

VACRON

2019.09.02 Version

GK-Server Web Page Manual

GK-Server Web Page Manual

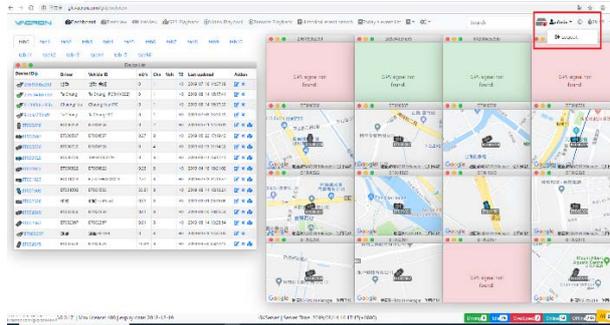
Edited by Robert 2019/08/21

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1. Browser

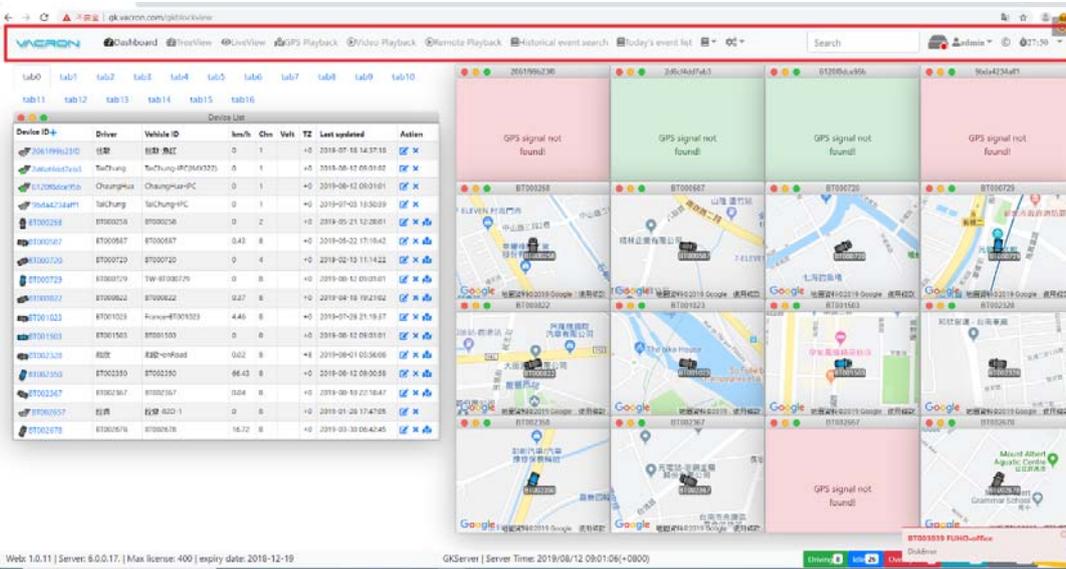
Open Google Chrome and use the default user ID and password to login (admin / admin) GKServer. The best resolution is 1920*1080pixel.

1.1 Can re-enter the webpage from the upper right.



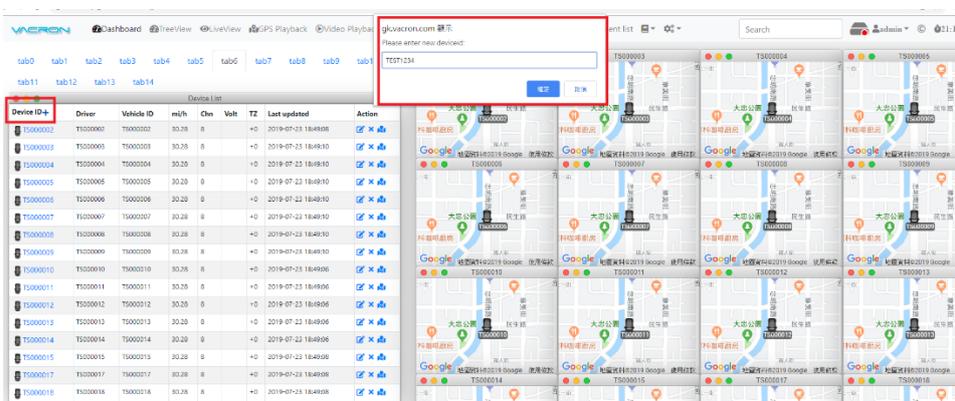
2. Full screen

Zoom in to the full screen to see each function item.



3. Add a new device

3.1 Can add a new device ID manually on the webpage.



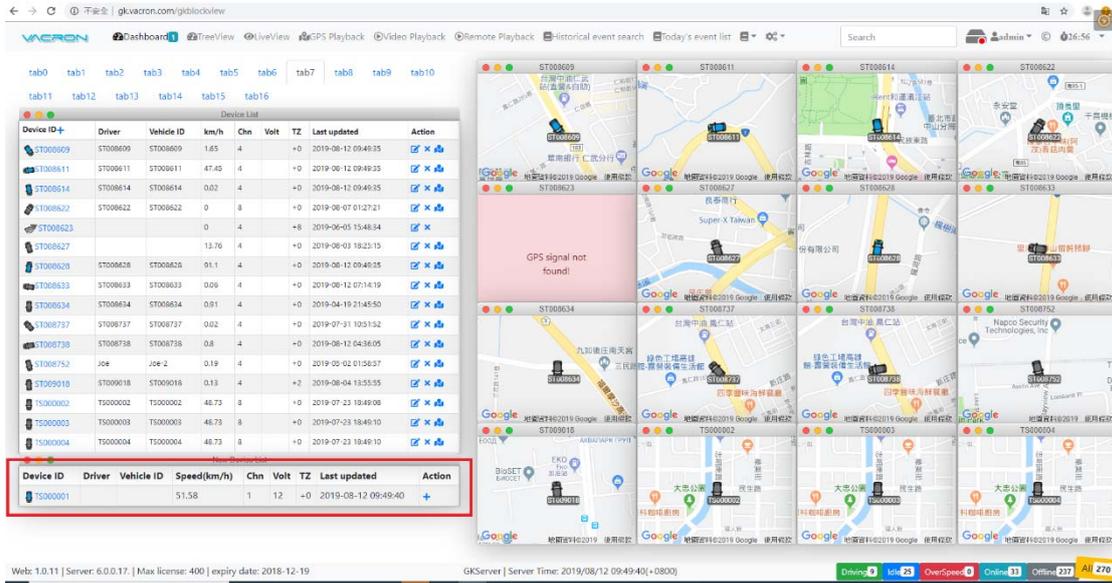
3.1.1 In the upper left corner of the car list **Device ID+**, click the left button and a window for entering the Device ID will appear.

3.1.2 The known Device ID (each device will have a Device ID), fill in the field and press OK.

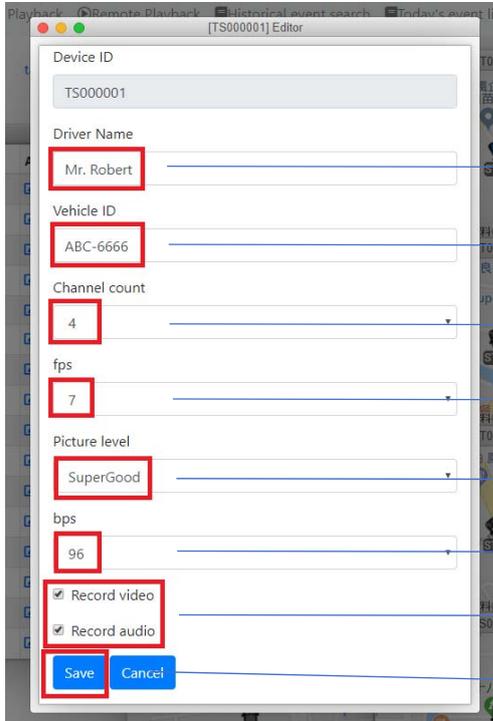
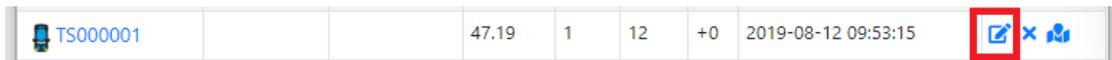
3.1.3 A new Device ID will appear in the car list, and then refer to the contents of 3.4 to edit the

new car settings.

- 3.2 Set 4G Sim card parameters (APN, DialNumber) and specify GKServer IP in the device.
- 3.3 After the device is powered on, there will be an unjoined device on google Chrome (if not manually added).



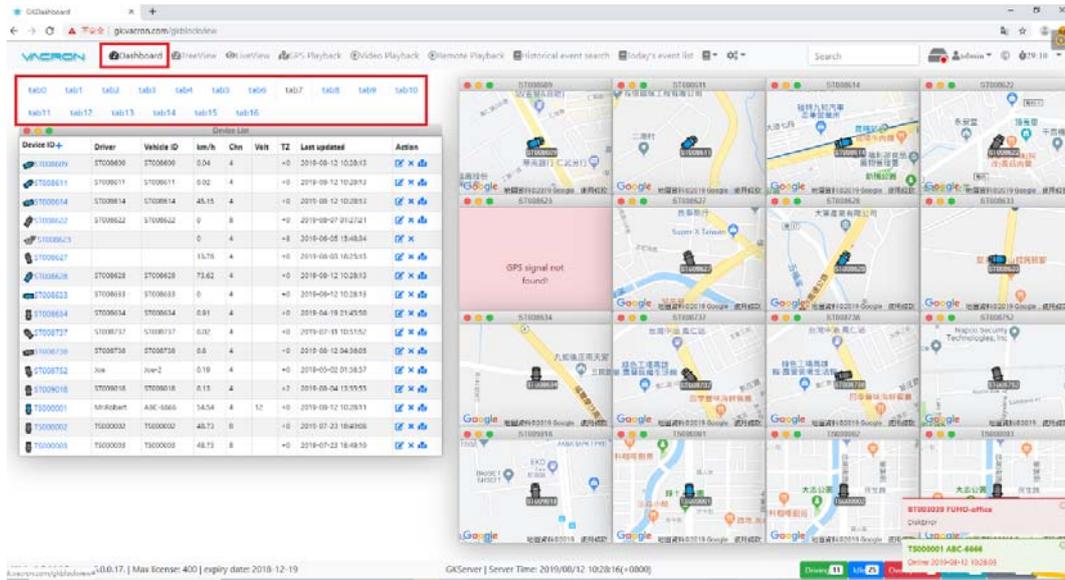
- 3.4 Click , GKServer will automatically add the device, and click the edit symbol to set the information of the new car.



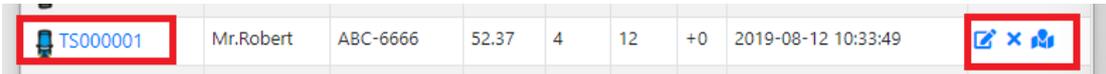
- Driver name
- Vehicle ID
- Choose how many cameras to support
- Select the number of frames per second per camera
- Picture quality
- Select the average stream for 4G transmission
- Choose whether to record
- Click the button to save the settings

4. Dashboard

It will sort according to the first English word of the device. Each page will have 16 devices, and each page will be divided by tab0, tab1, tab2,



4.1 Each device has a corresponding function as long as it has a blue icon.

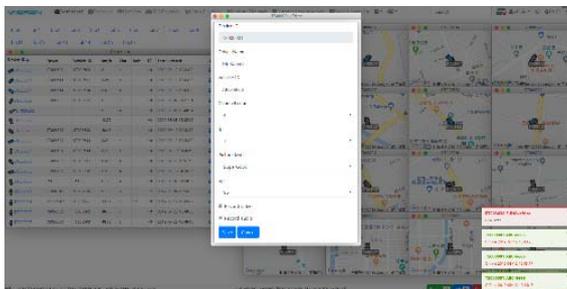


4.1.1 Click the Device ID(one device only has one ID and it will not be the same as others)

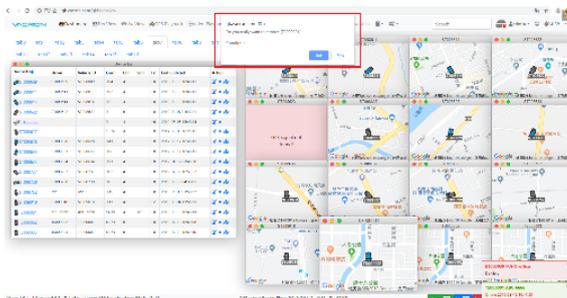
TS000001, the live view window will appear.



4.1.2 Click edit icon, it will show the setting of the device.

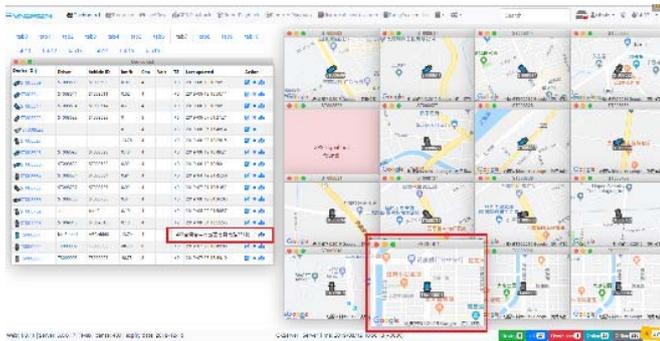


4.1.3 Click delete icon, it will show if you want to delete the device.



4.1.4 Move the mouse to the map icon  , it will display the GPS location information and the corresponding Google Map will pop up on the right.

