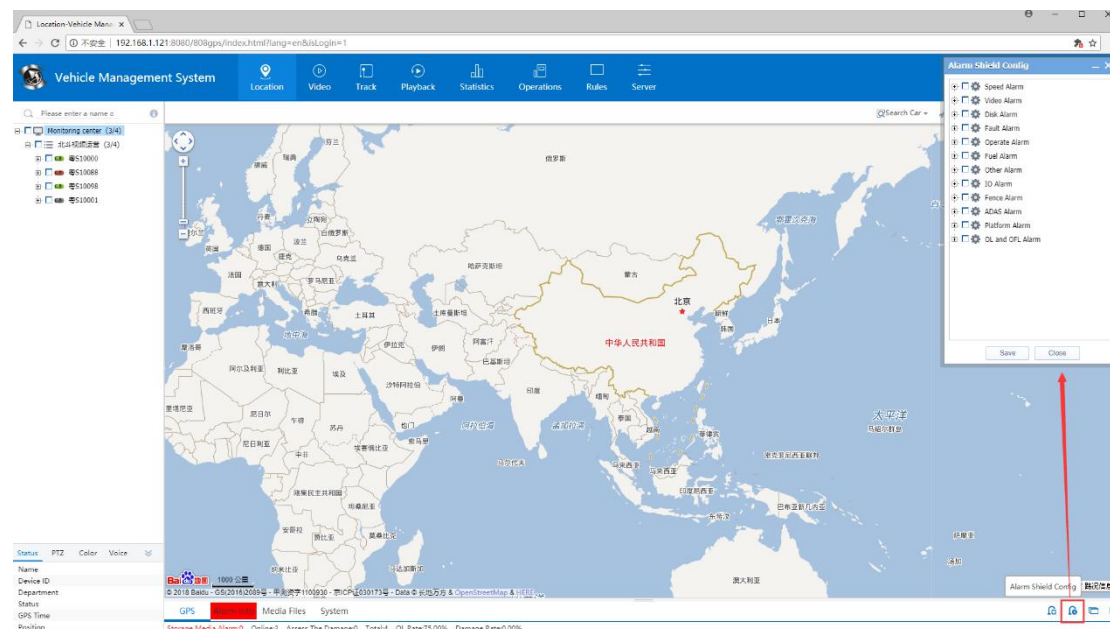


4.13 Alarm

4.13.1 Shielding alarm information

If the alarm in the mask list is checked, there will be no such alarm in the "Alarm Information" column of the WEB client side.

Click "Alarm Shield Configuration" to open the "Alarm Shield Configuration" window as shown in the figure.

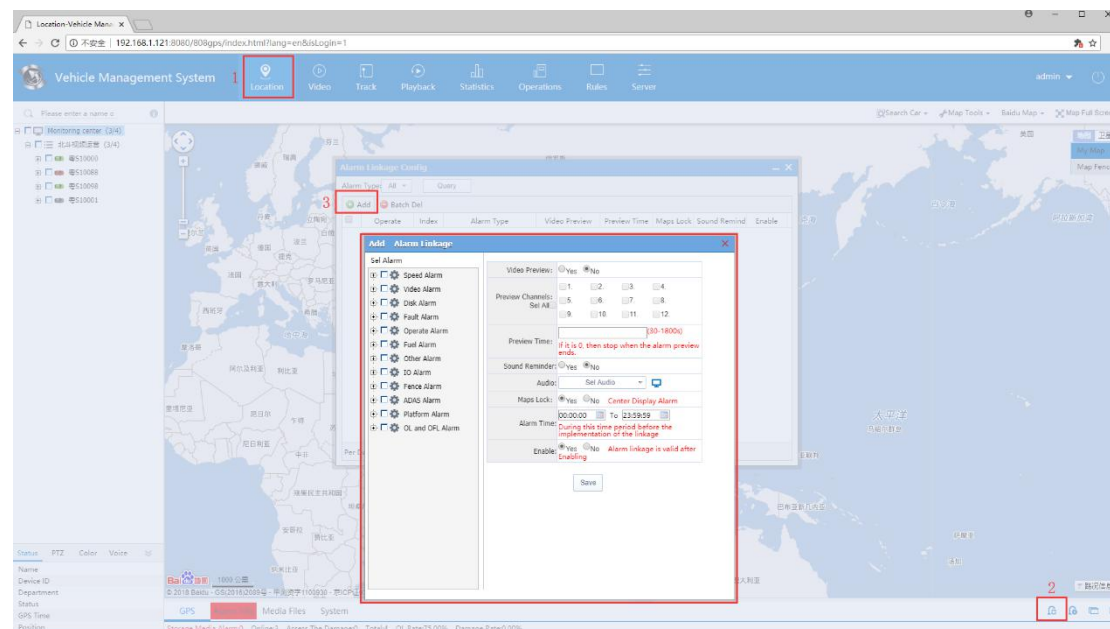


Directly check the alarms that needn't displaying on the WEB client.

4.13.2 Action with alarm of WEB client

When the user can specify one or more types of alarms to be generated through action with alarm function of the configuration equipment on the client, the web client can pop up a video window that generates an alarm, an electronic map lock function and other settings. (This action with alarm is only for this page)

Click “Action with Alarm Setting” to open the "Action with Alarm Setting" window as shown in the figure.



Add linkage alarm

When the setting window of the action with alarm is opened by default, the function of the left panel is not editable. Only when the equipment is selected, the right panel can be editable. Here you can set the action with alarm for each type of alarm for each equipment.

Type of alarm: Select the type of alarm associated with the equipment alarm (The corresponding action can be performed only when the device alarm type is the same as the alarm type set here).

Video preview: When an alarm is generated, a video of the channel of the equipment will be popped (the current version of the code stream type supports only the subcode stream).

Alarm sound: Set the sound of the action with alarm to select the default or customized sound.

Electronic map locking: When the associated equipment is linked, the monitored equipment will be centrally displayed on the map.

Deployment time: The action with alarm within this time period will be valid after it is enabled.

Add Alarm Linkage

Sel Alarm

Speed Alarm

Video Alarm

Disk Alarm

Fault Alarm

Operate Alarm

Fuel Alarm

Other Alarm

IO Alarm

Fence Alarm

ADAS Alarm

Platform Alarm

OL and OFL Alarm

Video Preview: ☐ Yes ☒ No

Preview Channels: ☐ 1. ☐ 2. ☐ 3. ☐ 4.

☐ 5. ☐ 6. ☐ 7. ☐ 8.
 ☐ 9. ☐ 10. ☐ 11. ☐ 12.

Preview Time:

(30-1800s)

If it is 0, then stop when the alarm preview ends.

Sound Reminder: ☐ Yes ☒ No

Audio:

Maps Lock: ☒ Yes ☐ No

Center Display Alarm

Alarm Time: To

During this time period before the implementation of the linkage

Enable: ☒ Yes ☐ No

Alarm linkage is valid after Enabling

Save

Query linkage set

Alarm Linkage Config

Alarm Type: All

Query

Add

Batch Del

	Operate	Index	Alarm Type	Video Preview	Preview Time	Maps Lock	Sound Remind	Enable
<input type="checkbox"/>		1	Speed Alarm	No	no	Yes	No	Yes

Per Data 15

The 1

Page Total 1Page

Displaying by 1 to 1 Total of 1 Records

When the alarm generates, the corresponding linkage occurs.

4.13.3 Action with alarm of server rules

This action with alarm is for all login users.

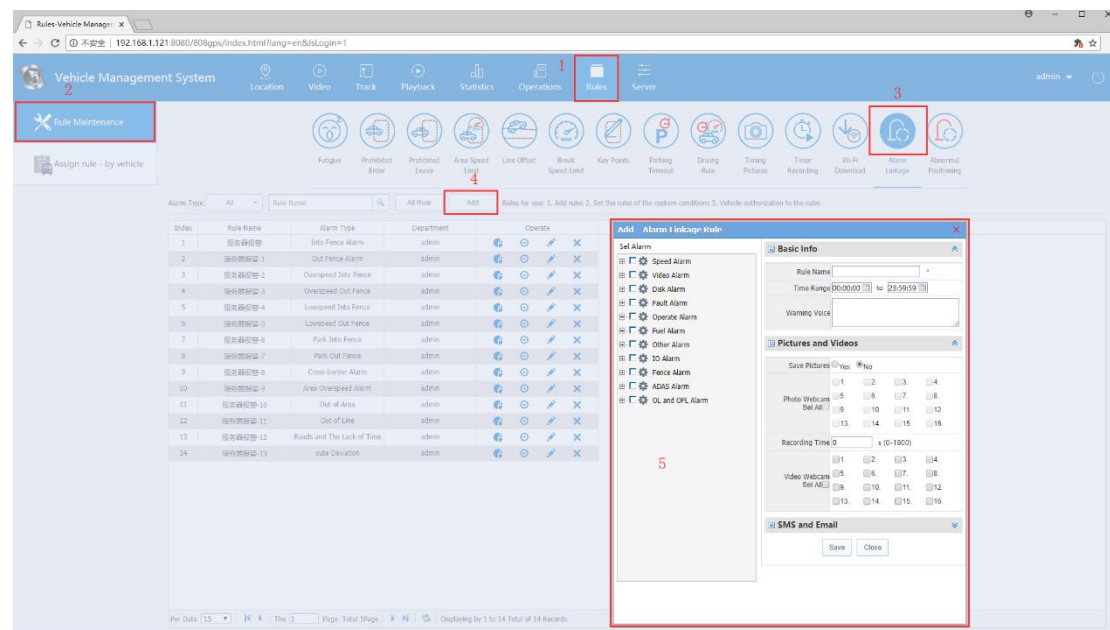
4.13.3.1 Action with alarm of rule management configuration

When the specified equipment occurs with the specified alarm, the server will automatically send SMS and email notifications to the configured mobile phone number and mailbox. (See email and SMS settings in directory 9.1)

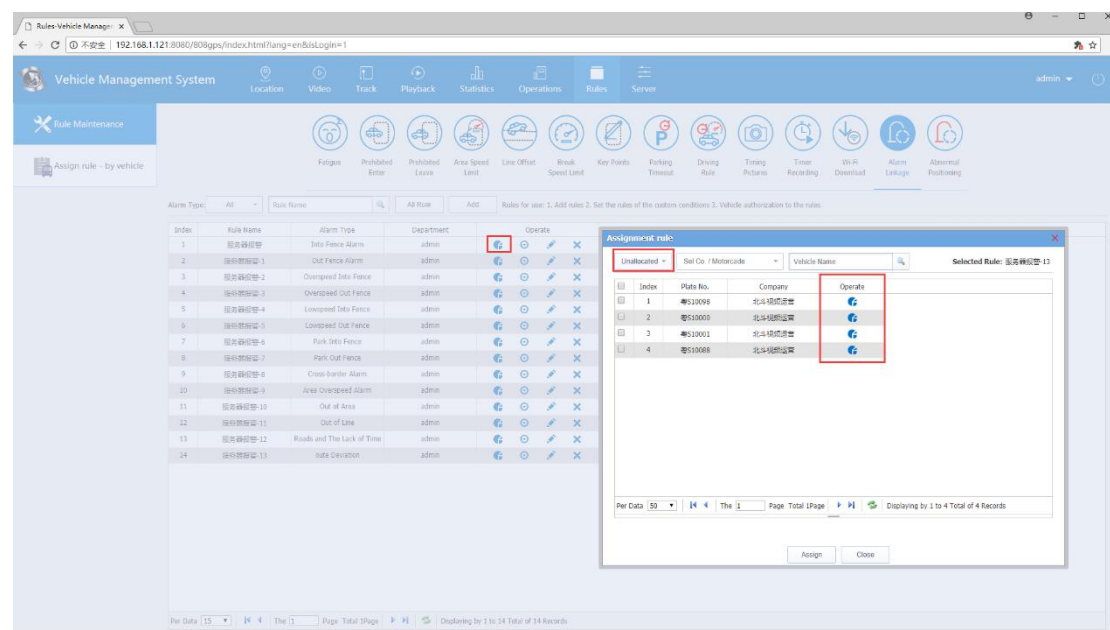
1. Configuration rule

1 Please fill in the mobile number normally; if there are more than one mobile number, please separate them with ";"multiple. The SMS contents are terminal+time+alarm description.

2 Please fill in the email address normally; if there is more than one mobile number, please separate them with ";"multiple. The SMS contents are terminal+time+alarm description.



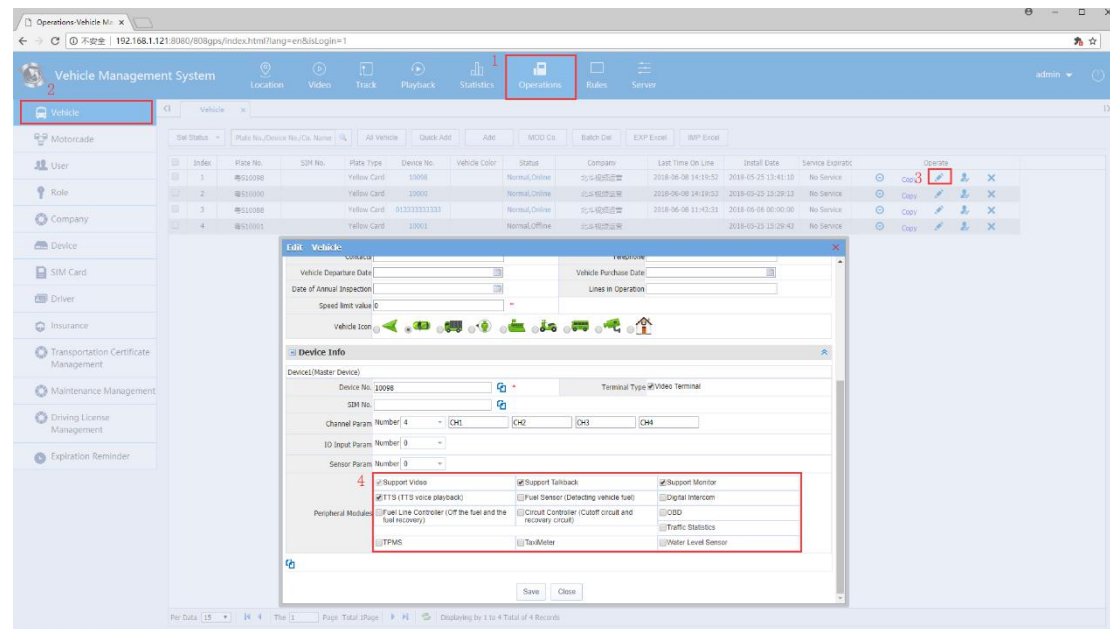
2. Distribution rule



4.14 Issuance of literal information

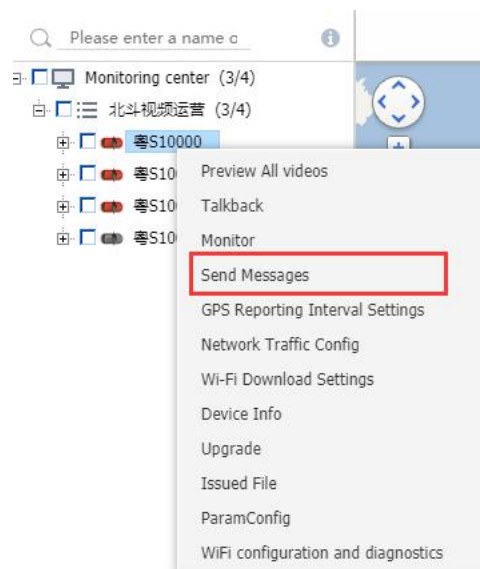
Users can send the literal information to the vehicle it manages to notify the driver in the WEB client.

The premise is that the equipment has a TTS voice function or a display screen, and at the same time, the peripheral information module TTS is checked on the Vehicle Information » Edit Vehicle » Equipment Information.



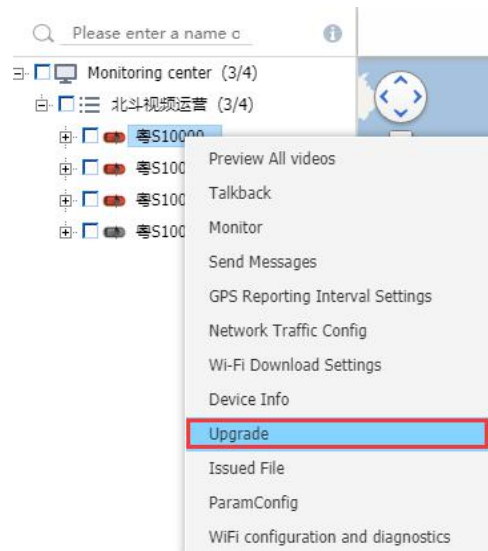
4.14.1 Opening of issued literal information

The opened literal information includes: In the vehicle list, on the map vehicle information



4.14.2 Operation of issued literal information

A. Click Send Literal Information on the vehicle list, and the sending interface appears; the vehicle tree on the right shows the online vehicle; check the Vehicles Sent, input the delivered text, and click Send; the sending status will be prompted in the list below.



4.15.1 Addition of the upgrade task

When the equipment has no upgrade task

 A screenshot of a dialog box titled '粤S10000 There Is Currently No Upgrade Task'. It contains a tip: 'Tip: If the device is online, it will be upgraded in time, if not online, when you upgrade the device line'. Below the tip, there are four input fields: 'UPG File Version' (a dropdown menu), 'UPG Filename' (a text field with a computer icon), 'Files Uploaded' (a text field), and 'Task Created' (a text field). At the bottom, there are four buttons: 'Refresh', 'Save', 'Save To Other Terminals', and 'Close'.

When the equipment has upgrade task

 A screenshot of the same dialog box as above, titled '粤S10000 There Is Currently No Upgrade Task'. The title bar is highlighted with a red box. The content is identical to the previous screenshot, showing the tip, input fields, and buttons.

When the equipment has the upgrade task, the edit button needs to be clicked before the upgrade file version is replaced

Description: Those listed in the upgrade file version refer to the latest ten file records

4.15.2 Saving to other vehicles

It means that the current upgrade task can be saved to other multiple vehicles at the same time

After clicking to save to other vehicles, the page is shown as the figure below

There Is Currently No Upgrade Task

Tip: If the device is online, it will be upgraded in time, if not online, when you upgrade the device line

UPG File Version

UPG Filename

Files Uploaded

Task Created

Refresh Save Save To Other Terminals Close

The vehicles listed in the above figure refer to those with the same agreement as the equipment under the equipment upgrade task interface

4.15.3 File management

When clicking the file management button on the equipment upgrade task interface, the following interface will display (shown in the figure below)

UPG File Manage

Start Time: 2018-06-02 00:00:00 End Time: 2018-06-08 23:59:59 Version: Search

Index	Operate	File Name	Version No.	Version Name	Files Uploaded
-------	---------	-----------	-------------	--------------	----------------

Per Data: 15 The 1 Page Total 1 Page No record

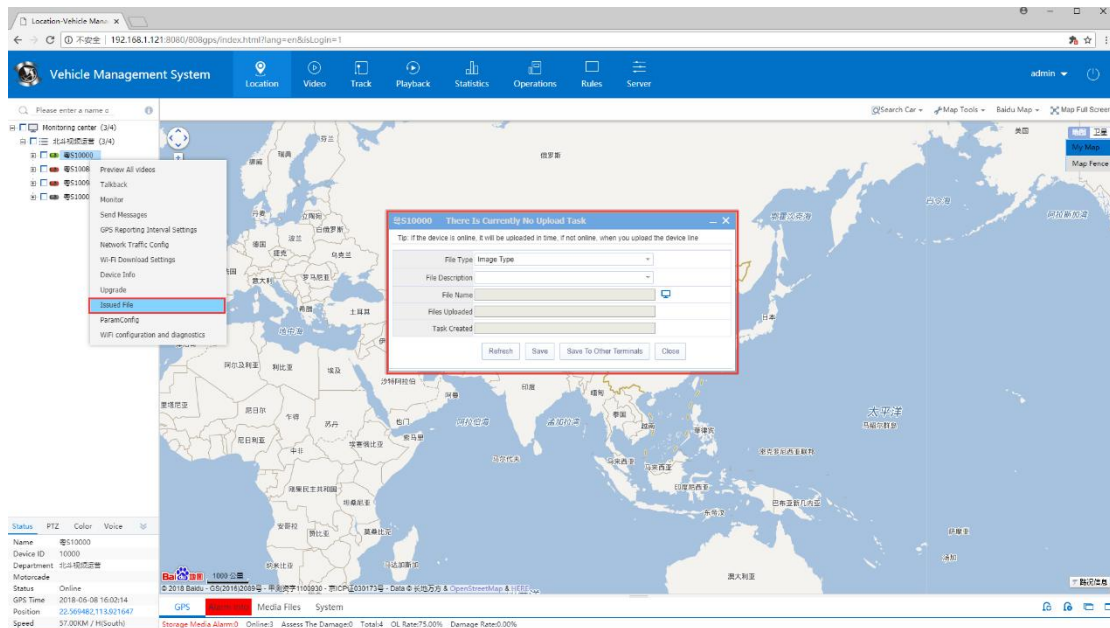
Sel UPG file: Select File

Version No.: Upload

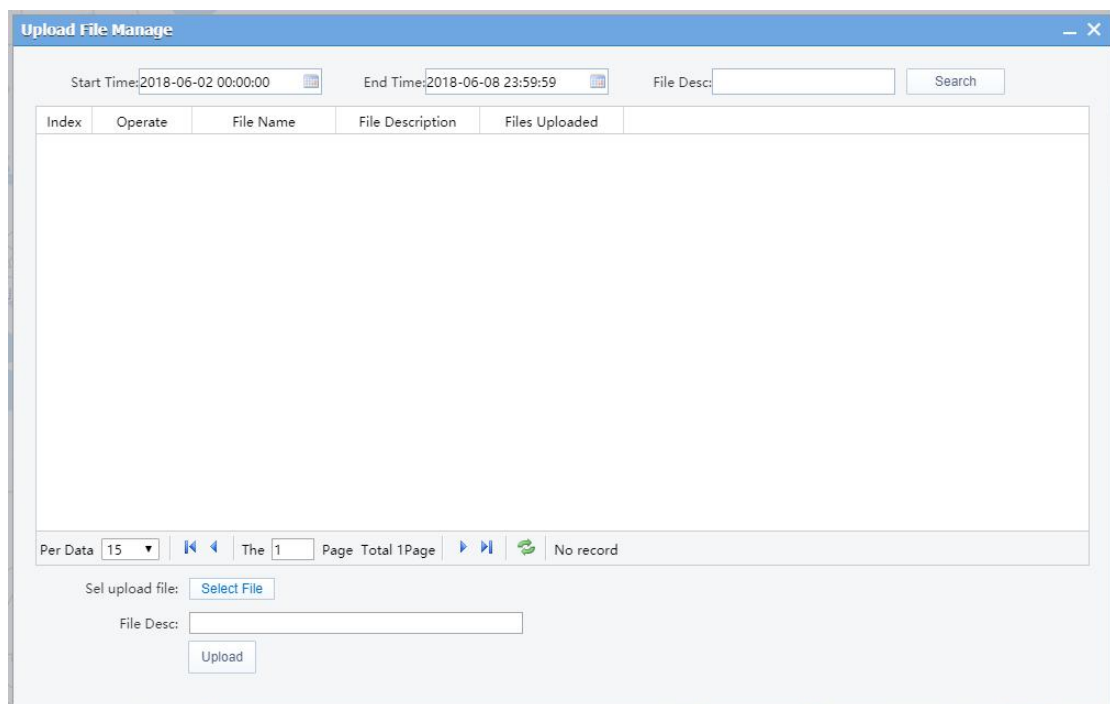
4.16 Issuance of files

It refers to the function of issuing the picture or file on the platform to the equipment.

1、 When selecting the vehicle on the vehicle list to issue the file, right click to select the file issuance. As the figure below



2、Uploaded file management



A. File type: Picture type and configuration file (the file realization mainly depends on whether the equipment has this function)

B. File description: It can be customized

C. File title: It can be uploaded to the server from PC port

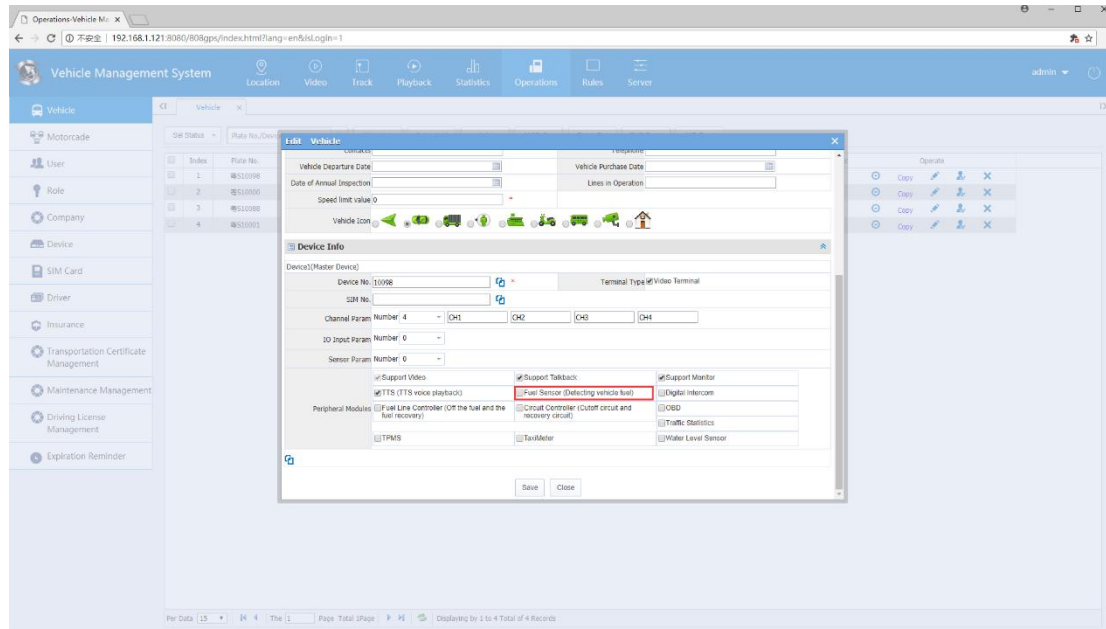
D. Time of uploading the file: The time of uploading the file can be recorded

E. Task creation time: The creation time can be generated after saving

4.17 Configuration of oil mass

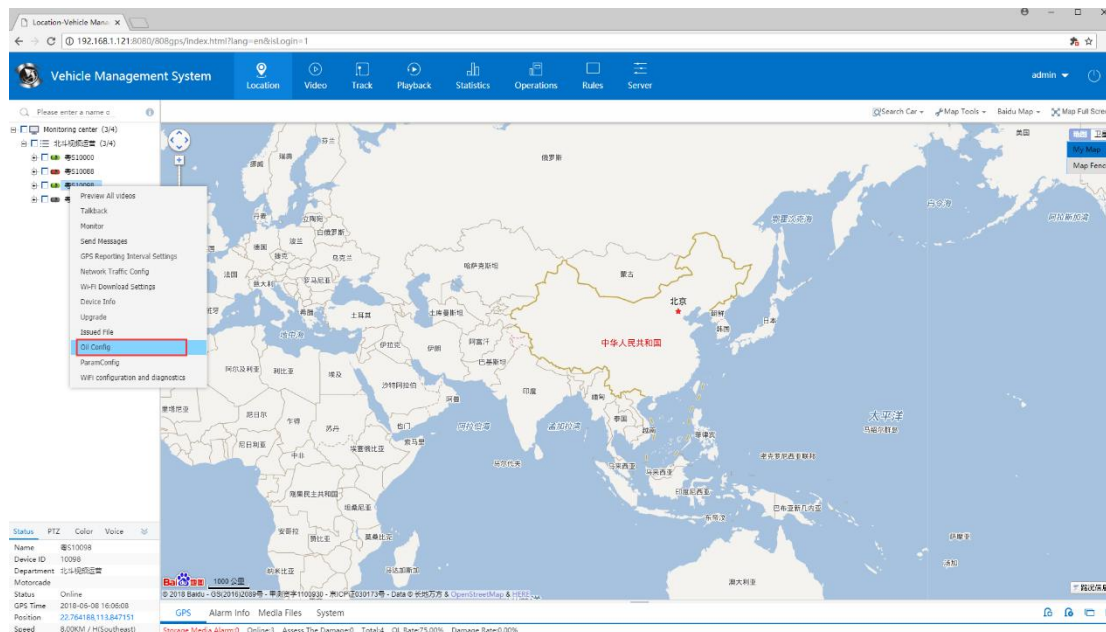
4.17.1 Setting configuration of oil mass

With the oil mass sensor function, the equipment can carry out the configuration of oil mass parameters and tick the peripheral module in the vehicle information.

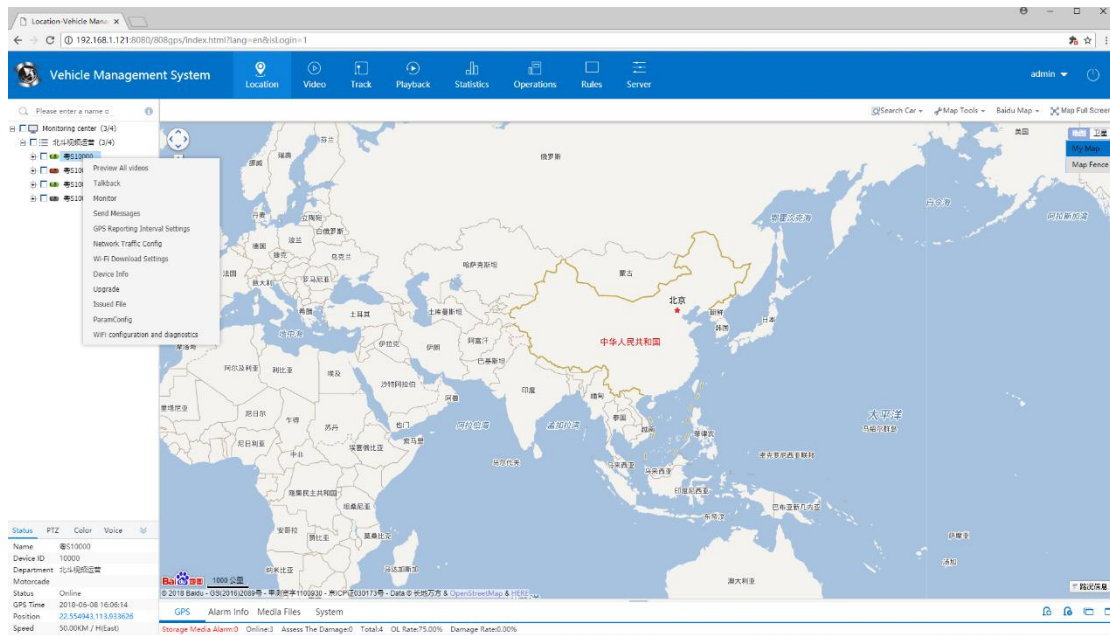


Configuration operation of oil mass: Right click the vehicle to be configured on the vehicle list to select the configuration of oil mass

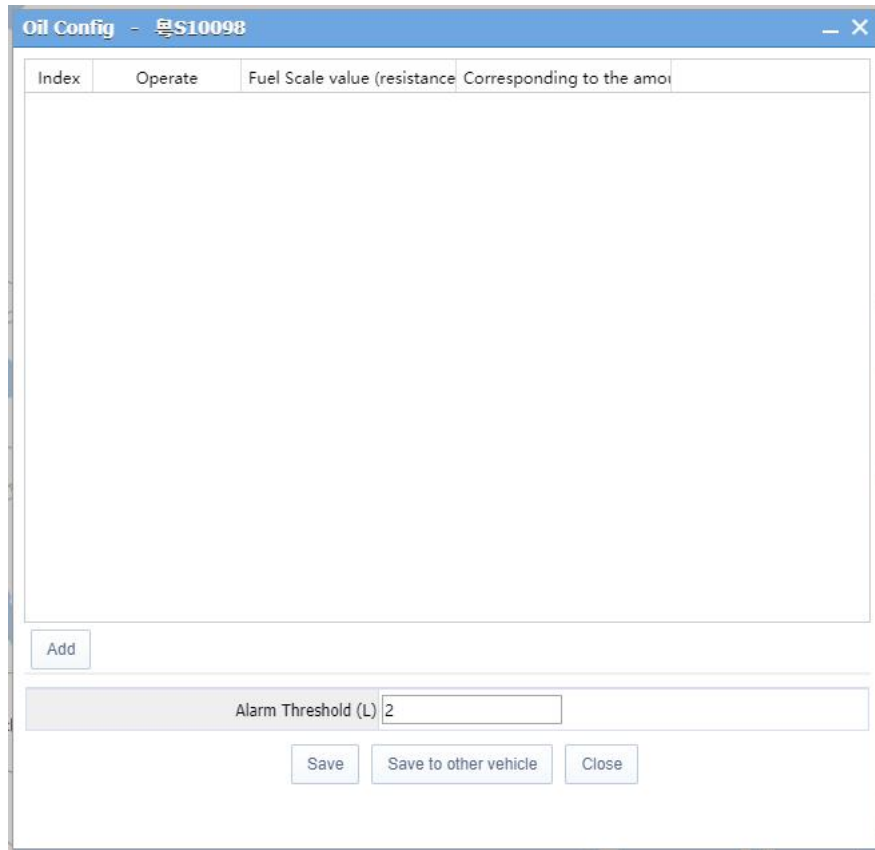
With the oil mass sensor (as shown in the figure below) Equipped with the oil mass configuration button



Without the oil mass sensor (as shown in the figure below) not possess the oil mass configuration button



The oil mass configuration interface is shown in the figure below



2.1 Click the add button to add the oil scale value and setting of corresponding oil mass

After clicking, the following interface will display

It can be added for many times but the page needs to be manually closed

Requirements for configuration scale and the corresponding oil mass, take an example: As follows

Index	Operate	Fuel Scale value (resistance)	Corresponding to the amount of oil (liters)
1		100	80

Rules filling in: 1 Fill in the relatively small value and the relative oil mass value 2 Fill in the maximum sensor value and the corresponding maximum oil mass value 3 Fill in the value between the above two values. (The more you fill in, the more accurate)

Alarm threshold setting: When the oil mass suddenly changes and is more than or less than the set threshold, the alarm will sound. At the same time, the alarm information will be also recorded in the statement.

2.2 Edit button

After clicking, the following interface will display (as shown in the above example, click the edit button corresponding to the serial number 2)

Fuel Scale	100	1-100000
Corresponding to the amount of oil (liters)	80	1-2000

Add Cancel

The modified value shall be required to be the same as that when adding (remove the corresponding value in this column)

After saving, the page will be automatically closed

2.3 Delete button

As shown in the above example in 2.1, after clicking delete button corresponding to the serial number 2, the following results will display

Index	Operate	Fuel Scale value (resistance)	Corresponding to the amoi
1		100	80

Add

Alarm Threshold (L) 2

Save Save to other vehicle Close

2.4 Save to other vehicles

Index	Operate	Fuel Scale value (resistance)	Corresponding to the amount
1	X	100	80

Add

Alarm Threshold (L) 2

Save Save to other vehicle Close

The vehicles listed in the above figure refer to those configured with the oil mass sensor

4.17.2 Statement of oil mass

Summary on oil mass, dynamic statement on oil mass, obvious abnormality statement on oil mass

OL And OFL RPT

- Summary RPT Of OL And OFL
- Detail RPT Of OL And OFL

1. Summary on oil mass: Record the oil mass of vehicle upon startup and shutdown within a certain time, as well as the driven mileage and total oil consumption.

Vehicle Management System

Location Video Track Playback Statistics Operations Rules Server

ADAS Report

Driving Behavior RPT

OL And OFL RPT

- Summary RPT Of OL And OFL
- Detail RPT Of OL And OFL

Alarm RPT

Mileage RPT

Driving RPT

Summary RPT Of OL And OFL

Sel Times: Custom Time Start Time: 2018-06-08 00:00:00 End Time: 2018-06-08 23:59:59 Query EXP File Format

Terminal: All Vehicle

Index	Plate No.	Department	Plate Color	Start Time	End Time	Total OL	Total OFL
1	粤S10098	北斗视频监控运营	Yellow Carc	2018-06-08 10:00:40		3	0
2	粤S10000	北斗视频监控运营	Yellow Carc	2018-06-08 10:00:49		3	0
3	粤S10088	北斗视频监控运营	Yellow Carc	2018-06-08 10:57:40		3	0

2. Dynamic statement on oil mass: Upload the value of oil mass along with the GPS in an isochronous real-time manner.

Vehicle Management System

Detail RPT Of OL And OFL

Set Time: Custom Time Start Time: 2018-06-08 00:00:00 End Time: 2018-06-08 23:59:59 Query EXP File Format

Terminal: All Vehicle

Index	Plate No.	Department	Plate Color	OnlineTime	OnlinePosition	OfflineTime	OfflinePosition	Network Address
1	粤S10089	北沙坑街道	Yellow Card	2018-06-08 10:00:40	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 64109
2	粤S10000	北沙坑街道	Yellow Card	2018-06-08 10:00:49	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 55575
3	粤S10088	北沙坑街道	Yellow Card	2018-06-08 10:57:40	湖北省恩施土家族苗族自治州恩施市南漳乡			192.168.1.138 1038
4	粤S10088	北沙坑街道	Yellow Card	2018-06-08 14:34:42				192.168.1.138 1417
5	粤S10088	北沙坑街道	Yellow Card	2018-06-08 14:41:16	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 61691
6	粤S10000	北沙坑街道	Yellow Card	2018-06-08 14:41:24	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 64207
7	粤S10088	北沙坑街道	Yellow Card	2018-06-08 14:42:48	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 91737
8	粤S10000	北沙坑街道	Yellow Card	2018-06-08 14:42:51	广东省深圳市龙岗区平湖街道广深公路辅道			192.168.1.121 91738
9	粤S10088	北沙坑街道	Yellow Card	2018-06-08 14:44:22				192.168.1.138 1420

Per Data: 15 The 1 Page Total 1 Page Displaying by 1 to 9 Total of 9 Records

3. Obvious abnormality statement on oil mass: Once the alarm sounds, the record can be made in the statement. (The above value refers to the set alarm threshold)

Vehicle Management System

Fuel Abnormal Detail RPT

Set Time: Custom Time Start Time: 2018-06-11 00:00:00 End Time: 2018-06-11 23:59:59 Query EXP File Forr

Vehicle: Select Type: All

Index	Plate No.	Company	Plate Color	Time	Current Position	The Mileage(KM)	Fuel Chang
-------	-----------	---------	-------------	------	------------------	-----------------	------------

Per Data: 15 The 1 Page Total 1 Page

Statistics time and oil mass change:

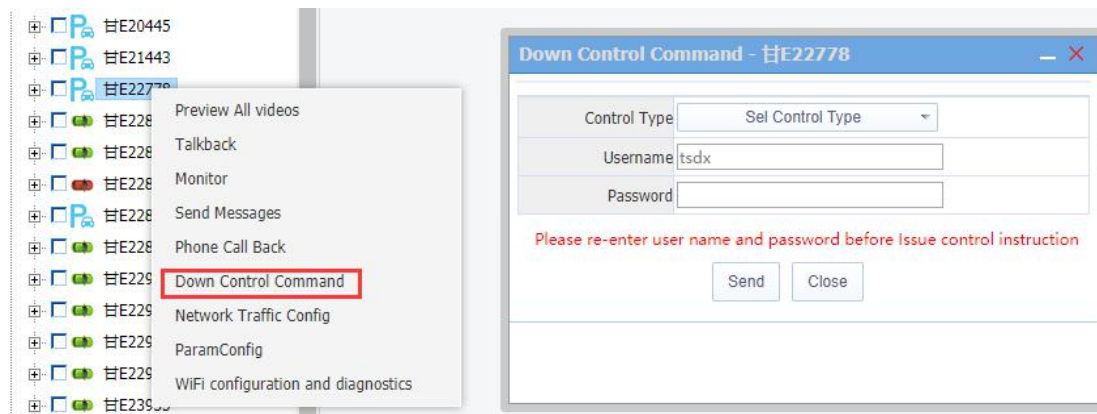
If the oil mass change exceeds the setting value of "oil mass change" in designated "statistics time", then the client will have oil mass alarm displayed.