P.S. When you don't see this icon, it response that you can't get GPS positioning of the car.

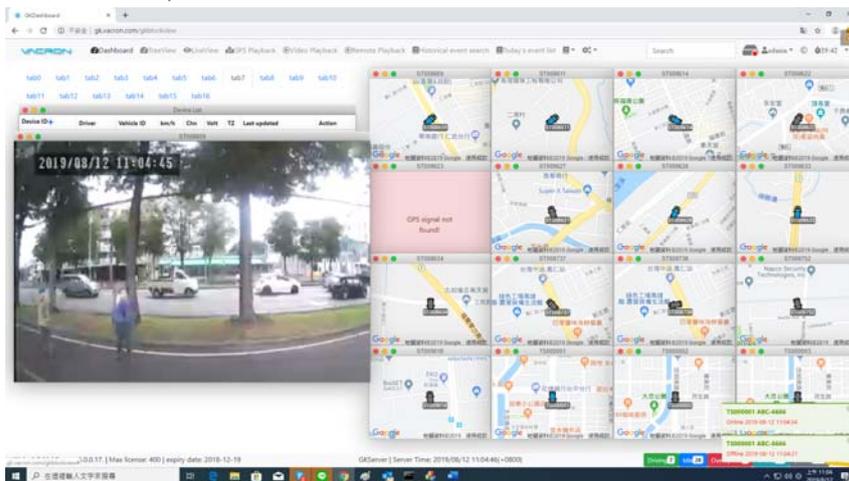


4.1.5 If you use https to login GKServer, it will support the function of intercom



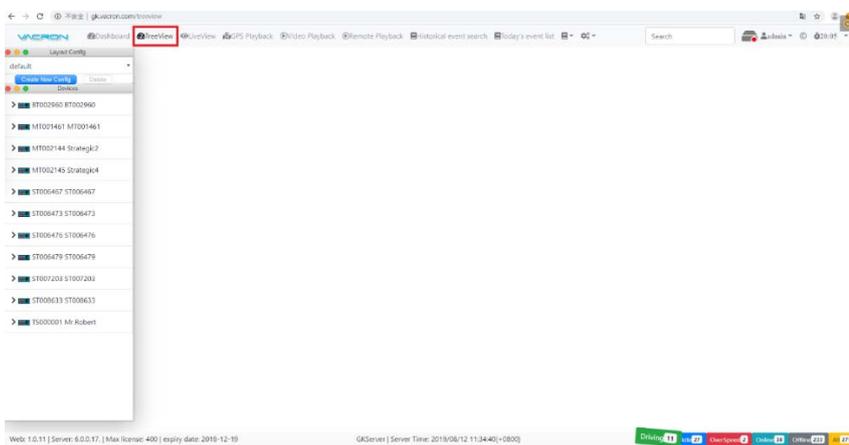
4.2 Move the mouse to the Google Map on the right and the live view of CH1 will be automatically displayed on the left.

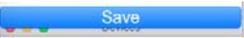
(The blue car means that the device is connected to the GKServer, if the gray car represents the car is offline)

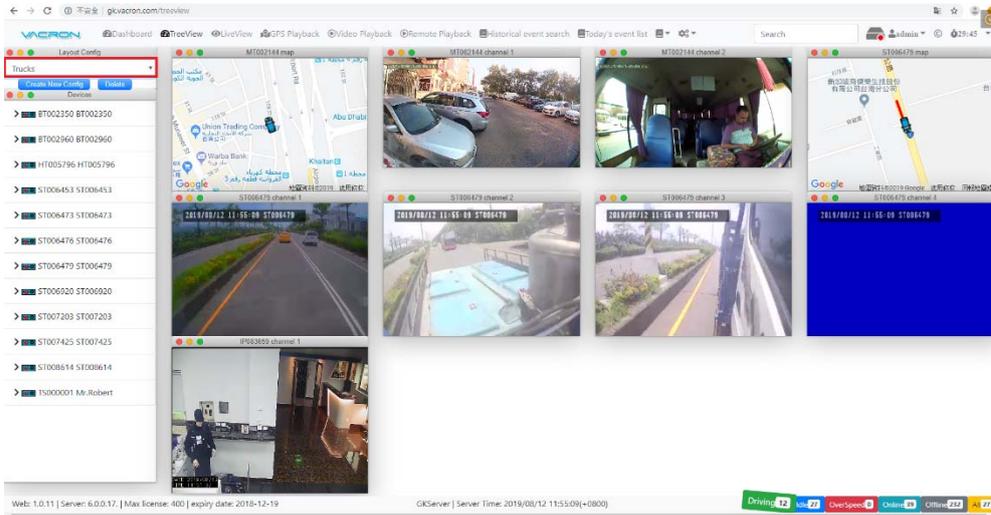


5. TreeView

This function can set the monitoring screen group of multiple cars, so that you can directly open the same monitoring screen after the next login, you can avoid re-selecting the car to monitor.

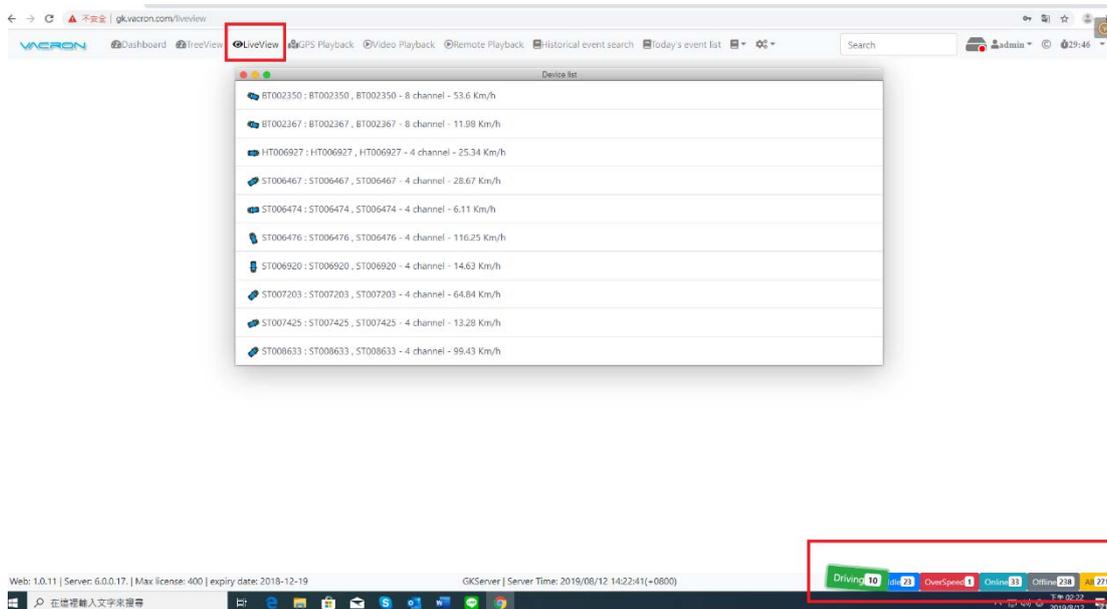


- 5.1 Click  to create a new monitoring group, then enter the name, like "Trucks", and click the button , this group will be created.
- 5.2 After opening this group screen, choose the live view or GPS position on the left to be monitored. It will be automatically displayed in the right window and automatically saved to the settings of this group, which is convenient for the next quick surveillance.



6. LiveView

This function allows you to select all channels of the device, Google Maps, speeds, and car directions to monitor.



- 7.1 GKServer will classify all vehicles. When you select the icon in the lower right corner, different vehicles will be displayed.

7.1.1  The vehicles are underway.

7.1.2  The devices are online but not moving.

7.1.3  In the case of a running vehicle with overspeed, the GKServer defaults the overspeed of 100KM/Hr.

7.1.4  The devices are online.

7.1.5  The devices are offline.

7.1.6  The devices are on the GKServer.

6.2 Display the live view and status of the car. Clicking on the vehicle will directly display the full information and GPS of the car.

 BT000729 : BT000729 , TW-BT000729 - 8 channel - 0 Km/h



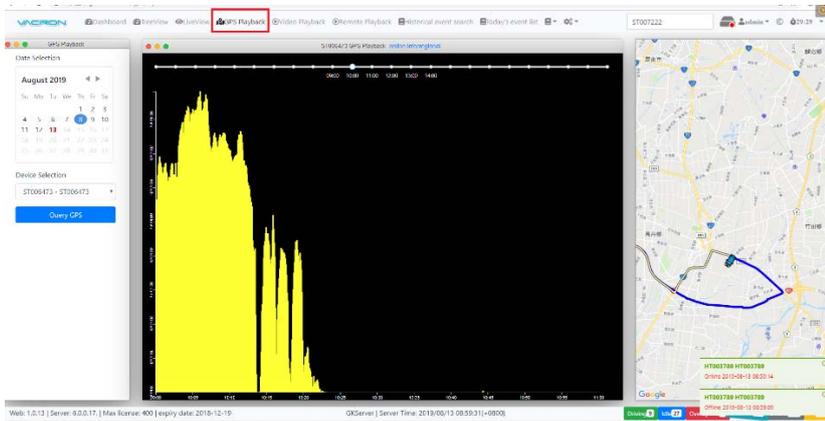
The screenshot shows a dashboard with four live video feeds of a road from different camera angles. To the right is a map showing the vehicle's location. Below the map are speedometer and direction indicators. A data popup is visible over the map.

Annotations:

- Time of the device, latitude and longitude (points to the data popup)
- Speed of the device (points to the speedometer)
- Direction of the device (points to the direction indicator)
- Live view of the device (points to the video feeds)

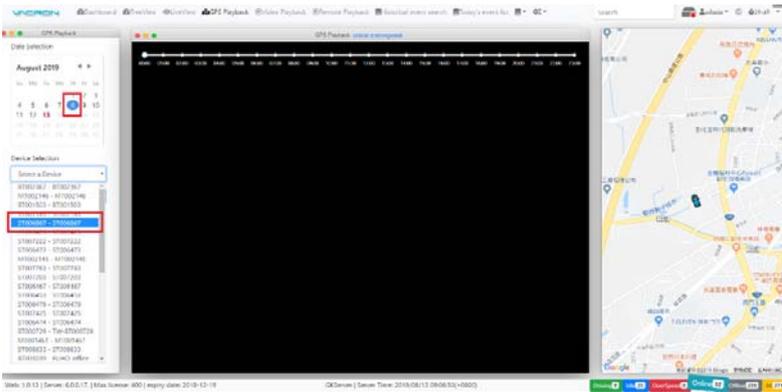
7. GPS Playback

According to the recorded GPS of the device, you can see the historical track, speed, playback, etc.

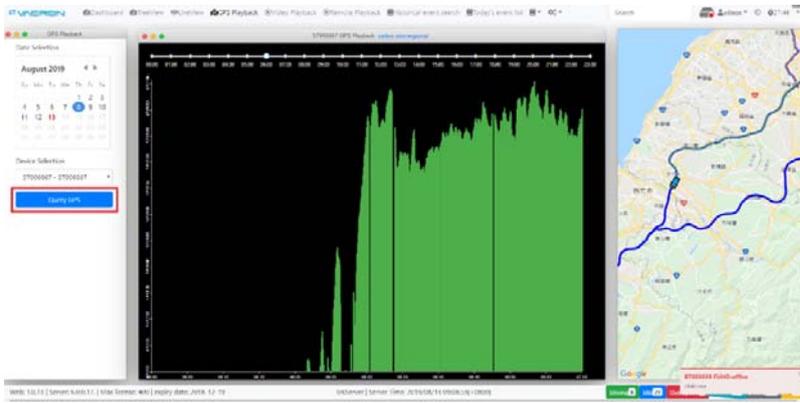


The screenshot shows the 'GPS Playback' section of the interface. It includes a date selector for August 2019, a device selection dropdown, and a 'Query GPS' button. A speed graph is displayed, showing speed over time. A map on the right shows the historical track.

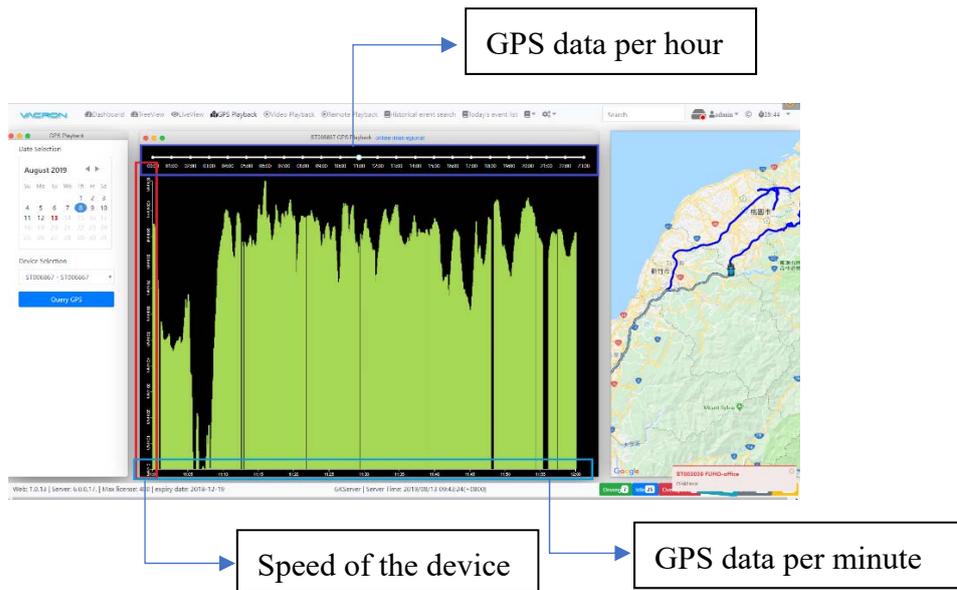
7.1 Select the date, device ID, and press Query GPS to query the GPS record of GKServer.



This screenshot is similar to the previous one, but the 'Device Selection' dropdown menu is open, showing a list of device IDs. The device ID 'BT000729' is highlighted.



7.2 Click on different times (in units of one hour) will display the speed of each time point (indicated by different colors) and the Google Map track.

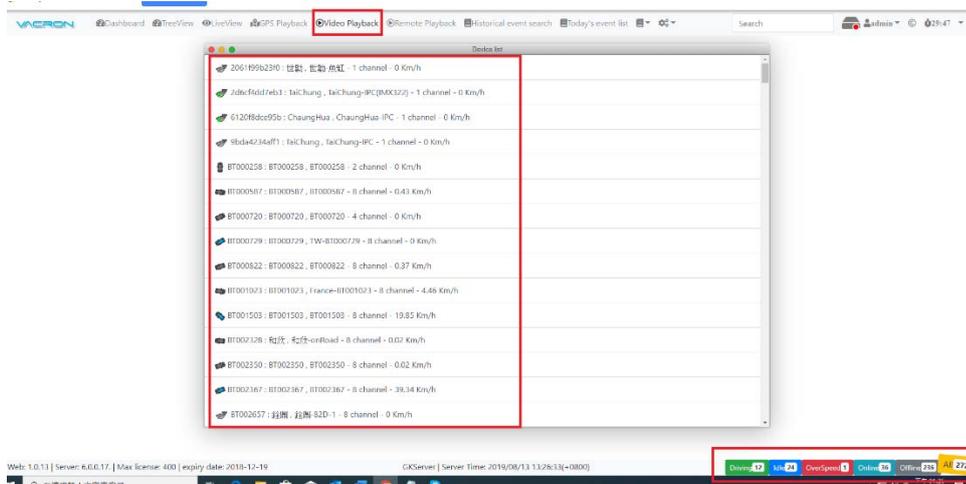


7.3 Click on the icon to display the video playback of the car at that time.

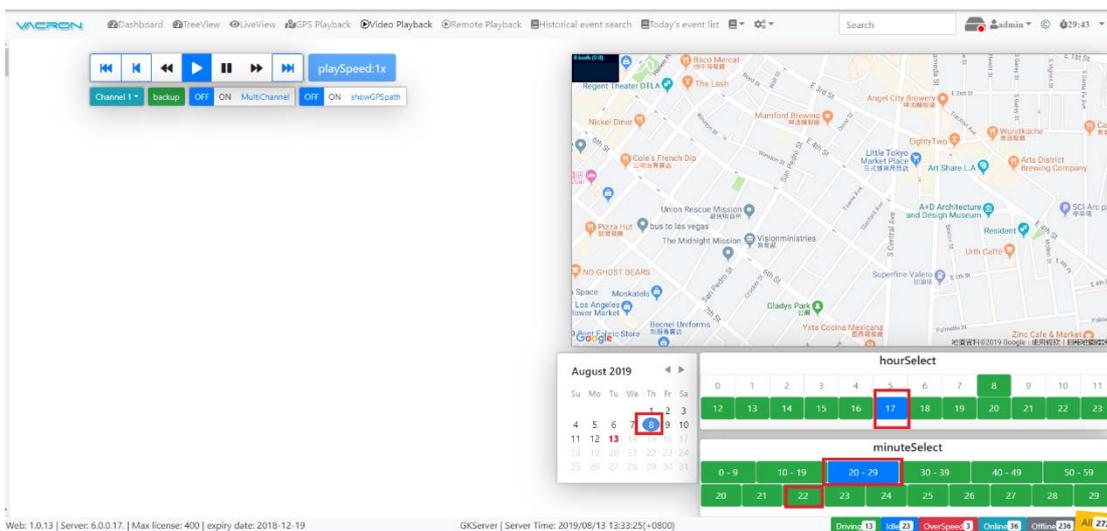


8. Video Playback

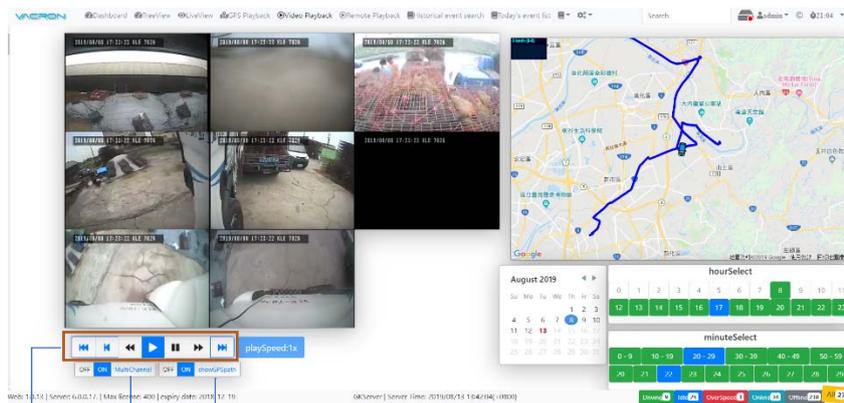
This is the GKServer video playback function. When the device is connected to the GKServer, you can perform the recording function (select it when you add a new device). When you click Video Playback, the list will be listed according to the vehicle category at the lower right.



8.1 When you select any device, you will enter the video playback option of the car, then choose the date, hour, minute segments (10 minutes for a segment), and select the minute, after that you can watch video playback, pre-set to play back CH1.



8.2 Playback option



GPS tracking display

All channels playback display

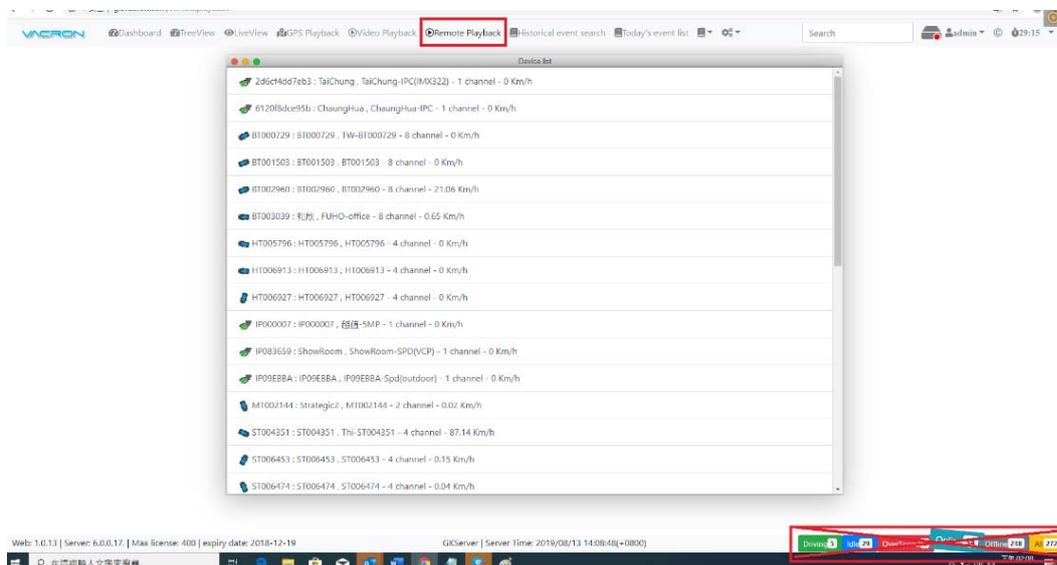
Functional description from left to right:

1. Reverse 10 seconds
2. Reverse 5 seconds
3. Slow playback multiples (0.5x, 0.2x)
4. Normal play speed (1.0x)
5. Pause
6. Quick playback multiples (2x、4x、8x、16x)
7. Forward 10 seconds.

9. Remote Playback

In the case of the device is online, then you can do the remote playback of it. When you click on the remote playback, it will display the online device.

(At this time, the vehicle classification in the lower right corner is invalid, only the online device has this function)



9.1 The Remote Playback function requires the firmware of the device to support the VCP protocol before it can be used. Click on the device, it will display the video list. If the car does not support VCP, it will not be displayed.

| # | Type | Start Time | Length |
|---|--------|---|--------|
| 0 | Normal | 2019-08-13 12:05:04 ----> 2019-08-13 12:23:05 | 1801 |
| 1 | Normal | 2019-08-13 12:23:05 ----> 2019-08-13 12:58:17 | 3012 |
| 2 | Normal | 2019-08-13 12:58:18 ----> 2019-08-13 13:28:21 | 3003 |
| 3 | Normal | 2019-08-13 13:28:21 ----> 2019-08-13 13:53:25 | 3004 |
| 4 | Normal | 2019-08-13 13:53:25 ----> 2019-08-13 14:07:56 | 1431 |

Web: 1.0.13 | Server: 6.0.0.17. | Max license: 400 | expiry date: 2018-12-19

GIServer | Server Time: 2019/08/13 14:32:59(+0800)

Driving 2 Mile 25 OverSpeed 2 Online 23 Offline 240 A 272

Click on any item to watch the remote playback.

9.2 Remote playback function description

Web: 1.0.13 | Server: 6.0.0.17. | Max license: 400 | expiry date: 2018-12-19

GIServer | Server Time: 2019/08/13 15:53:28(+0800)

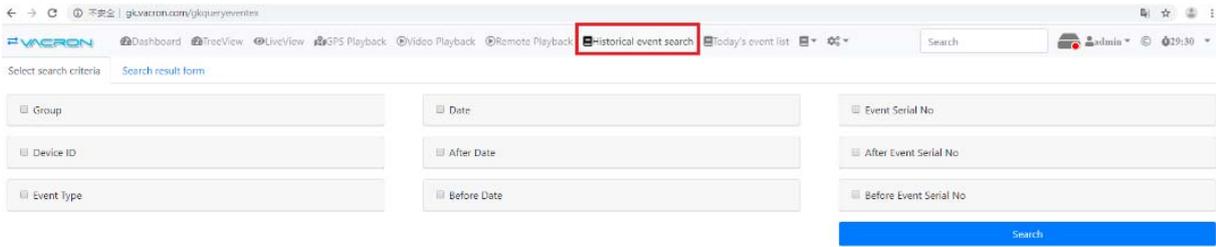
Driving 2 Mile 25 OverSpeed 2 Online 23 Offline 240 A 272

1. **ch1** Select the channel you want to play
2. **1 min 2 min 3 min 4 min 5 min** Select the length of time (in minutes) to play
3. **Pause** Pause playback
4. **Download MP4 File** Download the video file (download length: 1/2/3/4/5 minutes)

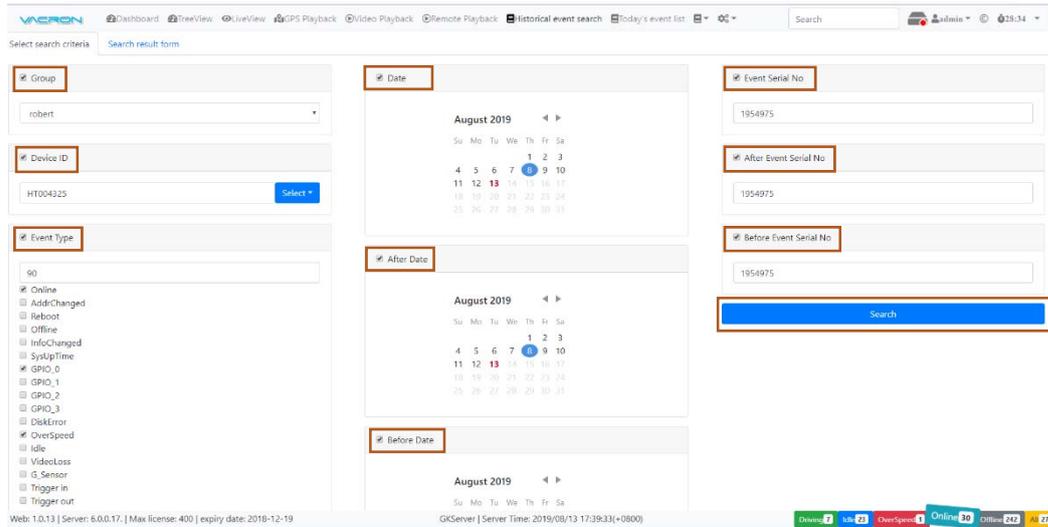
Note: Since the Device can only provide one video file transfer at a time, the remote playback function cannot be performed if the download function is in progress.

10. Historical event search

This provides a conditional to search for information about the Event that has been stored in GKServer.



10.1 Event search condition selection description.



10.1.1 Group: Select Group account to filter Events.

10.1.2 Device ID: Select Device ID to filter Events.

10.1.3 Event Type: Select the Event category to filter the Events. If it is a custom function, you can also enter the Event ID to filter the Events. For example, 90 is to download all the video files.