4.18 Commonly used functions

4.18.1 Vehicle control

The vehicle control can carry out the remote control for the equipment on the vehicle: Oil mass disconnection, oil mass recovery, power supply closing, power supply opening, equipment restarting, factory setting recovery, mileage reset, alarm reset.

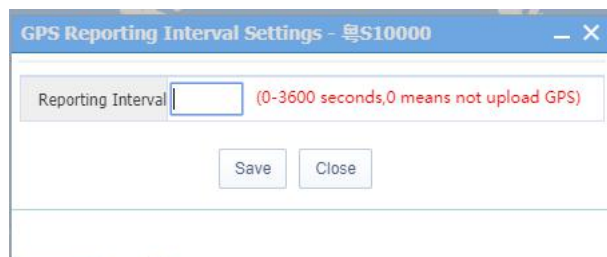
On the vehicle list» clicking the vehicle» select the vehicle



4.18.2 Setting of GPS report interval

Set up the GPS report interval on the vehicle: Reduce the data volume of GPS on the vehicle

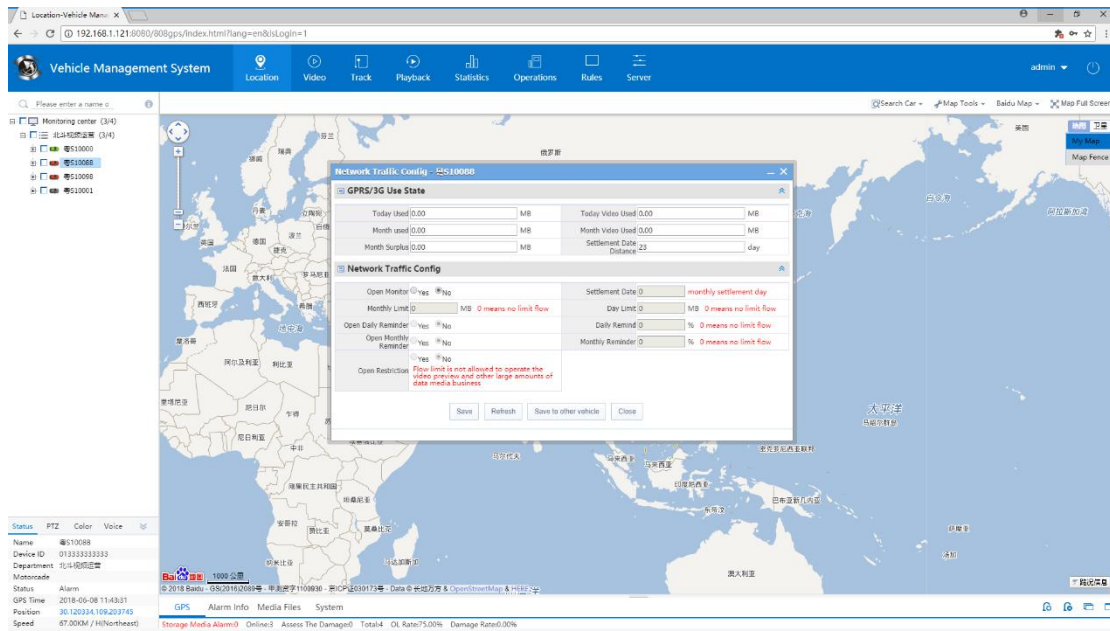
On the vehicle list» clicking the vehicle» select the vehicle



4.18.3 Configuration of network flow

For the equipment tree, right click the configuration of network flow

4.15.3.1 Viewing the flow service state



4.15.3.2 Configuration of flow service

If one vehicle has one equipment, this equipment will be configured, and if one vehicle has two equipment, the video equipment will be configured.

If there is no configuration package, the flow limitation will not be allowed to be configured, and there is no configuration limitation, the flow remind will not be allowed to be opened

After the flow limitation is opened, when the serviced flow of the equipment reaches to the limitation, the user will be prohibited to view the video, intercom, monitoring, media downloading and other operations.

Button function:

Save: Save the current configuration information.

Refresh: Refresh the current flow service conditions of the equipment.

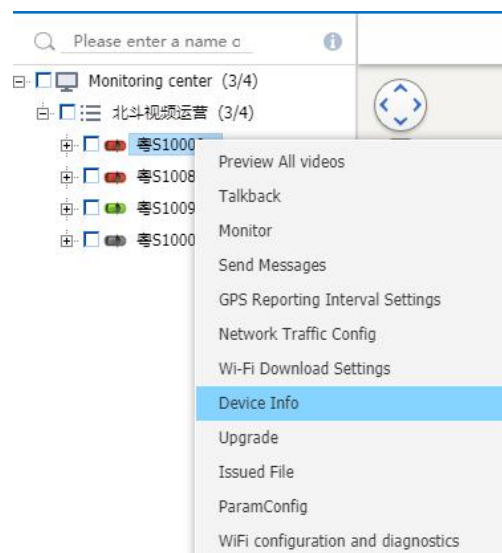
Save to other vehicles: The current equipment configuration can be copied to other equipment for saving.

Close: Exit the current page.

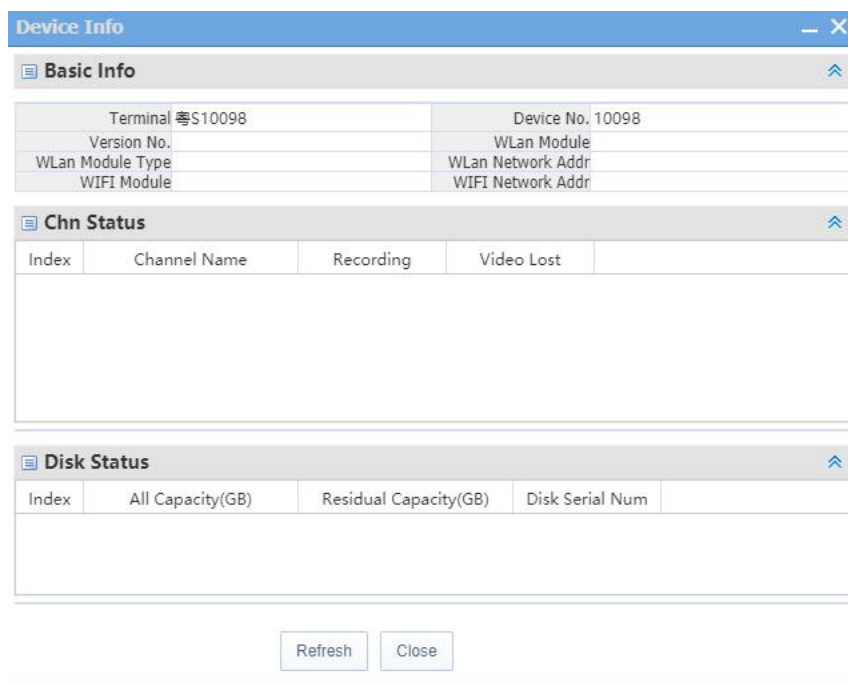
4.18.4 Equipment information

For the viewing of equipment information, the equipment in TTX (WKP) agreement only supports this function

This function is equipped with the vehicle list and map tip menu



For the equipment tree, right click the equipment information (or use the map tip) for viewing



Button function:

Refresh: Refresh the current equipment information.

Exit: Exit the current page.

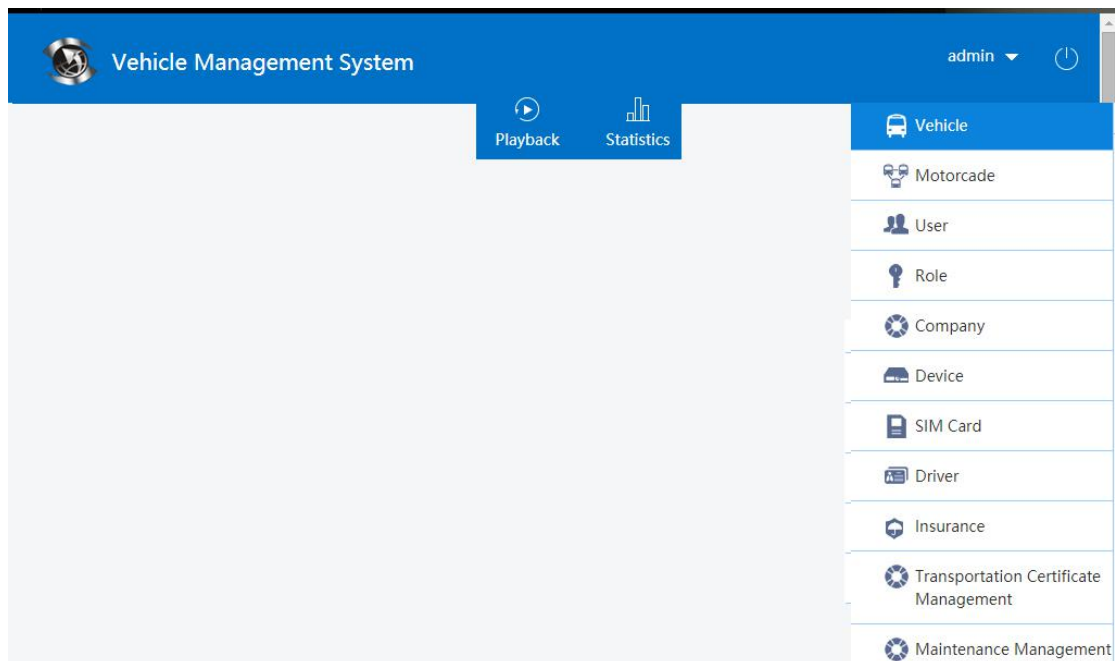
4.19 Common problems and Solutions

1. The login interface still displays V6 version

Just after the server is upgraded to V7 version, the login interface still displays V6 version, causing that WEB cannot be logged in. Why?

Solution: Only clear cache of IE

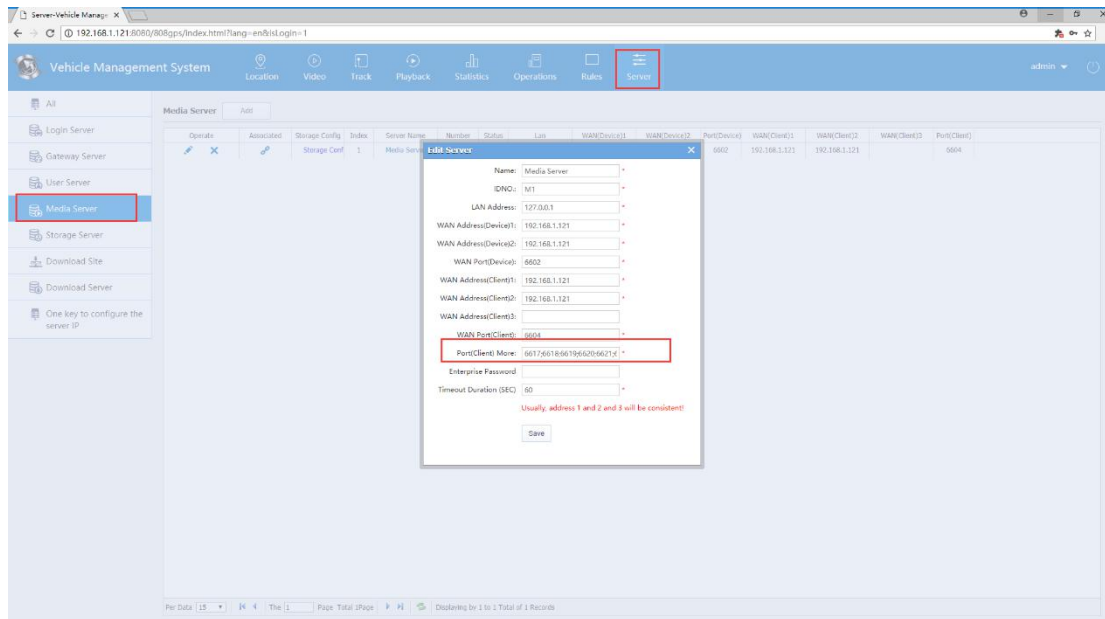
2、 The interface after logging in the web client incompletely displays, shown in the figure below



The reasons are that: The reason is that the resolution is too low, therefore, the resolution shall be higher than 1280*768 as much as possible

3、 Only one video window can be opened, while other windows fail to be loaded. Right?

Solution: Additionally add several UDP ports.



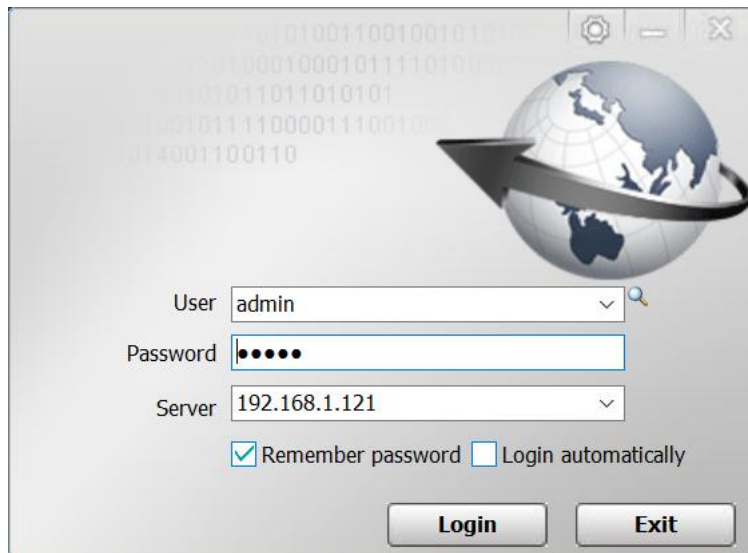
五、Direction for use of PC client

5.1 Client login

After the system is successfully installed, the desktop will display the icon, and after the icon is

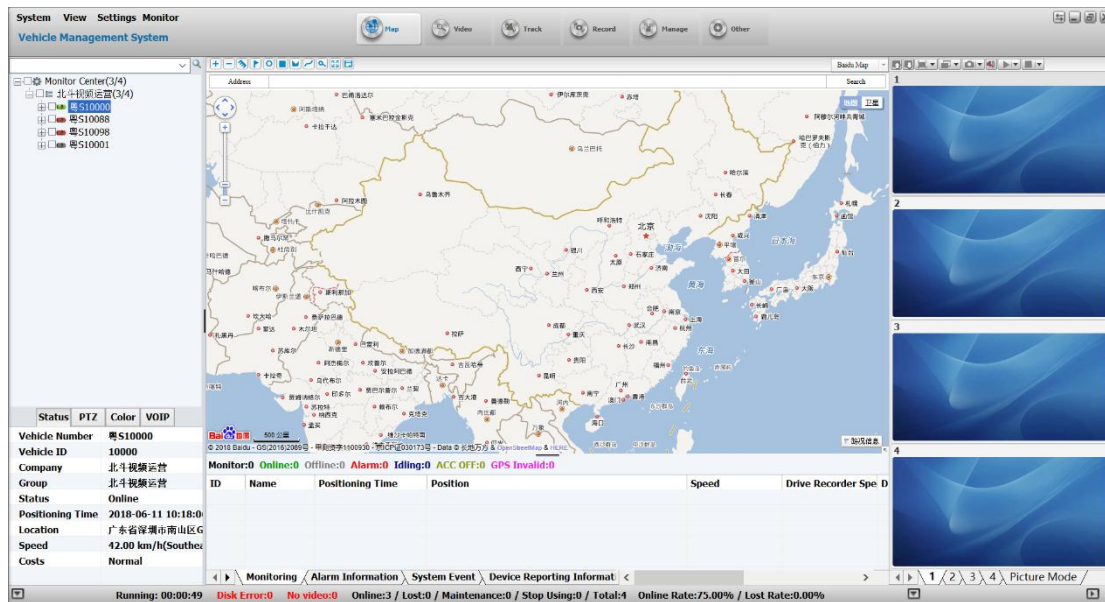


double clicked, the login interface is shown as follows;



5.2 Introduction to client interface

The client main interface is mainly divided into: Six modules, namely, menu and toolbar, equipment list, GPS map positioning, cloud platform control, data sheet, and video region



Introduction to various area of the main interface:

Menu bar: It is located in the top left corner and includes the system, view and setting menu

Toolbar: It is located in the top and as the main control region of system, it is divided into the electronic map, real-time preview, track playback, information management and other applications.

Map display region: It is used to view the equipment location and other information on the map

Terminal list: Equipment list information

Polling list: It is used to switch a set of the customized channel video in unit time

My map: It includes the records on point, surface and region marked by the user on the map

Status: Select the current basic information of equipment

Cloud platform: Operate the cloud platform, such as the rotation of angle and the adjustment of focus, aperture, lighting and wiper

Colors: It refers to the colors related to the remote control equipment

(Orderly from top to bottom: brightness, contrast, chroma, saturation, exposure)

Voice: It is used to carry out the language intercom, monitoring and broadcasting

GPS monitoring: It is used to monitor the real-time GPS positioning information of equipment, driving speed, alarm and status display

Alarm information: It displays the alarm contents

System events: It records the system events, such as the login, etc.

5.3 Electronic map

Real-time monitoring against the equipment in the terminal list on the left can be conducted on the CMSV6 client and geographic location shall be displayed on the map.

5.3.1 Electronic map monitoring

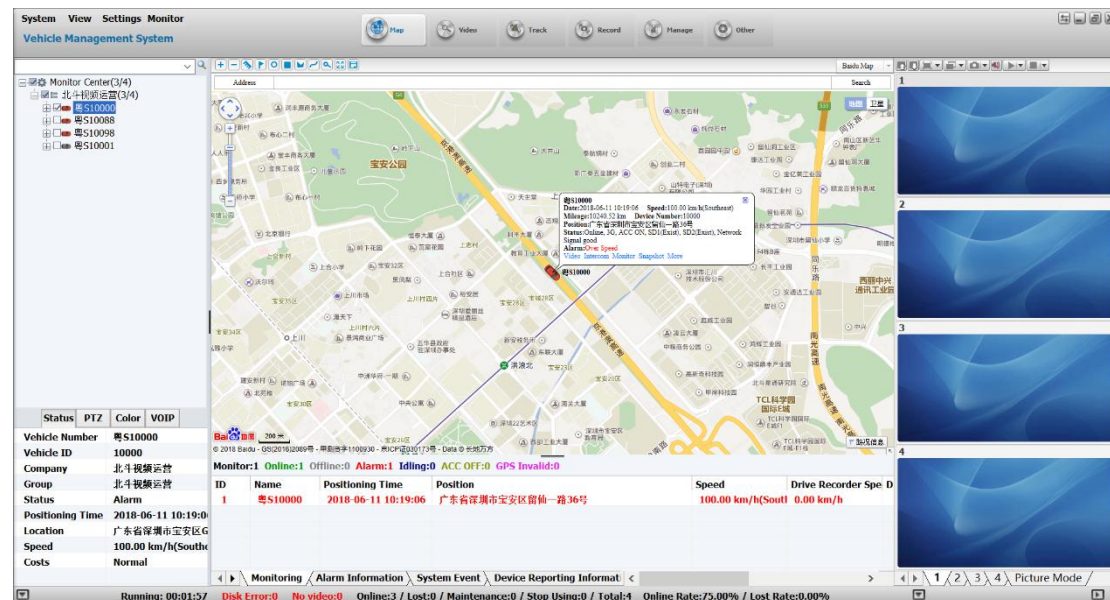
1. After selecting the equipment to be monitored in the equipment list, real-time monitoring can be realized by checking and real-time monitoring will be cancelled by removing checking.

2. For the equipment selected to undergo real-time monitoring, detailed information about such equipment will be displayed on the map, including equipment name, current running speed and date, mileage of the same day, total mileage, drive information, location and alarm information; In addition, such functions as video, talkback and monitoring are enabled.

3. Method of switching map type

1) Map switch at the upper right corner of the map exists and there are three choices: Respectively, Baidu Map, Google Map, and MapInfo Map.

2) Click the "setting" -> "system setting" on the menu bar or switch the map for entering.












Zooming: The user can drag the up and down scroll bar on the left of map or click "+" and "-" buttons to zoom in and zoom out the map.

Map/satellite: The user can use these two buttons to switch and view the driving status of equipment under the map or satellite mode.

Equipment in the center: After ticking the equipment to be monitored in the equipment monitoring list, this equipment will be displayed in the center.

Introduction to button function on the electronic map:

Icon	Function Introduction
	Add the customized point (fixed point)
	Add the circular region

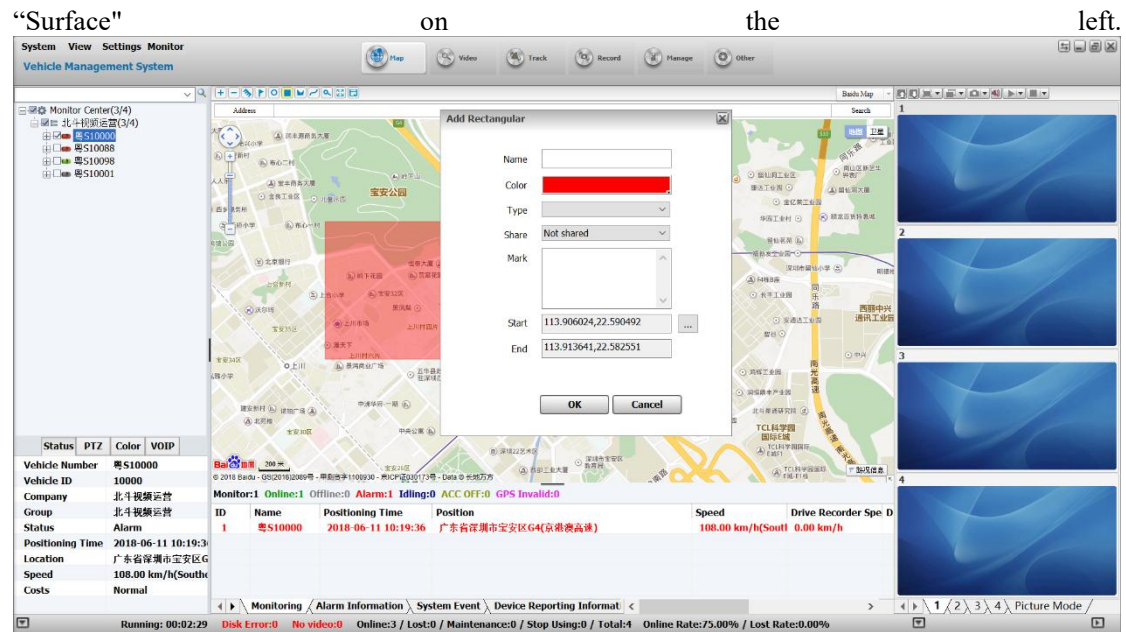
	Add the fence of rectangular region
	Measuring distance
	Add the fence of irregular graph region
	Pull box zoom in
	Pull box to zoom out
	Add route
	Search the historical vehicle information passing through a certain region
	Map full screen display
	Set the current map position to the position by default when the client is opened

5.3.2 My map

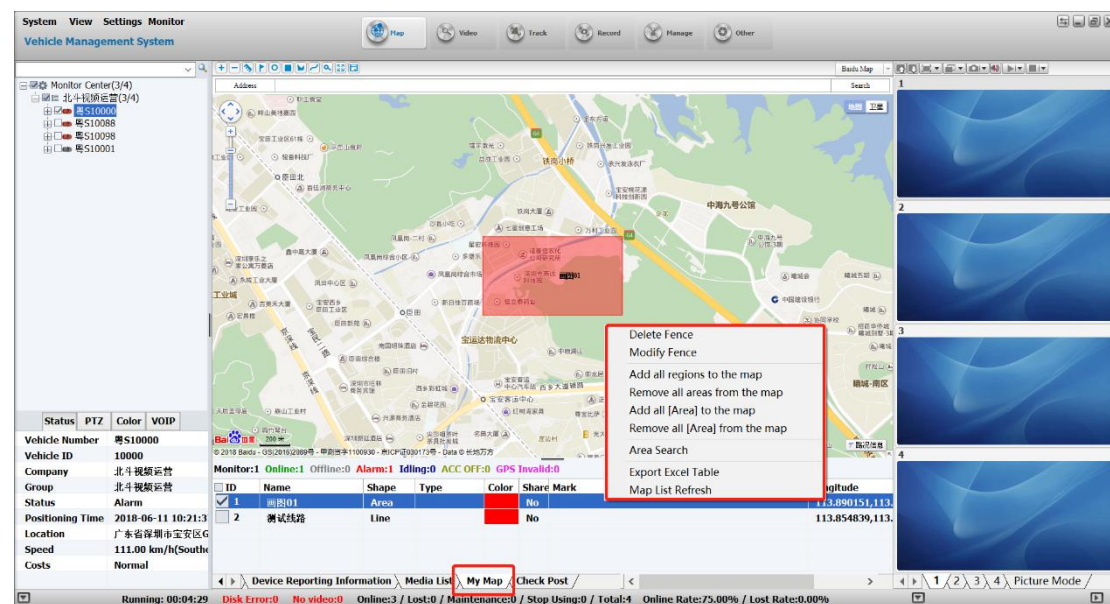
Add the customized point, rectangle and polygon and add the line, and adopt the same operation. The following operation steps take the "add the rectangle" as an example.

1. Click the "add the rectangle" button and then drag the mouse on the map to draw the rectangle and pop up the "add the rectangle" window
2. Input the region name and select the region color to be displayed, and then select the region type and then input the description.

If the option - "Allow other users to view" is ticked, other users can view the current rectangular region set by the user, otherwise, other users will not view this region, and at this moment, the "Confirm" can be clicked to view the information of region just added in the list of "My map" ->



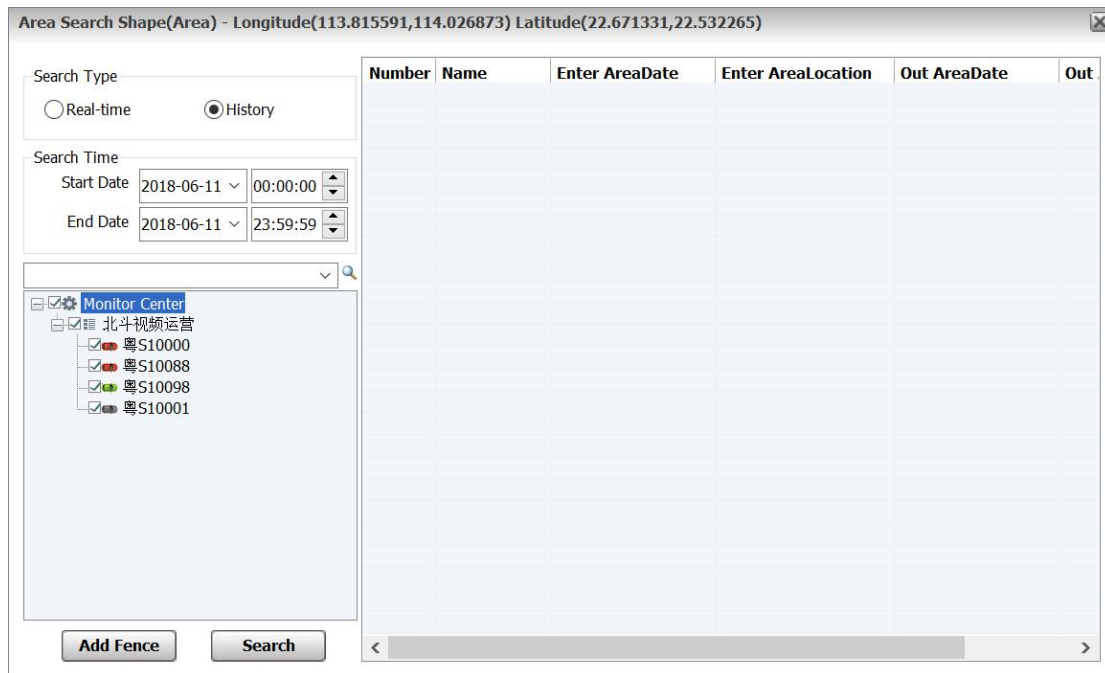
3. Remove and delete the electronic fence region



- 1) If the user does not want to display the electronic fence region on the map, it can tick out the corresponding region
- 2) If the user does want to delete the electronic fence region, he can select the corresponding region on the map and click the right key, and then click the "delete region" in the menu

5.3.3 Region search

Click the "search" button and select the region and then drag the mouse on the map to draw the rectangle and pop up the "region search" window, as the figure below:



Set up the search conditions and click the "search" button, and if the vehicle selected in the drawn region drives, it will display in the list.

5.3.4 Information bar

Display: Definition of vehicle color, GPS monitoring, alarm information, system events, equipment report information, etc. As the figure below

Monitor:2 Online:2 Offline:0 Alarm:1 Idling:0 ACC OFF:0 GPS Invalid:0					
ID	Name	Positioning Time	Position	Speed	Drive Recorder Spe. D
1	粤S10000	2018-06-11 10:22:57	广东省深圳市宝安区G4(京港澳高速)	105.00 km/h(East)	0.00 km/h
2	粤S10098	2018-06-11 10:22:57	广东省深圳市宝安区G107(机场立交桥)	23.00 km/h(South)	0.00 km/h

Navigation bar: Monitoring / Alarm Information / System Event / Device Reporting Information

5.4 Real-time preview

Log in client platform and real-time video preview in the video window can be realized by direct double-click of the equipment in the equipment list. The user can also open the channel video of the designated equipment on the designated video preview window and select a certain channel to drag it to the designated window for previewing (the time of the previewing the video picture and the installed equipment video picture shall be synchronous).

5.4.1 Introduction to video form toolbar



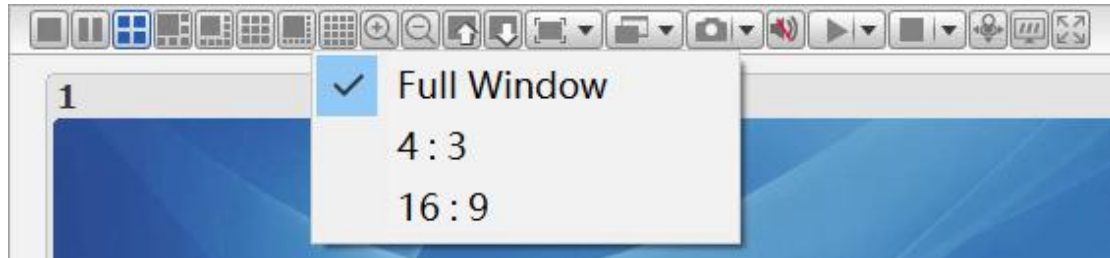
Frames of video window mode 1, 4, 6, 8, 9 and 16 are shown in the following figure



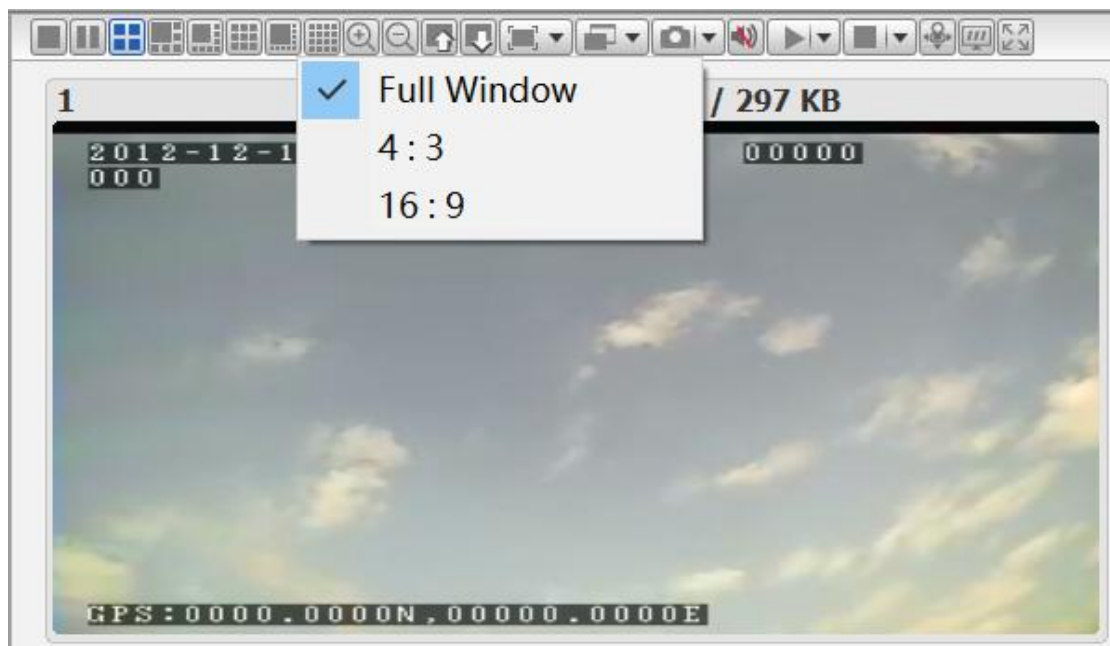
The page up and down function of video window is shown in the figure below



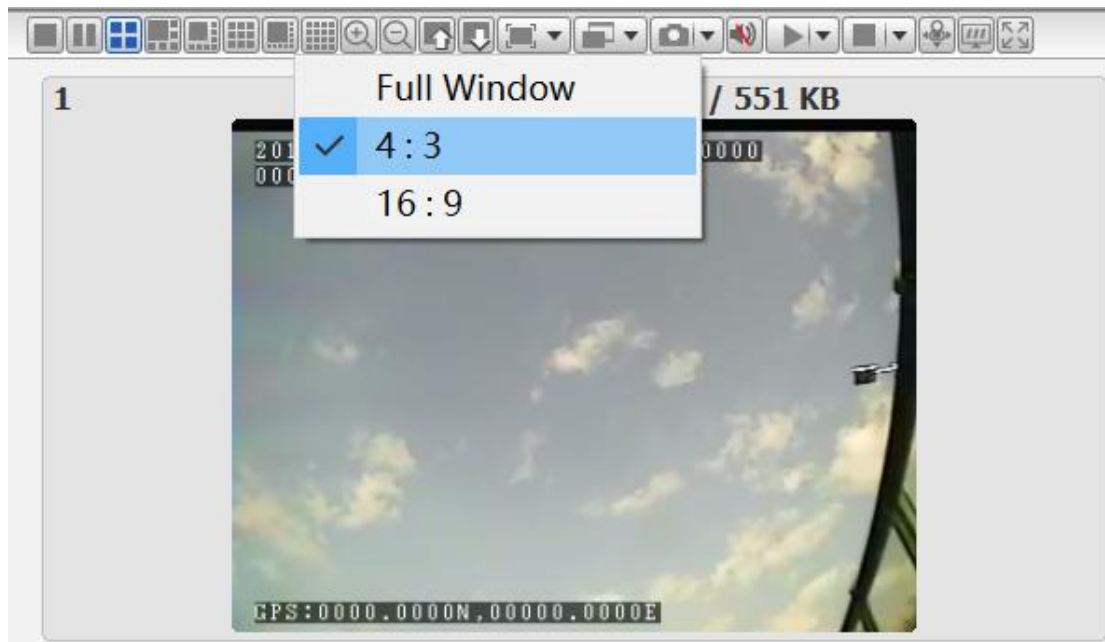
Video frame display mode: 1-Display of full screen 2- 4:3 display 3- 16:9 display



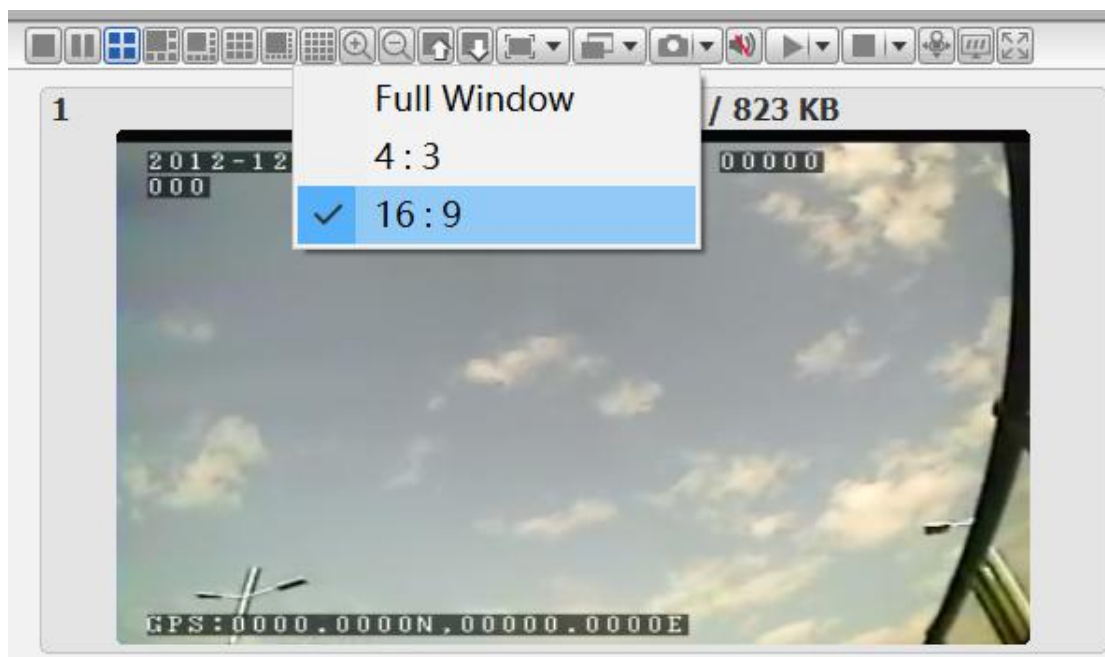
Full picture display effect: Display the video on the video window in the manner of full screen



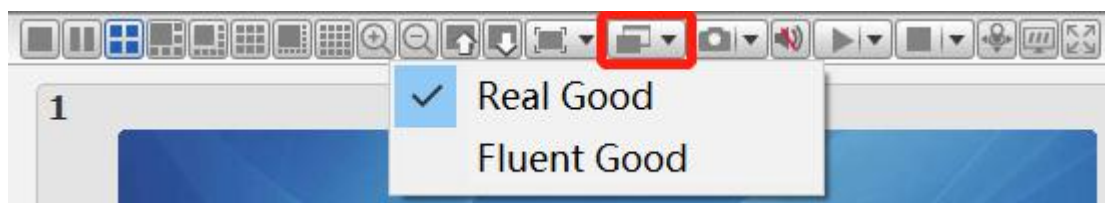
4:3 display effect: Video is displayed based on aspect ratio of 4:3



16:9 display effect: Video is displayed based on aspect ratio of 16:9



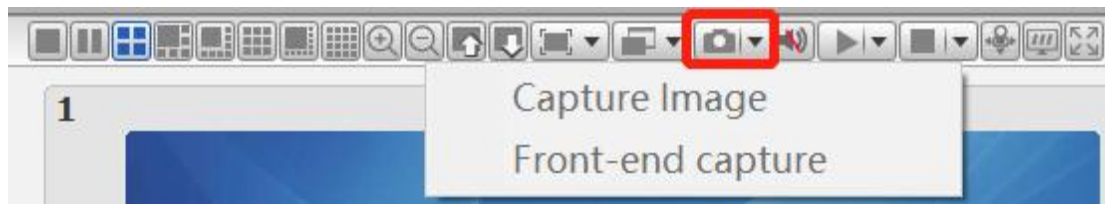
Selection of video effect:



Good real-time: Giving priority to ensuring video instantaneity

Good fluency: Giving priority to ensuring video fluency

Snapshot:



Snapshotted picture: Snapshot the picture on the client (first open the video preview)

Front-end snapshot: Snapshot the picture on the equipment end (do not need to open the video preview)