10.1.4 Date: Click the event for the date of the query.

10.1.5 After Date: Click to query the events after a certain day (inclusive).

10.1.6 Before Date: Click to query the events before a certain day (inclusive).

Note: Since the Event data obtained from GKServer can be up to 10,000, it will be ignored when the number of Event is exceeded. A large number of Event queries need to use the After Date and Before Date to limit the Event query of a certain date, the query result will not be lost.

10.1.7 Event Serial No.: Specify an Event serial number to query the Event.

10.1.8 After Event Serial No.: Specifies the event that is queried after an Event serial number (inclusive).

10.1.9 Before Event Serial No.: Specifies the event that is queried before an Event serial number (inclusive).

Note: Since the Event data obtained from GKServer can be up to 10,000, it will be ignored when the number of Event is exceeded. A large number of Event queries need to use the After Event Serial No. and Before Event Serial No. to limit the Event query of a certain interval, the query result will not be lost.

10.2 Event search result description

| Event ID | Event Time | Notify | Event Name | Device ID | Vehicle ID | Driver | Try | Handle Status | Memo | Fence | Update Time | Action |
|----------|---------------------|-----------|------------|-----------|------------|----------|-----|---------------|---|-------|---------------------|--------|
| 1027309 | 2019-06-18 22:01:34 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | | | 2019-06-18 22:03:48 | ⊞ |
| 1027308 | 2019-06-18 22:03:34 | undefined | 19 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | ALM1:6 | | 2019-06-18 22:03:35 | ⊞ |
| 1027307 | 2019-06-18 22:03:25 | undefined | 752 | BT002878 | 捷盈-308-3 | 捷盈 | 2 | Unchecked | .DVR.ALVL7-190618140325-1:1:N:85,78 | | 2019-06-18 22:04:17 | ⊞ |
| 1027306 | 2019-06-18 22:02:34 | undefined | 19 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | ALM1:5 | | 2019-06-18 22:02:35 | ⊞ |
| 1027305 | 2019-06-18 22:01:34 | undefined | 19 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | ALM1:5 | | 2019-06-18 22:01:35 | ⊞ |
| 1027304 | 2019-06-18 21:58:34 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Checked | | | 2019-06-18 22:01:24 | ⊞ |
| 1027303 | 2019-06-18 22:00:34 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Ignored | | | 2019-06-18 22:01:24 | ⊞ |
| 1027302 | 2019-06-18 22:00:01 | undefined | 751 | BT002878 | 捷盈-308-3 | 捷盈 | 14 | Unchecked | .DVR.ALVL6-190618140001-1:0:N:85,7E | | 2019-06-18 22:03:53 | ⊞ |
| 1027301 | 2019-06-18 21:59:25 | undefined | 752 | BT002878 | 捷盈-308-3 | 捷盈 | 3 | Unchecked | .DVR.ALVL5-190618135925-1:1:2:0:85,13 | | 2019-06-18 22:00:29 | ⊞ |
| 1027300 | 2019-06-18 21:58:33 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | I can edit some message for this event. | | 2019-08-14 10:11:11 | ⊞ |
| 1027299 | 2019-06-18 21:57:33 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | | | 2019-06-18 21:59:00 | ⊞ |
| 1027298 | 2019-06-18 21:56:33 | undefined | GPIO_0 | DTC00099 | DTC00099 | DTC00099 | 0 | Unchecked | | | 2019-06-18 21:59:00 | ⊞ |
| 1027297 | 2019-06-18 21:58:19 | undefined | 751 | BT002878 | 捷盈-308-3 | 捷盈 | 5 | Unchecked | .DVR.ALVL4-190618135819-1:0:N:85,7F | | 2019-06-18 21:59:53 | ⊞ |
| 1027296 | 2019-06-18 | undefined | 752 | BT002878 | 捷盈-308-3 | 捷盈 | 1 | Unchecked | .DVR.ALVL3-190618135803-1:1:1:0:85,1B | | 2019-06-18 | ⊞ |

10.2.1 No.: No. of the Event.

10.2.2 Event Time: The date and time when the event occurred.

10.2.3 Notify: The user of the device defines the events by themselves.

Note: For user-defined settings for Notify, please refer to the Event Define Settings of the Settings option.



10.2.4 Event Name: Displayed according to the Event Name in the Event Define Settings.

10.2.5 Device ID: The unique code of the device(Device ID).

10.2.6 Vehicle ID: License plate number (this can set the Vehicle ID on the Device).

10.2.7 Driver: Driver name (this can set the Driver Name on the Device).

10.2.8 Try: The number of times GKServer failed to download the Event, **this Event download is ignored if it fails ≥ 17 .**

10.2.9 Handle Status: This allows the administrator to click on the Event has been processed, to facilitate the management and query of a large number of events, options are: Unchecked, Checked, Ignored, Video Saved.

10.2.10 Memo: This allows the administrator to edit the message, click the left button twice to enter the message, to understand the status of each event.

10.2.11 Fence: This is the map fence event function, which will display the position of the Trigger In / Trigger Out.

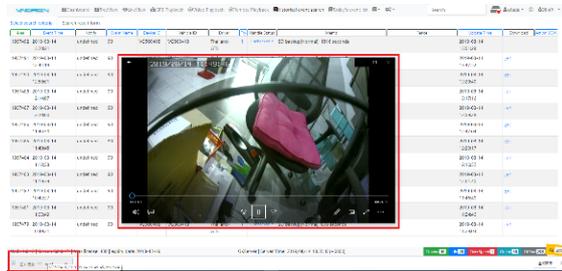
Note: For the setting of the map fence, please refer to the Fence setting option.

10.2.11.1 If the mouse is moved to the icon with "Thumbtack", you can click the left button to show only the same Event, and filter the unwanted ones. At this time, click the left button on the item X to clear all the condition.

| Event Time | Notify | Trigger in | Vehicle ID | Driver | Ty | Handle Status | Memo | Update Time | Download | Action (CSV) |
|---------------------|----------|------------|-------------------|--------|----|---------------|---------|---------------------|----------|--------------|
| 2019-08-13 07:51:25 | Fence-in | Triggerin | Rex-VG07(S788-ER) | Rexy | 0 | Unchecked | In中港交匯處 | 2019-08-13 07:51:25 | | |
| 2019-08-12 19:18:52 | Fence-in | Triggerin | Rex-VG07(S788-ER) | Rexy | 0 | Unchecked | In中港交匯處 | 2019-08-12 19:18:52 | | |
| 2019-08-12 08:04:19 | Fence-in | Triggerin | Rex-VG07(S788-ER) | Rexy | 0 | Unchecked | In中港交匯處 | 2019-08-12 08:04:20 | | |
| 2019-06-26 07:17:56 | Fence-in | Triggerin | Rex-VG07(S788-ER) | Rexy | 0 | Unchecked | In中港交匯處 | 2019-06-26 07:17:56 | | |
| 2019-06-25 19:27:17 | Fence-in | Triggerin | Rex-VG07(S788-ER) | Rexy | 0 | Unchecked | In中港交匯處 | 2019-06-25 19:27:17 | | |

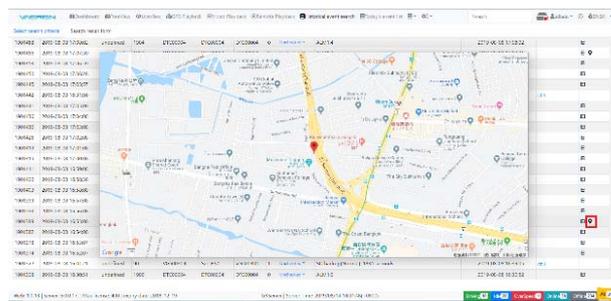
10.2.12 Update Time: This is the time when the GKServer downloads the Event.

10.2.13 Download: This is the event video that GKServer has downloaded. Click ch1, ch2, ch3,...ch8 to download mp4 videos and play them in Chrome.

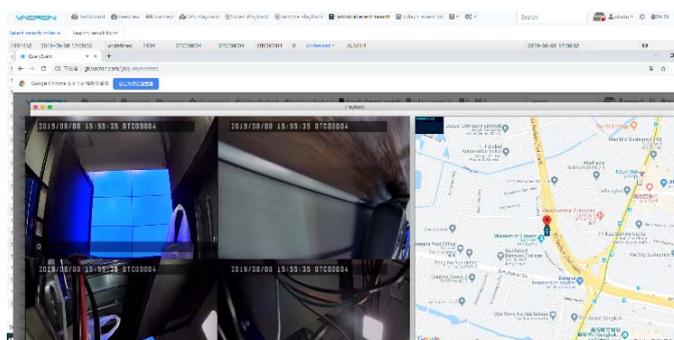


10.2.14 Action (CVS): Provide a functional link to the Event.

10.2.14.1 Google Map display, move the mouse to the icon , it will automatically display the position which event occurred.



10.2.15 GKServer playback, move the mouse to the icon , click the left button, it will automatically display the playback video and the GPS position of the event.



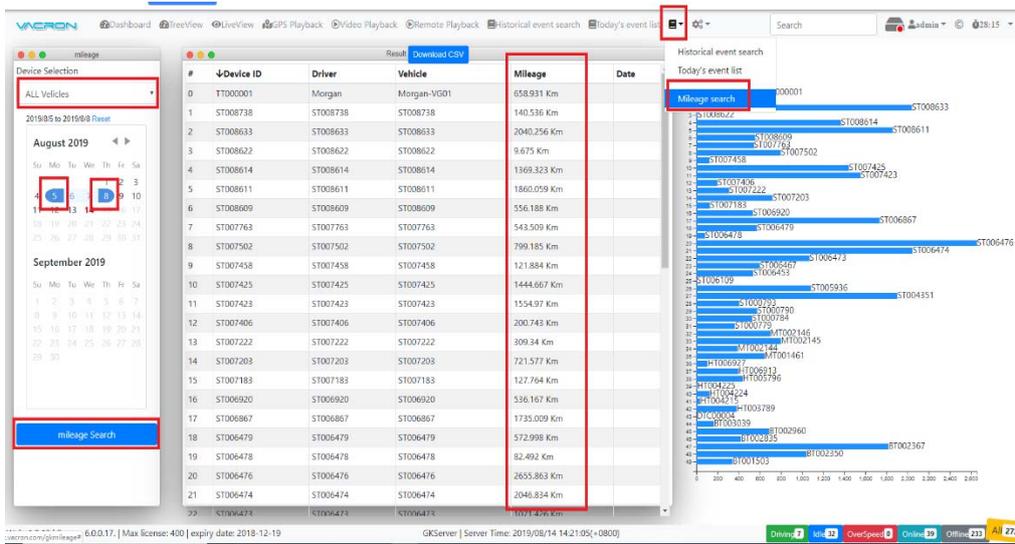
11. Today's event list

This can only display today's Event status, and you can click on all time periods or events for each hour, each of which is the same as the 10.2 Event search result description.

| # | Event Time | Nasty | Event Name | Device ID | Vehicle ID | Driver | Ty | Handle Status | Memo | Fence | Update Time | Download | Action (CSV) |
|---------|---------------------|-----------|------------|-----------|------------|--------------|----|---------------|---------------------------------|-------|---------------------|----------|--------------|
| 1957493 | 2019-08-14 13:15:02 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1930 seconds | | 2019-08-14 14:10:04 | | |
| 1957492 | 2019-08-14 13:20:21 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1816 seconds | | 2019-08-14 13:56:28 | ch1 | |
| 1957491 | 2019-08-14 12:44:19 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1843 seconds | | 2019-08-14 13:47:52 | ch1 | |
| 1957490 | 2019-08-14 12:50:01 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1819 seconds | | 2019-08-14 13:28:40 | ch1 | |
| 1957488 | 2019-08-14 12:14:07 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1812 seconds | | 2019-08-14 13:17:16 | ch1 | |
| 1957487 | 2019-08-14 12:20:00 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1801 seconds | | 2019-08-14 12:59:28 | ch1 | |
| 1957486 | 2019-08-14 11:43:50 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1817 seconds | | 2019-08-14 12:47:04 | ch1 | |
| 1957485 | 2019-08-14 11:49:45 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1815 seconds | | 2019-08-14 12:29:17 | ch1 | |
| 1957484 | 2019-08-14 11:12:38 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1872 seconds | | 2019-08-14 12:16:52 | ch1 | |
| 1957483 | 2019-08-14 11:19:39 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1805 seconds | | 2019-08-14 12:01:40 | ch1 | |
| 1957482 | 2019-08-14 10:42:27 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1810 seconds | | 2019-08-14 11:46:40 | ch1 | |
| 1957481 | 2019-08-14 11:03:49 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 3 | Unchecked * | SD backup(Normal): 949 seconds | | 2019-08-14 11:24:40 | ch1 | |
| 1957479 | 2019-08-14 10:49:31 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 806 seconds | | 2019-08-14 11:29:04 | ch1 | |
| 1957477 | 2019-08-14 10:11:43 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1844 seconds | | 2019-08-14 11:15:52 | ch1 | |
| 1957474 | 2019-08-14 10:19:06 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1825 seconds | | 2019-08-14 10:54:16 | ch1 | |
| 1957473 | 2019-08-14 09:40:11 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1892 seconds | | 2019-08-14 10:46:16 | ch1 | |
| 1957472 | 2019-08-14 09:48:46 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1820 seconds | | 2019-08-14 10:30:06 | ch1 | |
| 1957471 | 2019-08-14 09:08:47 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1884 seconds | | 2019-08-14 10:16:03 | ch1 | |
| 1957470 | 2019-08-14 09:18:33 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1813 seconds | | 2019-08-14 09:56:39 | ch1 | |
| 1957469 | 2019-08-14 08:38:39 | undefined | 90 | VGS00032 | Blake-VG01 | Blake | 1 | Unchecked * | SD backup(Normal): 1808 seconds | | 2019-08-14 09:45:27 | ch1 | |
| 1957468 | 2019-08-14 08:48:19 | undefined | 90 | VGS00418 | VGS00418 | Thailand-GTS | 1 | Unchecked * | SD backup(Normal): 1814 seconds | | 2019-08-14 09:29:27 | ch1 | |