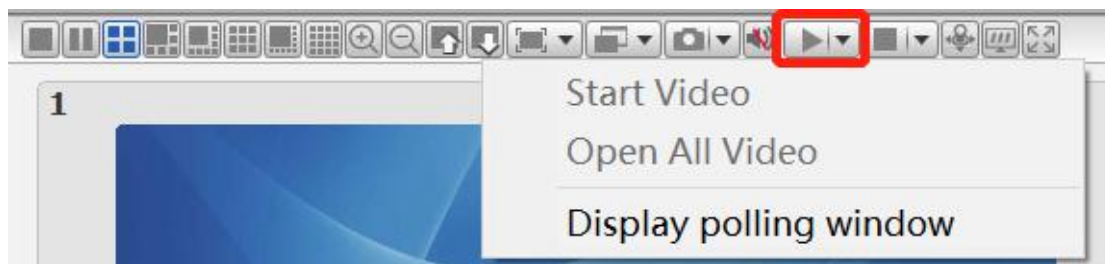
Execute the picture snapshot operation on the equipment (the equipment software version is required), and if there is no SD card or hard disk (memory equipment) installed on the equipment, the snapshot will not be successful

Sound:

Close and open the sound



Open the video:



Start up the video: Start up the default video on the current focus window (as the last time of playing the video channel on this window)

Open all videos: Start up the default video on all windows

Stopping videos:



Stopping videos: Stop the video on the current focus window

Stop all videos: Stop the video on all windows

Clear data: Clear the memory video channel information on the current focus window

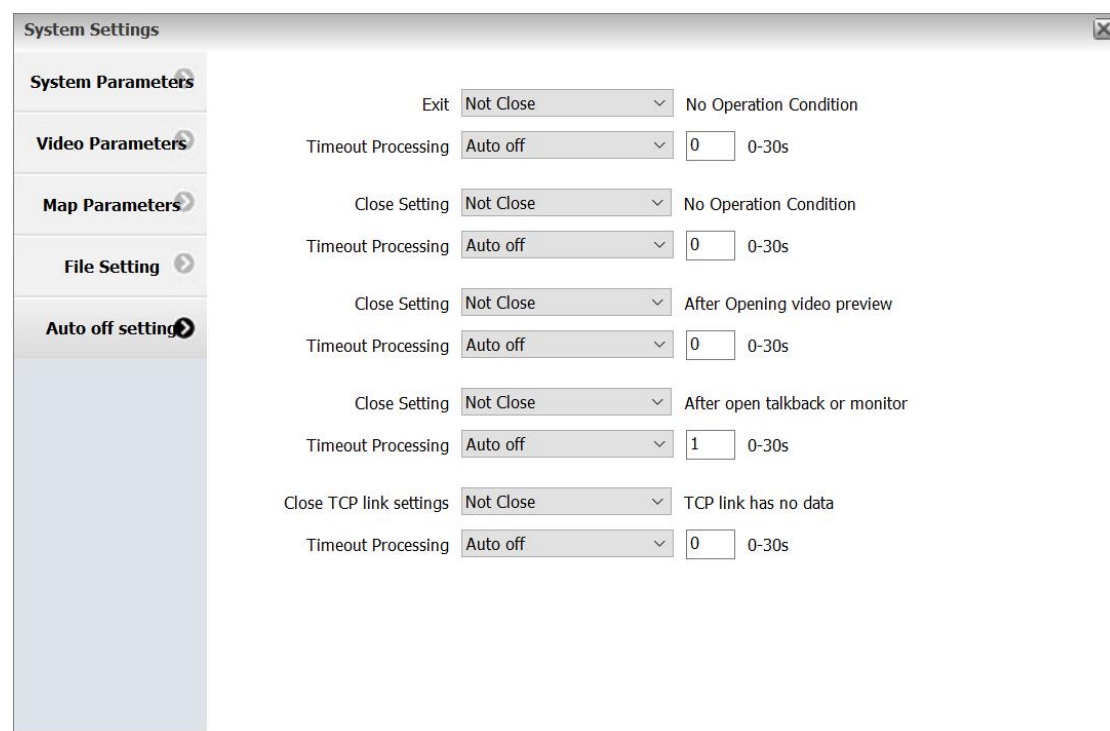
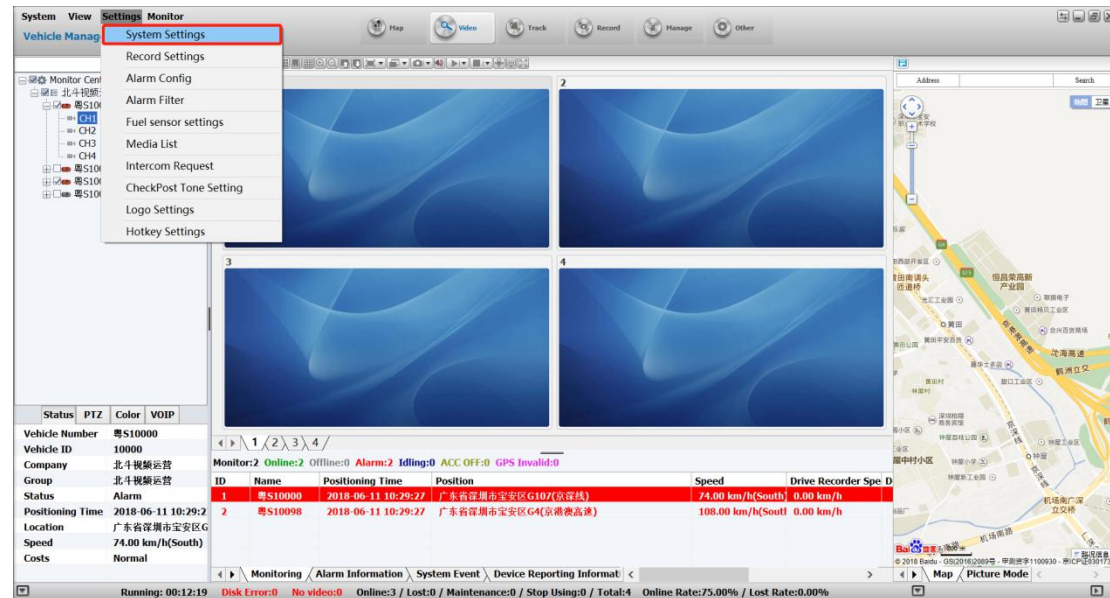
Clear all data: Clear the memory video channel information on all windows

5.4.2 Automatic closure of the video

Avoid that the window forgets to be turned off due to the video in the opening status, causing the flow waste, for which the client provides the function configured with the "automatically close the video".

A. First click the "other applications" and then click the "system setting"

B. Click the "system setting" in the "setting" of menu bar to open the "system setting" window, shown in the figure below:



System parameters

System language: Simplified Chinese, English, traditional Chinese, Turkish and Thai language

Interface style: by default (gray) and blue.

Image snapshot: Set up the save path of the snapshotted picture.

Damage time: 72 by default, representing that if the equipment is offline for 72 hours, it shall be deemed to be damaged. For this case, check whether the equipment is damaged.

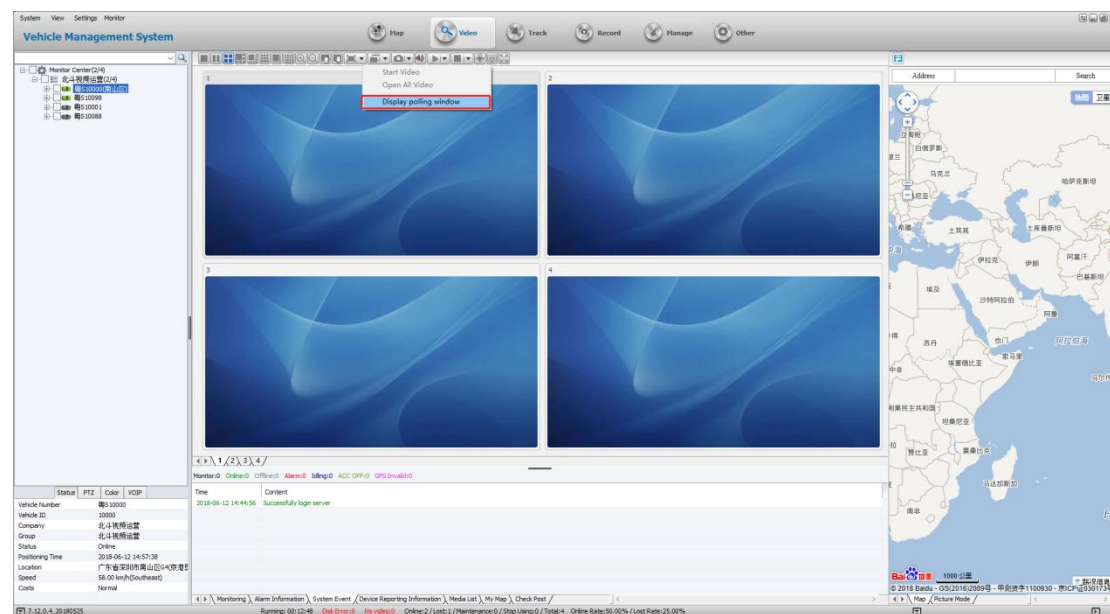
Video parameter

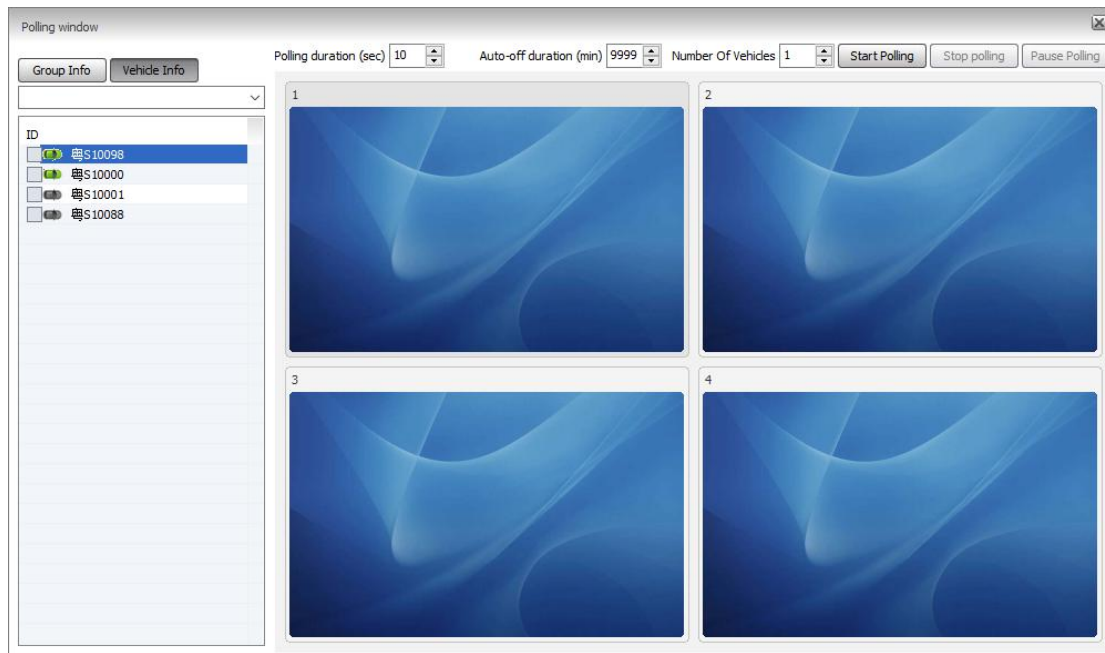
Polling duration: It refers to the polling interval of each channel playing when the polling video is set up.

Closing of intercom and monitoring: Set up the time of automatically closing the intercom and monitoring

Setting of closing the video: Set up the time of automatically closing the real-time video preview of client

5.4.3 Video Polling

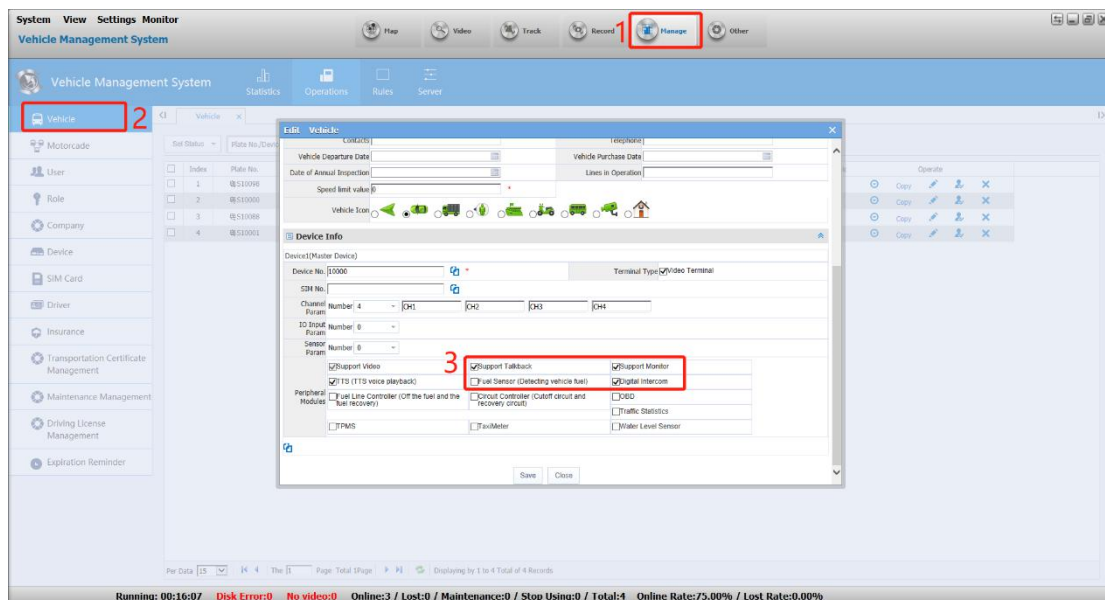




5.5 Voice Intercom and Monitoring

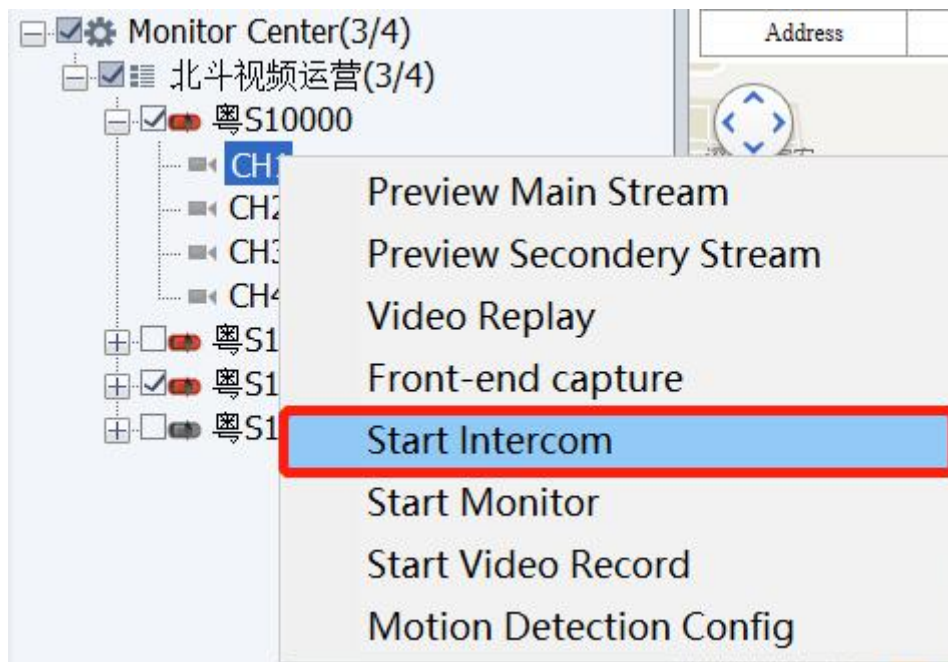
The user can carry out monitoring and intercom to manage his equipment on the client side.

The prerequisite is to install talkback equipment on the equipment side and select the peripheral modules on the equipment information option card at the same time.

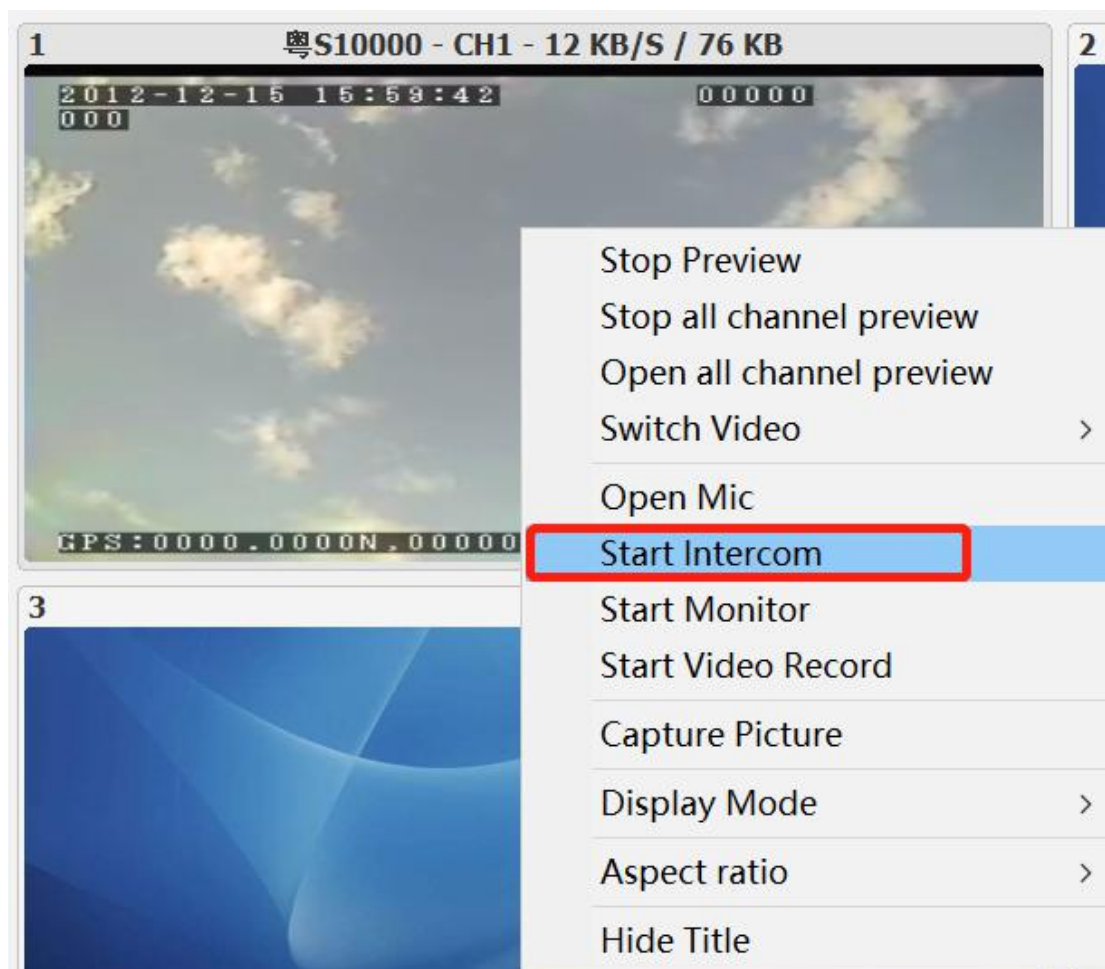


5.5.1 Voice Intercom

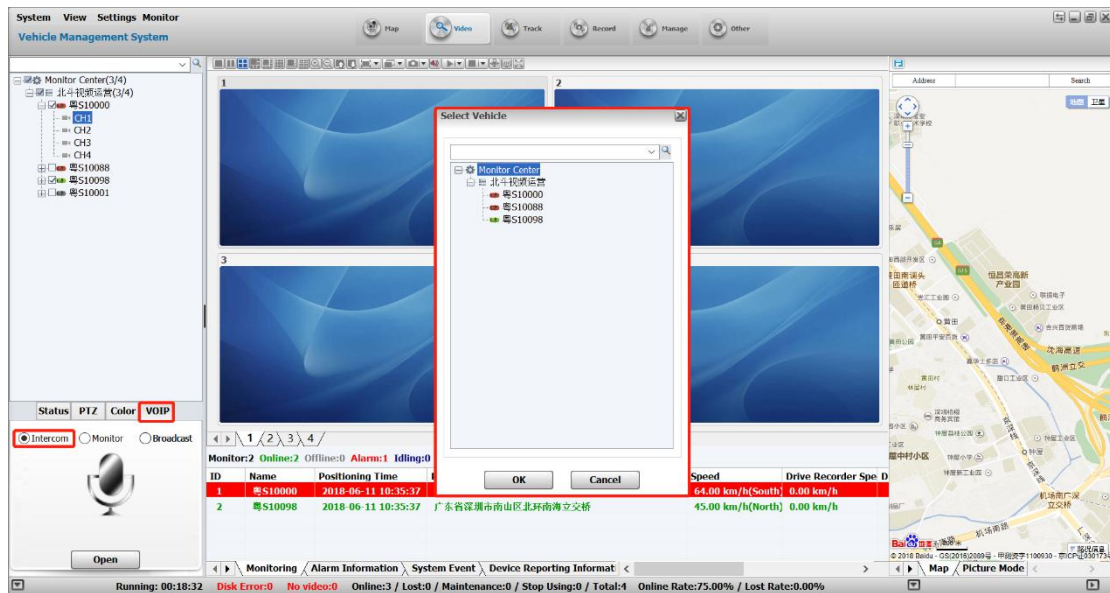
A. Select the channel of the equipment to be talked back in the terminal list, right-click and select "Start to Talk" from the menu that appears.



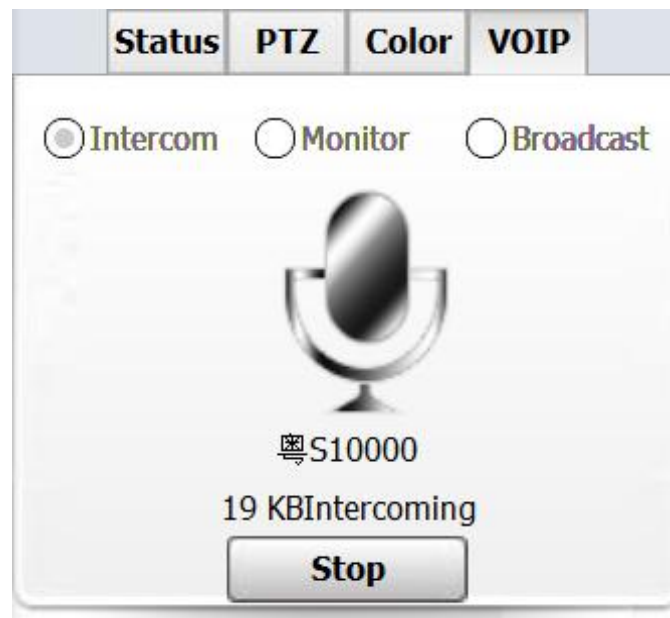
B. Open the real-time video preview of the equipment, or right-click to pop up the menu, which can also select the intercom option.



C. Select the intercom function first, then select the equipment

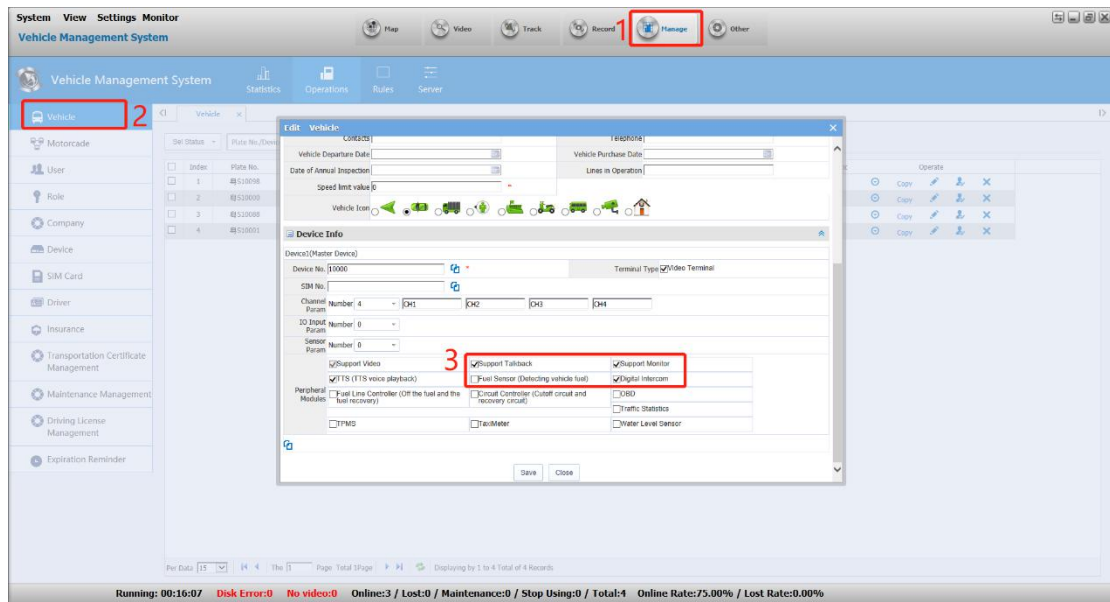


After opening the intercom, the pop-up interface is as shown below:



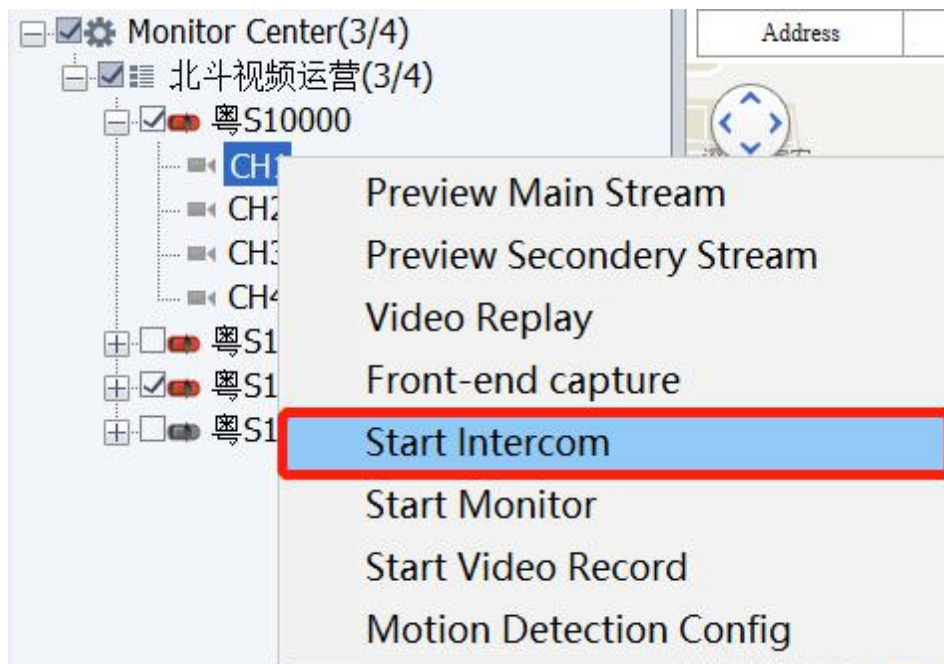
5.5.2 Digital Intercom

The prerequisite is to install digital intercom equipment on the equipment side and select the peripheral modules on the equipment information table at the same time.



1) Client side digital intercom operation

Select the equipment, right-click and click "Open Intercom" in the menu



Digital Intercom page

Intercom

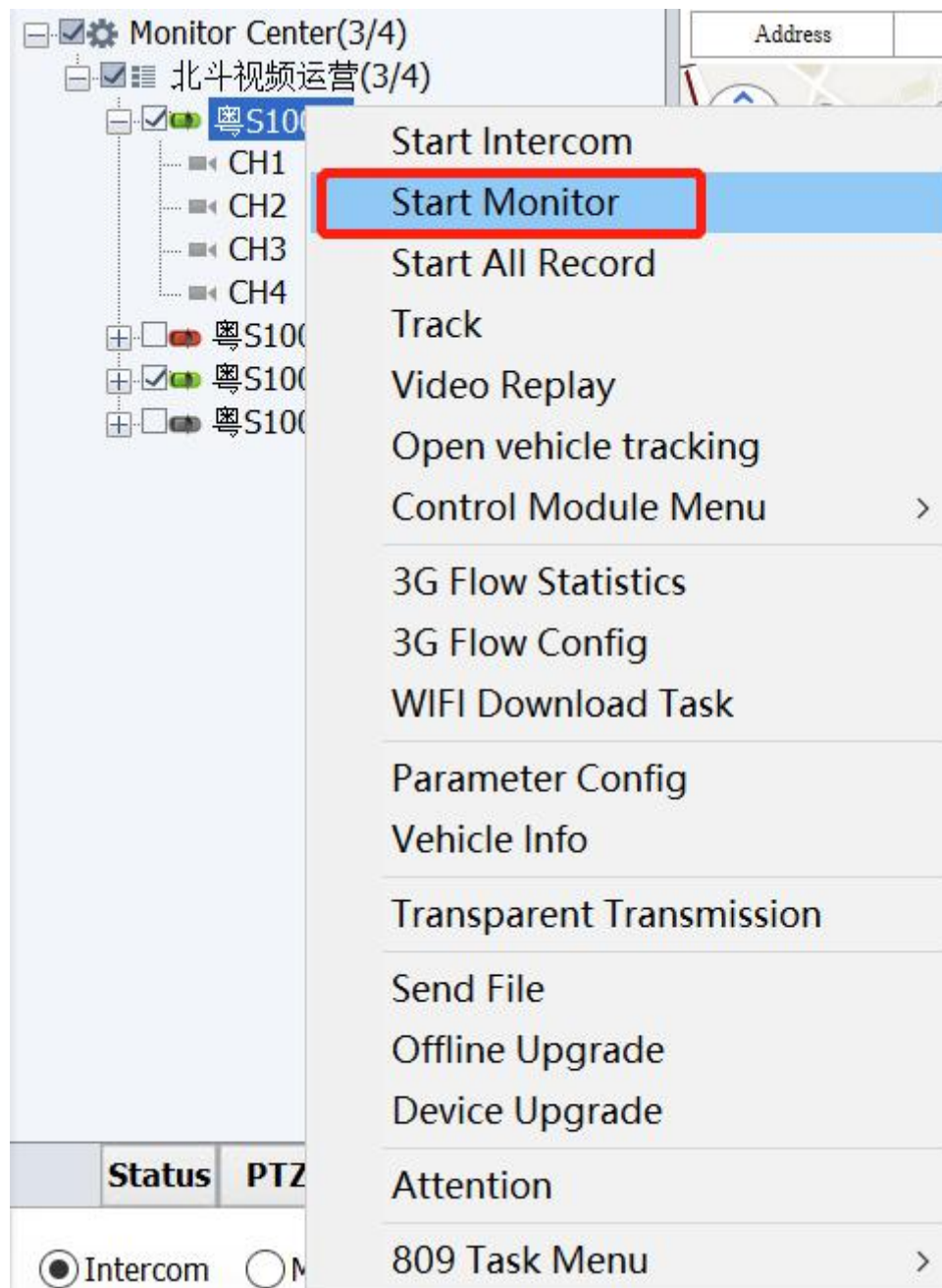
Load intercom control failure, unable to talk.

COM	COM1
Baud Rate	115200
IP	219.148.36.46
Port	12030
EquipmentID	
Password	
Device Name	
Group	

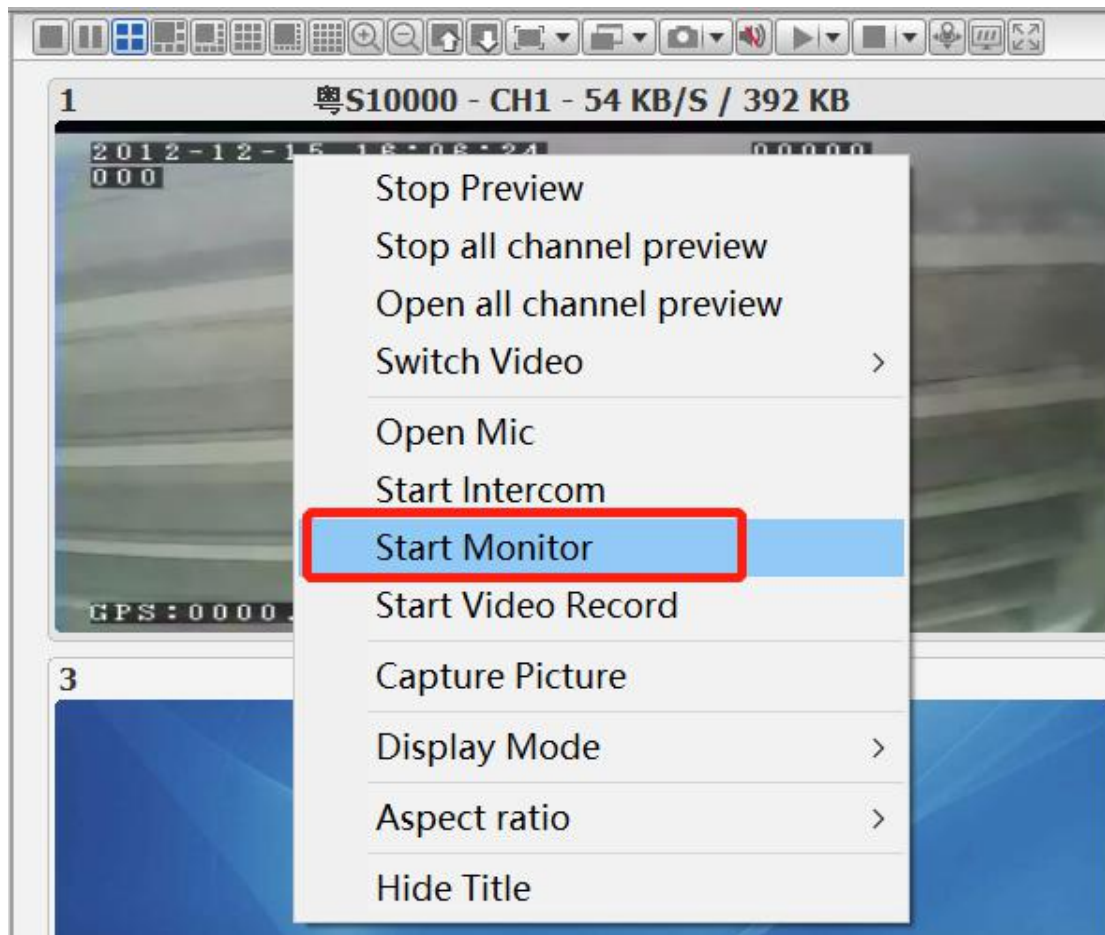
OK Temporary

5.5.3 Monitoring

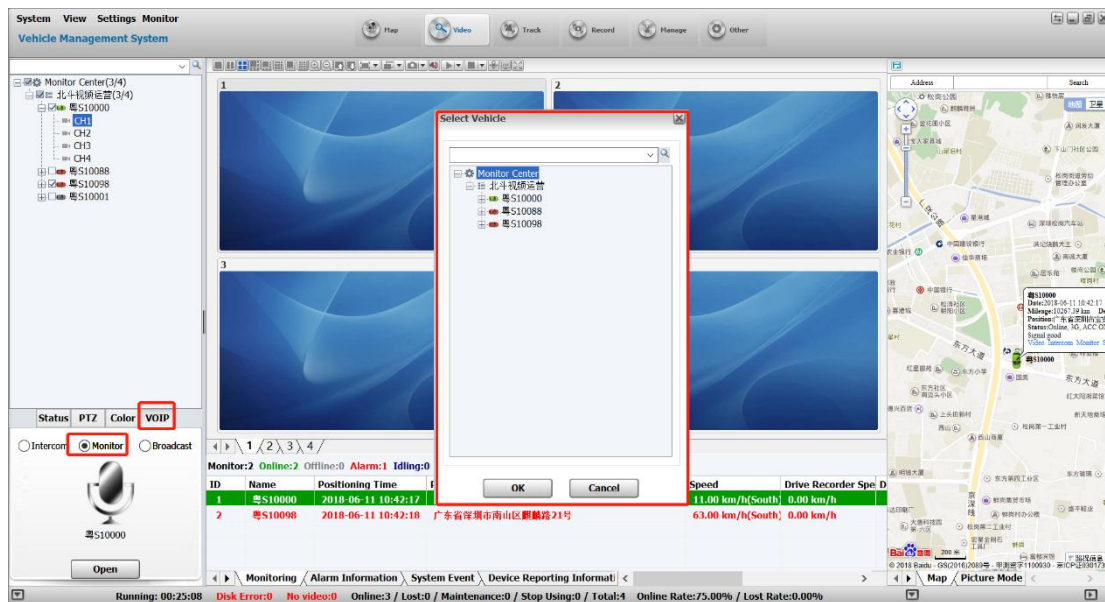
A. Select the equipment to be monitored in the terminal list, right-click and select "Start to Monitor" from the menu that appears.



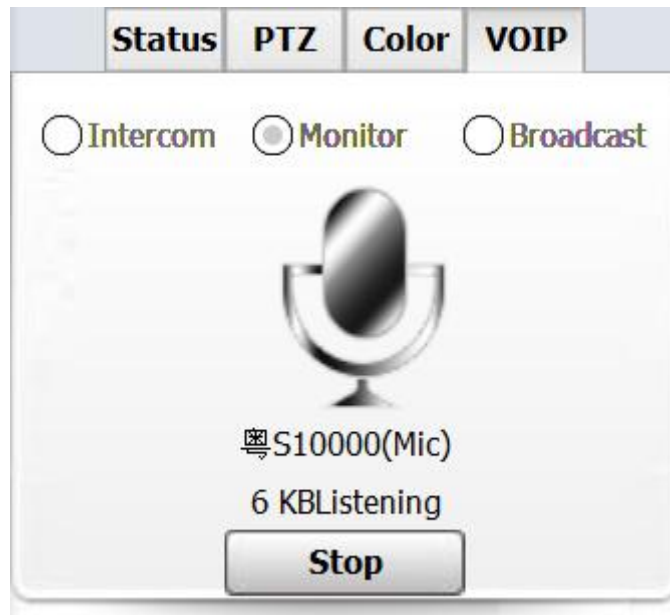
B. Open the real-time video preview of the equipment, or right-click to pop up the menu, which can also select the monitor option.



C. Select the monitor function first, then select the equipment

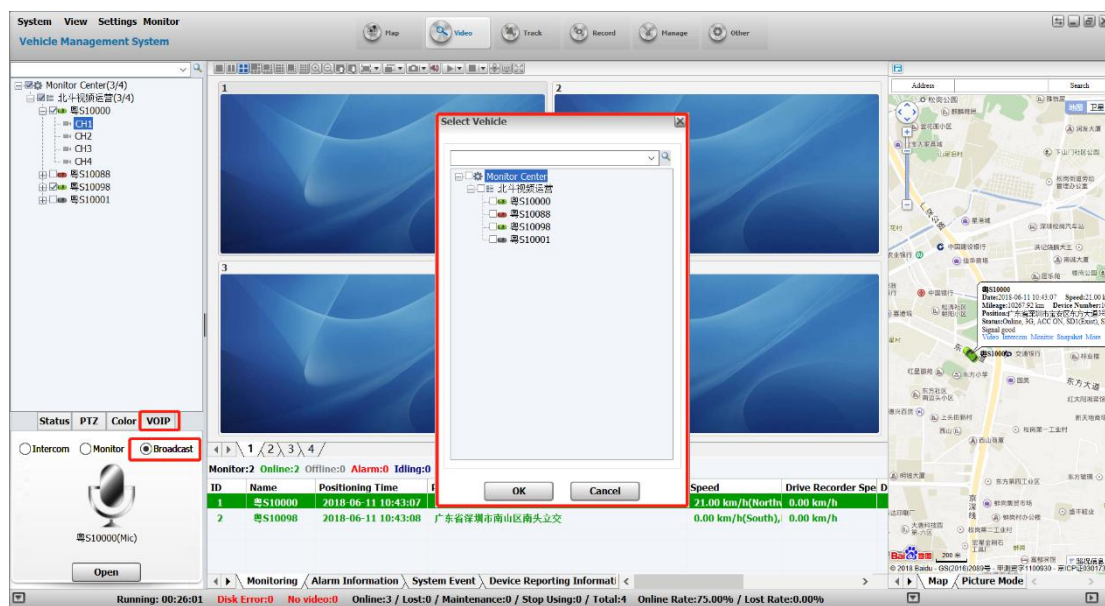


After opening the monitor, the pop-up interface is as shown below:



5.5.4 Broadcast

- 1) Select the equipment to be broadcasted.



- 2) After turned on the broadcast, the following figure is displayed



5.6 Track Playback

The user can specify the equipment to search for the trajectory according to the specified conditions, and export the related data as required.

The screenshot shows the 'Vehicle Management System' interface. The top menu bar includes System, View, Settings, and Monitor. The main window is divided into several sections:

- Search the terminal:** A dropdown menu showing '粤S10000(10000)'.
- Date:** Start time: 2018-06-11 00:00:00, End time: 2018-06-11 23:59:59.
- Other:** Spacing: 0 KM, Parking: 3 Minute, Mileage: 32.56 km.
- Mode:** Normal (selected), Fast.
- Show:** Show track points (checked), Display a device GPS (unchecked).
- Speed:** A slider bar.
- Position:** A slider bar.
- Buttons:** File, Search.
- Map:** A map of Shenzhen, China, showing the vehicle's trajectory.
- Track Playback Table:**

Number	Date	Position	Description
9 10000	2018-06-11 10:14:16	广东省深圳市南山区北环南路	Speed:34.00 km/h(East),Mileage:0.52/10
10 10000	2018-06-11 10:14:26	广东省深圳市南山区北环南路	Speed:41.00 km/h(Northeast),Mileage:0.73/10
11 10000	2018-06-11 10:14:36	广东省深圳市南山区北环南路	Speed:39.00 km/h(South),Mileage:0.94/10
12 10000	2018-06-11 10:14:46	广东省深圳市南山区北环南路	Speed:62.00 km/h(South),Mileage:1.19/10
13 10000	2018-06-11 10:14:56	广东省深圳市南山区北环南路	Speed:75.00 km/h(South),Mileage:1.39/10
14 10000	2018-06-11 10:15:06	广东省深圳市南山区南海大道	Speed:70.00 km/h(South),Mileage:1.58/10
15 10000	2018-06-11 10:15:16	广东省深圳市南山区南海大道	Speed:49.00 km/h(South),Mileage:1.75/10
16 10000	2018-06-11 10:15:26	广东省深圳市南山区南海大道	Speed:30.00 km/h(South),Mileage:1.86/10
17 10000	2018-06-11 10:15:36	广东省深圳市南山区南海大道	Speed:36.00 km/h(East),Mileage:1.95/10
18 10000	2018-06-11 10:15:46	广东省深圳市南山区南海大道	Speed:36.00 km/h(East),Mileage:2.04/10
19 10000	2018-06-11 10:15:56	广东省深圳市南山区南海大道	Speed:36.00 km/h(East),Mileage:2.13/10
- Area List:** A table with columns #, Type, Time, and Title.
- Query results list:** A table with columns Num, Name, Driver Name, TEL, and Co.
- Status Bar:** Running: 00:27:42, Disk Error: 0, No video: 0, Online: 3 / Lost: 0 / Maintenance: 0 / Stop Using: 0 / Total: 4, Online Rate: 75.00% / Lost Rate: 0.00%.

Interval: Upload a GPS data on every selected interval. If it is 0, upload a GPS data for every 10 seconds.

Stop interval:

0: Search for all parking gps points and show them

None 0: In case of continuous gps parking spot, only the last gps parking point data is uploaded to the platform.

Distance: Total mileage of the current vehicle on the day

Display:

Time: If checked, the time on the right side of the map will show the time of each GPS point of the vehicle (every selected interval represents a GPS point)







Speed: If checked, the driving speed on the right side of the map will show the time of each GPS point of the vehicle (every selected interval represents a GPS point)

Speed: Control the speed of track playback

Location:

c) Line: Changing from white lines to blue lines, representing the download progress of the trajectory data

d) Drag the button: Progress of trajectory playback

Icon	Function Introduction
	Open or pause the track playback
	Terminate the track playback
	Delete gps tracks searched
	Export searched gps tracks to Excel
	Add the searched trajectory as a line
	Searched track history record as a list

After clicking the "File" button

[illegible]

Local disk: Search for manual recordings to the local computer and video file that have been downloaded locally

Storage server: The equipment is configured with a storage plan to search for video files recorded on the storage server

Download server: Search for video file on the download server

File type

Video recording: Video files

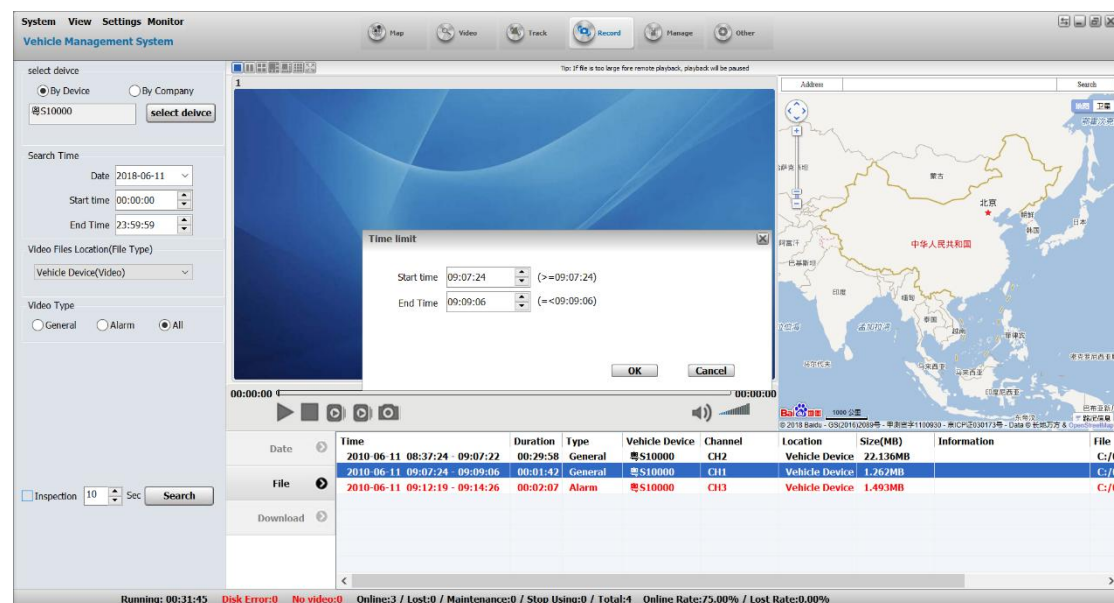
Image: Snapped pictures on the storage server

Video type

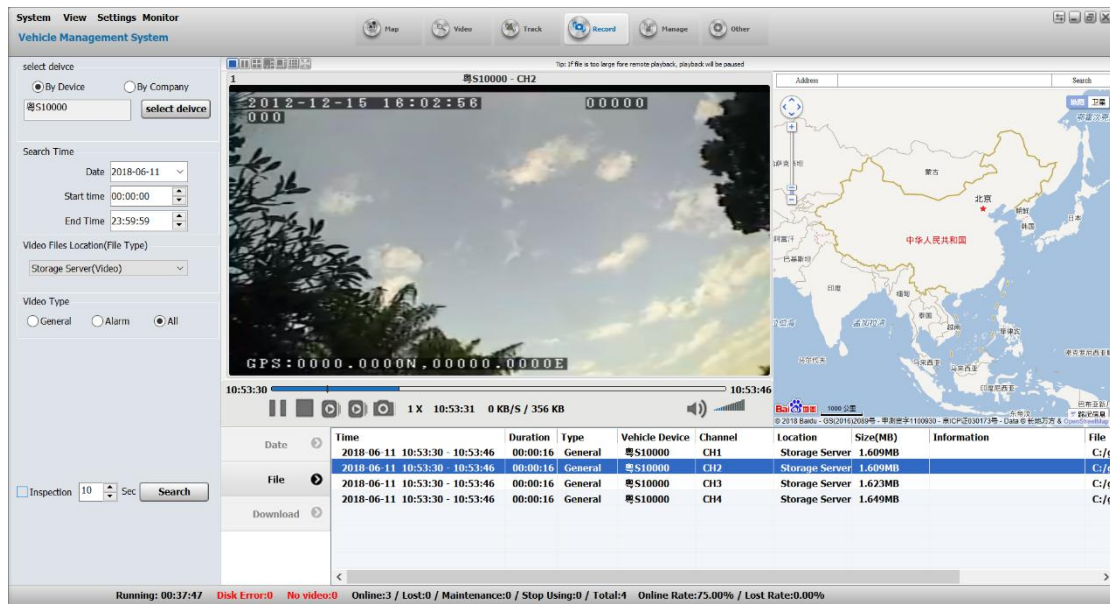
When searching for videos, there are three kinds of video search conditions: alarm video, regular video and all videos.

5.7.2 Video replay







After specifying the search condition, there is a list of searching file below, as shown below:



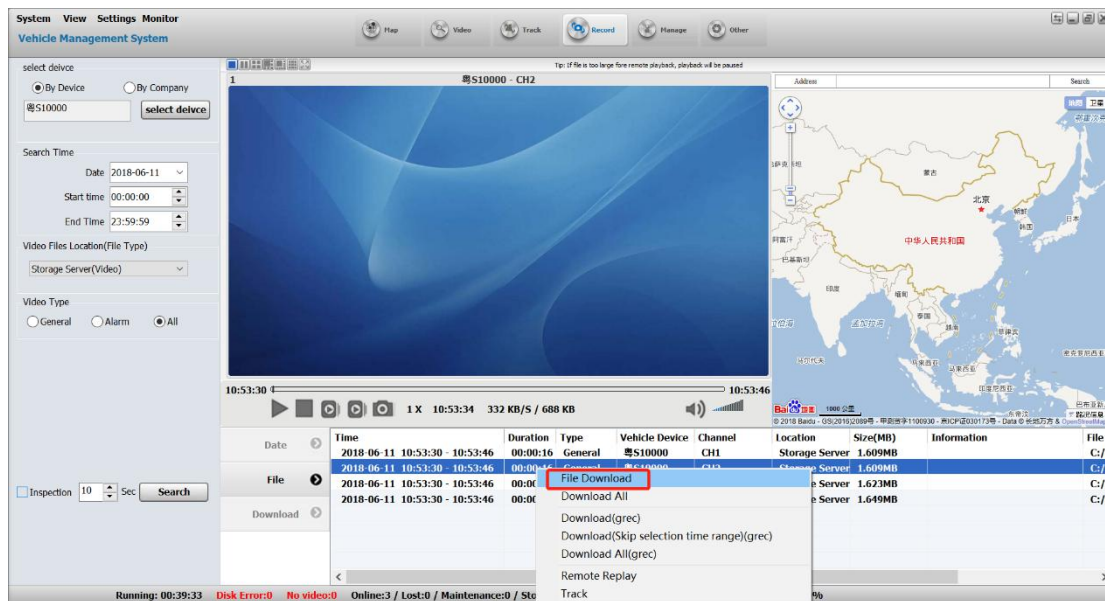
Select a channel file, right-click, pop-up menu, click "Video replay", as shown below



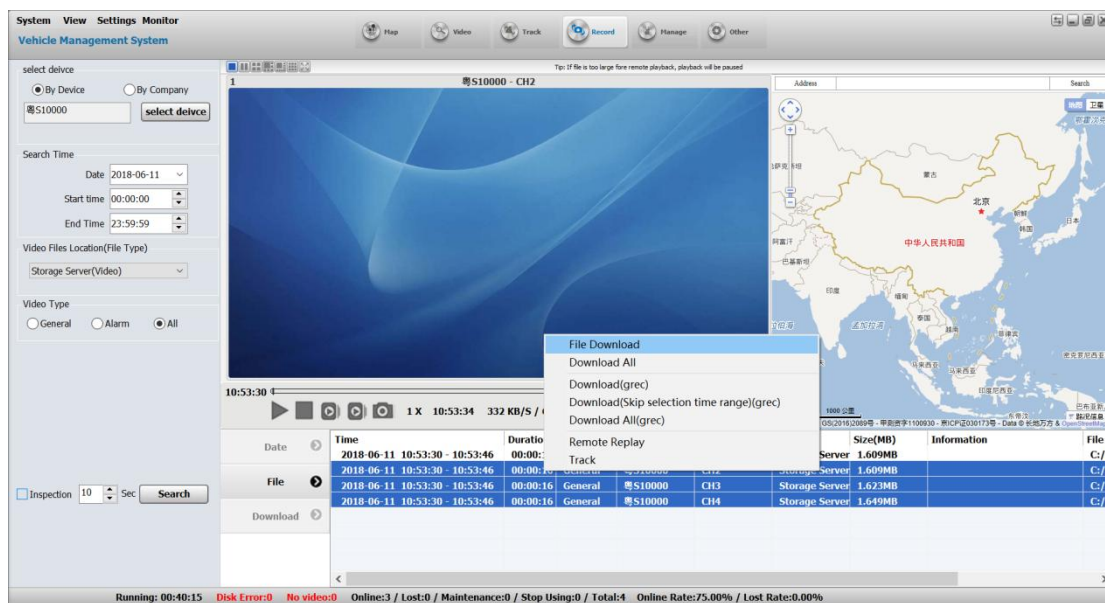
Icon function introduction:

Icon	Function Introduction
	Pause the Play
	Play
	Stop
	I-frame playback or stop
	Snapshotted picture
	Voice control

5.7.3 Video download



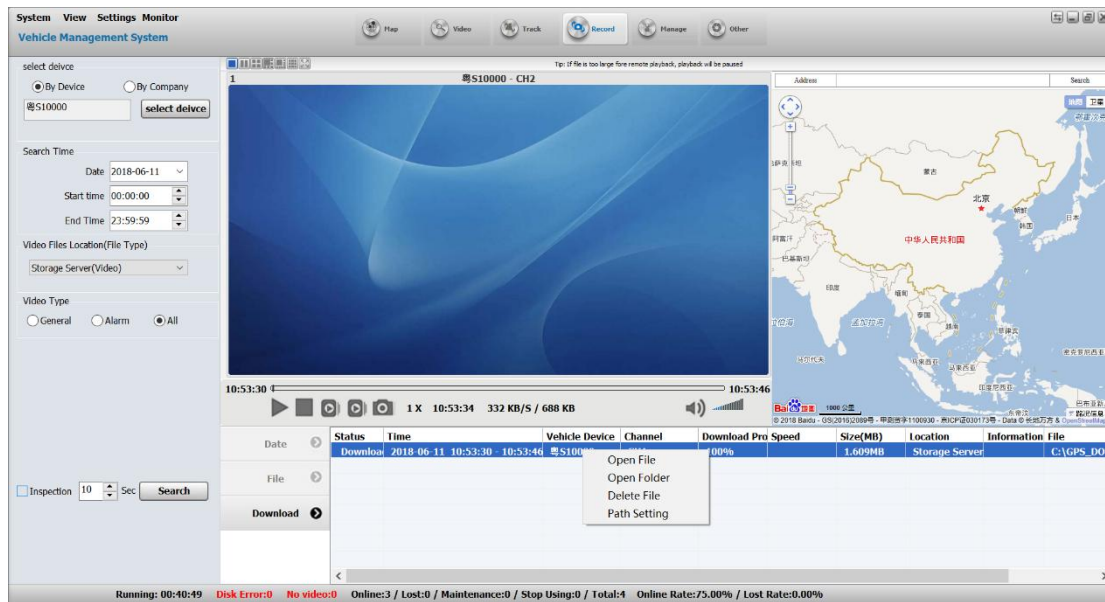
1. Select files of one channel, right-click, pop-up menu, click "Local Download" (can press ctrl key or ctrl + shift combination key for multiple selection)



2. Download other operations

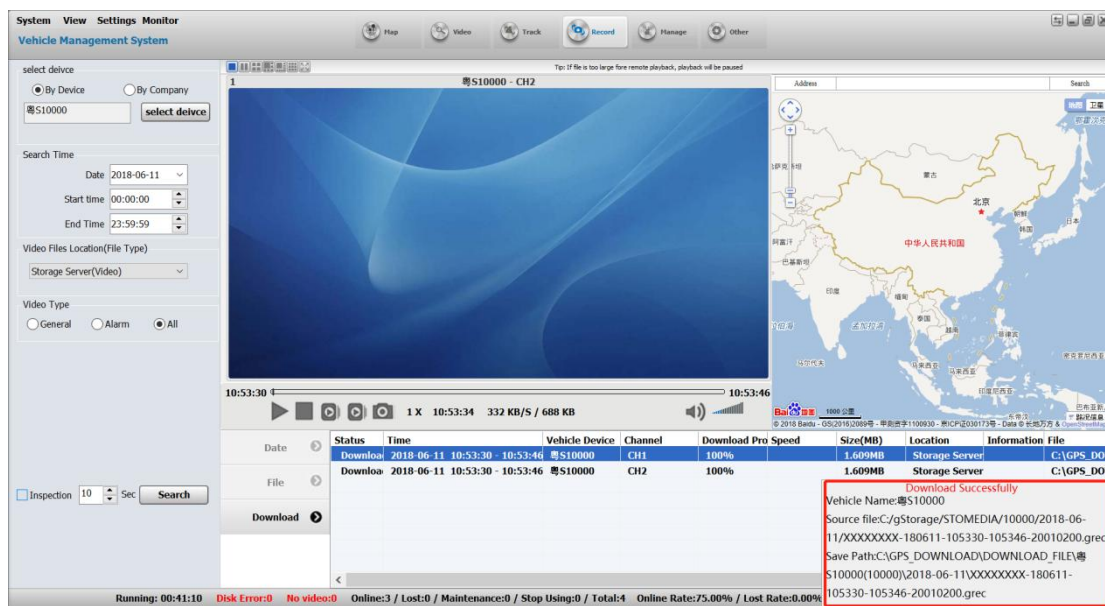
Select the file being downloaded, right-click, the menu is as shown below:

Pause, delete the download, and download path settings

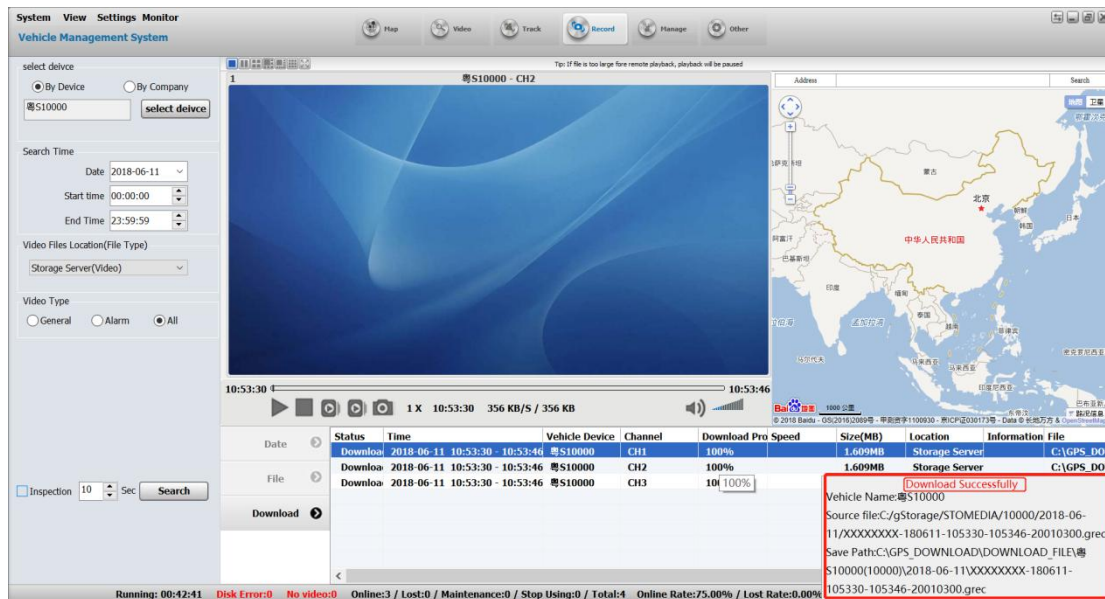


Note: When the file is being packaged, it cannot be downloaded, but can be played remotely. The download can only download already packed video file.

Download successfully



Downloading failed

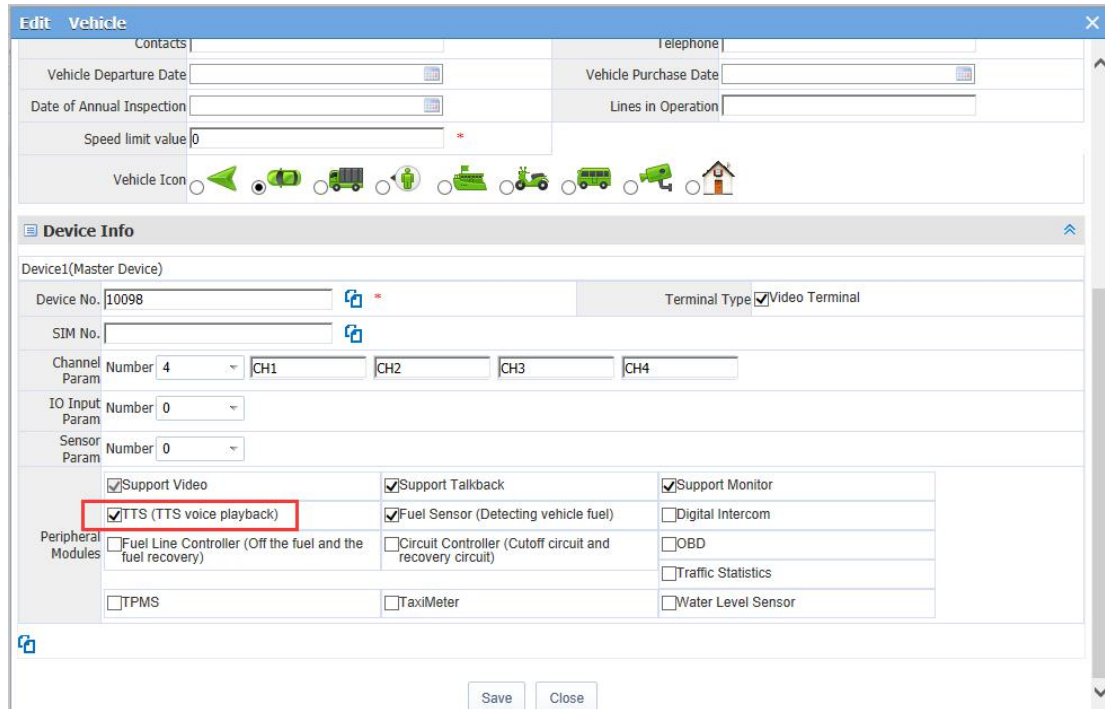


When the downloading of file is too large or the network speed is too slow, the file download progress will be affected. Even if the download fails, the video file can be played without being completely downloaded (the play length is the length of the downloaded video).

If the user does not log out of the client, click Continue Download in the context menu of the download list to continue downloading the video.

5.8 Issuance of literal information

5.8.1 Opening of TTS phonetic function by vehicle information management



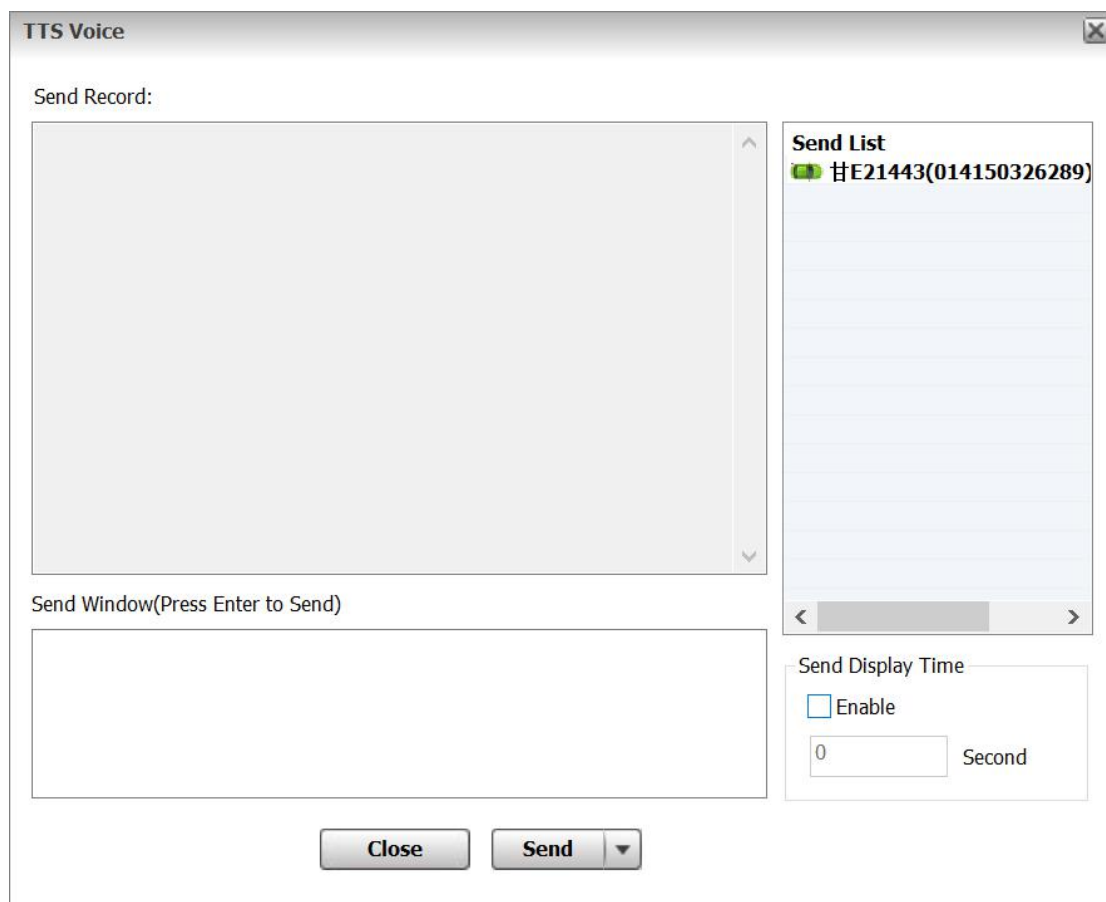
5.8.2 Operation of issuance function of client file

- Send a file to a single equipment

Select an equipment, right-click, and click "send literal information" in the menu.

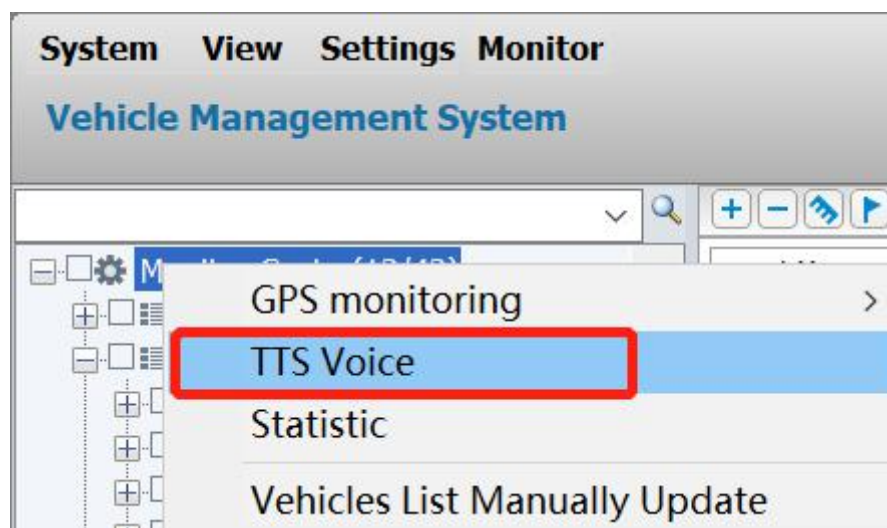
System	Start Intercom
Vehicle I	Start Monitor
	Start All Record
	Track
	Video Replay
	Open vehicle tracking
	Control Module Menu >
	Vehicle roll call
	Locale >
	Parameter Control >
	TTS Text
	Text Information
	3G Flow Statistics
	3G Flow Config
	Event Setting
	Questions Issued
	Information on demand menu settings
	Information services
	Callback
	Set phone book
	Vehicle Control
Statu	Query terminal properties
Vehicle N	Driving record data acquisition
Vehicle II	Driving record data upload >
Company	Set position tracking
Group	Multimedia Settings >
Status	Parameter Config
Positionir	parameter configuration (common)
Location	Downlink transmission data
Speed	Device Upgrade
Costs	Attention
	809 Task Menu >

Send TTS voice page as shown below



- Multiple equipment send files at the same time

Select the group or select "Monitor Center", right-click, open "send literal information" in the menu,



Send the literal information page as shown below

TTS Voice

Send Record:

Send Window(Press Enter to Send)

Close

Send

Send List

Send Display Time

☐ Enable

0

Second

5.8.3 Query of detail report about issued information in the statement

For the issued short information, the time and contents can be also inquired in the statement

System View Settings Monitor

Vehicle Management System

Statistics

Operations

Rules

Driving Behavior RPT

OL And OFL RPT

Alarm RPT

Mileage RPT

Driving RPT

Electronic Fence RPT

Fuel RPT

Fault Alarm RPT

Video Alarm RPT

IO Alarm RPT

Storage Media RPT

Device UPG RPT

Multimedia

Data Query

Reported Data Query

Issued Info Detail RPT

User Behavior RPT

Passenger Statistics RPT

Temperature RPT

Driver Punch Card Records

Passenger Report

Server Alarm Report

Issued Info Detail RPT

Set Time: Custom Time

Start Time: 2018-06-11 00:00:00

End Time: 2018-06-11 23:59:59

Query

EXP File Format

Vehicle: All Vehicle

Index	User	Plate No.	Plate Color	Department	Time	Command
No record						

Per Data: 13

Page: 1/1

Total Page: 1

Running: 00:05:52

Disk Error: 0

No video: 0

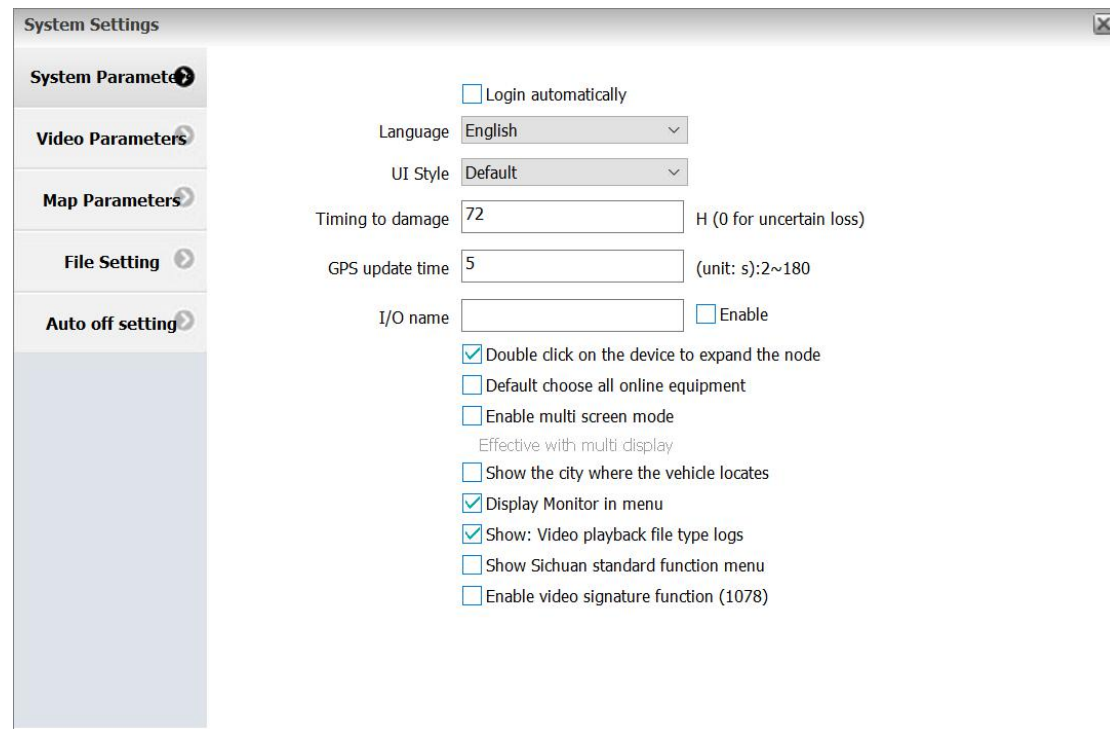
Online: 12 / Lost: 5 / Maintenance: 0 / Stop Using: 0 / Total: 42

Online Rate: 28.57% / Lost Rate: 11.90%

5.9 Monitoring platform 809 function

5.9.1 Viewing connection status of monitoring platform

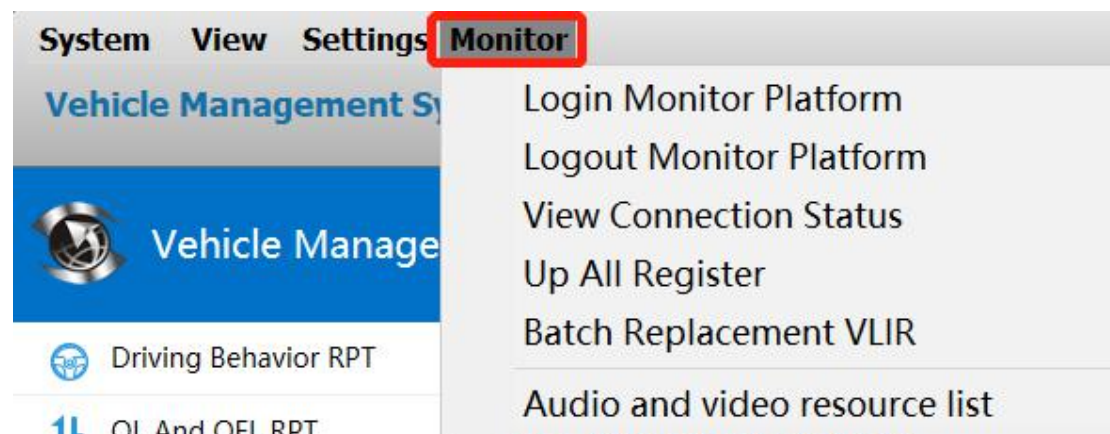
Start 809 Business in System Settings Selection



The screenshot shows the 'System Settings' window with a sidebar on the left containing the following categories: System Parameters, Video Parameters, Map Parameters, File Setting, and Auto off setting. The main area displays the following settings:

- ☐ Login automatically
- Language: English (dropdown)
- UI Style: Default (dropdown)
- Timing to damage: 72 (input field) H (0 for uncertain loss)
- GPS update time: 5 (input field) (unit: s):2~180
- I/O name: (input field) ☐ Enable
- ☒ Double click on the device to expand the node
- ☐ Default choose all online equipment
- ☐ Enable multi screen mode
- Effective with multi display
- ☐ Show the city where the vehicle locates
- ☒ Display Monitor in menu
- ☒ Show: Video playback file type logs
- ☐ Show Sichuan standard function menu
- ☐ Enable video signature function (1078)

Check the connection status, log off the supervision platform, login supervision platform



5.9.2 Request to the monitoring platform

System	Vehicle	
		Start Intercom
		Start Monitor
		Start All Record
		Track
		Video Replay
		Open vehicle tracking
		Control Module Menu >
		Vehicle roll call >
		Locale >
		Parameter Control >
		TTS Text
		Text Information
		3G Flow Statistics
		3G Flow Config
		Event Setting
		Questions Issued
		Information on demand menu settings
		Information services
		Callback
		Set phone book
		Vehicle Control
		Query terminal properties
		Driving record data acquisition
		Driving record data upload >
		Set position tracking
		Multimedia Settings >
		Parameter Config
		parameter configuration (common)
		Downlink transmission data
		Device Upgrade
		Attention
		809 Task Menu >
		Up Single Register
		Replacement VDIR
		Application EVLIR
		Replacement VLIR
		Cancel EVLIR
		Alarm Handle Report

Map

甲测资字1100930 - 京ICP证030173号 - Data

Offline:0 Alarm:0 Idling:0 ACC

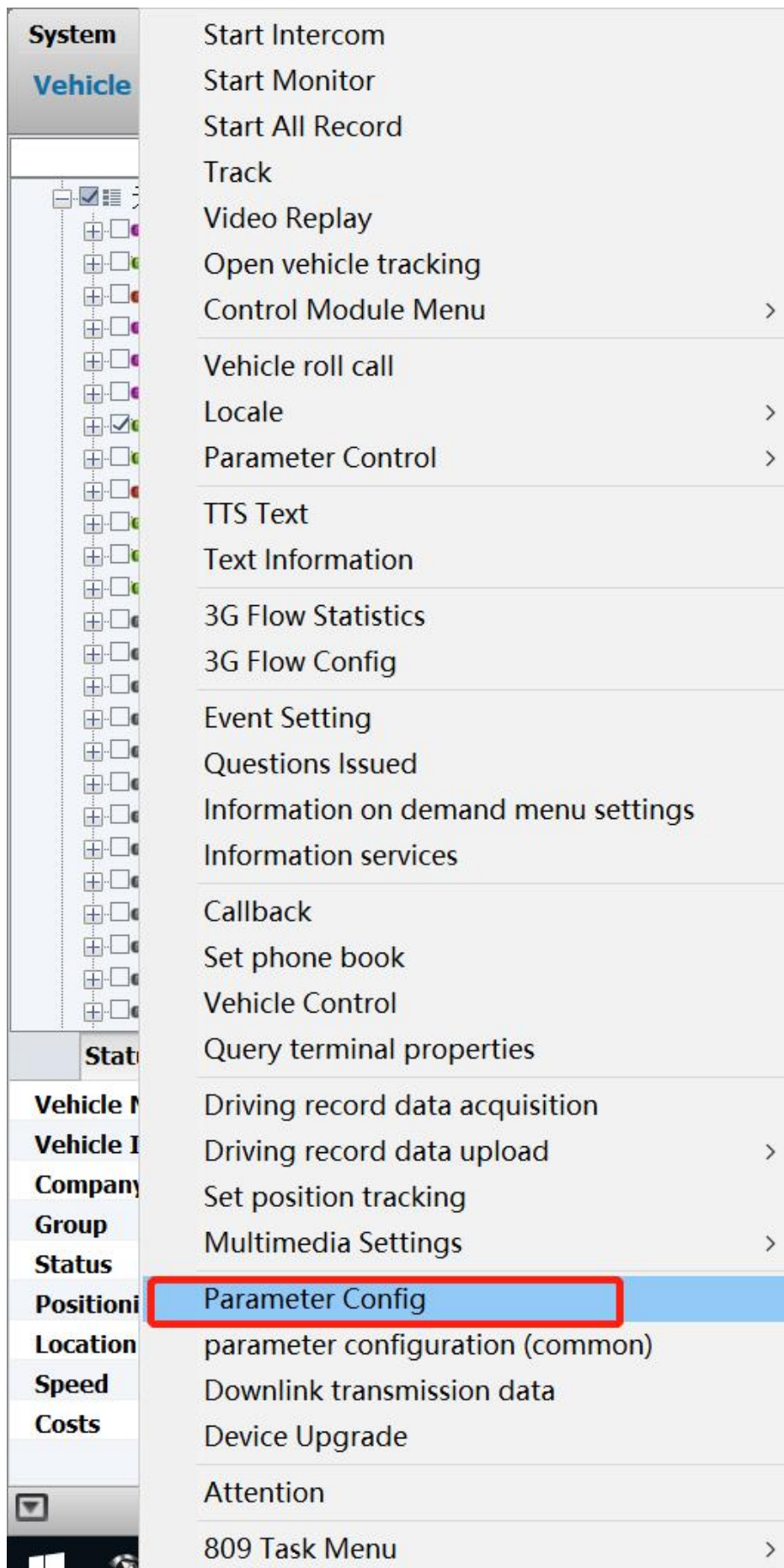
Content

Successfully login server

5.10 Function setting

5.10.1 Parameter configuration: Remote modification of the equipment parameters

Right-click vehicle, as shown below



Device Settings

Call / Monitor settings

Vehicle Settings

Server Settings

Alarm settings

GNSS settings

Interval Photo

Registered parameter settings

<input checked="" type="checkbox"/>	Provincial ID	<input type="text" value="44"/>	(0~65535)
<input checked="" type="checkbox"/>	City Domain ID	<input type="text" value="303"/>	(0~65535)
<input checked="" type="checkbox"/>	License plate number	<input type="text" value="粤B88888"/>	(Less10Bit)
<input checked="" type="checkbox"/>	Plate color	<input type="text" value="Blue"/>	

Terminal link parameter settings

<input checked="" type="checkbox"/>	Terminal heartbeat transmission interval	<input type="text" value="180"/>	(0~999999) (s)
<input checked="" type="checkbox"/>	TCP message response timeout	<input type="text" value="5"/>	(0~999999) (s)
<input checked="" type="checkbox"/>	TCP message retransmission times	<input type="text" value="3"/>	(0~999999)
<input checked="" type="checkbox"/>	UDP message response timeout	<input type="text" value="0"/>	(0~999999) (s)
<input checked="" type="checkbox"/>	UDP message retransmission times	<input type="text" value="0"/>	(0~999999)
<input checked="" type="checkbox"/>	SMS message response timeout	<input type="text" value="0"/>	(0~999999) (s)
<input checked="" type="checkbox"/>	SMS message retransmission times	<input type="text" value="0"/>	(0~999999)

Clean

[11:34:08]
QueryParameterSuccess
[11:34:06]
QueryParameter.....