12. Mileage search

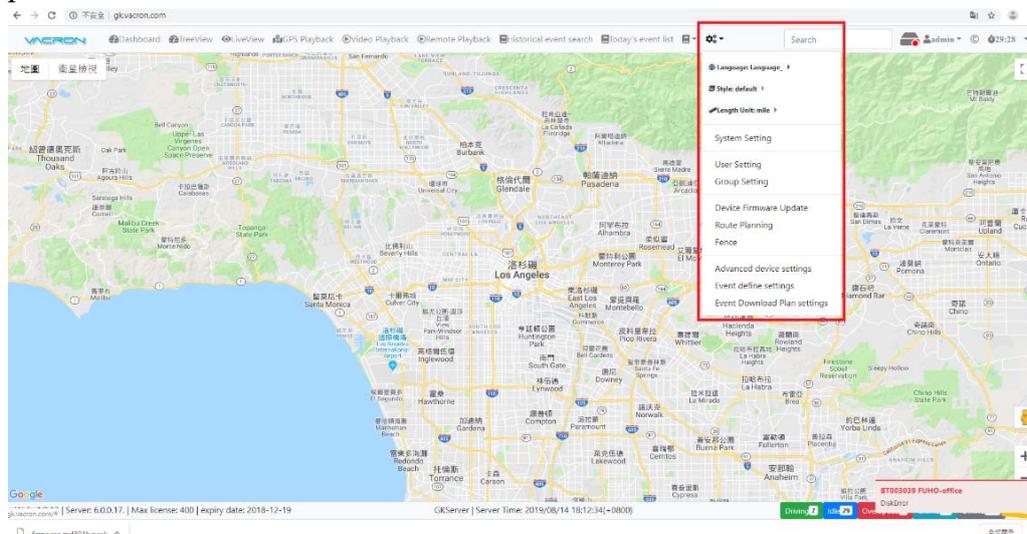
This can query the total number of kilometers traveled by each device during a certain period of time.



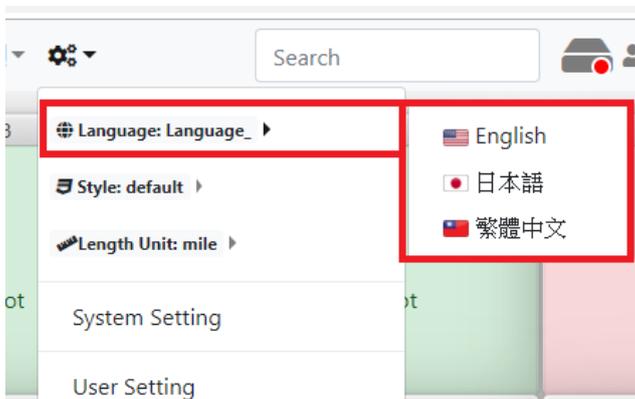
Choose the device, start date, end date, then press mileage search, the statistics will appear on the right.

13. Function setting

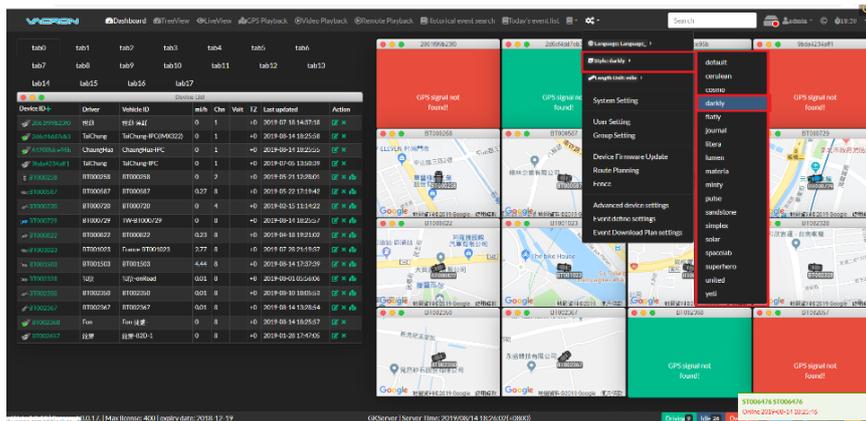
This can be used to set various functions. All settings need to be logged in to GKServer with admin permission.



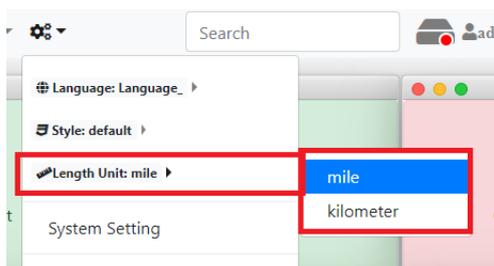
13.1 Language: Support for three languages setting.



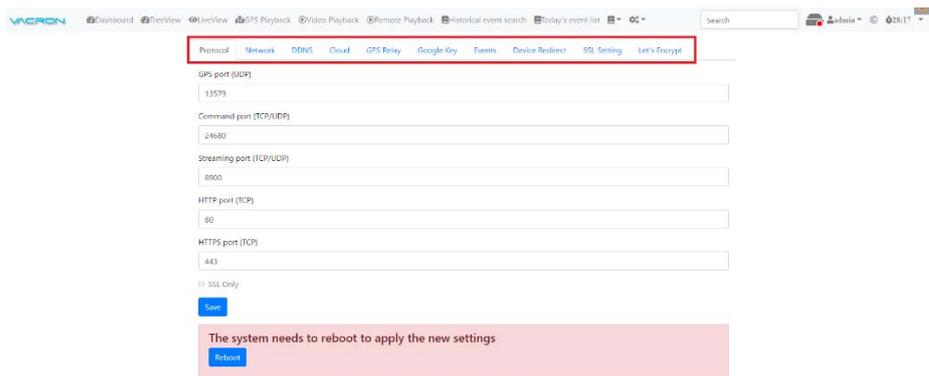
13.2 Style: Darkly, supports a variety of web display styles to choose from.



13.3 Length Unit: Mile, support distance units Mile and Kilometer.



13.4 Click to do the network related settings

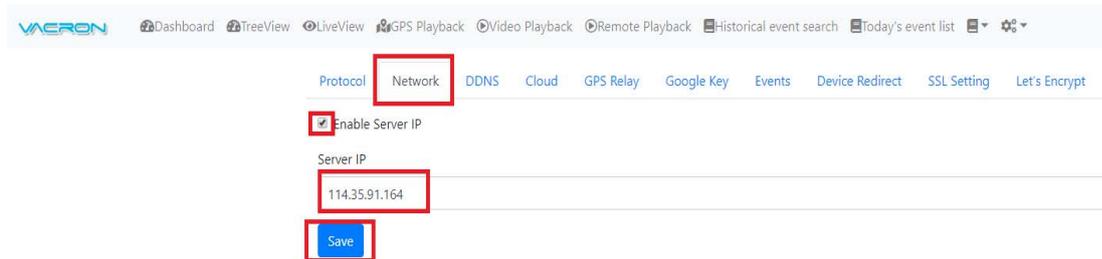


13.4.1 Protocol: GKServer use the external communication port settings.

- 13.4.1.1 GPS port => Receive Device GPS Data, Default UDP 13579.
- 13.4.1.2 Command port => The communication between client and GKServer, default is TCP and UDP 24680.
- 13.4.1.3 Streaming port => The communication of video stream from the device to GKServer, default is TCP/UDP 8900.
- 13.4.1.4 HTTP port => Web page display function, default is TCP 80.
- 13.4.1.5 HTTPs port => Encrypted webpage function, in order to use the Talk function, you must use the HTTPs port, default is TCP 443.
- 13.4.1.6 SSL only => This needs to be changed after using https connection. After ticking it, only https can connect to the GKServer webpage.
 - 13.4.1.6.1 After ticking, you must fill in the SSL key and the certificate on the SSL Setting page.

Note: Any protocols are changed need to click the save button  then reboot it , after restarting the GKServer then take effect.

13.4.2 Network: let GKServer clearly tell the device the IP address setting to be transmitted. If it is not set, GKServer will obtain the possible Wan IP to use.



Note: When the GKServer is installed in LAN, it is possible for the GKServer to obtain the wrong Wan IP. In this case, it is recommended to specify a clearly external network IP to ensure that the GKServer operates normally.

13.4.3 DDNS: if you do not have a fixed WAN IP, you can let the GKServer use the domain name to connect the WAN Device to the GKServer of LAN. When using the DDNS function, you must cancel the function of using the Server IP.

13.4.3.1 CCTVDVR: It is DDNS Server of Vacron, you have to get the user ID and password from the related person of Vacron.

13.4.3.2 NO-IP: Free DDNS on the internet, you need to apply online.

13.4.3.3 My online portal: Free DDNS on the internet, you need to apply online.

13.4.4 GPS Relay: Transfer specific GPS Data packet contents to the specified IP in UDP mode.

(Suitable for integrating various server platforms, the defined package format can be integrated for Vacron)

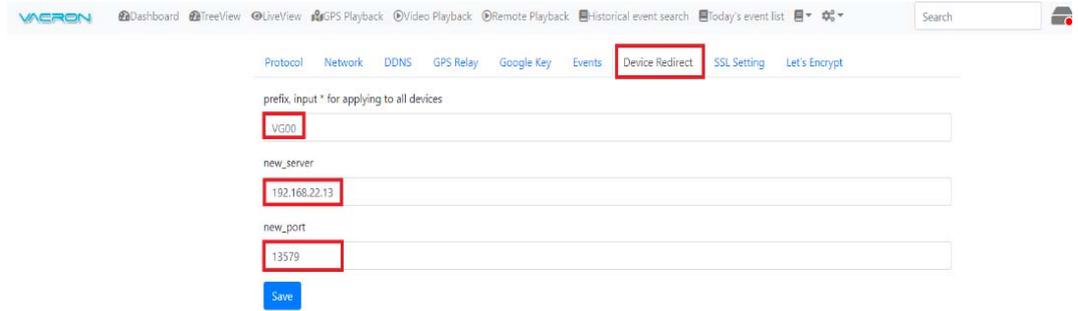
13.4.5 Google Key: GKServer uses Google Map. When it is used in large quantities, it is limited. You must apply and purchase for Google Map API Key from Google. After obtaining the API Key, fill in this setting page and click save button  to take effect.

13.4.6 Event: When GKServer knows an Event, there are two ways to get an image.

13.4.6.1 Video download => When an Event occurs, GKServer will ask the Device to return the number of seconds before and after the Event time (the number of seconds can be set in the duration). If you enter 30, the video will be downloaded for the forward and backward 30 seconds.

13.4.6.2 Force event record => When an Event occurs, GKServer will force the Device to continuously transmit the live view for a few seconds (can be set in the force event record durations), and perform remote recording of the server.

13.4.7 Device Redirect: You can move the Device to another GKServer. There are several ways to transfer it.



13.4.7.1 Enter the first few words of Device ID => Transfer the devices of the same first few words.

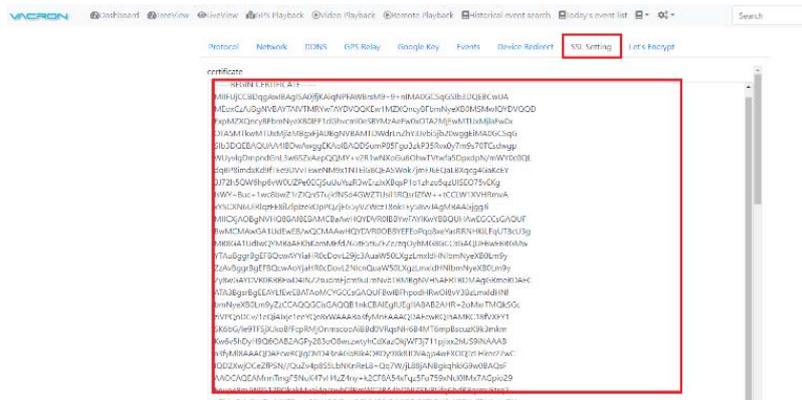
13.4.7.2 Full ID => Transfer only one device.

13.4.7.3 * => Transfer all the devices .

13.4.7.4 Click save button , the selected Devices will be notified immediately for Server IP changes.

Note: If the IP Port setting is uncertain, the device will lose its connection.

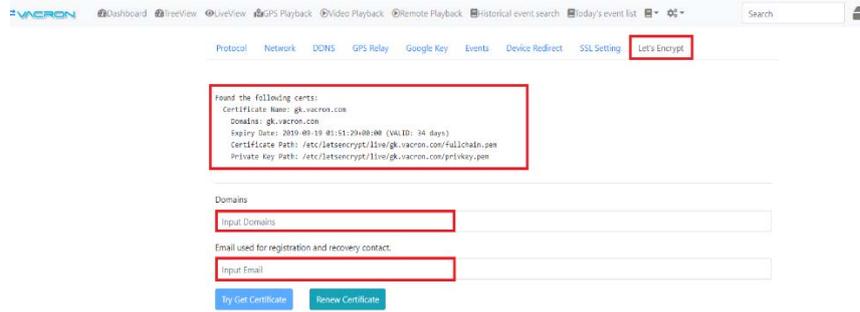
13.4.8 SSL Setting: Set the SSL certification and private key. This is used for web page encryption. The SSL certification and private key must be purchased . After setting, you need to use https to ensure web page encryption.