Set **Query**

Tip: Setting with check boxes will not be issued when unchecked

5.10.2 Event setting

According to the equipment selected by the platform, all events can be deleted, modified, deleted specific events, adding events, and the number of events that can be operated by the equipment increased, that is they can operate multiple events used the implement.

Operation:

1. Right-click on equipment > Event Settings

Event Setting

Monitoring Center

✓ A23395

Setting Type

☒ Delete all items of information ter

☐ Modification event

☐ Additional event

☐ Update Event

☐ Deleting a specific event

Event entries

Event ID <input type="text" value=""/>	(0~255)	Content <input type="text" value=""/>	(less than 127 characters)
Event ID <input type="text" value=""/>	(0~255)	Content <input type="text" value=""/>	(less than 127 characters)
Event ID <input type="text" value=""/>	(0~255)	Content <input type="text" value=""/>	(less than 127 characters)
Event ID <input type="text" value=""/>	(0~255)	Content <input type="text" value=""/>	(less than 127 characters)

Set **Cancel**

Follow the instructions to fill in the relevant information -> click the settings button

5.10.3 Issuance of questions

The platform issues the questions that would be questioned to the terminal, and the issued questions can own the following attributes. Urgency, terminal TTS broadcast, advertising screen display; the terminal receives the issued question and returns the answer as a list. The platform then displays the answer in the list to the corresponding window.

Operation:

1. Right click equipment - > question

The screenshot shows a software window titled "Questions Issued". On the left is a tree view under "Monitoring Center" with a sub-item "A23395" selected. The main area on the right contains several input fields: a "Flag" section with three checkboxes ("Emergency", "Terminal TTS broadcast reading", "Advertising screen display"), a "Problem" section with a text box and a "(less than 127 characters)" label, and a "Question answering" section with a text box labeled "Correct answer". At the bottom right are "Set" and "Cancel" buttons.

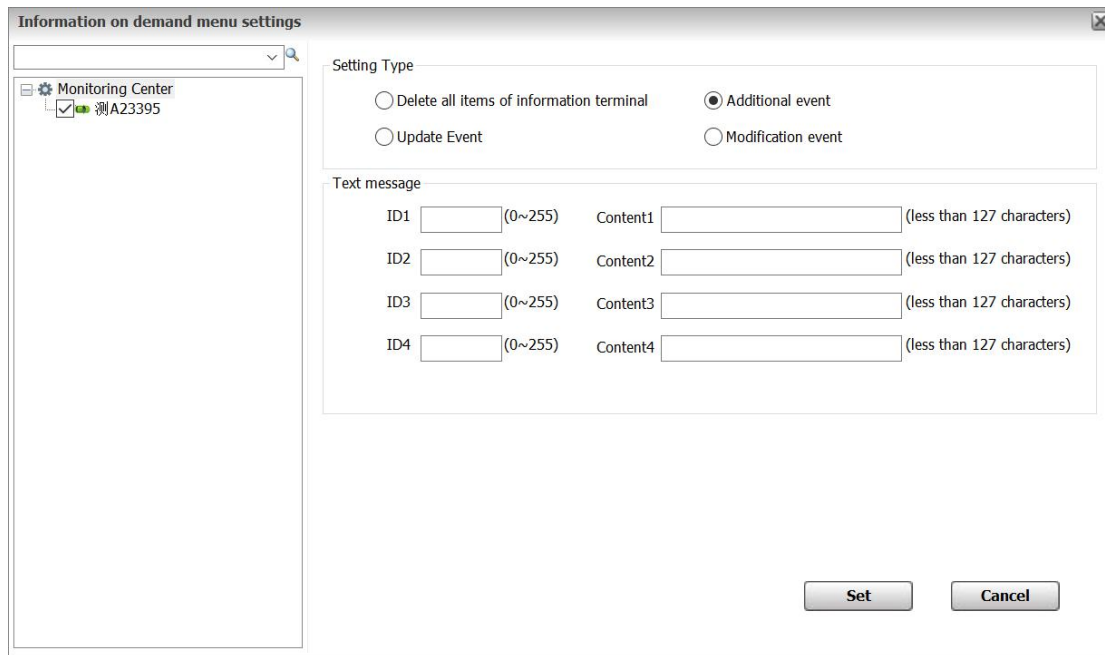
Follow the instructions to fill in the relevant information -> click the settings button

5.10.4 Information on demand menu settings

According to the equipment selected by the platform, all information items of the terminal can be deleted, modified, updated, added operations the menu, and the total number of information items that can be operated multiple items of information by the equipment together.

Operation:

1. Right click equipment - > information on demand menu settings



Information on demand menu settings

Setting Type

☐ Delete all items of information terminal
 ☒ Additional event
 ☐ Update Event
 ☐ Modification event

Text message

ID1 (0~255) Content1 (less than 127 characters)
 ID2 (0~255) Content2 (less than 127 characters)
 ID3 (0~255) Content3 (less than 127 characters)
 ID4 (0~255) Content4 (less than 127 characters)

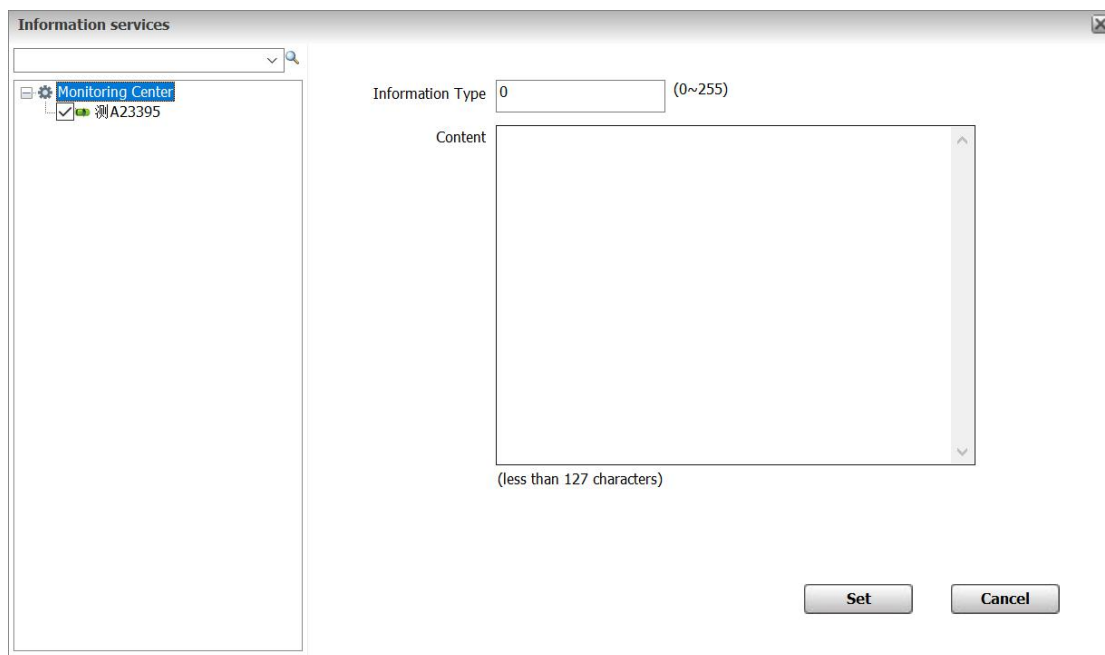
Set Cancel

Follow the instructions to fill in the relevant information -> click the settings button

Information services

Operation:

1. Right click equipment - > information services



Information services

Information Type 0 (0~255)

Content (less than 127 characters)

Set Cancel

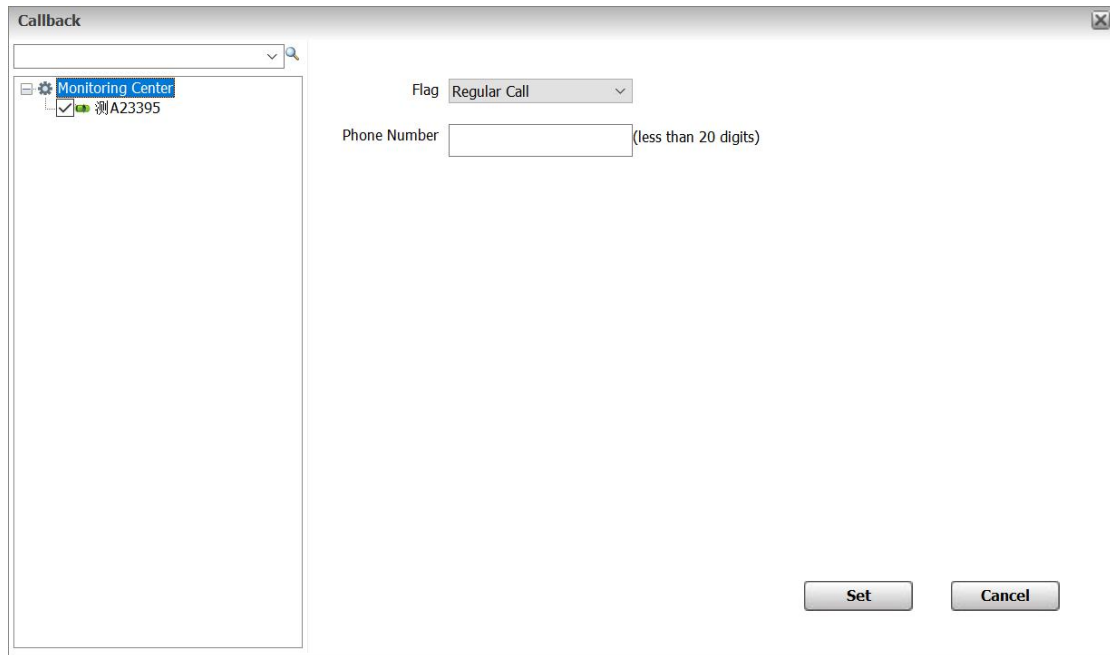
Follow the instructions to fill in the relevant information -> click the settings button

5.10.5 Callback

According to the equipment selected by the platform, telephone callback can be performed on the designated equipment.

Operation:

1. Right click equipment - >telephone callback



Callback

Monitoring Center

A23395

Flag: Regular Call

Phone Number: (less than 20 digits)

Set Cancel

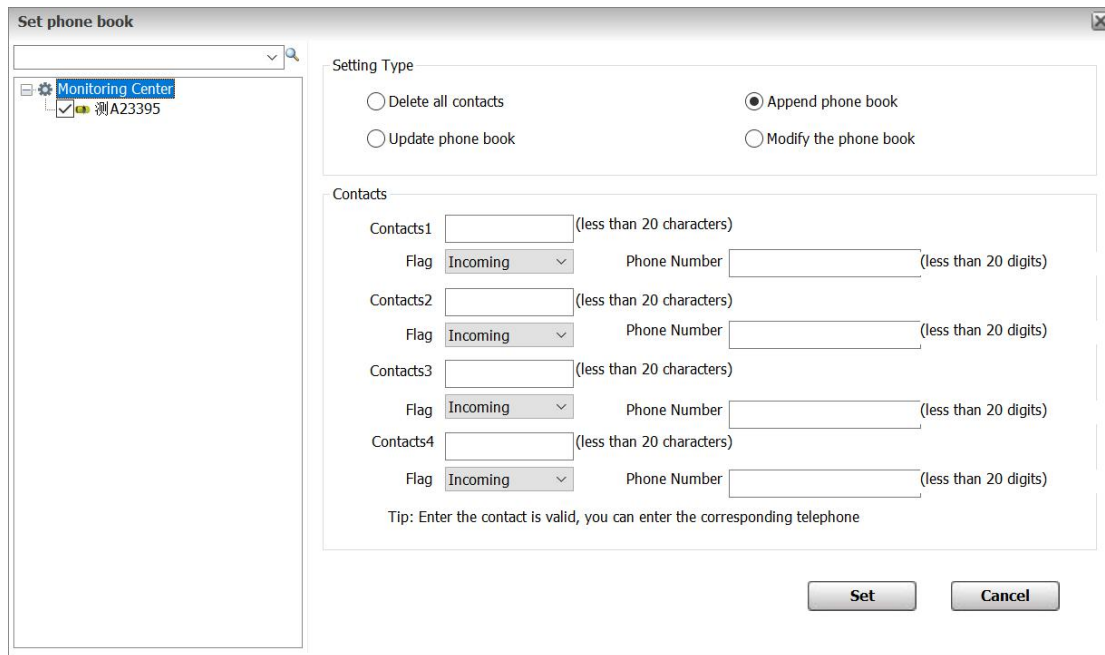
Follow the instructions to fill in the relevant information -> click the settings button

5.10.6 Setting of the telephone book

According to the equipment selected by the platform, specify the type of the phone book set, including the deletion of all stored contacts on the terminal. Updating the telephone book (delete all the contacts existed in the terminal, and add message contacts); Adding phone book, modify phone book (with contacts as index); and could set one or more contact calls Incomings, outgoings, incoming/outgoing records.

Operation:

1. Right click equipment - >setting phone book



Set phone book

Monitoring Center
A23395

Setting Type

☐ Delete all contacts

☒ Append phone book

☐ Update phone book

☐ Modify the phone book

Contacts

Contacts1 (less than 20 characters)

Flag Incoming Phone Number (less than 20 digits)

Contacts2 (less than 20 characters)

Flag Incoming Phone Number (less than 20 digits)

Contacts3 (less than 20 characters)

Flag Incoming Phone Number (less than 20 digits)

Contacts4 (less than 20 characters)

Flag Incoming Phone Number (less than 20 digits)

Tip: Enter the contact is valid, you can enter the corresponding telephone

Set Cancel

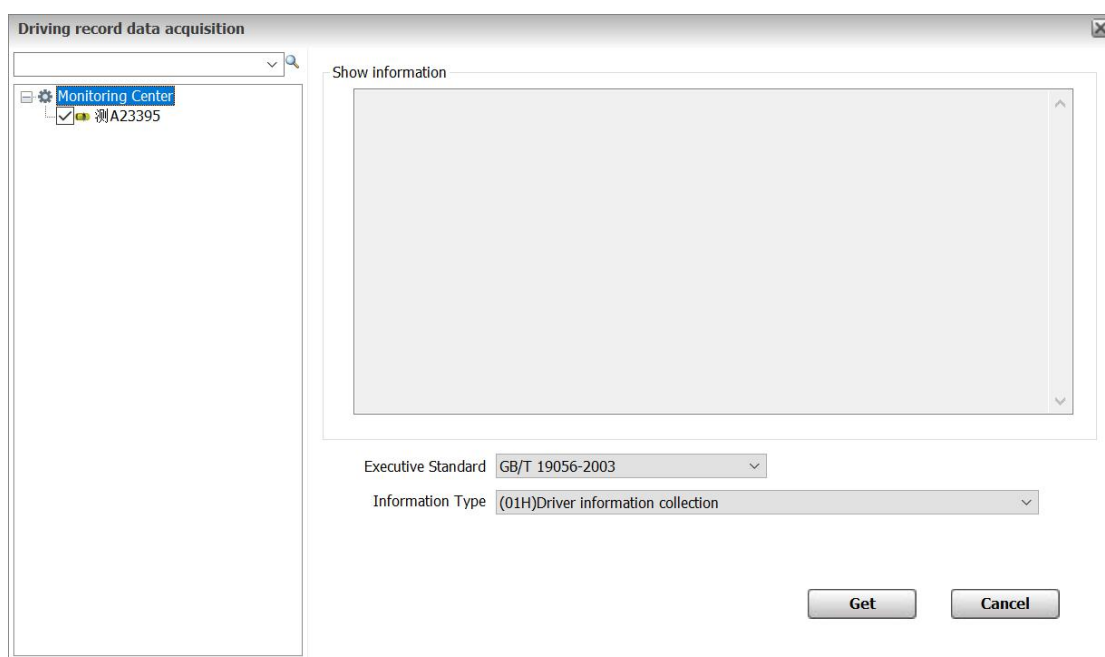
Follow the instructions to fill in the relevant information -> click the settings button

5.10.7 Driving record data collection

According to the equipment selected by the platform, specify the type of travel record to be queried, perform the query operation, and then display the data returned by the terminal to the corresponding window.

Operation:

Right-click on Equipment->Drive Record Data Collection



Driving record data acquisition

Monitoring Center
A23395

Show information

Executive Standard GB/T 19056-2003

Information Type (01H)Driver information collection

Get Cancel

Follow the instructions to fill in the relevant information -> click the obtaining button

5.10.8 Driving record data upload

According to the equipment selected by the platform, the driver information/vehicle information/characteristic coefficient/recorder time is specified and then sent to the terminal

Operation:

Set driver information

Right-click on the equipment about upload record data of drive -> set driver information

The screenshot shows a software window titled "Setting(Standard: GB/T 19056 2003)". On the left is a tree view with "Monitoring Center" and a sub-item "测A23395" which is selected. The main area contains several sections for data entry:

- 设置驾驶员代码、驾驶证号码**: Fields for "Driver Code" (value: 0, range: 0~16777215) and "Driver's license number" (range: less than 18 bytes). "Set" and "Get" buttons are present.
- Set the vehicle VIN number, license plate number, license plate classification**: Fields for "Vehicle VIN number" (range: less than 17 bytes), "Plate number" (range: less than 12 bytes), and "Category" (range: less than 12 bytes). "Set" and "Get" buttons are present.
- Set recorder real-time**: Fields for "GMT clock" (date: 2018-06-11, time: 13:46:17). A "Set" button is present.
- 设置车辆特征系数**: Field for "Characteristic coefficient of the vehicle" (value: 0, range: 0~16777215). "Set" and "Get" buttons are present.

2. Follow the instructions to fill in the relevant information -> click the settings button

5.10.9 Setting of vehicle information

1. Right-click on the equipment about upload record data of drive -> set vehicle information

Setting(Standard: GB/T 19056 2003)

设置驾驶员代码、驾驶证号码

Driver Code (0~16777215)

Driver's license number (less than 18 bytes)

Set the vehicle VIN number, license plate number, license plate classification

Vehicle VIN number (less than 17 bytes)

Plate number (less than 12 bytes)

Category (less than 12 bytes)

Set recorder real-time

GMT clock

设置车辆特征系数

Characteristic coefficient of the vehicle (0~16777215)

Follow the instructions to fill in the relevant information -> click the settings button

设置记录仪时间

所有分组

test

V018681892548

fsafdsaf

北京时间时钟

日期

时间

5.10.10 Setting of the recorder time

1. Right-click on the equipment -> upload record data of drive -> set recorder time

2. Follow the instructions to fill in the relevant information -> click the settings button

5.10.11 Setting of characteristic coefficient

1. Right-click on the equipment -> upload record data of drive -> set character coefficient

Setting(Standard: GB/T 19056 2003)

设置驾驶员代码、驾驶证号码

Driver Code (0~16777215)

Driver's license number (less than 18 bytes)

Set the vehicle VIN number, license plate number, license plate classification

Vehicle VIN number (less than 17 bytes)

Plate number (less than 12 bytes)

Category (less than 12 bytes)

Set recorder real-time

GMT clock

设置车辆特征系数

Characteristic coefficient of the vehicle (0~16777215)

Follow the instructions to fill in the relevant information -> click the settings button

5.10.12 Setting of position trailing

The real-time location and status information of a bicycle or multiple vehicles is displayed on the electronic map by timing method.

1. Right click equipment - > location tracking settings

Set position tracking

Time interval (0 ~ 1800s) (0 means stop)

Location tracking validity (0~65535s)

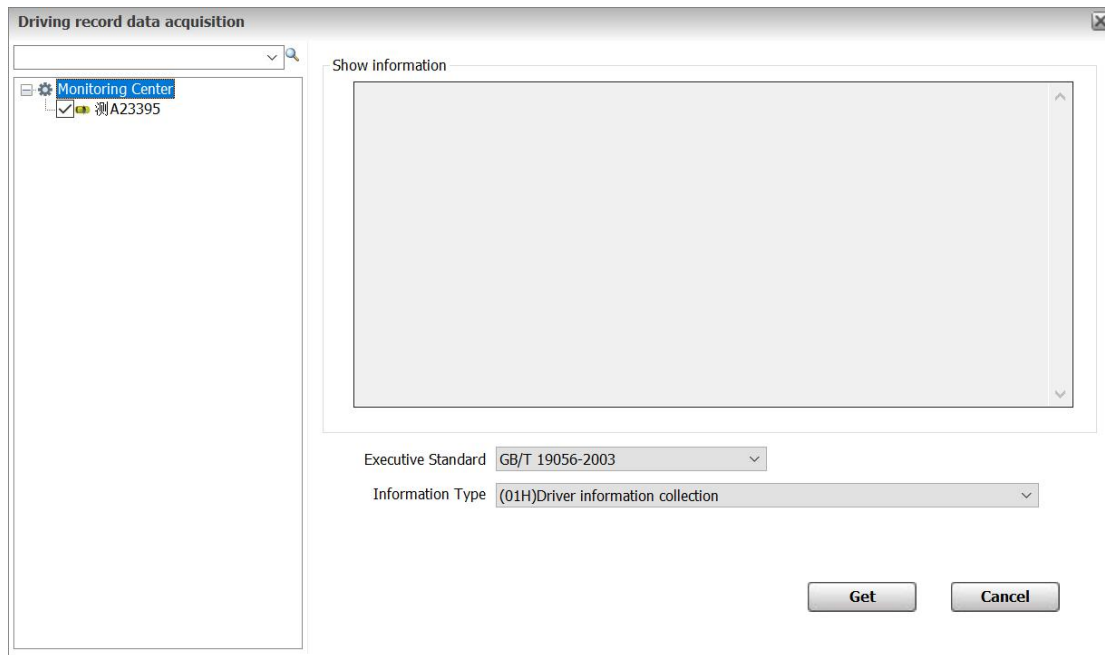
Click the Setting button

5.10.13 Driving record data collection

According to the equipment selected by the platform, specify the type of travel record to be queried, perform the query operation, and then display the data returned by the terminal to the corresponding window.

Operation:

Right-click on Equipment->Drive Record Data Collection



Follow the instructions to fill in the relevant information -> click the obtaining button

5.10.14 Driving record data upload

According to the equipment selected by the platform, the driver information/vehicle information/characteristic coefficient/recorder time is specified and then sent to the terminal

Operation:

Set driver information

Right-click on the equipment about upload record data of drive -> set driver information

Setting(Standard: GB/T 19056 2003)

设置驾驶员代码、驾驶证号码

Driver Code (0~16777215)

Driver's license number (less than 18 bytes)

Set the vehicle VIN number, license plate number, license plate classification

Vehicle VIN number (less than 17 bytes)

Plate number (less than 12 bytes)

Category (less than 12 bytes)

Set recorder real-time

GMT clock

设置车辆特征系数

Characteristic coefficient of the vehicle (0~16777215)

2. Follow the instructions to fill in the relevant information -> click the settings button

5.11 Alarm

5.11.1 Check the alarm information

Once the equipment has an alarm, the client "alarm information" column will display the alarm list, as shown below.

System View Settings Monitor

Vehicle Management System

Monitor Center(1/1)

CH1 CH2 CH3 CH4

Vehicle Number: 湘A23395

Vehicle ID: 064811423395

Company: ttxtesteng

Group: ttxtesteng

Status: Online

Positioning Time: 2018-06-11 14:01:52

Location: 湖南省长沙市芙蓉区车站中路

Speed: 0.00 km/h(East)

Costs: Normal

Map

湘A23395

Date: 2018-06-11 14:01:52 Speed: 0.00 km/h(East)

Mileage: 14403.10 km Device Number: 064811423395

Position: 湖南省长沙市芙蓉区车站中路

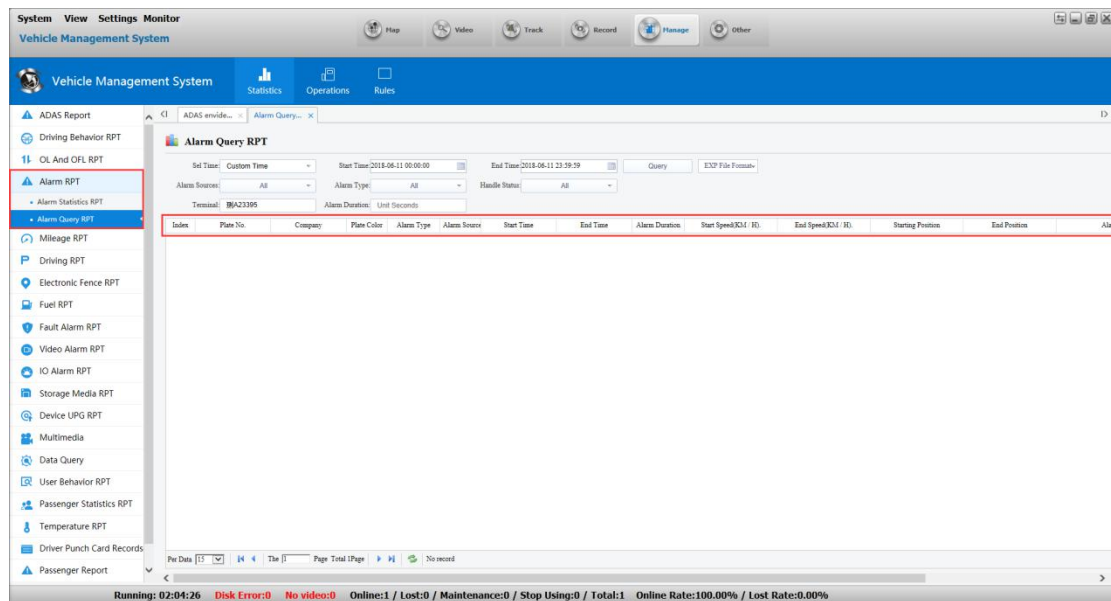
Status: Online, IG, ACC OFF, Parking(0:20:00), Network signal poor

Video Intercom Monitor Snapshot Index

Name	Type	Start time	End Time	Alarm Descrip
湘A23395(064811423395)	IO_3 End	2018-06-11 13:41:14	2018-06-11 13:41:44	
湘A23395(064811423395)	IO_5 End	2018-06-11 13:40:44	2018-06-11 13:41:52	
湘A23395(064811423395)	IO_5 End	2018-06-11 13:39:44	2018-06-11 13:40:14	
湘A23395(064811423395)	IO_5 End	2018-06-11 13:38:14	2018-06-11 13:39:14	
湘A23395(064811423395)	IO_5 End	2018-06-11 13:37:14	2018-06-11 13:37:14	

Running: 02:03:01 Disk Error: 0 No videos: 0 Online: 1 / Lost: 0 / Maintenance: 0 / Stop Using: 0 / Total: 1 Online Rate: 100.00% / Lost Rate: 0.00%

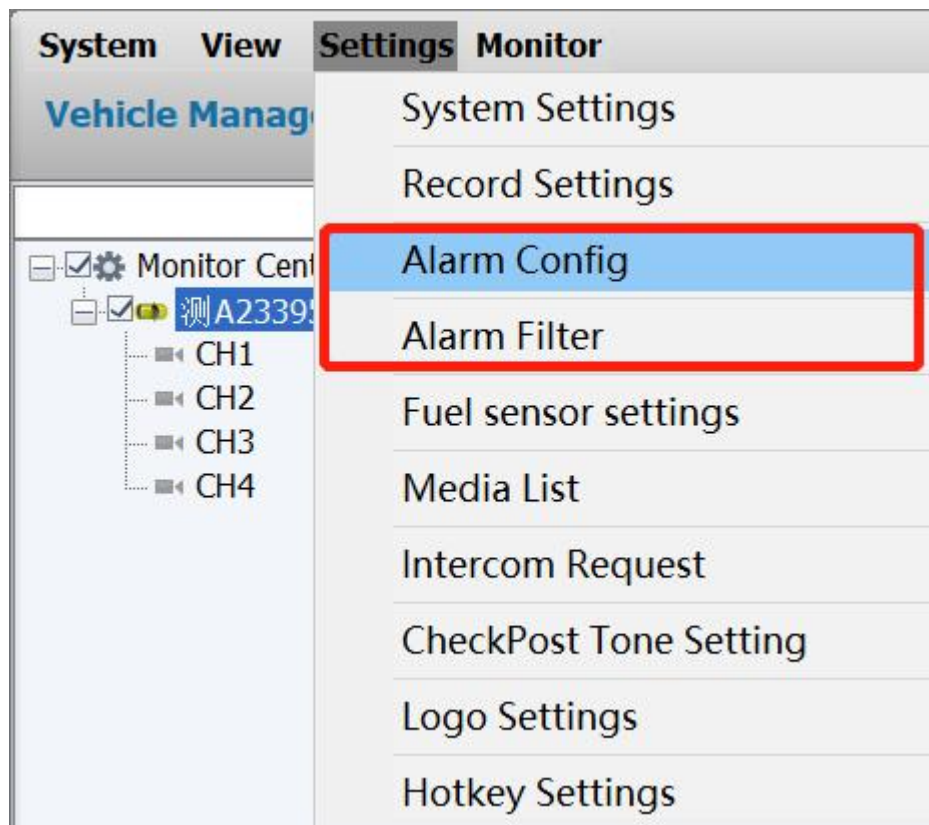
5.11.2 Query of the web alarm statement

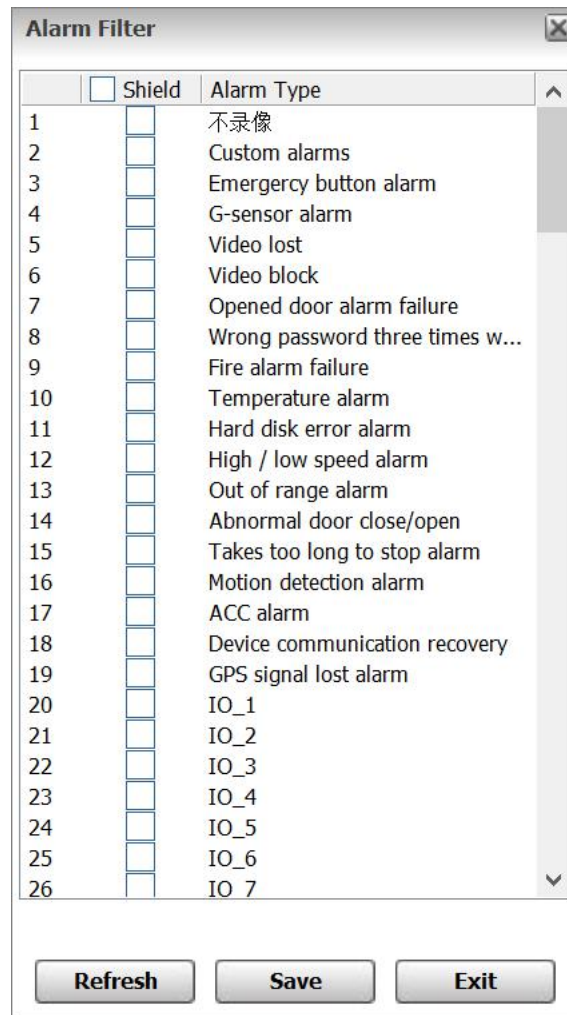


5.11.3 Shielding alarm information

If the alarm in the mask list is checked, there will be no such alarm in the "Alarm Information" column of the client side.

- A. First click on "other applications" and then click on the "alarm shield configuration".
- B. In the menu bar "setting", click "alarm shield configuration" and open the "alarm shield configuration" window, as shown in the figure.





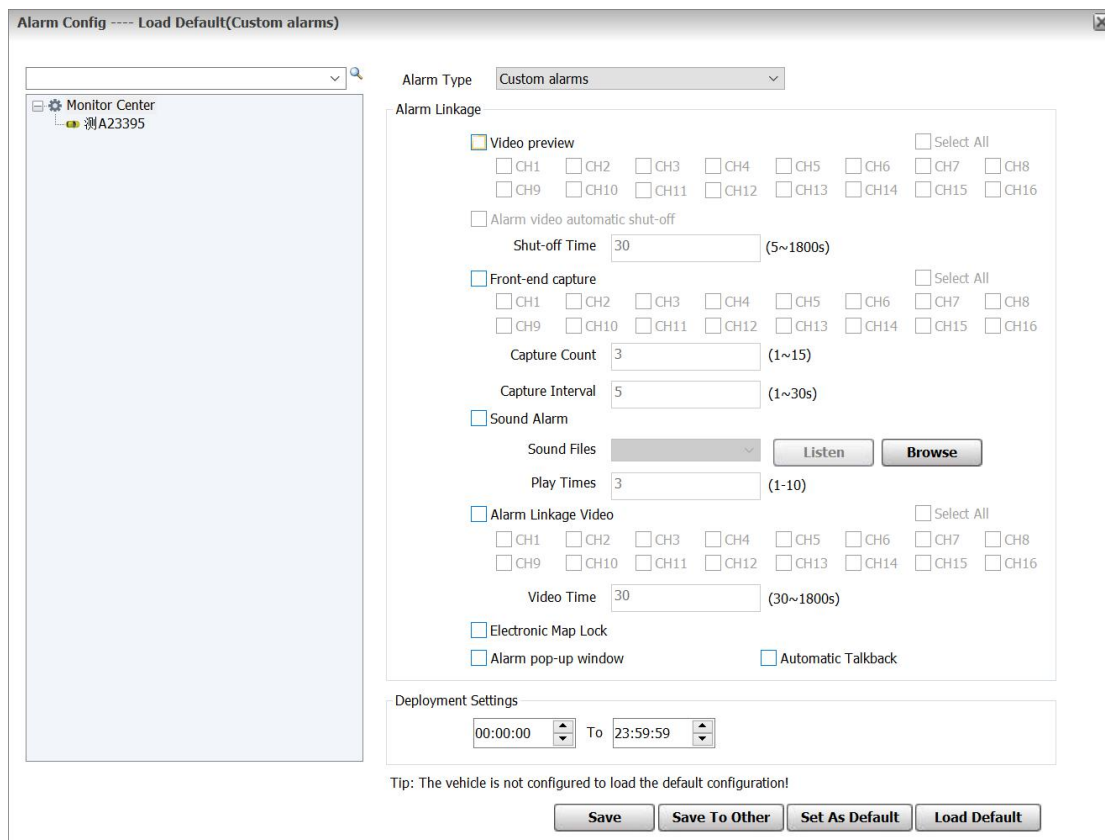
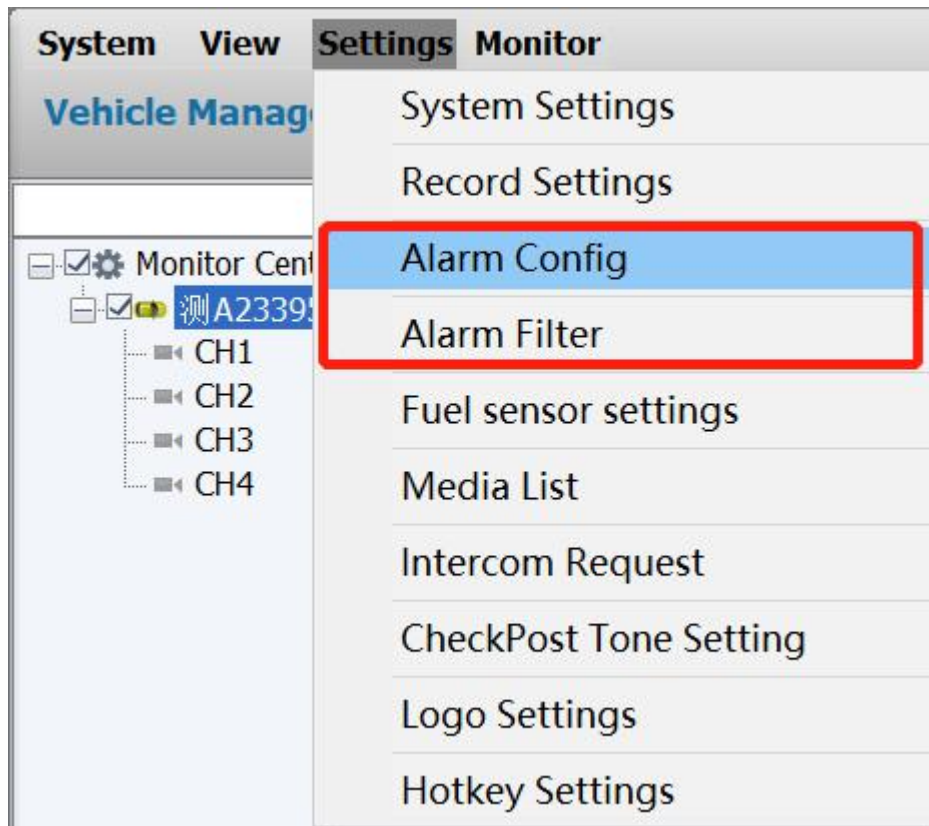
You can check it directly for the conditions that don't need the alarm

5.11.4 Action with alarm of the client side

When the user can specify one or more types of alarms to be generated through action with alarm function of the configuration equipment on the client, the PC client can pop up a video window that generates an alarm, an electronic map lock function and other settings.

A. First click the "other applications" and then click the "action with alarm setting"

B. Click the "action with alarm" in the "setting" of menu bar to open the "action with alarm" window, shown in the figure below:



When the setting window of the action with alarm is opened by default, the function of the left panel is not editable. Only when the equipment is selected, the right panel can be editable. Here you can set the action with alarm for each type of alarm for each equipment.

Type of alarm: Select the type of alarm associated with the equipment alarm (The corresponding action can be performed only when the device alarm type is the same as the alarm type set here).

Video preview: When an alarm is generated, a video of the channel of the equipment will be popped (the current version of the code stream type supports only the subcode stream).

Front-end snapshot: When the alarm is generated, the picture of the channel and this equipment will be snapshot at the front end.

Audible alarm: Set the sounds and the number of action with alarm sounds.

Rules of play: If a warning sound is being played, a new alarm needs to be played at the same time, then stop the former and broad the new one.

Action with alarm Video: After action with alarm is generated, the alarm video will be recorded on the local computer.

Electronic map locking: When the associated equipment is linked, the monitored equipment will be centrally displayed on the map.

Deployment setting: The action with alarm of this equipment within this time period will be valid after it is enabled.

Save: Save the currently configured linkage alarm for this equipment.