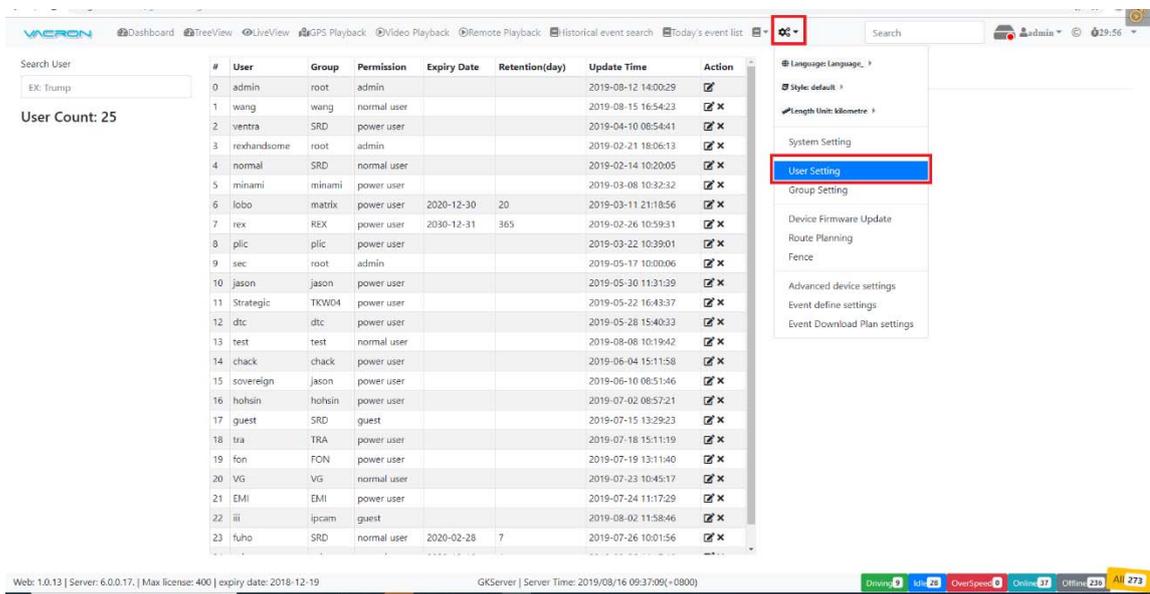
Note: The intercom feature must be used with https.

13.4.9 Let's Encrypt: You can apply for Free SSL certification and private keys. GKServer supports the acquisition of the SSL Key for Let's Encrypt and displays the SSL Key expiration date. Detailed applications can be found on the Let's Encrypt website.

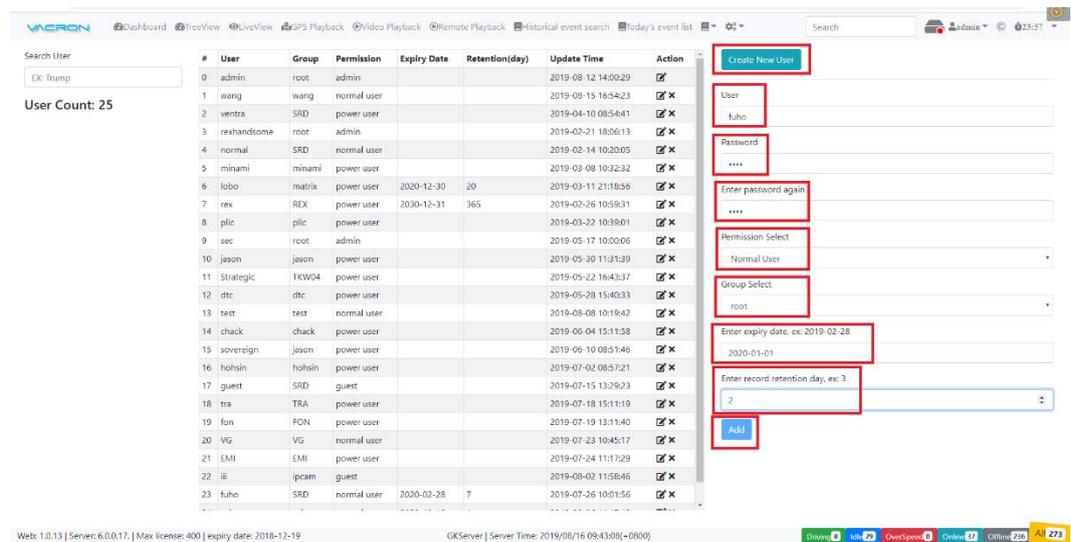
<https://letsencrypt.org/>



13.5 User Setting: This can create user accounts with different permissions for remote users to log in GKServer.



13.5.1 The steps of creating a new account



13.5.2 Click the button **Create New User**, fill in the account information bar below.

13.5.3 Enter the name (user) and password (for twice).

13.5.4 Click User Permission (Permission Select). The permissions are divided into the

following four types, **O** which means support, and **X** doesn't.

| Permission | System Settings | All Device | Event Edit | Watch Event | Video Playback | Live View |
|-------------|-----------------|------------|------------|-------------|----------------|-----------|
| Admin | O | O | O | O | O | O |
| Power User | X | X | O | O | O | O |
| Normal User | X | X | X | O | O | O |
| Guest | X | X | X | X | X | O |

13.5.5 Choose the group account (Group Select) for the user. The account management of GKServer adopts Tree Structure. Each user must have a dedicated group.

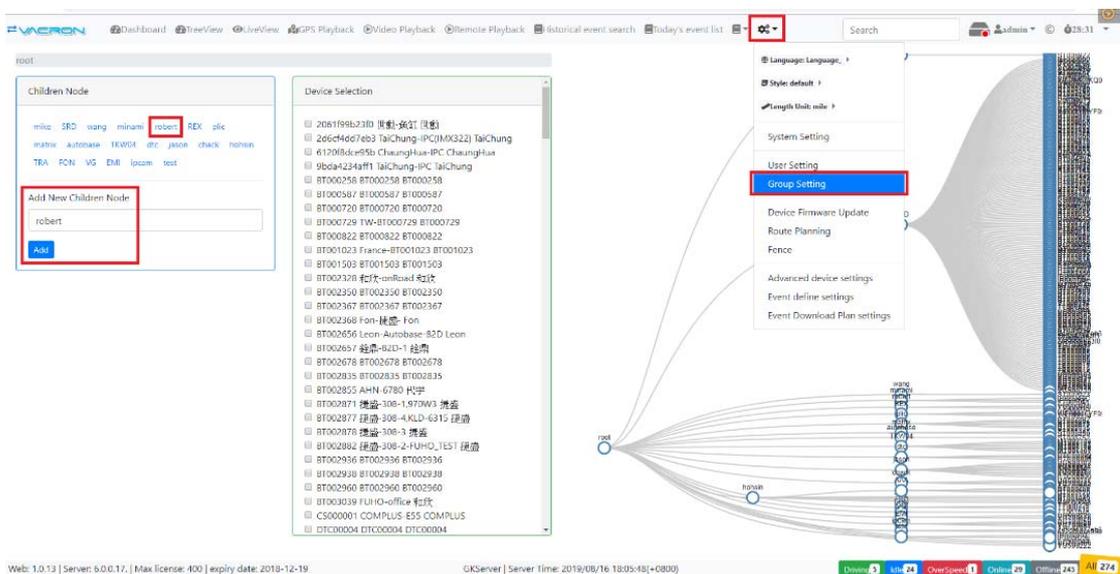
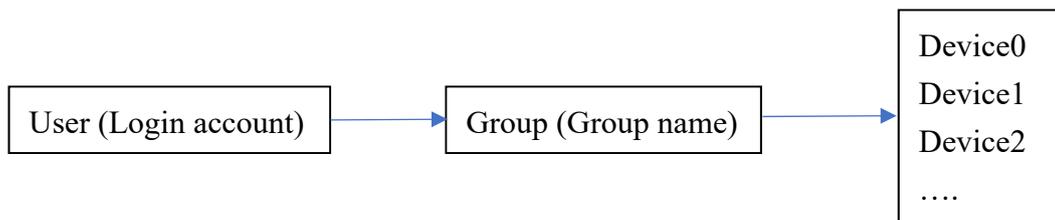
13.5.6 Enter the account expiration date (Enter expiry date) in the format yyyy-mm-dd.

13.5.7 Enter the number of days of record retention required for the Devices under this account.

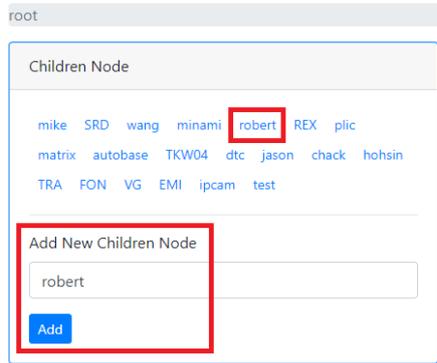
13.5.8 Click **Add**, a new account will be created.

13.6 Group Setting: The group is used to manage the devices. When creating an account (User), you need to specify which group to use. The user can monitor all the devices under the group.

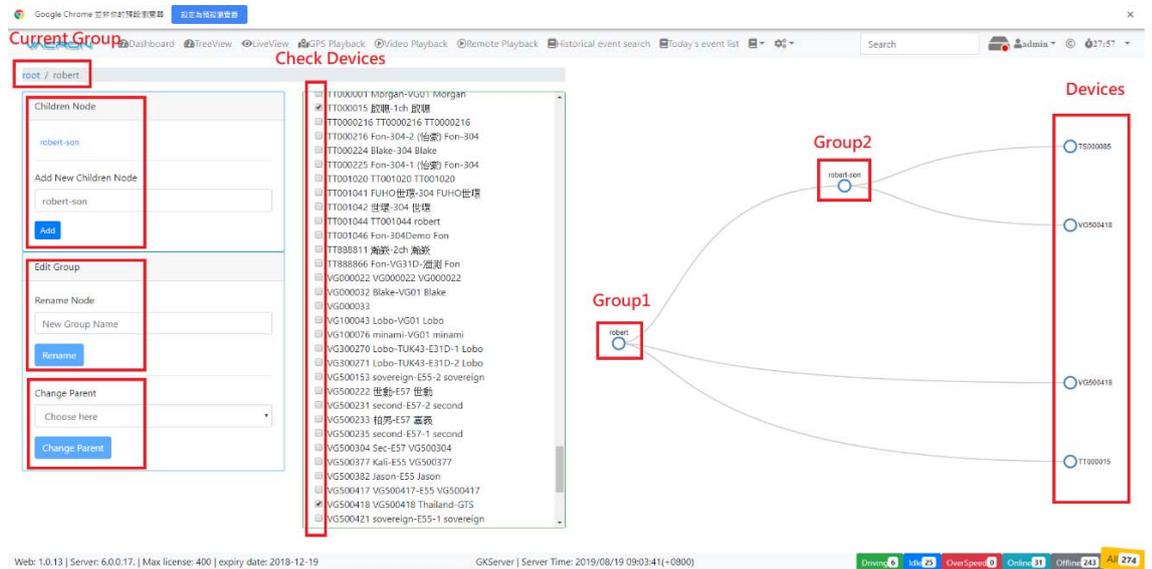
Note: The relationship between User, Group, and Device is as follow



13.6.1 Create a group, enter the group name on the left (Add New Children Node) and press the button “Add” to create a group under root.



13.6.2 Edit the group settings, click on the group name. In the case of robert, the robert group status is displayed, and the device that wants to join the group is selected.

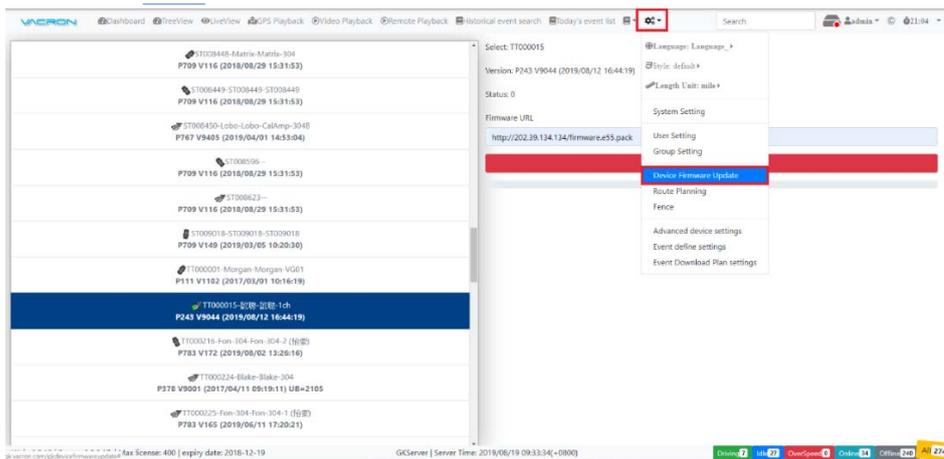


13.6.2.1 Choose the Device ID, it will be added to the Group and displayed on the right as a tree structure.

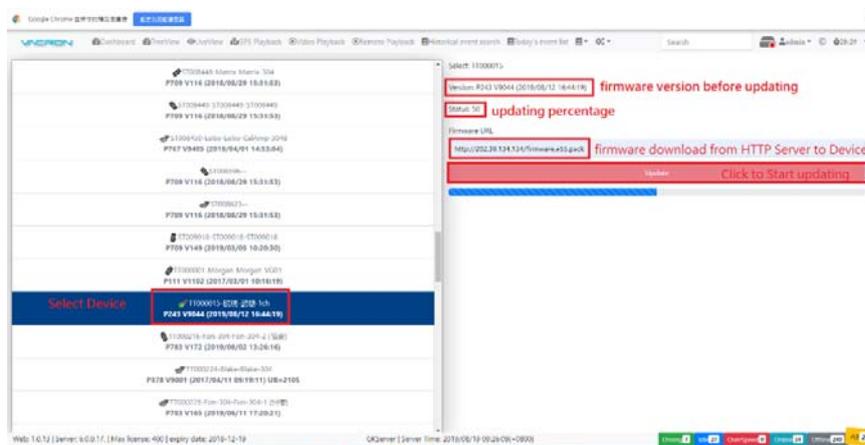
13.6.2.2 You can add another node (new Group2) under this Group1, which is represented by robert-son.