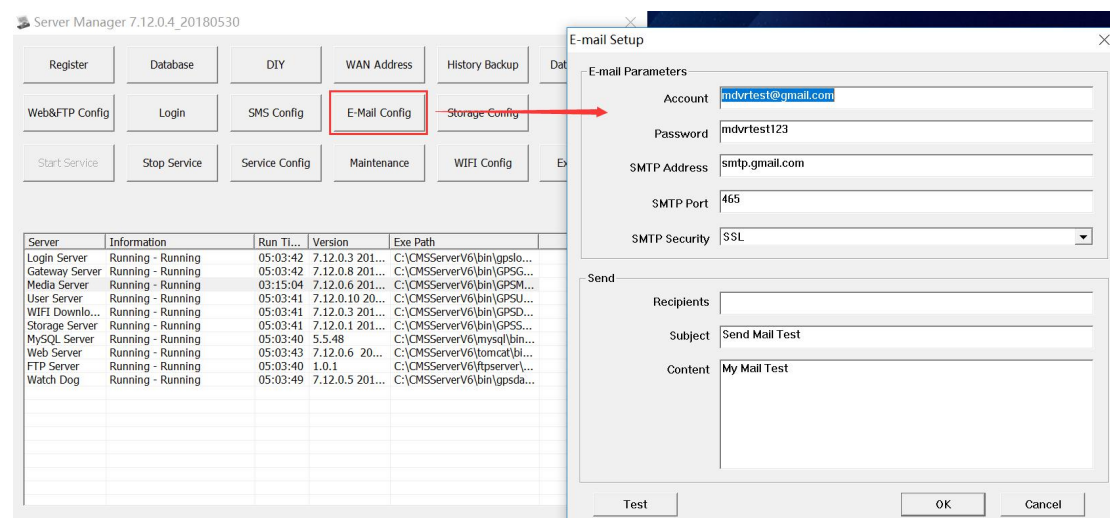
Save to multiple equipment: Save the current linkage alarm configuration to multiple equipment.

Set as the default configuration: The configuration of the current linkage alarm of the equipment is set as the default configuration, and equipment without linkage alarm are configured to load the default configuration.

Load the default configuration: The current equipment is loading the default configuration.

5.11.5 Action with alarm of the server

5.11.5.1 Configure Email and SMS on the Server Side 1) Configure Email



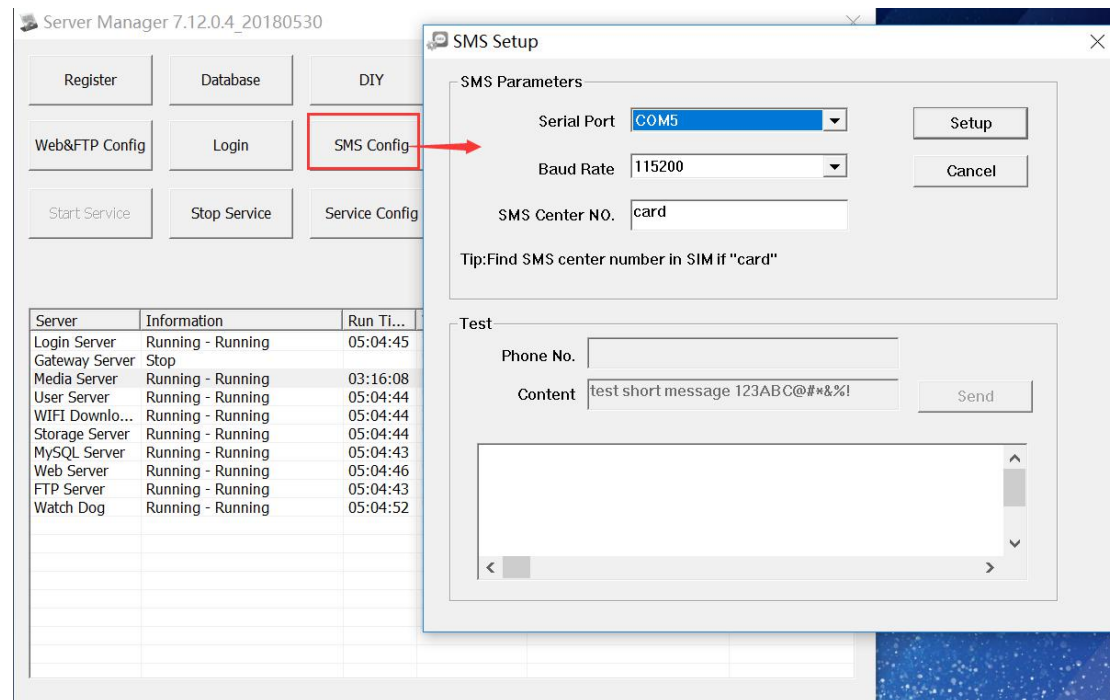
E-mail configuration:

The account and password are the email account and password used to send the email.

Note:

For overseas customers, the default email address cannot be used. It is necessary to fill email and email password applied in the local, and then restart the gateway server. The Hong Kong server also needs to replace the email.

2) Configure SMS Configuration

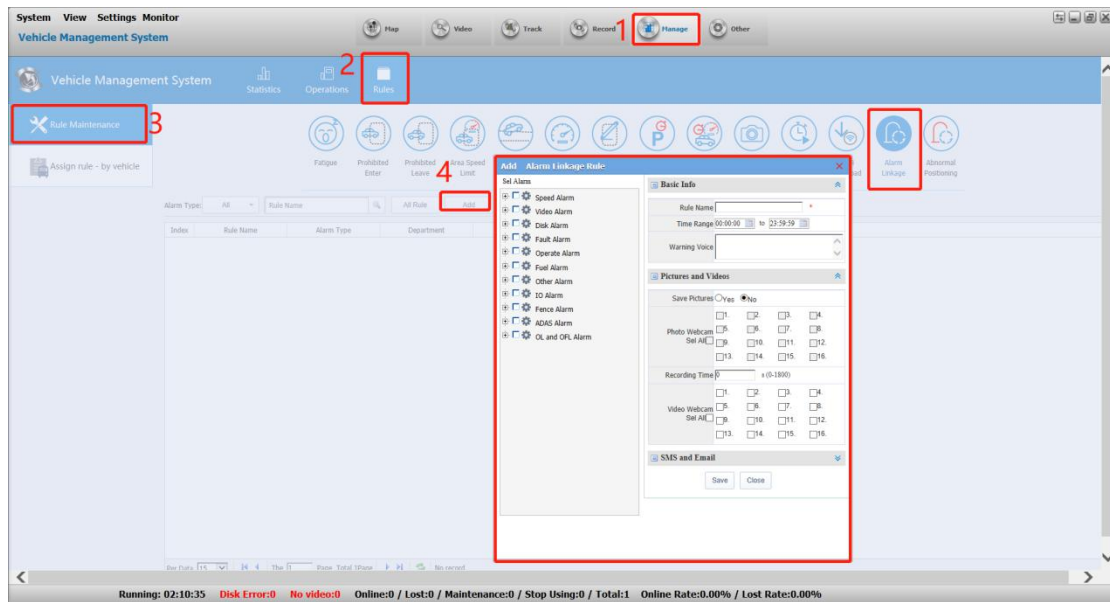


When sending SMS, you need to connect an SMS modem to the server, and install a serial port driver. Then, when configuring this, select the corresponding serial port number and click "Configuration". If an SMS modem is not connected externally, text messages cannot be sent.

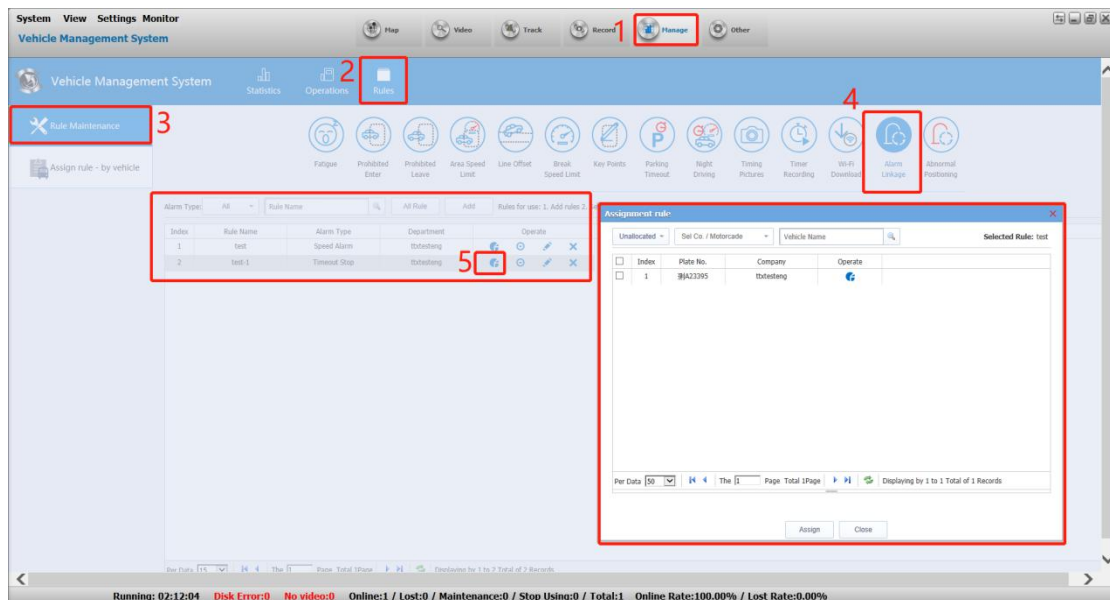
5.11.5.2 Rule management of configuration action with alarm

When the specified equipment occurs with the specified alarm, the server will automatically send SMS and email notifications to the configured mobile phone number and mailbox.

1. Configuration rule



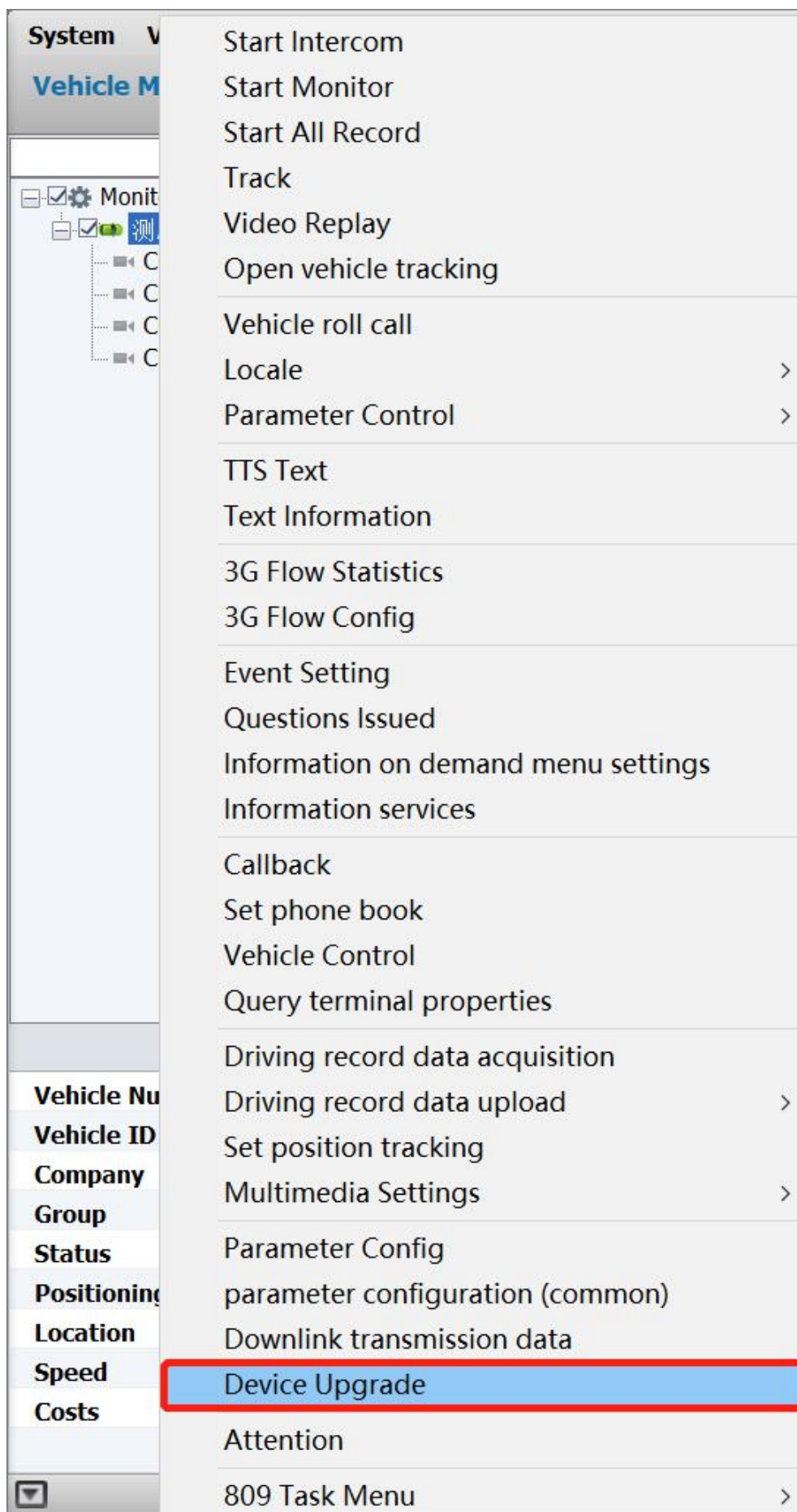
2. Distribution rule



5.12 Remote upgrade of equipment

5.12.1 Upgrade of single equipment

a. Log in to the client, open the equipment list, select the equipment to be upgraded, right-click, and select "Equipment Upgrade" from the menu that appears, as shown in the figure below.



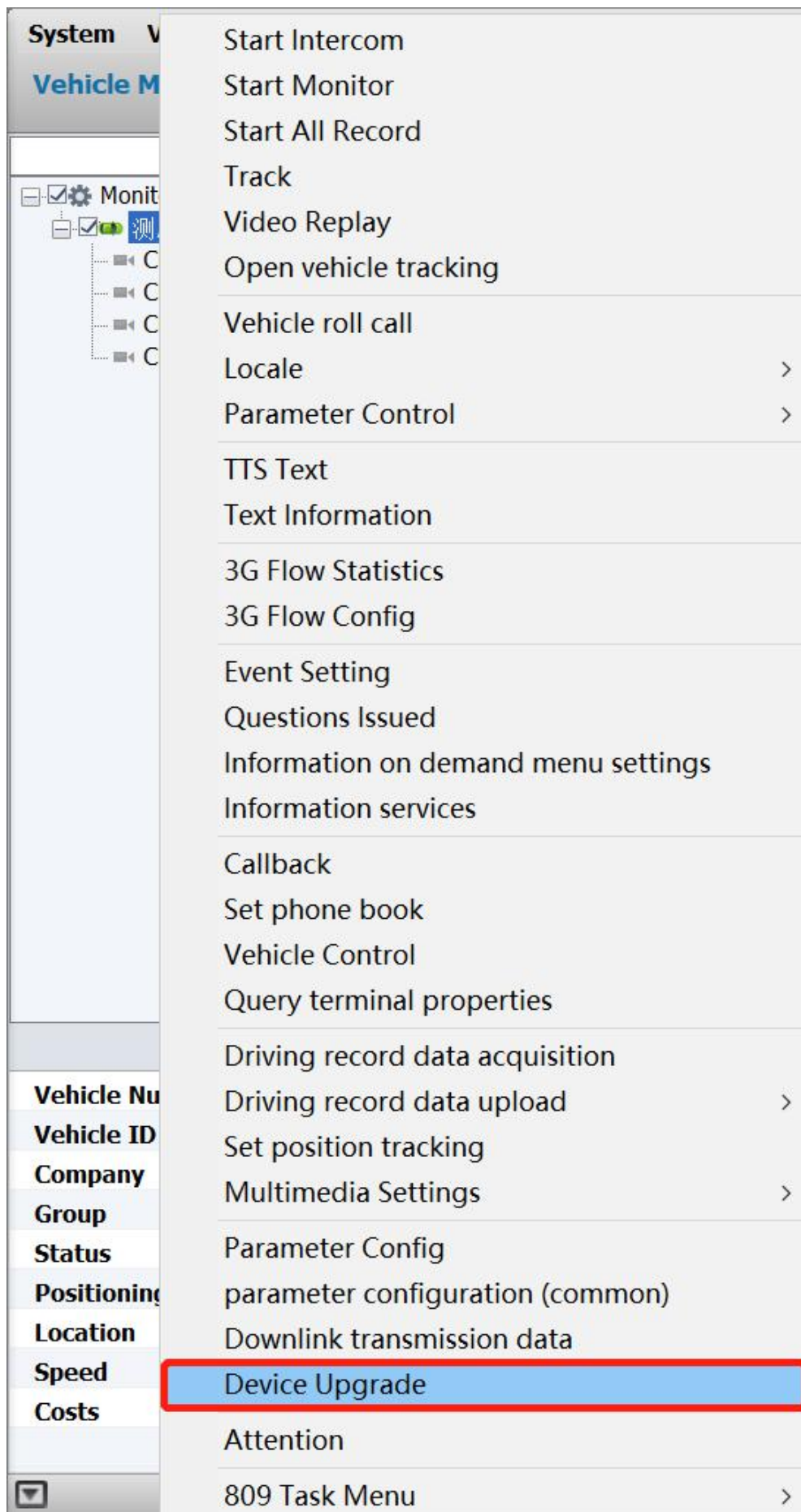
The interface that pops up now looks like this:

[illegible]

- b. Through the "Browse" button to select the upgrade file, the upgrade file format must be .crc
- c. Select the equipment and right-click to delete or clear the equipment in the list to be upgraded by "Delete" or "Empty".
- d. Click "Upgrade", and if the upgrade is complete, there will be a corresponding prompt box.

5.12.2 Upgrading several equipment at the same time

Select the equipment group or "Monitoring Center" and click "Equipment Upgrade" in the context menu



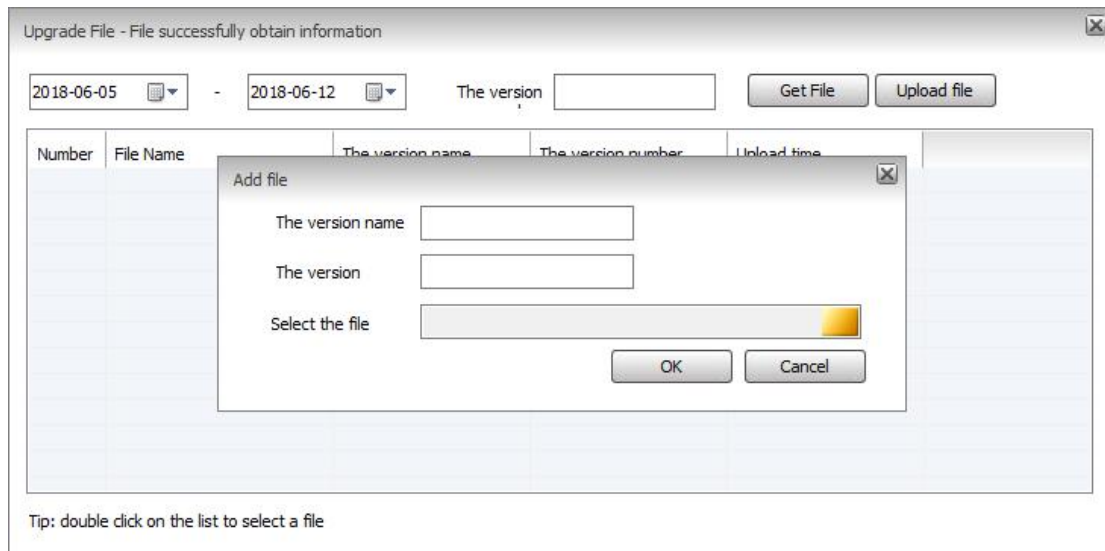
Multiple equipment upgrade pages:

[illegible]

If there are hard drives and card machine in the group, you can press the Ctrl key to screen and upgrade. If you want to continue adding the equipment, you can drag the equipment into the box from the equipment list by mouse.

5.12.3 Offline upgrade

Access to the file in local

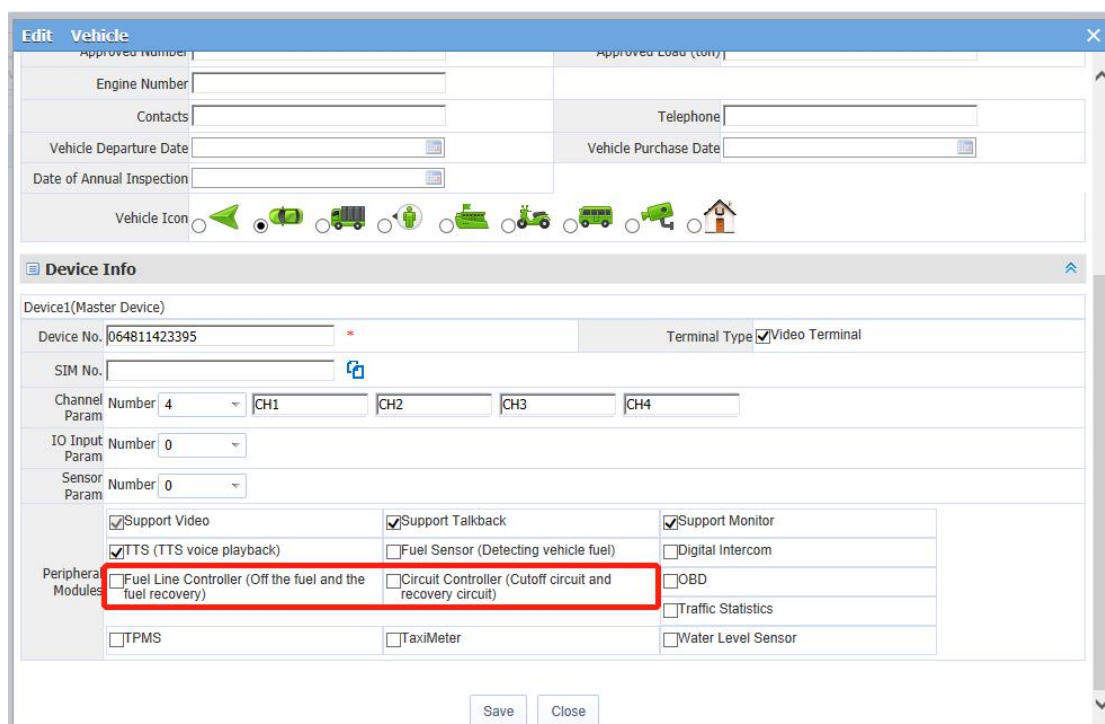


Upload the upgrade file to the server. The equipment will download the upgrade files automatically when it is online.

5.13 Fuel cut and power outage

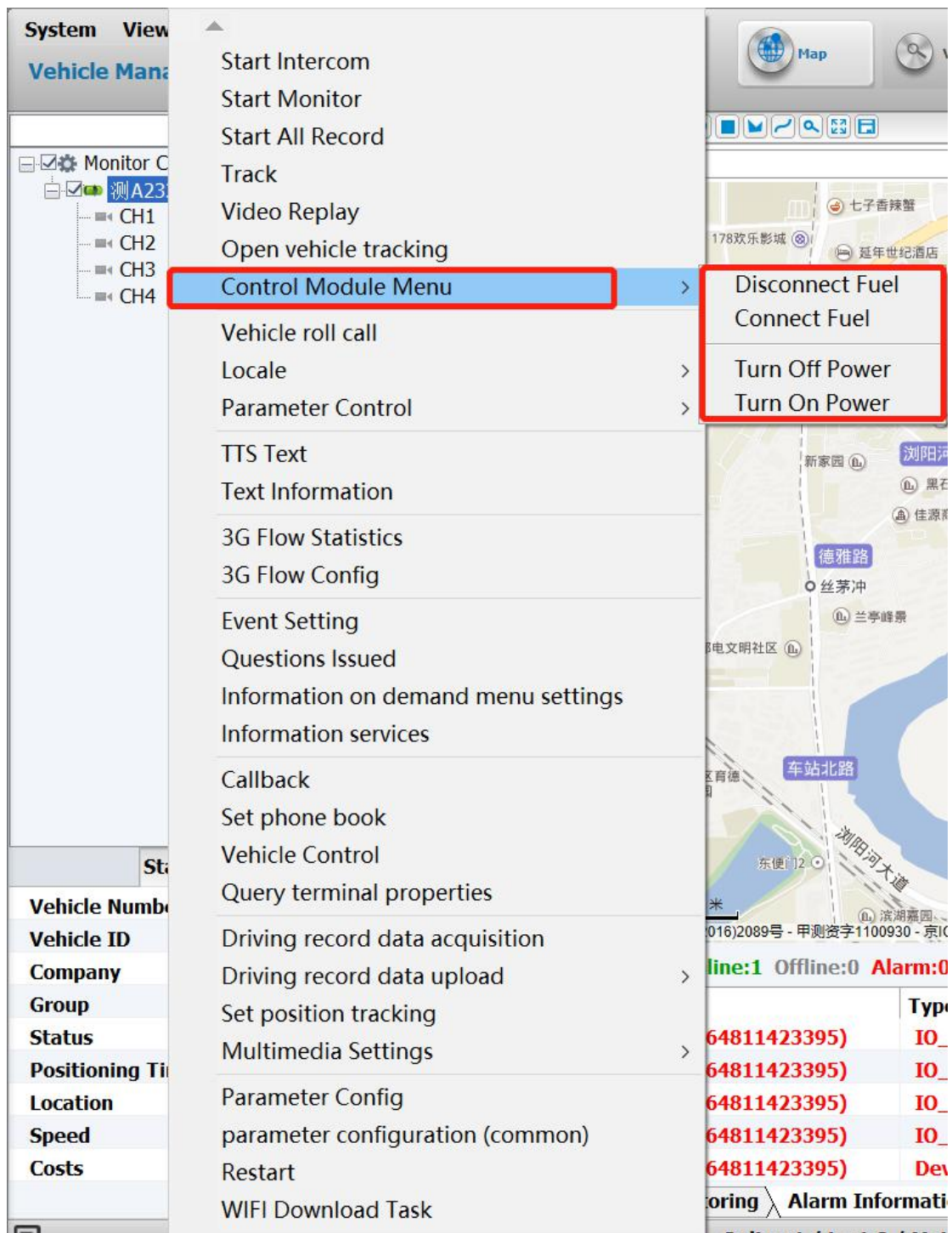
5.13.1 Opening the function of fuel cut and power outage by web

Login into the information management, select the equipment that needs to cut off the oil and power from the operation management vehicle information. The specific operation is as the figure below. Check up the line of cutting off the oil and power, and then restart the client.



5.13.2 Operation of fuel cut and power outage by client

Select the equipment that needs to cut off oil and power outage, then click the right button to display the figure below



In operating the right button menu, displaying "cut off the oil", "restore the oil", "turn off the power", "turn on the power", then corresponding form will pop up. E.g., after clicking the "cut off the oil", following figure will come out

The screenshot shows a dialog box titled 'Disconnect Fuel-测A23395(064811423395)'. It contains a 'Password' field with a placeholder '(Login PWD)' and two buttons: 'OK' and 'Cancel'.

Note: The password is for the client to log in. If the operation is successful or not, you can see the hint in the lower right-hand corner of PC.

5.14 Oil mass detection

This function is only available for clients who have docked with oil mass sensor

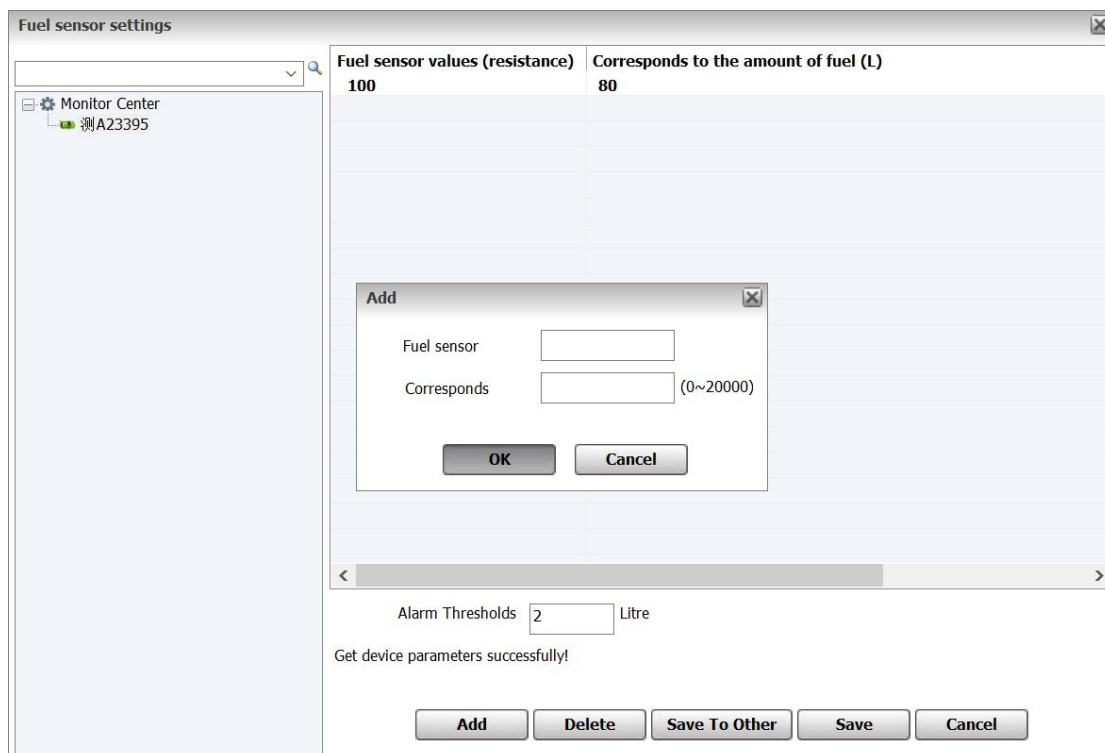
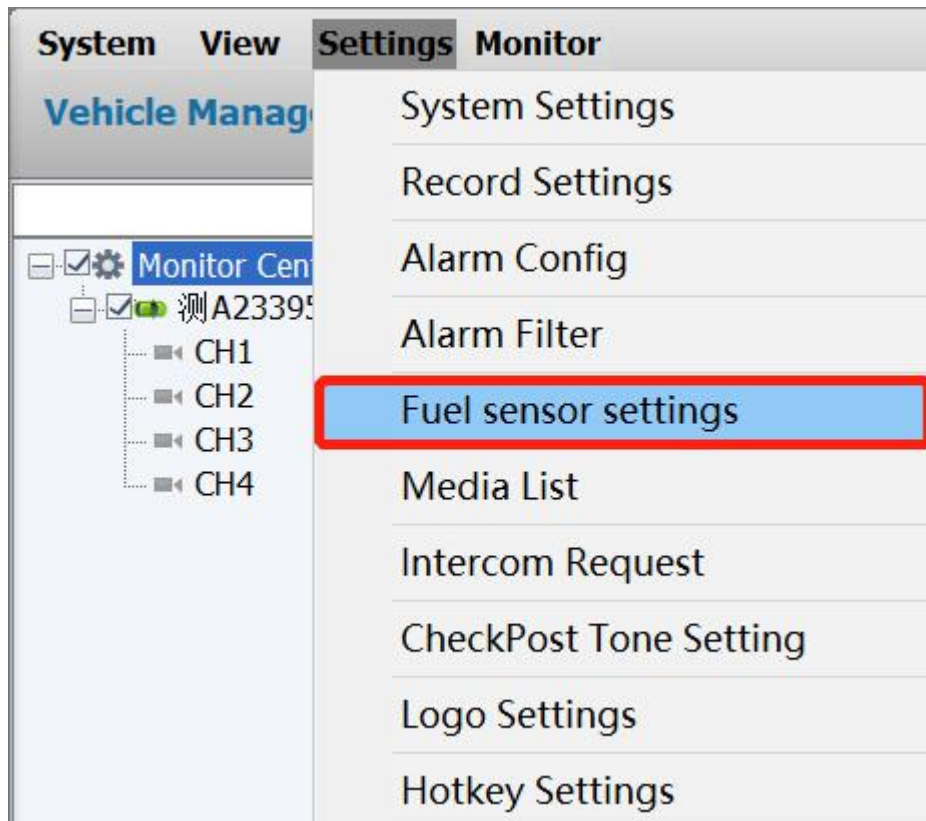
5.14.1 Configuration of oil mass

With the oil mass sensor function, the equipment can carry out the configuration of oil mass parameters and tick the peripheral module in the vehicle information.

The screenshot shows the 'Edit Vehicle' window with the 'Device Info' tab selected. The 'Peripheral Modules' section contains several checkboxes, with 'Fuel Sensor (Detecting vehicle fuel)' checked and highlighted by a red rectangle. Other checked options include 'Support Video', 'Support Talkback', 'Support Monitor', 'TTS (TTS voice playback)', 'Fuel Line Controller (Off the fuel and the fuel recovery)', and 'Circuit Controller (Cutoff circuit and recovery circuit)'. Other options like 'Digital Intercom', 'OBD', 'Traffic Statistics', 'Water Level Sensor', 'TPMS', and 'TaxiMeter' are unchecked.

Device Info	
Device1(Master Device)	
Device No.	064811423395
SIM No.	
Channel Param	Number 4 CH1 CH2 CH3 CH4
IO Input Param	Number 0
Sensor Param	Number 0
<div> <div> <input checked="" type="checkbox"/>Support Video <input checked="" type="checkbox"/>TTS (TTS voice playback) <input checked="" type="checkbox"/>Fuel Line Controller (Off the fuel and the fuel recovery) <input type="checkbox"/>TPMS </div> <div> <input checked="" type="checkbox"/>Support Talkback <input checked="" type="checkbox"/>Fuel Sensor (Detecting vehicle fuel) <input checked="" type="checkbox"/>Circuit Controller (Cutoff circuit and recovery circuit) <input type="checkbox"/>TaxiMeter </div> <div> <input checked="" type="checkbox"/>Support Monitor <input type="checkbox"/>Digital Intercom <input type="checkbox"/>OBD <input type="checkbox"/>Traffic Statistics <input type="checkbox"/>Water Level Sensor </div> </div>	

Configuration operation of oil mass: Setting > oil mass sensor setting > select the amount of oil added to the vehicle corresponds to the resistance value> set alarm threshold



Rules filling in: 1 Fill in the relatively small value and the relative oil mass value 2 Fill in the maximum sensor value and the corresponding maximum oil mass value 3 Fill in the value between the above two values. (The more you fill in, the more accurate)

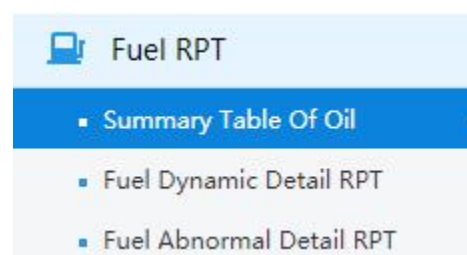
Alarm threshold setting: When the oil mass suddenly changes and is more than or less than the set threshold, the alarm will sound. At the same time, the alarm information will be also recorded in the statement.

Alarm Thresholds Litre

Get device parameters successfully!

5.14.2 Statement of oil mass

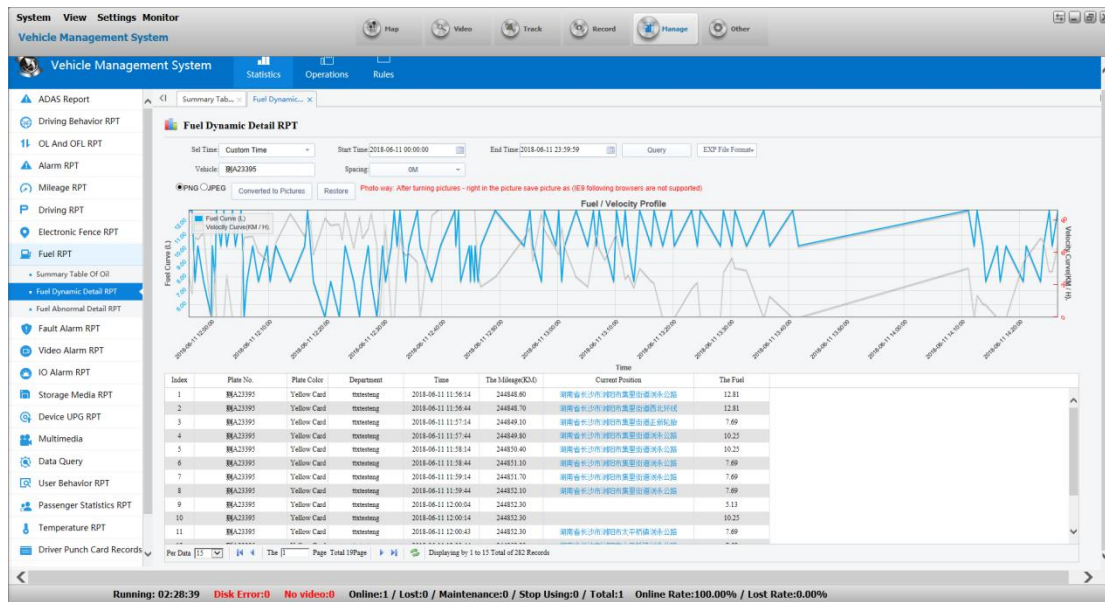
Summary on oil mass, dynamic statement on oil mass, obvious abnormality statement on oil mass



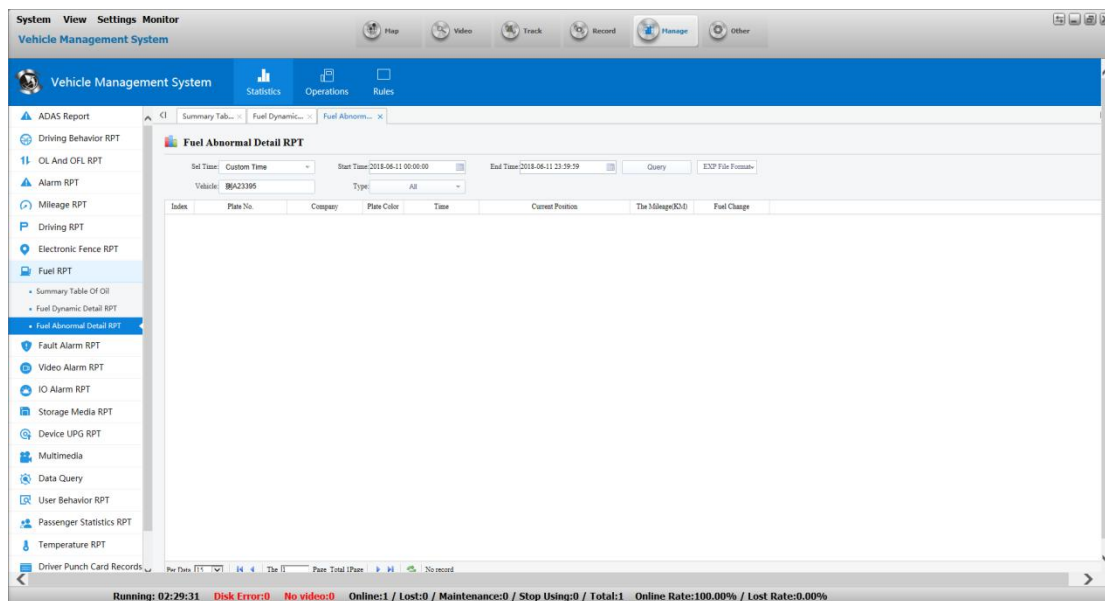
1. Summary on oil mass: Record the oil mass of vehicle upon startup and shutdown within a certain time, as well as the driven mileage and total oil consumption.

Index	Driver Name	Plate No.	Company	Plate Color	Start Time	End Time	Oil Starting Time (Litre)	End Times The Amount C	Total Mileage (KM)	Total Consumption (Litre)	Amount Of Fuel (Litre)	100 KM Fuel Consumption
1		鄂A23395	ntmteeng	Yellow Card	2018-06-11 12:00:43	2018-06-11 14:06:52	7.69	10.25	82.800	0	0	0.00

2. Dynamic statement on oil mass: Upload the value of oil mass along with the GPS in an isochronous real-time manner.



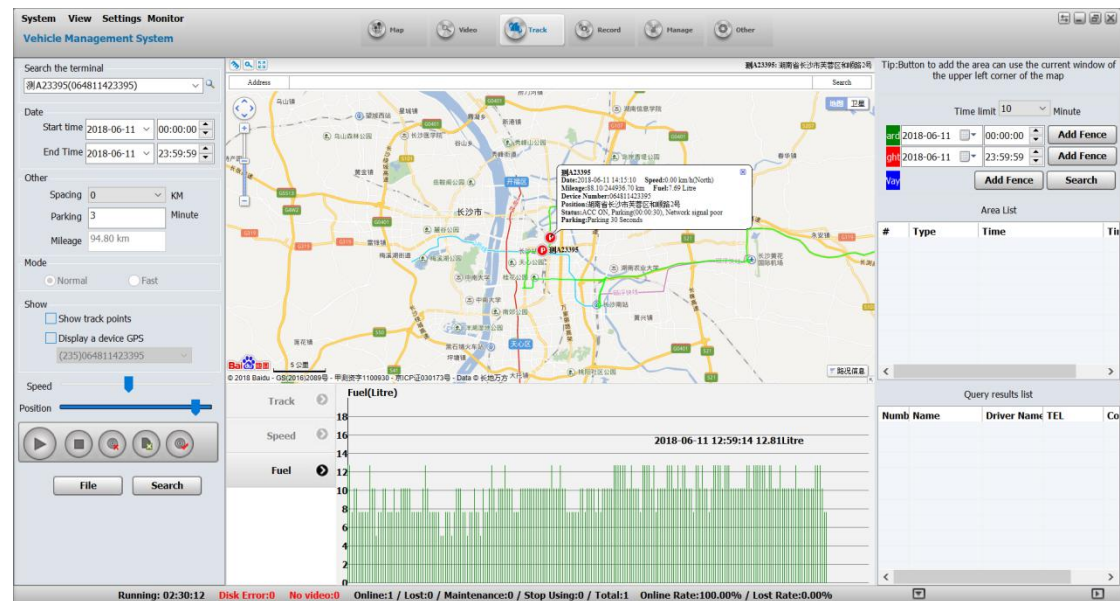
3. Obvious abnormality statement on oil mass: Once the alarm sounds, the record can be made in the statement. (The above value refers to the set alarm threshold)



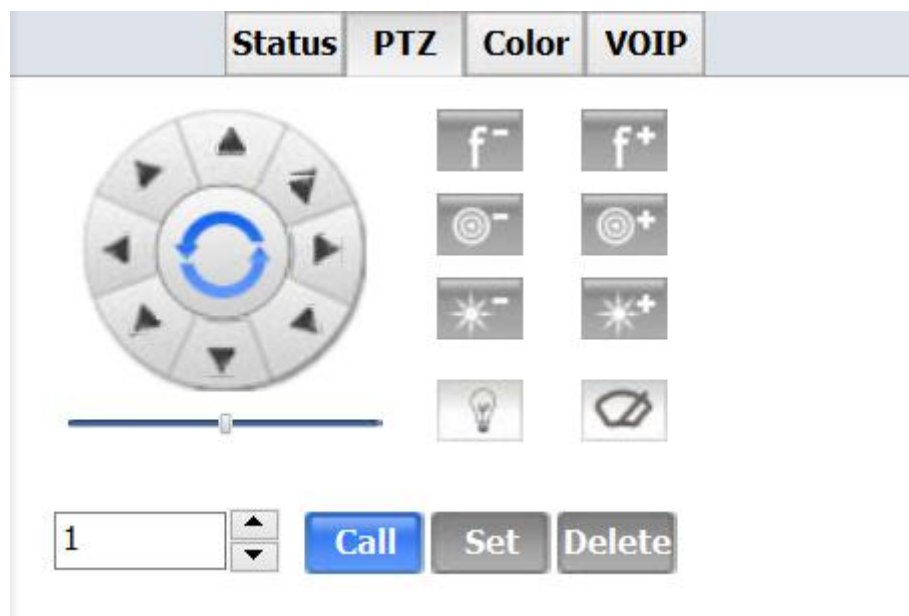
Statistics time and oil mass change:

If the oil mass change exceeds the setting value of "oil mass change" in designated "statistics time", then the client will have oil mass alarm displayed.

5.14.3 Oil mass curve of client track

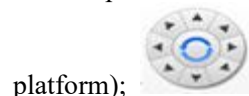


5.15 Cloud platform control



The focus video can be controlled through this control interface. For example, the equipment "Y GW1589" channel 2 is connected to the cloud platform. Then watches the channel 2 video of the equipment "Y GW1589" on the video window, the video window is in the selected status. At this time, operation cloud platform can control the channel.

Automatic cruise: Click the azimuth pointing arrow in the icon, to set the cloud platform to turn in the specified direction (This function requires the support of the equipment and the cloud



Focal length: Click the icon to zoom in or out the focal length of the video;



Aperture: Click the icon to zoom in or out aperture size of the video;



Focus: Click the icon to adjust focus size of the video through backwards or forward.



Lighting: Click the icon to turn on or turn off the lights of the video.



Wiper: Click the icon to turn on or turn off the lights of the wiper.



Call / setting / delete: These operations are for preset point, with up to 64 points in the interface.

Preset point setting rules:

1. Set every preset point on different automatic cruise lines separately, then call each of the preset points respectively to confirm whether the settings are done.
2. Find automatic cruise instructions in the brochure of the cloud platform

Generally, the automatic cruise instruction of cloud platform is 98 or 95. Of course, each manufacturer produces different instructions of the cloud platform. When the instructions are found, you can operate it.

5.16 Network flow statistics

5.16.1 Configuration of network flow

Select an equipment, press the right button, click “configuration of network flow”, and display the configuration of network flow interface as shown in the figure

3G Flow Config - A23395(064811423395)

Data Plan Counter

Today	0.00	MB
Remaining	0.00	MB
Remaining	19	Day
Total Used	0.00	MB

3G Flow Config

Data Counter:	Close	
Bill Date	0	Th
Monthly Data Plan	0	MB
Daily Limit	0	MB

Flow Limit Alert

<input type="checkbox"/> Open
Daily Limit 0 %
<input type="checkbox"/> Open
Month flow remind 0 %

Obtain device 3G information successfully!

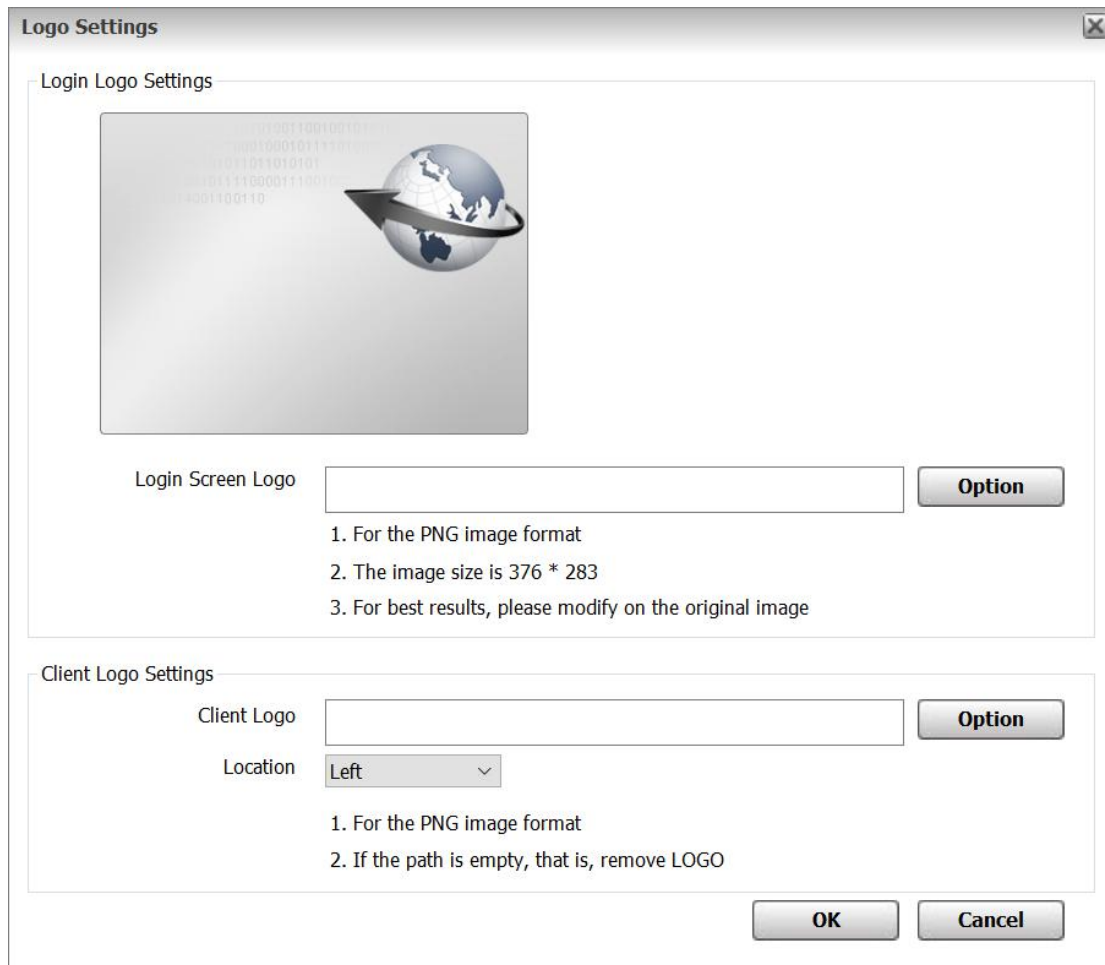
Save Refresh Exit

Firstly, you need open traffic monitoring, and then conduct relevant parameters configuration.

5.16.2 Network flow statistics

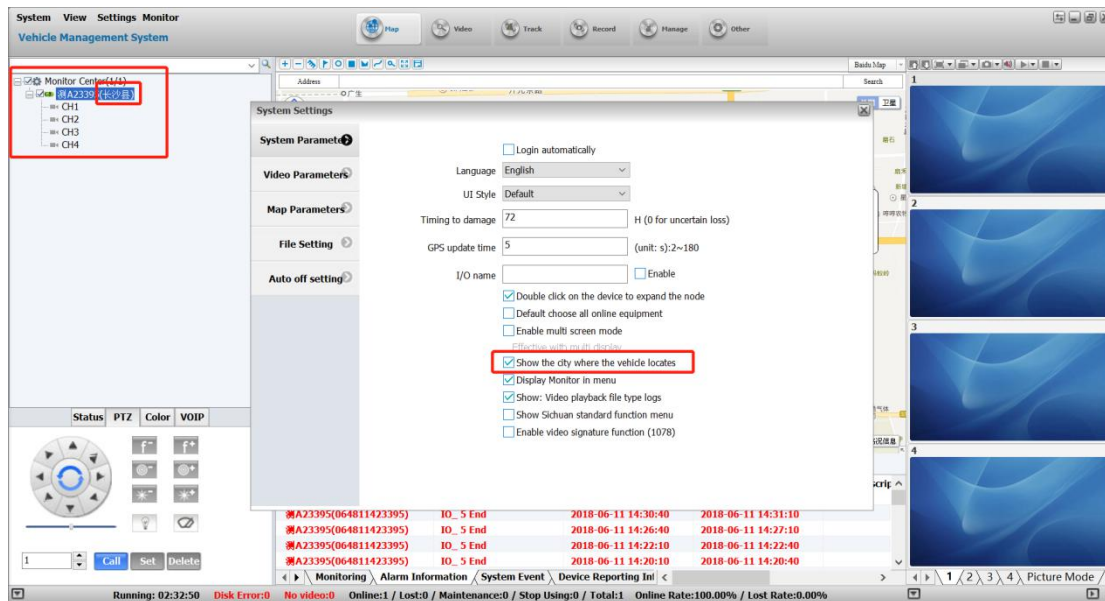
- Check traffic statistics of each equipment.

Select an equipment, press the right button, click “statistics of network flow”, and display the statistics of network flow interface as shown in the figure

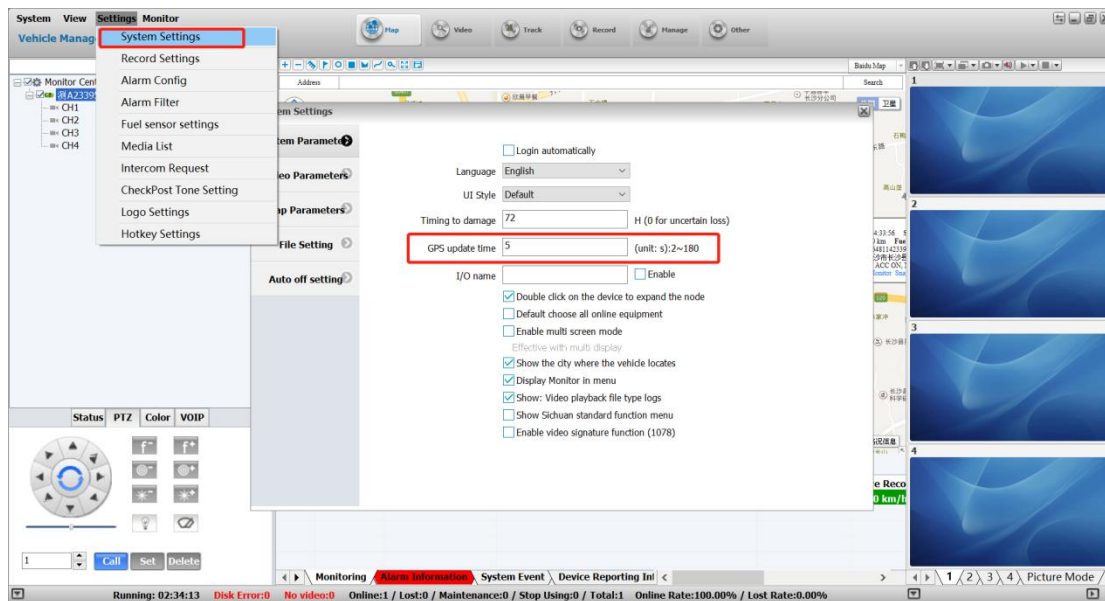


5.18 System setting

5.18.1 The city where the vehicle is displayed



5.18.2 Update time of system GSP



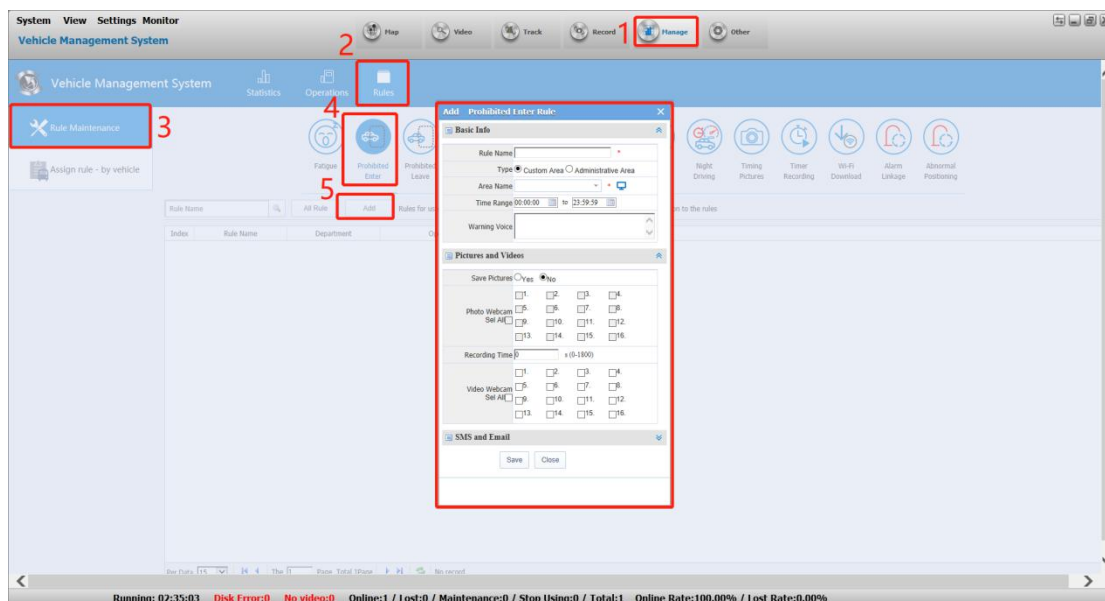
5.19 Electronic fence

5.19.1 Regional configuration by client

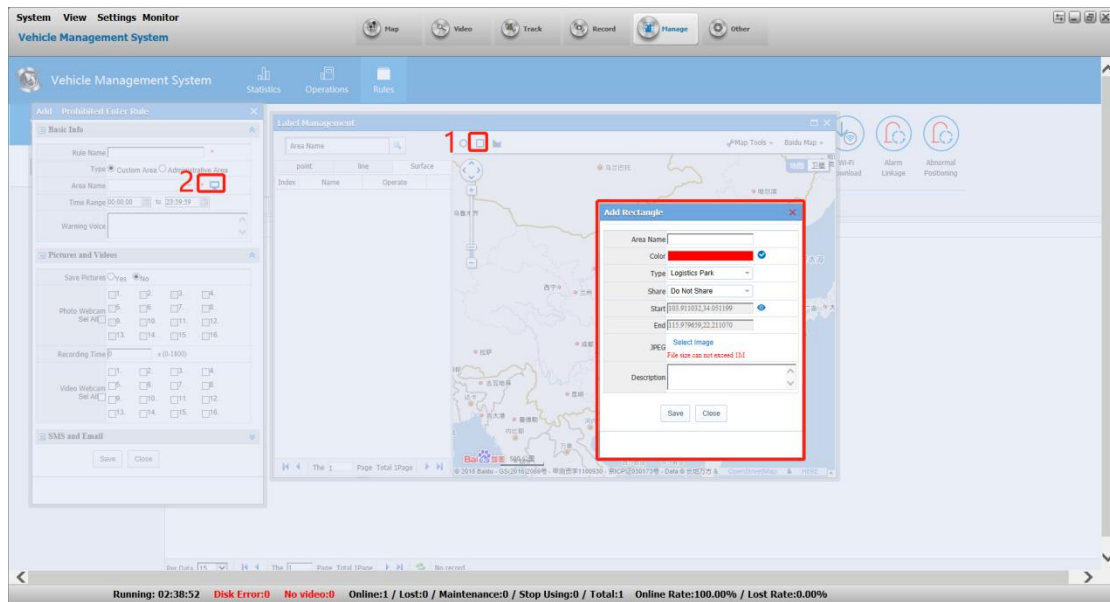
(See operation in Chapter 5.3.2)

5.19.2 Configuration of electronic fence alarm.

Information management> Rule management>Entry prohibition rules, exit prohibition rules, regional speed limits, configuration of electronic fence alarm.

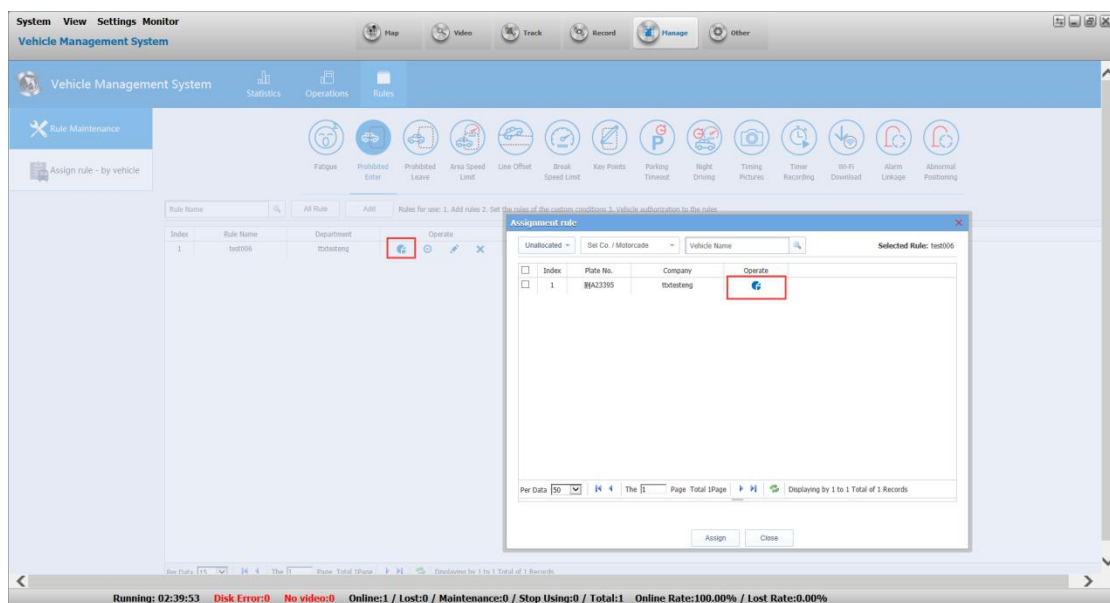


The region name can be drawn a region on the map with the reference to Section 5.18.2, or it can be drawn under the management of rules management, as the figure below



5.19.3 Distribution rules

The vehicles of entry prohibition are distributed below the rules

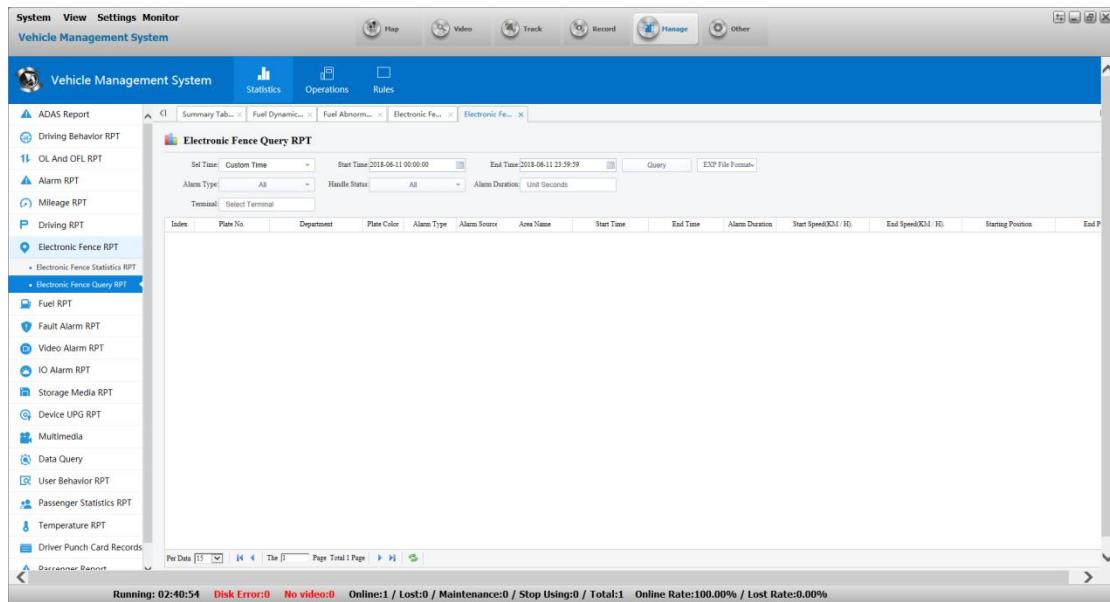


After the completion of configuration, when the vehicle generates an alarm, the client will have the corresponding alarm information displayed.

If the TTS voice prompt is configured for over speed or low speed, the TTS voice will be sent to the equipment automatically after the alarm

5.19.4 Statement of electronic fence

Click "information management", and then click the "statistics report", to open the electronic fence report, and check the report according to conditions

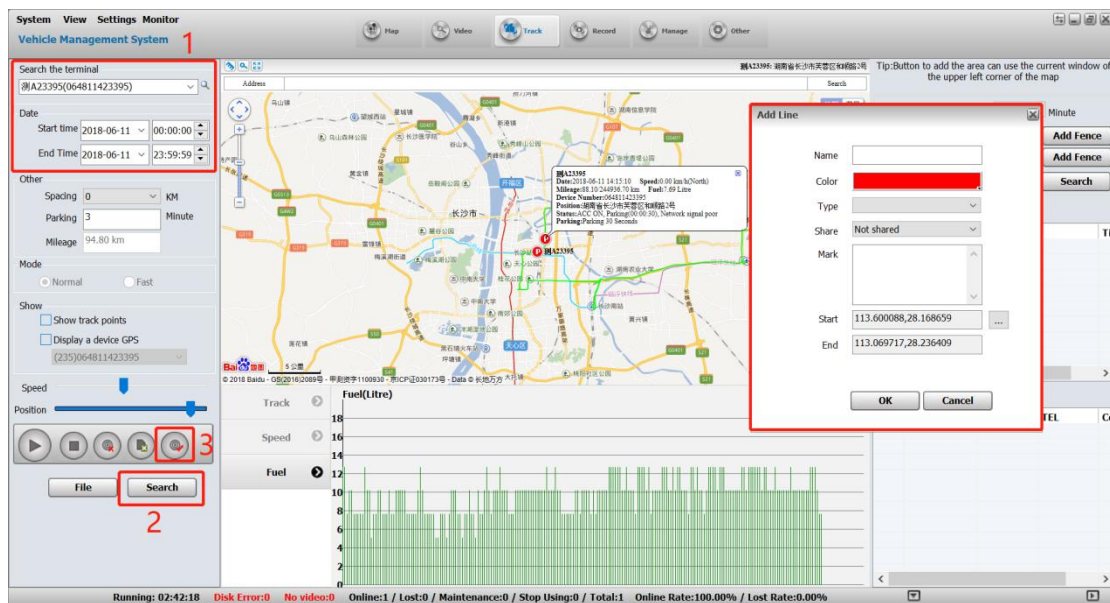


5.20 Line offset rule and segmented speed limit rule

5.20.1 Drawing the line

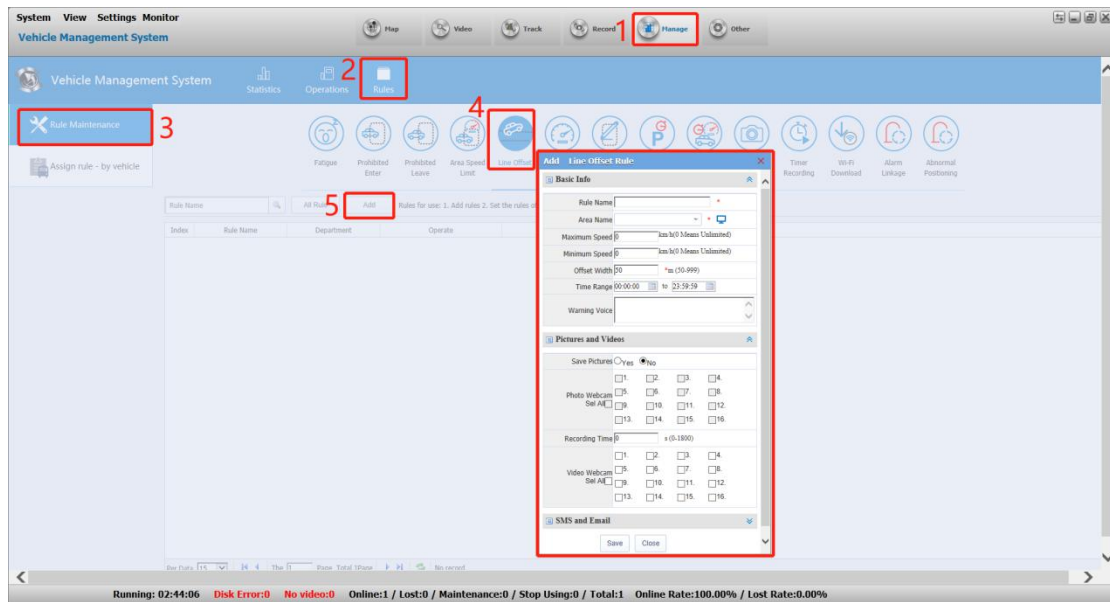
The lines drawn on the electronic map or tracks that the vehicle has passed on playback tracks are taken as the line and draw the lines again in accordance with the management stated in 5.17.2

It is recommended to use the playback for selecting line, the operation is as follows:



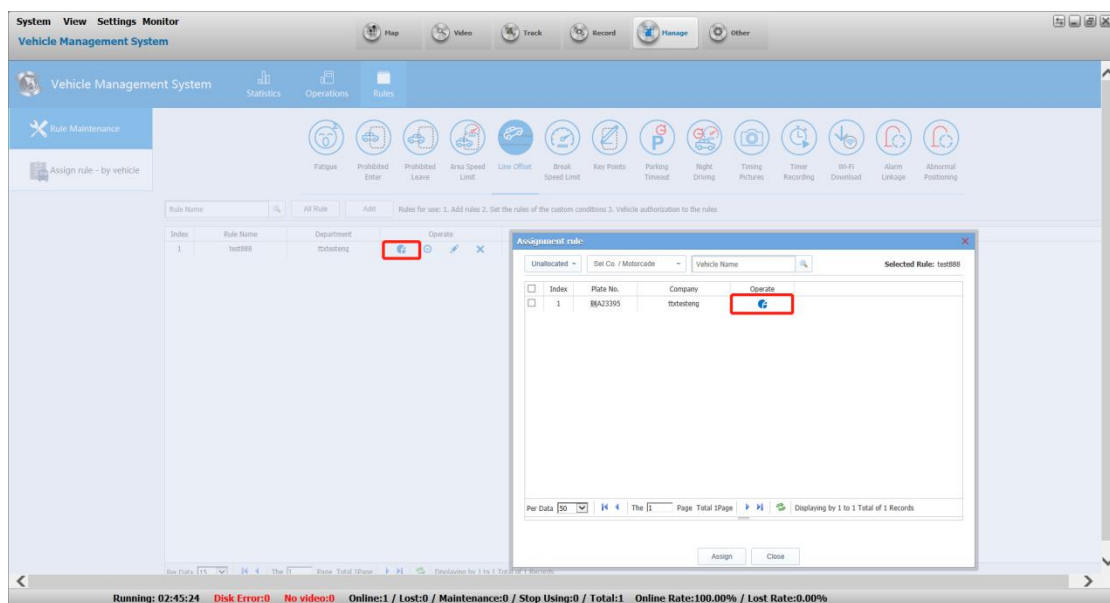
5.20.2 Configuration of electronic fence alarm on the line

Information management > Rule management > Line deviation, segmented speed limit, configuration of electronic fence alarm.



5.20.3 Distribution rule

The vehicles of entry prohibition are distributed below the rules

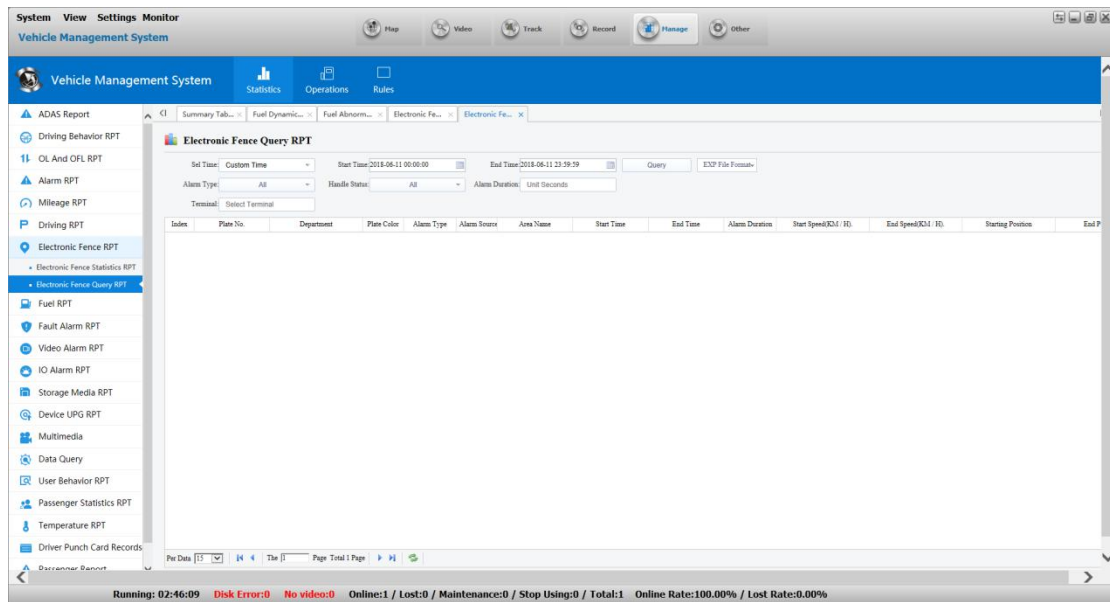


After the completion of configuration, when the vehicle generates an alarm, the client will have the corresponding alarm information displayed.

If the TTS voice prompt is configured for over speed or low speed, the TTS voice will be sent to the equipment automatically after the alarm

5.20.4 Statement of electronic fence

Click "information management", and then click the "statistics report", to open the electronic fence report, and check the report according to conditions



5.21 Common problems and solution

Problem 1: After the equipment is reported, the user can see the equipment online, but cannot see the video of the equipment

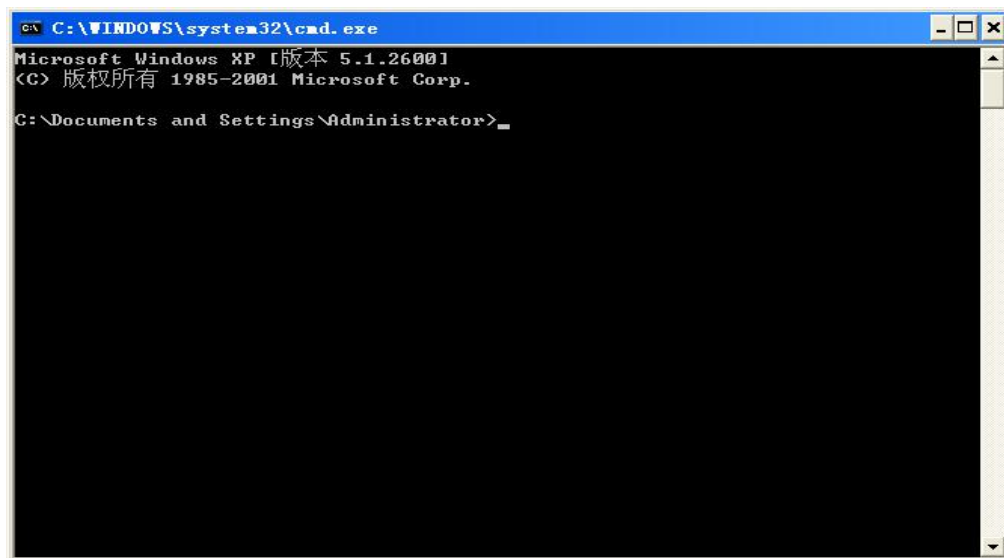
Solution

1. Confirm the normal work of the streaming media server in the CMSV6 system
2. If the streaming media is normal operation, check whether the port (6602) used in the streaming media server has done port mapping

Detection method: Enter "cmd" command in operation, and click the "confirm" button.



After operation, the operation interface displayed is as below



At this time, enter "telnet 183.16.188.23 6602". 183.16.188.23 is the public network IP used to install the CMS server, and 6602 is the port number.

If the port is opened, the interface appears as shown in Figure 1 below. If the port is not opened, the interface appears as shown in Figure 2 below.

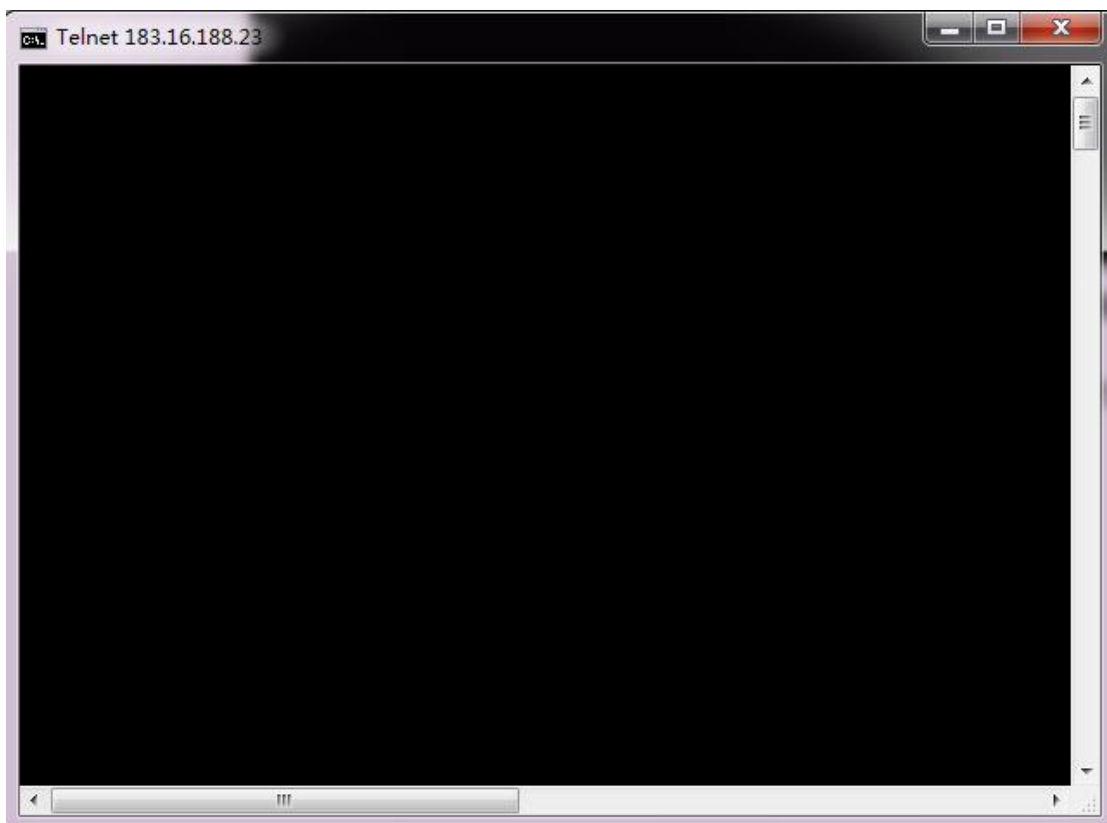


Figure 1 Port mapping has been done

Port mapping has not been done



Figure 2 Port mapping has not been done

If there is no port mapping, enter the router and make TCP mapping on the port, then the client can see the video

Problem 2: Failed to obtain the equipment information and equipment parameter information

Reason:

Usually there are three reasons for failure in obtaining equipment information or equipment parameter information on the client:

1. The network connection between the equipment and the CMSV6 server suddenly broke down;
2. The net speed of the equipment is poor;

Solution:

1. Check the network connection status between the equipment and CMSV6 server. When the connection suddenly broke down, the equipment seen on the client is still in the online status, and it will take about 3 minutes before the client device goes offline;
2. Due to poor network speed, when you do not get information for a long time, there will be a hint of failure to get information. Close the window and try again;

Problem 3: Null cloud platform automatic cruise

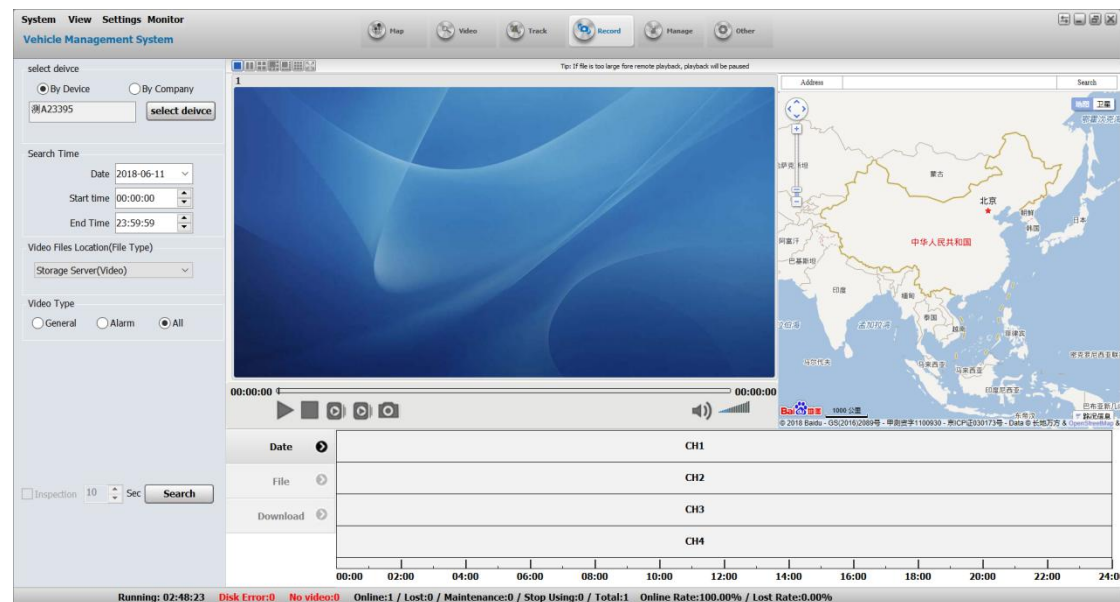
Reason:

Null cloud platform automatic cruise usually relates to the equipment.