13.6.2.3 You can enter Group2 (robert-son) for editing. In this example, two Devices are selected for Group2.

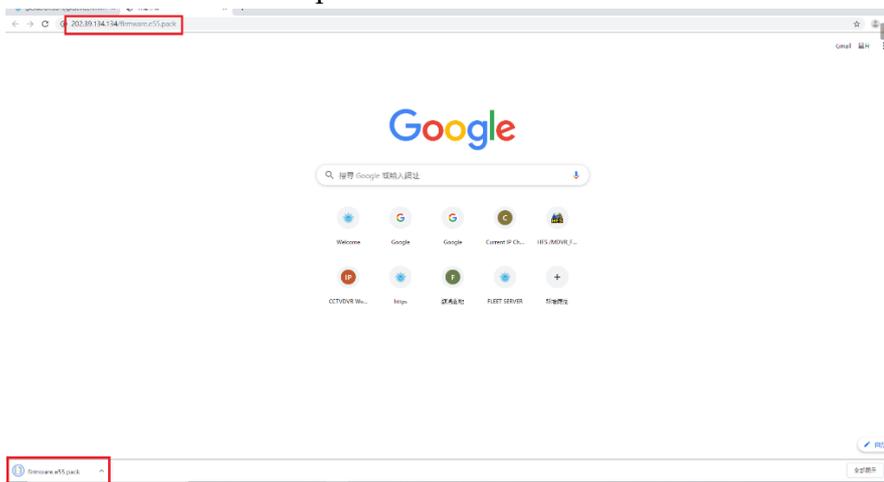
13.7 Device Firmware Update: You can use GKServer to send a command to the device, and download a new firmware from HTTP Server for Online firmware update.



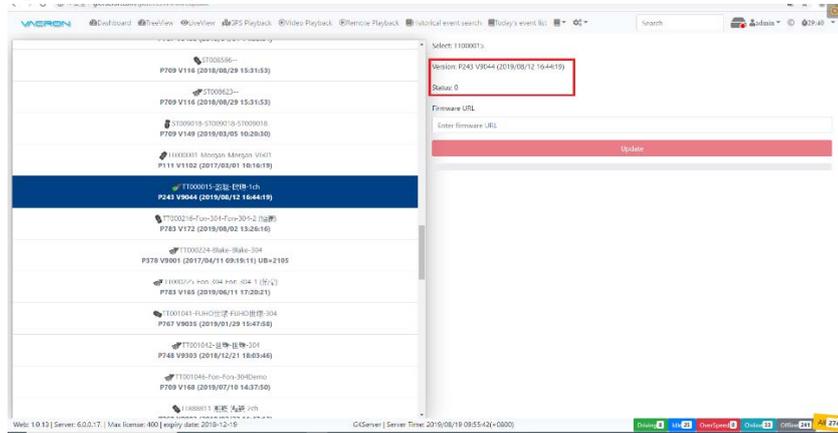
13.7.1 Perform a remote firmware update.



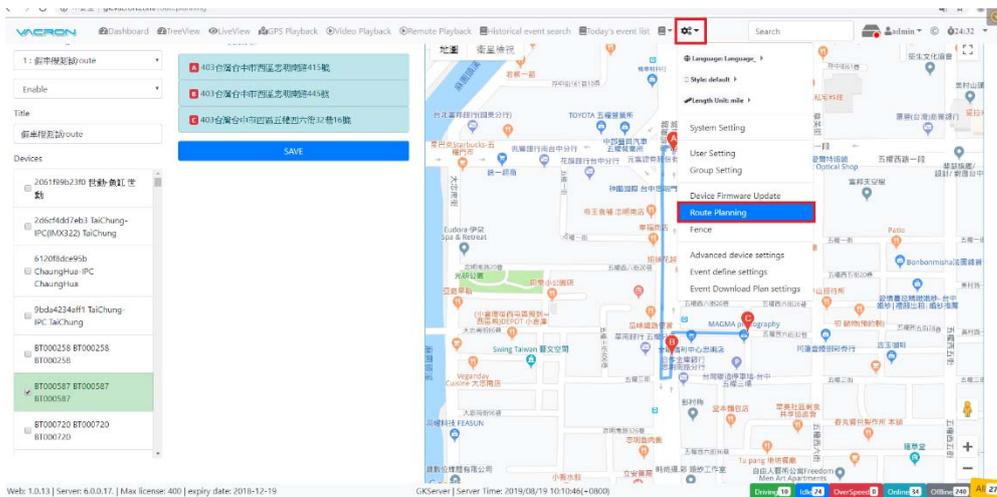
- 13.7.1.1 Select a device which is Online (if the device doesn't online, the firmware cannot be updated).
 - 13.7.1.2 Will display the firmware version before it updated.
 - 13.7.1.3 Fill in the HTTP URL path of the new firmware. You can usually use the Windows computer to open the Windows HTTP Server function, or download the free HTTP Server software to execute it, and put the firmware in the local catalog of the HTTP Server.
- Note: You can verify the HTTP URL path with the browser first, and confirm that the firmware path can be downloaded.



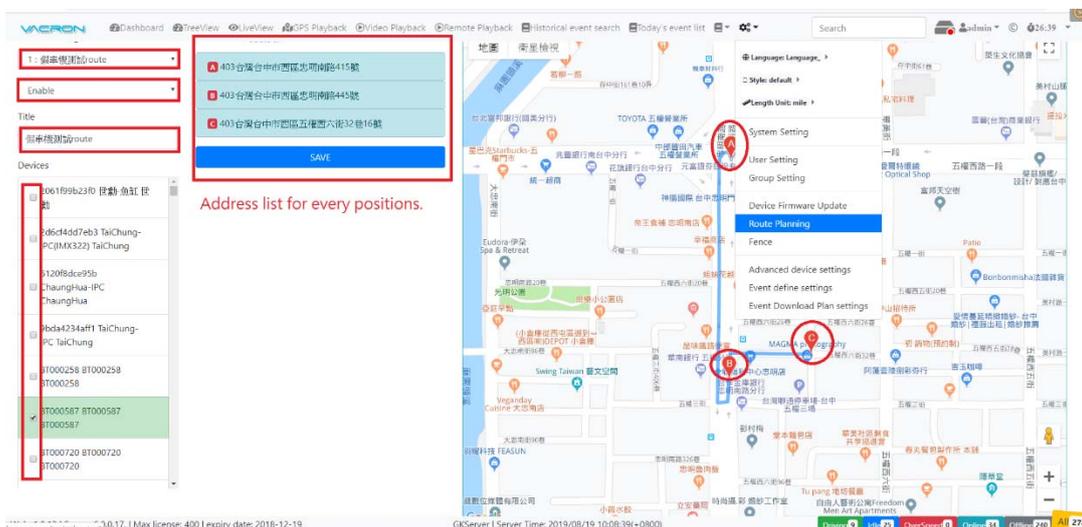
- 13.7.1.4 Click **Update** to perform the firmware remote update. If the HTTP URL is specified correctly, you will see Status (or the update progress display below, there will be changes).
- 13.7.1.5 When it is updated to 100%, it will wait for the Device to reboot and execute the new firmware. After waiting for 2 minutes, GKServer will update the firmware version and reset the update progress to zero. At this time, the update is complete.



13.8 Route Planning: It can be set that the car must travel according to the path. If there is a violation of the position or sequence of the path, GKServer will generate an event record (Event).

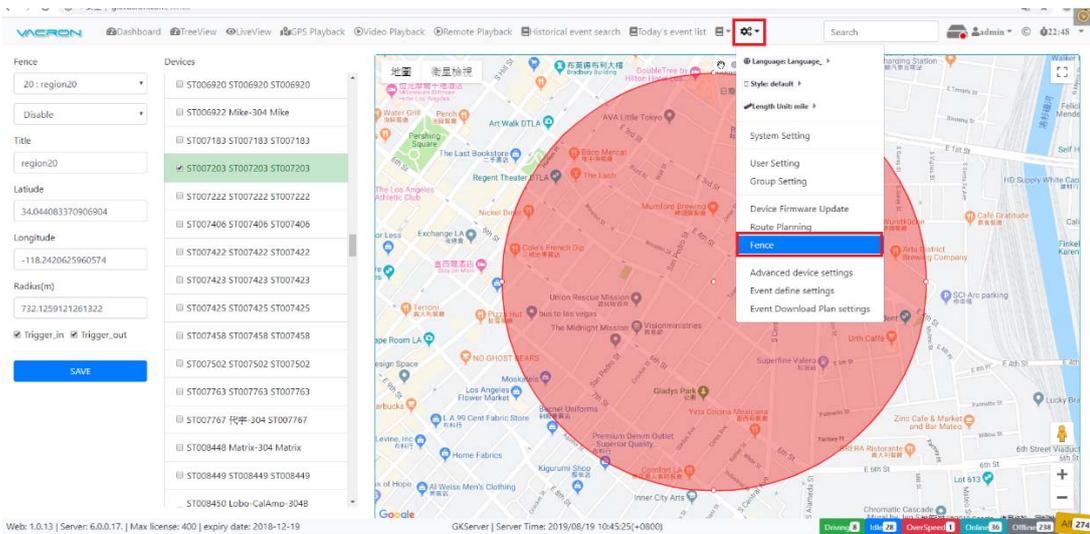


13.8.1 Vehicle driving route setting.

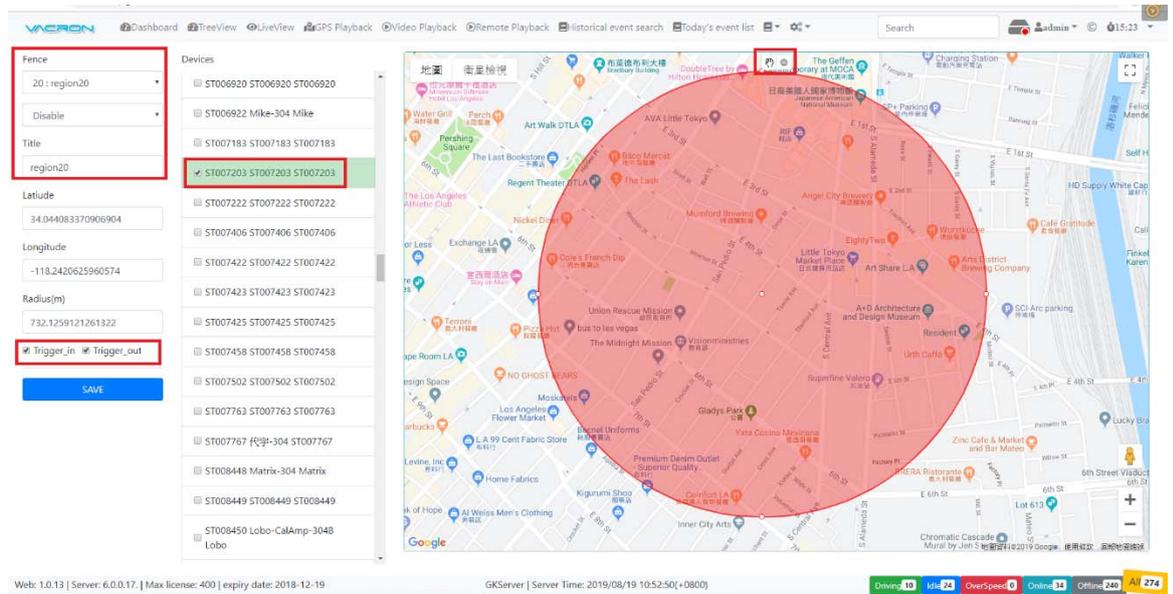


- 13.8.1.1 Select a path rule name, preset to route1, route2, you can change the rule name in the Title.
- 13.8.1.2 Click Enable whether to activate this path rule and choose the suitable devices.
- 13.8.1.3 Click a position on the Google Map, it will automatically link each location, and indicated as A, B, C..... and display the address in the list, you can also delete any location in the list.
- 13.8.1.4 Press then the vehicle travel path limit setting is completed.

13.9 Fence: You can draw a circle on Google Map to monitor whether the car has access to this setting range. When there is a car entering and leaving this area, GKServer will generate an event to record.