Solution:

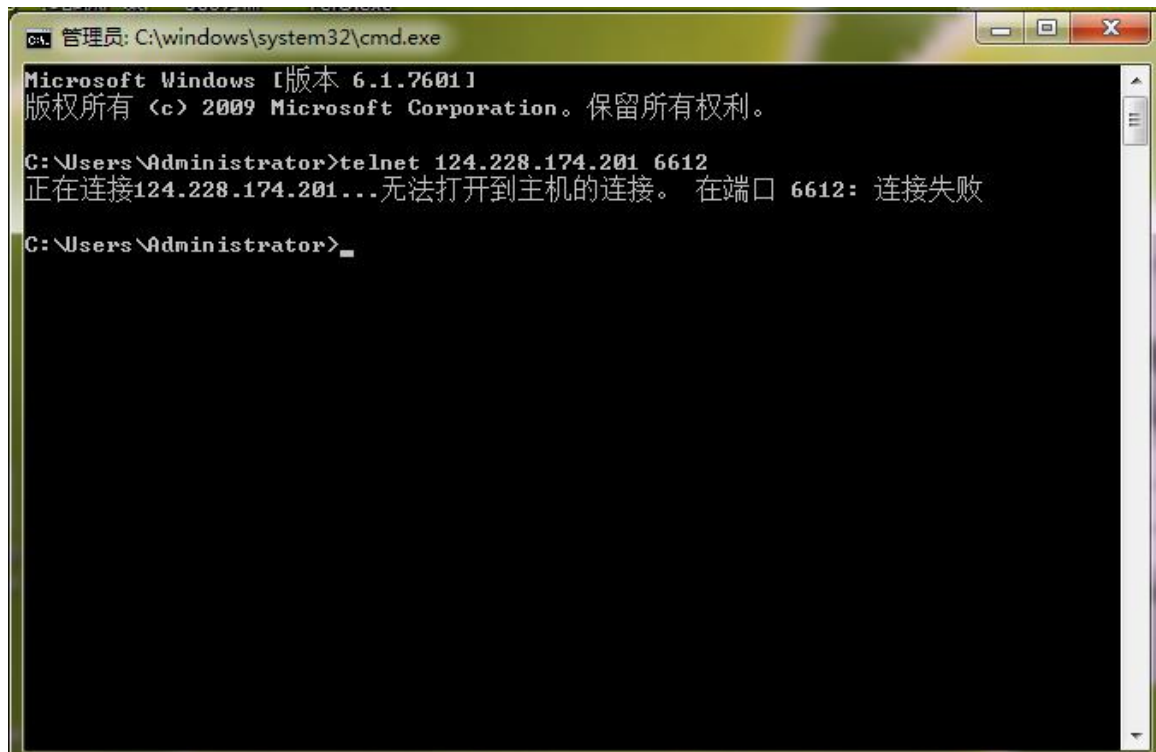
1. The cloud platform does not support the automatic cruise function;
2. The equipment does not support the automatic cruise function of the cloud platform;
3. The automatic cruise function is not opened;

Problem 4: Both the snapshot and video plans have been configured, but the list of client search file is empty



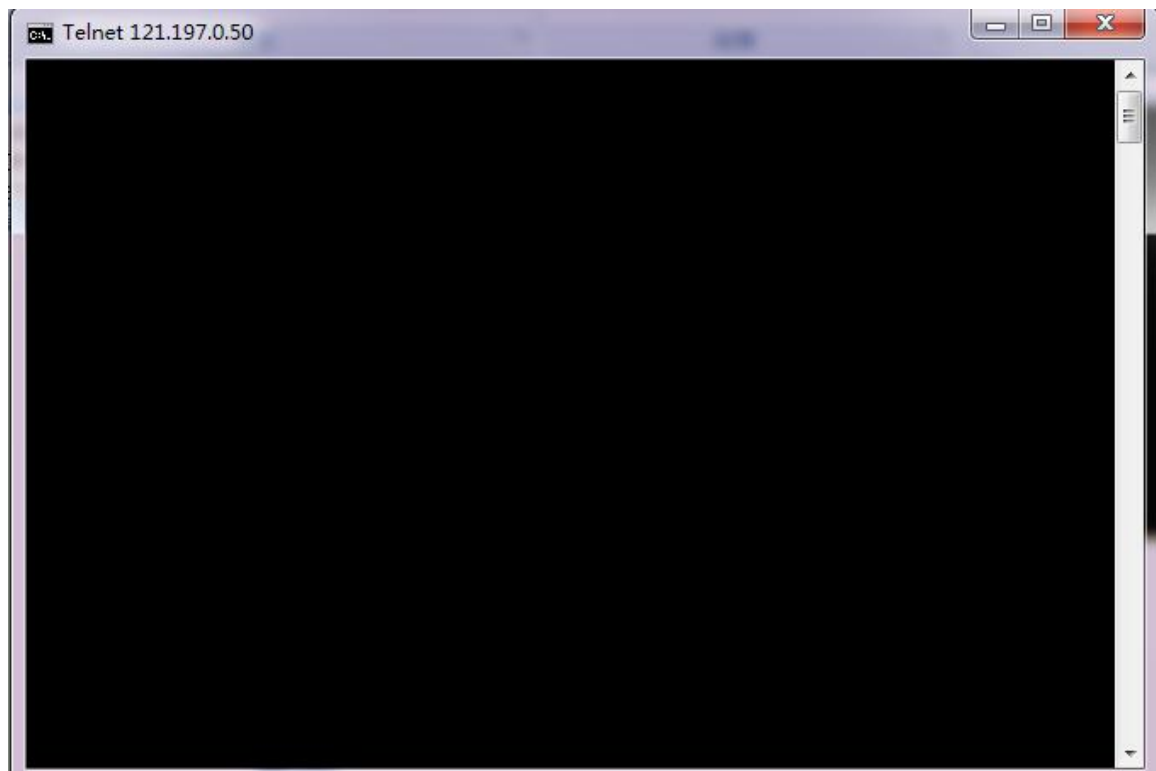
Methods:

1. Test whether the port used by storage server (6611 6612) is open. If it is not open, you need to enter the router to open the two ports.
 - a. Start menu - enter cmd in operation, enter telnet 124.228.174.201 6612. In the following figure, the port is not open

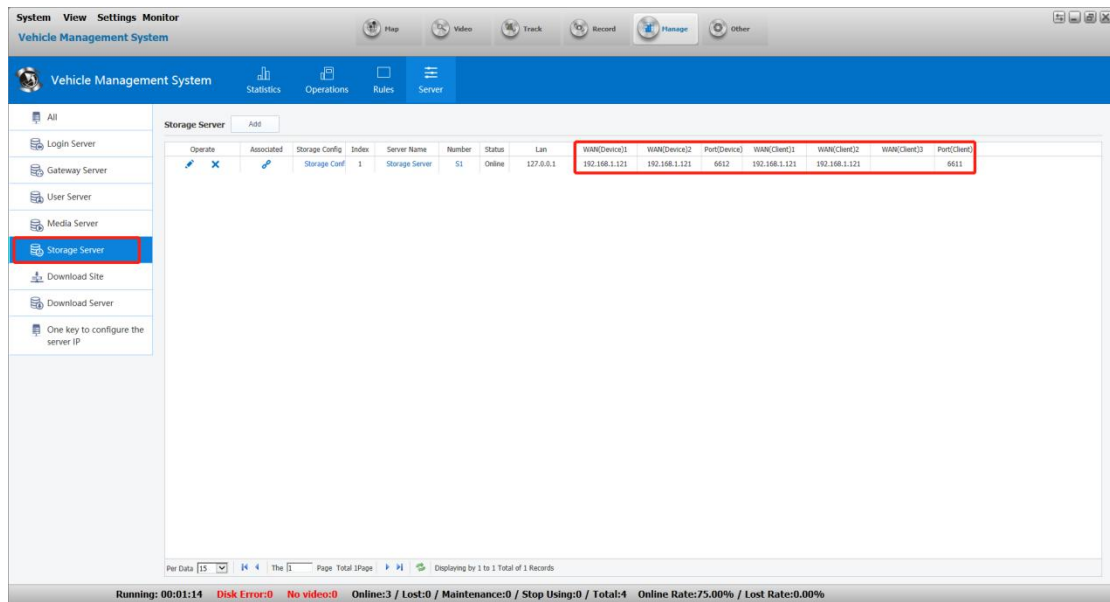


A screenshot of a Windows command prompt window. The title bar reads "C:\ 管理员: C:\windows\system32\cmd.exe". The window content shows the following text: "Microsoft Windows [版本 6.1.7601] 版权所有 (c) 2009 Microsoft Corporation。保留所有权利。", "C:\Users\Administrator>telnet 124.228.174.201 6612", "正在连接124.228.174.201...无法打开到主机的连接。 在端口 6612: 连接失败", and "C:\Users\Administrator>_".

b. Start menu - enter cmd in operation, enter telnet 121.197.0.50 6612. In the following figure, the port is open



2. If the port is open, you need to enter the web backstage to check whether the IP of the storage server and port configuration are correct



Problem 5: Failure to download video file from the storage server?

Methods:

The first situation: The video files are packing

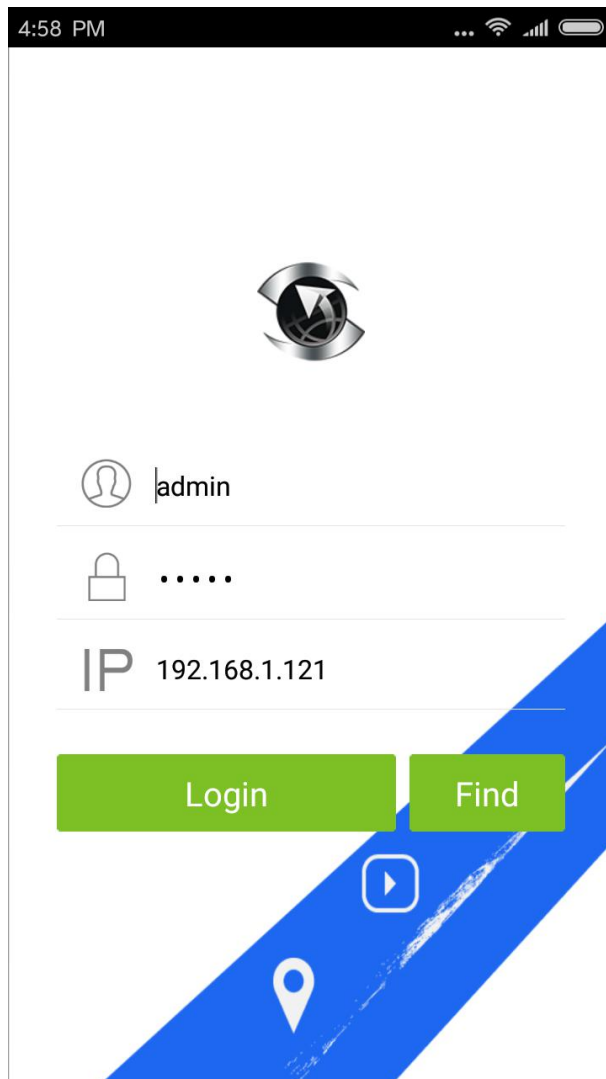
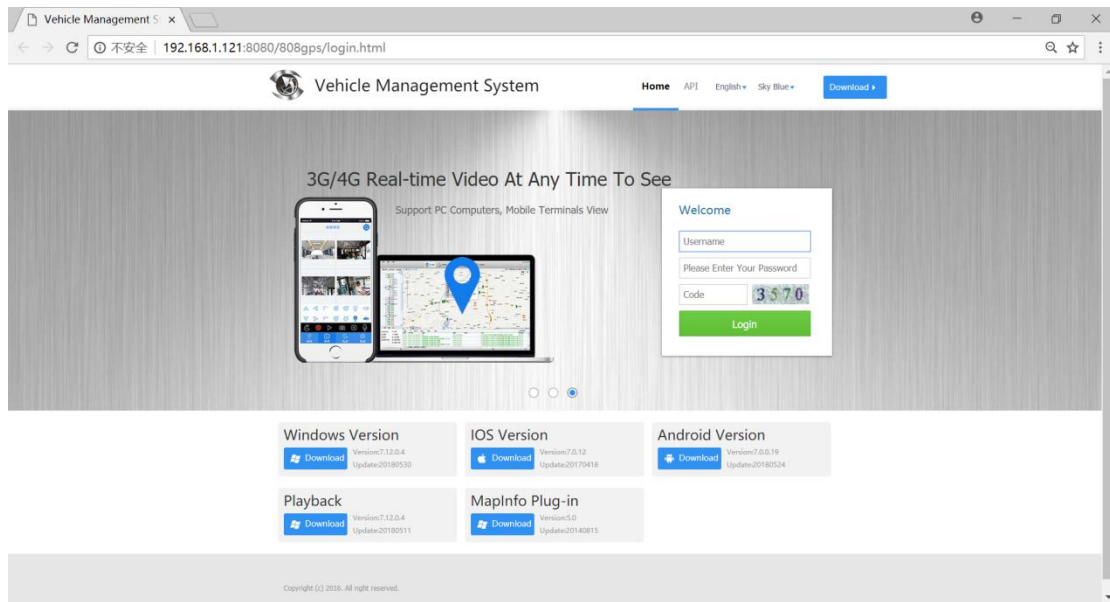
The first situation: The web backstage checks whether the IP of the storage server and port configuration are incorrect, then checks whether the port of the storage server can be connected (See specific operations in problem 4)

VI. Direction for use of mobile phone client

6.1 Android Mobile client-side

6.1.1 Login interface

Fill in the username and the password. The IP and web login IP are the same (For example: 192.168.1.106: 8080) (If the mobile client's version is before December 2015 and before the server version 7.6, the port shall be added. And vice versa, directly fill in the IP address)

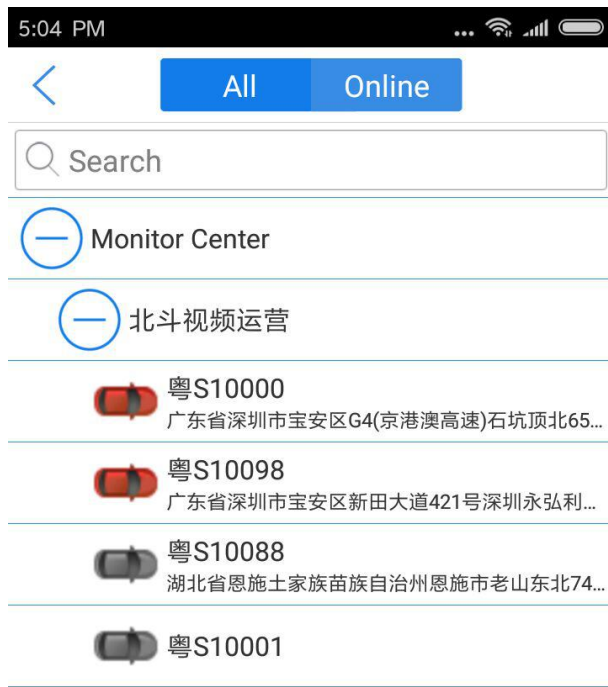


6.1.2 Map monitoring

Vehicle list, vehicle map monitoring real-time location, vehicle real-time status information, set GPS refresh time.



Select the vehicle to search in the vehicle list



Vehicle real-time status information



粤S10000

IDNO.:10000

Time:2018-06-11 17:05:34

Mileage:10678.525KM/H

Speed:108.0 km/h (Southeast)

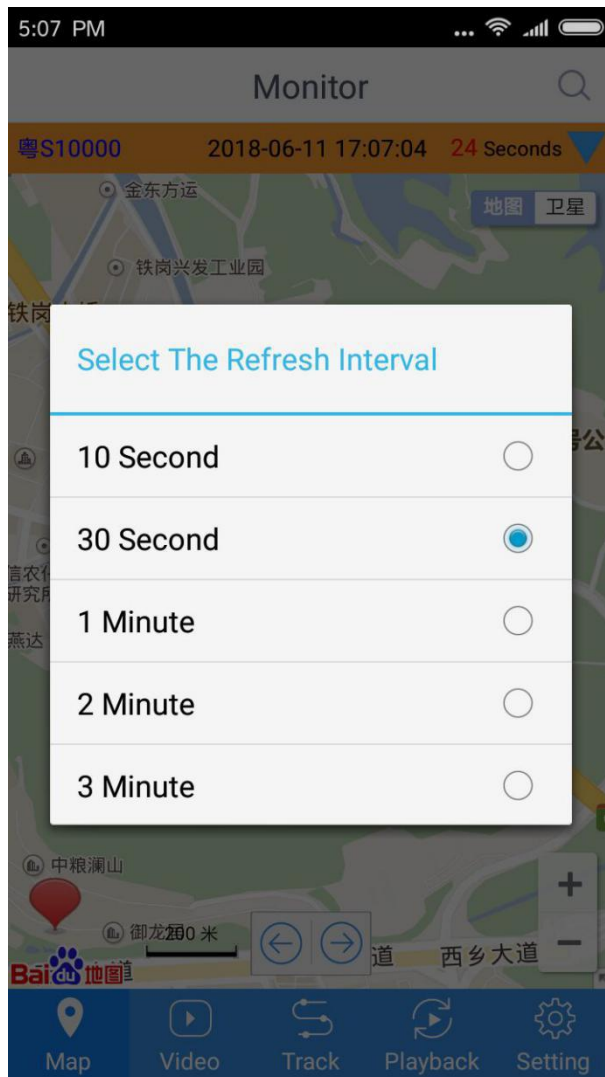
Driver:

Alarm:Overspeed

Status:ACC On,GPS Module Normal,Disk
1Normal,Disk 2Normal,Net Signal
Good,VidioLost,VidioShelter,No
Load,Operation,Latitude And
Longitude is Unencrypted,The oil line
is normal,The circuit is normal,Door is
Unlocked,GPS Position

Address:广东省深圳市宝安区G4(京港澳高速)
崎龙学校西183米

Set GPS refresh time

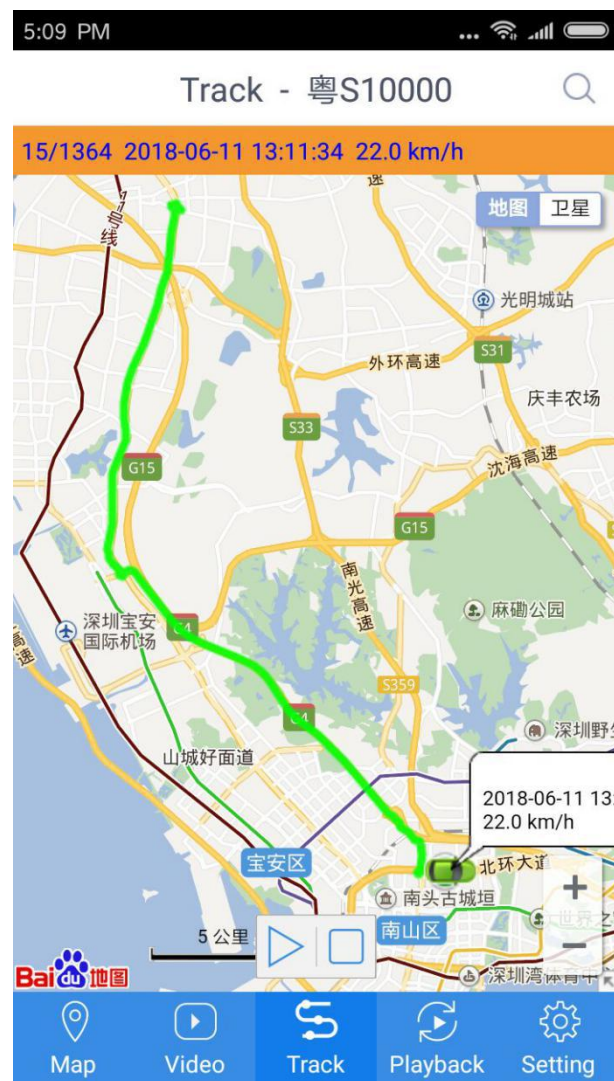


6.1.3 Video preview

Video preview also requires selection of vehicles in the vehicle list



6.1.4 Track playback





Search Trajectory

Select

粤S10000 >

Select Date

2018-06-11

Start Time

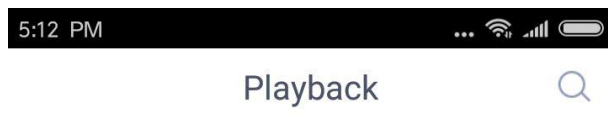
13:09:17

End Time

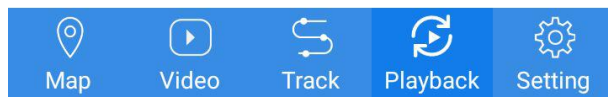
17:09:17

Search

6.1.5 Video replay



Please click on the search button



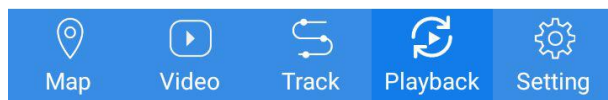
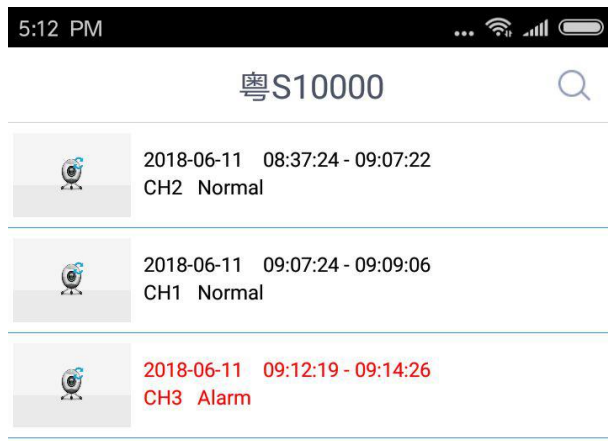
5:12 PM

Search Record

Select	粤S10000 >
Location	Terminal >
Channel	All Channel >
Type	All File >
Select Date	2018-06-11
Start Time	00:00:00
End Time	23:59:59

Search

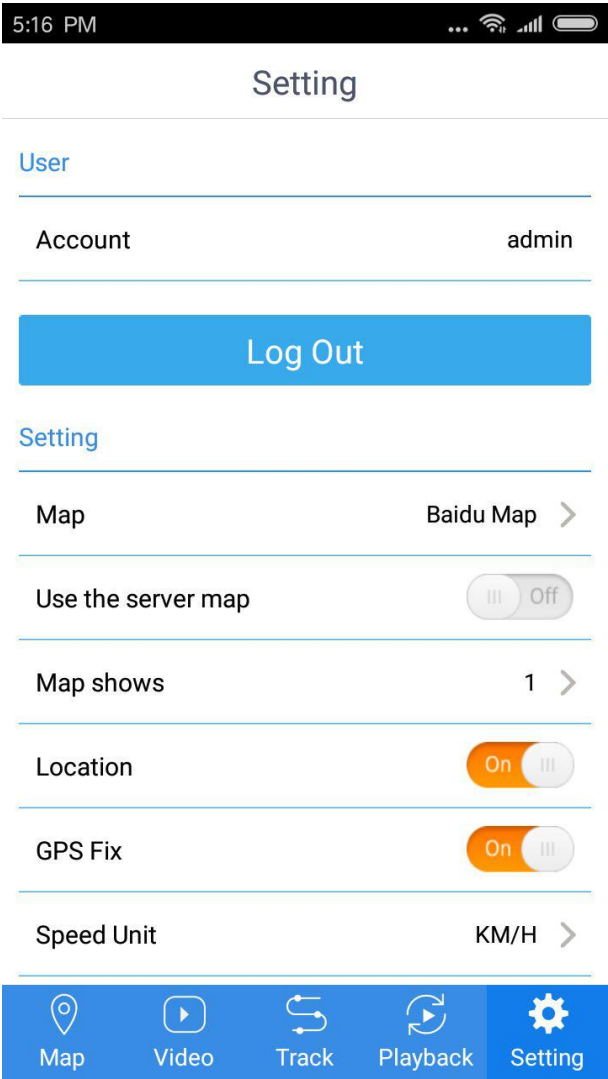
Select the file that need to be playback to playback



Video playback

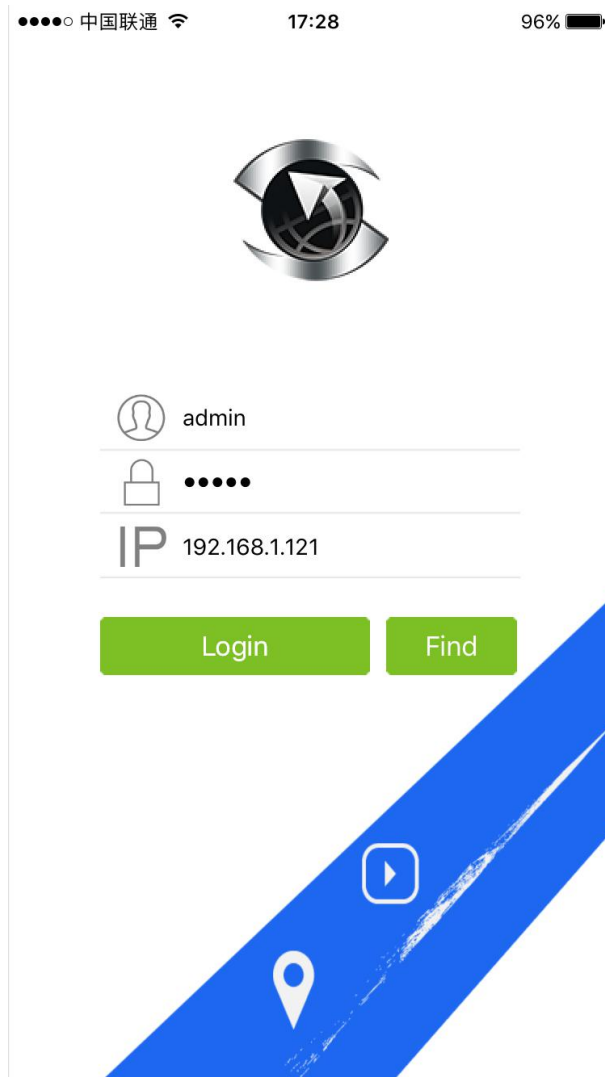


6.1.6 System setting

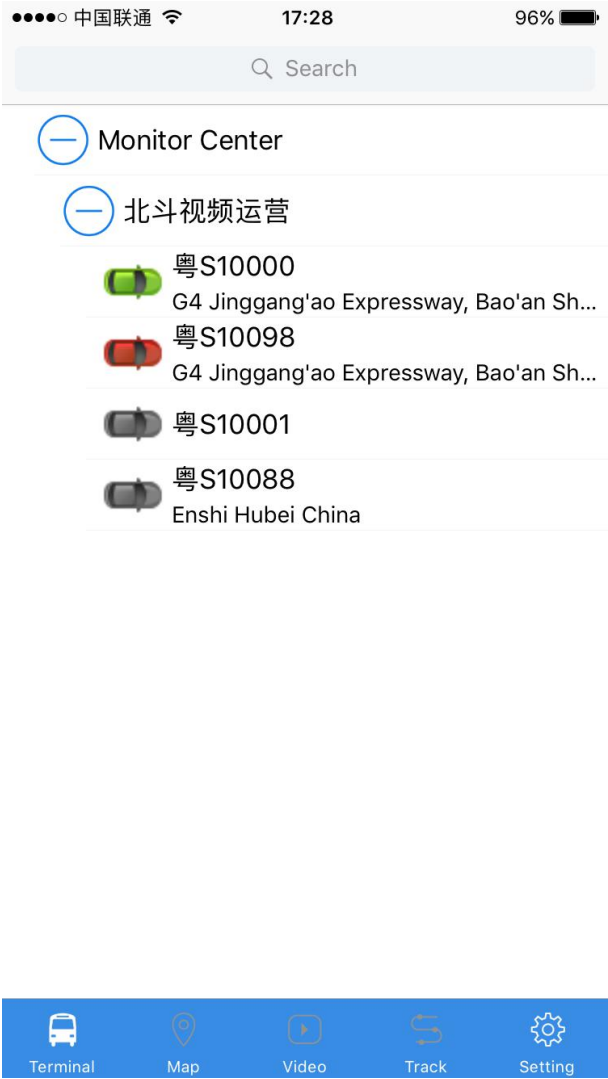


6.2 IOS Mobile client-side

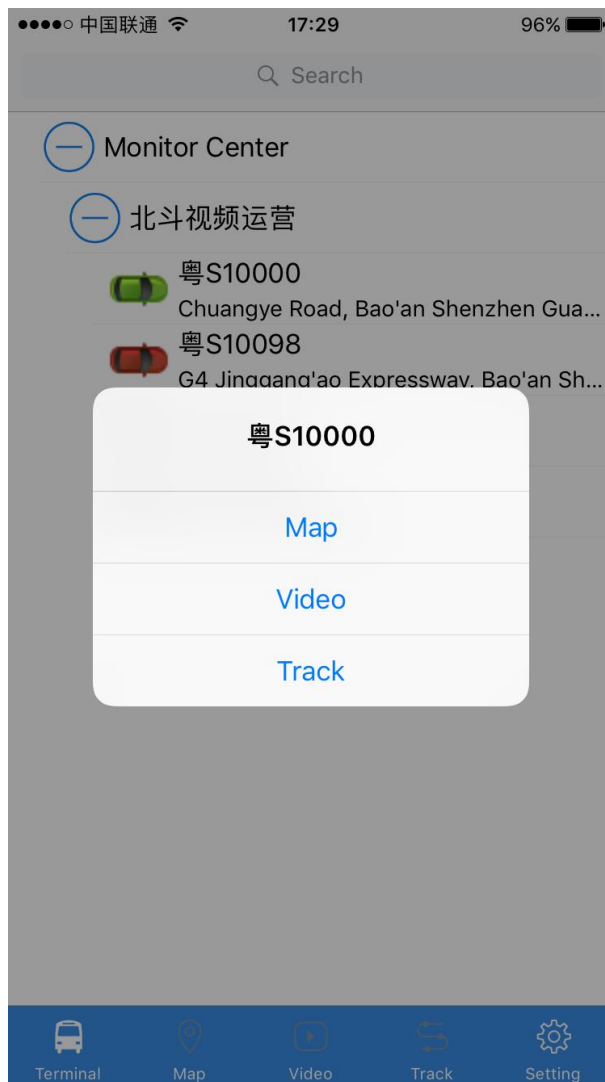
6.2.1 Login interface



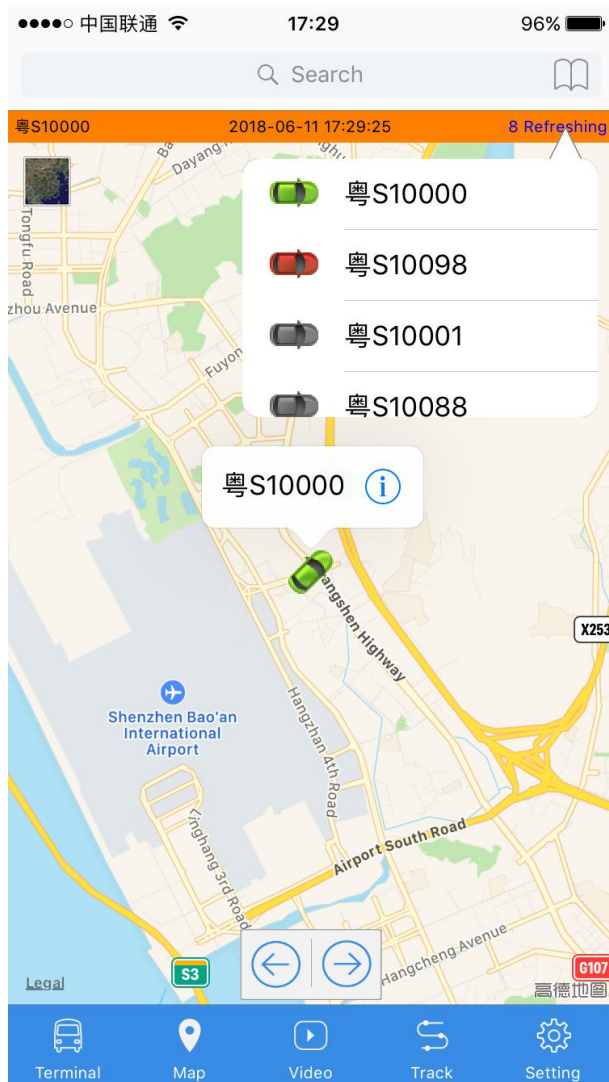
6.2.2 Vehicle terminal



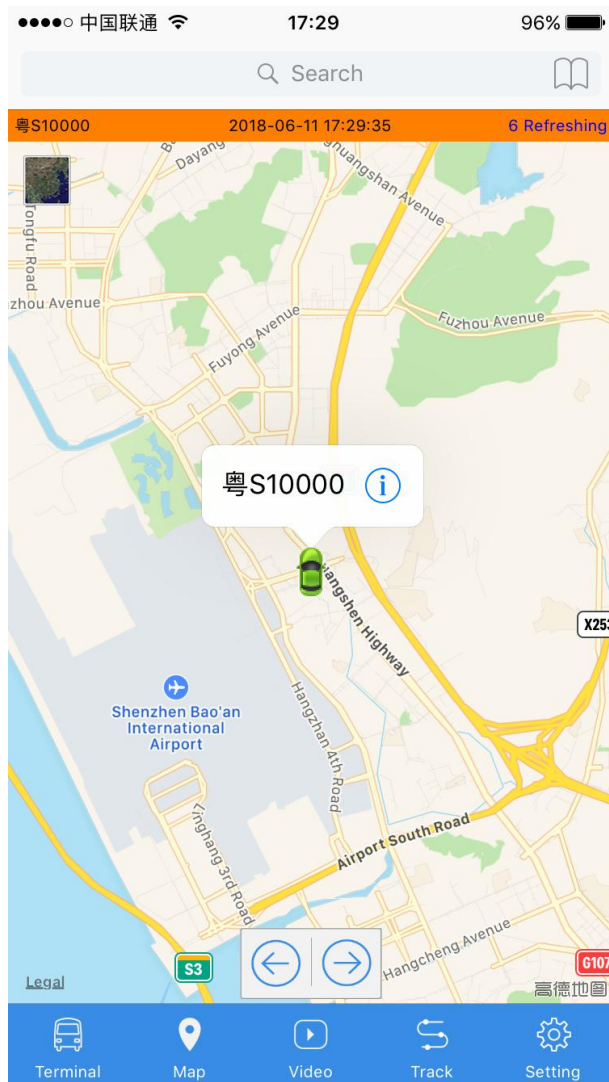
6.2.3 Selecting monitoring interface of vehicle skipping



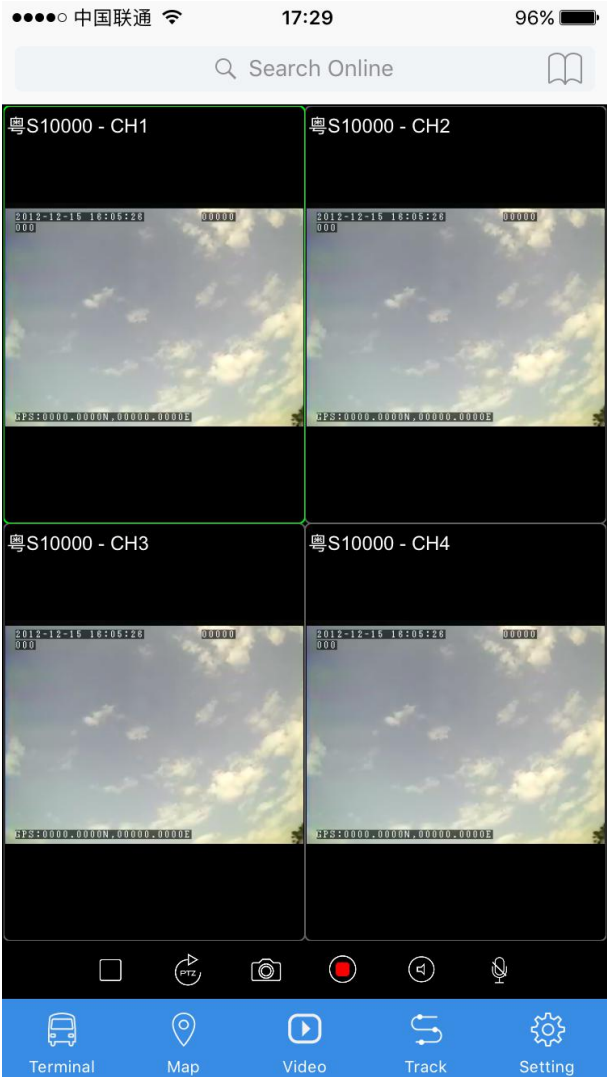
You can also search the vehicle for monitoring on the monitoring interface



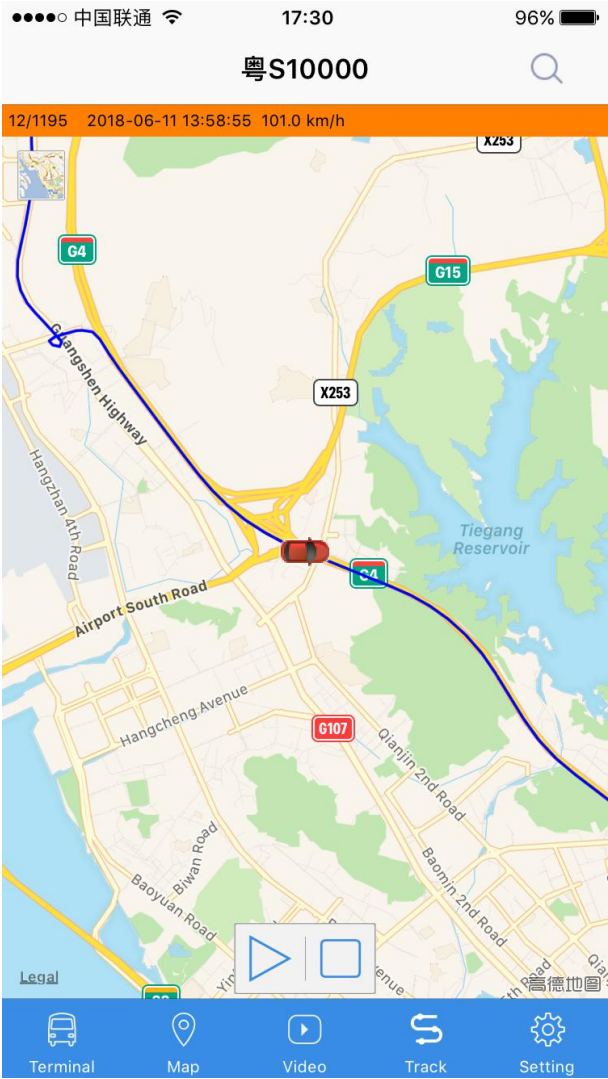
6.2.4 Map monitoring



6.2.5 Video monitoring



6.2.6 Trajectory monitoring



6.2.7 System setting