13.9.1 Steps of setting a fence

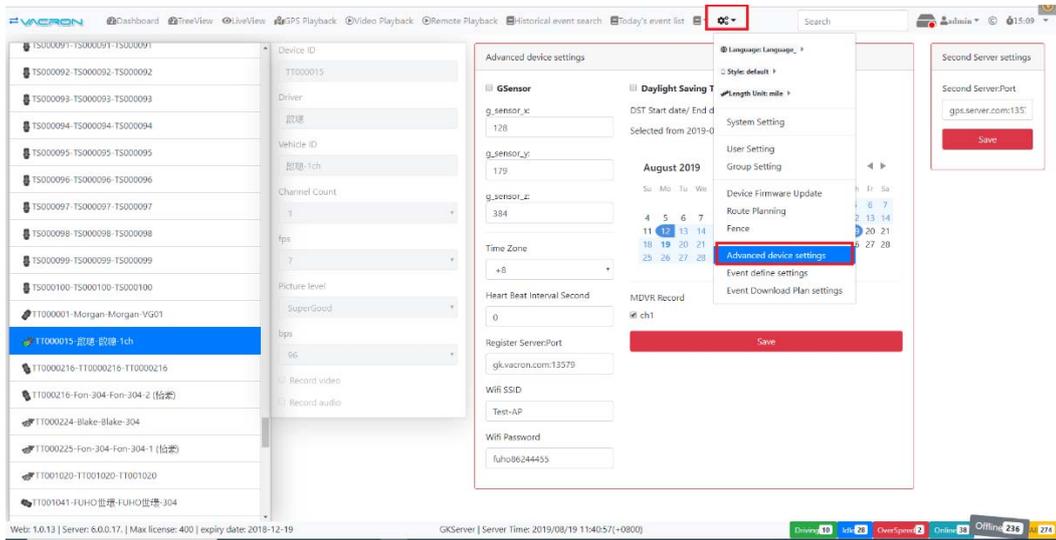


- 13.9.1.1 Select a name of the fence, preset to region1, region2....region20, and you can modify at the title.
- 13.9.1.2 Select the condition of the event trigger. Trigger_in represents the car is driven inside the fence. Trigger_out represents the car is driven outside.
- 13.9.1.3 Choose the devices to apply in this fence limit rule.

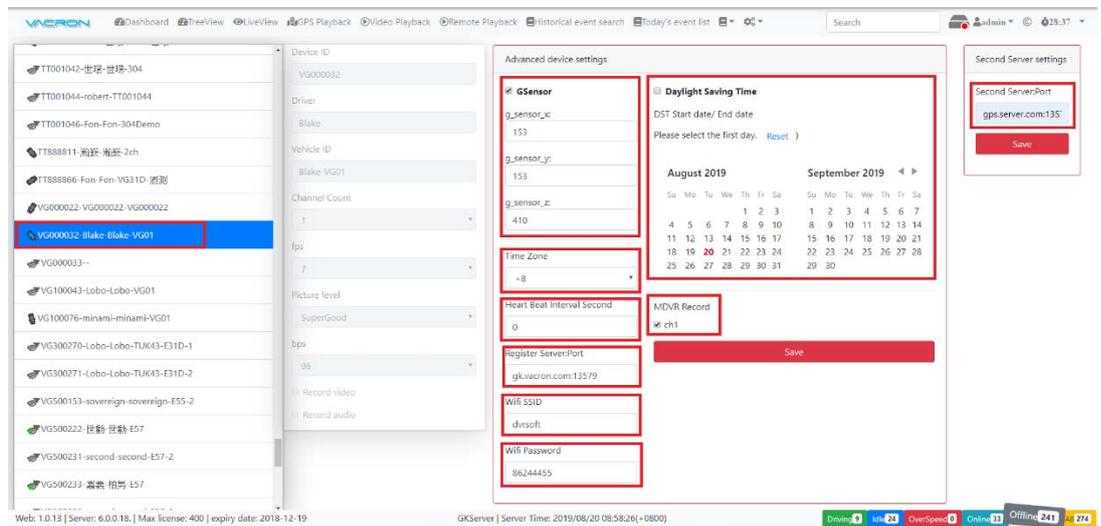
13.9.1.4 Choose a location on the Google Map, use the left button to press it and pull out, the range of the fence will be displayed. You can click the two icons  above the established fence to move or re-establish, or click the up, down, left and right expansion points to change the size of the fence.

13.9.1.5 Press the button **SAVE**, the setting of the fence is completed.

13.10 Advanced device settings: If the car has VCP protocol, you can set the remote device from GKServer.



13.10.1 Steps of setting the device parameter.



13.10.1.1 Choose the device, if it supports the VCP protocol, the current setting value will be displayed on the right, if not, the setting content cannot be displayed. You need to contact related person of Vacron to obtain a new version of firmware which support VCP protocol, then can use this feature.

13.10.1.2 G-Sensor: You can fill in the values of X, Y, Z. The appropriate values can accurately detect the rapid changes of the car, such as brake (g_sensor_y), sharp turn (g_sensor_x), and the upper and lower vibrations (g_sensor_z).. etc., adjusting to the appropriate value according to actual needs.

- 13.10.1.3 TimeZone: National time zone value, which is set according to the GMT+/- value of each zone.
- 13.10.1.4 Heart Beat interval Second: You can set how many seconds the car will automatically return a GPS Data (without image) to the server side for storage.
- 13.10.1.5 Register Server:Port: This can change the IP and Port for the GKServer connection of the device.

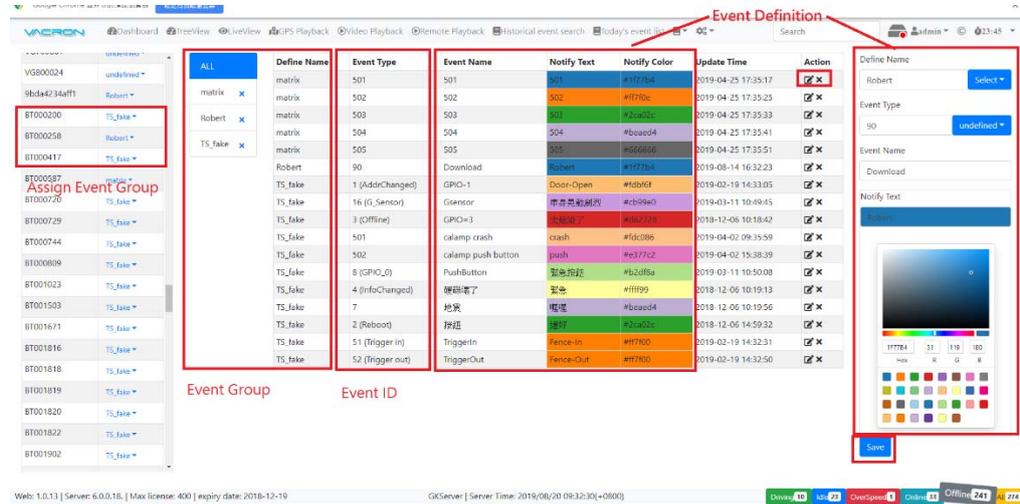
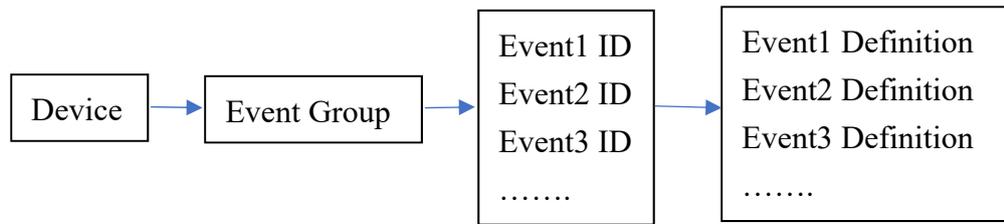
Note: If the IP:Port setting is uncertain, the car will lose its connection.
- 13.10.1.6 Wifi SSID and Password: This can change the account SSID and password of WiFi connection.

Note: If the SSID and password setting is uncertain, the car will lose its connection
- 13.10.1.7 Daylight Saving Time: Areas that typically use daylight saving time will adjust the time by one hour faster near the beginning of spring and return to normal time in fall, with the start and end dates selected.
- 13.10.1.8 MDVR Record: It sets the channel for the device to record.
- 13.10.1.9 Second Server:Port: This can let the device login two account for the server, mainly used for the user who has GPS Server system first, then install GKServer and also need to obtain the GPS data of the device.
- 13.10.1.10 After doing any changes above need to click the button Save to return all the set values to the device.

13.11 Event define settings: This is a variety of Event styles that can be defined by the GKServer administrator to facilitate the identification of different events in each device.

| Define Name | Event Type | Event Name | Notify Text | Notify Color |
|-------------|------------------|--------------------|-------------|--------------|
| matrix | 501 | 501 | #f0f0f0 | #f0f0f0 |
| matrix | 502 | 502 | #f0f0f0 | #f0f0f0 |
| matrix | 503 | 503 | #f0f0f0 | #f0f0f0 |
| matrix | 504 | 504 | #f0f0f0 | #f0f0f0 |
| matrix | 505 | 505 | #f0f0f0 | #f0f0f0 |
| Robert | 90 | Download | #f0f0f0 | #f0f0f0 |
| TS_fake | 1 (AddrChanged) | GPIO-1 | Door-Open | #f0f0f0 |
| TS_fake | 16 (G_Sensor) | Gsensor | 报警检测到 | #f0f0f0 |
| TS_fake | 3 (Offline) | GPIO-3 | 不在服务区 | #f0f0f0 |
| TS_fake | 501 | calamp crash | crash | #f0f0f0 |
| TS_fake | 502 | calamp push button | push | #f0f0f0 |
| TS_fake | 8 (GPIO_0) | PushButton | 紧急按钮 | #f0f0f0 |
| TS_fake | 4 (InfoChanged) | 报警响了 | 报警 | #f0f0f0 |
| TS_fake | 7 | 报警 | 报警 | #f0f0f0 |
| TS_fake | 2 (Reboot) | 报警 | 报警 | #f0f0f0 |
| TS_fake | 51 (Trigger in) | Triggerin | Fence-In | #f0f0f0 |
| TS_fake | 52 (Trigger out) | TriggerOut | Fence-Out | #f0f0f0 |

13.11.1 The relationship of Device, Event Group, and Event Definition are as follows.



13.11.1.1 Create a Define Name (Event Group), enter a new name in the Define Name field of the Event Definition or click **Select** to select the created Event Group. If the Event Group does not exist, it will be automatically created after pressing **Save**.

13.11.1.2 Click on the Event Type (Event ID) or enter a number. If GKServer has a defined ID, it will be displayed directly on the right. If there is no definition, it will display undefined, but there are many functions that are not defined. If you have special requirements, please contact the related person of Vacron, such as Event Type = 90, refers to downloading all videos of the device.

Event Type

12 **DiskError**

Event Type

90 **undefined**

13.11.1.3 The Event Name is used to describe the purpose of it.

13.11.1.4 Notify Text and Notify Color are used to define the color and name of the Event when the notification event is defined. It is convenient for the administrator to classify and sort. When the Notify Text and the Notify Color are defined, the Notify field will be displayed when the Event is queried. Color and description, if undefined, display undefined.

| # | Event Time | Event Name | Device ID | Vehicle ID | Driver | Handle Status | Alarm | Event | Update Time | Download | Action (CSV) |
|---------|---------------------|------------|-----------|-------------------|--------|---------------|-----------|----------------------------------|---------------------|----------|--------------|
| 1953530 | 2019-08-13 08:12:35 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 蘇州海城公司管理中心 | 2019-08-13 08:12:35 | | |
| 1953497 | 2019-08-13 08:03:44 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 孟州海城 | 2019-08-13 08:03:44 | | |
| 1953484 | 2019-08-13 08:00:22 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 大莊鎮 | 2019-08-13 08:00:22 | | |
| 1953476 | 2019-08-13 07:58:05 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 王田交匯處 | 2019-08-13 07:58:05 | | |
| 1953459 | 2019-08-13 07:54:00 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 五樓交匯處 | 2019-08-13 07:54:00 | | |
| 1953447 | 2019-08-13 07:51:45 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 Highway 1 & Rt 12 Intersection | 2019-08-13 07:51:45 | | |
| 1953445 | 2019-08-13 07:51:25 | TriggerIn | VG700271 | Rev-VG07(S788-ER) | Reny | 0 | Unchecked | 在 申慶交匯處 | 2019-08-13 07:51:25 | | |

- 13.12.1.2 Select an Event Type (Event ID) or enter a number to download the Event. If there is a definition, it will be displayed on the right. If there is no definition, it will be displayed as undefined.
- 13.12.1.3 Download Mode: You can choose download (Download) or not download (Not Download), if select not download and it won't be display (Hidden) when Event occurs, Hidden means that event doesn't do any processing on the server.
- 13.12.1.4 Select wanna download channels: Select the channel to download the video, please check the channels supported by the car.
- 13.12.1.5 Assign pre recording second: Set the video download a few seconds before the Event trigger.
- 13.12.1.6 Assign post recording second: Set the video download a few seconds after the Event trigger.
Note: The length of an Event video is at least a few seconds before and after the event. If Assign pre recording second = 60, Assign post recording second = 60, the downloaded video length is about 120 seconds.
- 13.12.1.7 Click  to save the settings of Event Download.
- 13.12.1.8 Click on either By device (show all the devices) or By Group (show all the device groups) to list the relevant Event Download settings.

End Of GK-Server Web Pag User Manual