GPS Tracking System User Guide

2018-3-15

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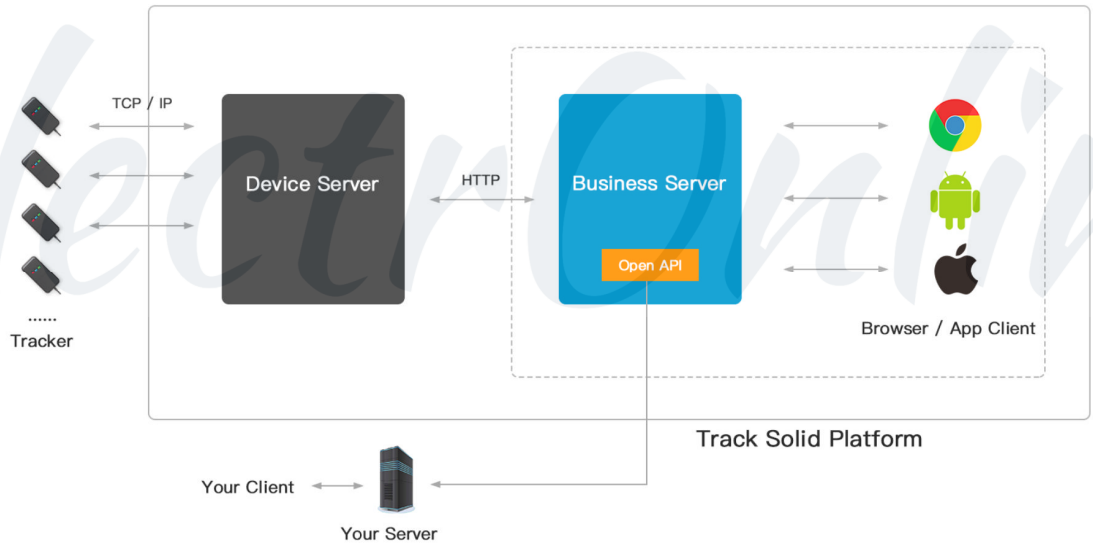
1. Overview

A GPS tracking platform, all-in-one solution for tracking, support iOS & Android mobile Apps, can work in any country, 15+ languages. Including tracker devices management, account management, Geo-fence, alerts, real-time tracking & playback, report etc.

2. Architecture



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3. Conventions

3.1 Italic Text

Text format as italic indicates this is a field name or terms in this tracking platform.

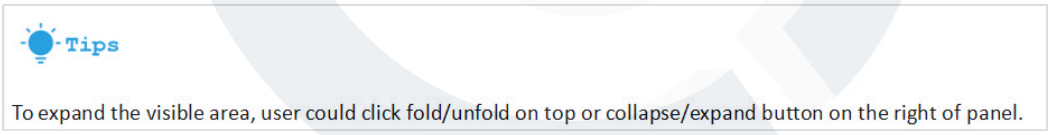
User might need to input *Captcha* if account or password was incorrect for more than 3 times. Password can be retrieved by email if forgot it.

3.2 Bold

Some text formatted as bold to emphasize the information.

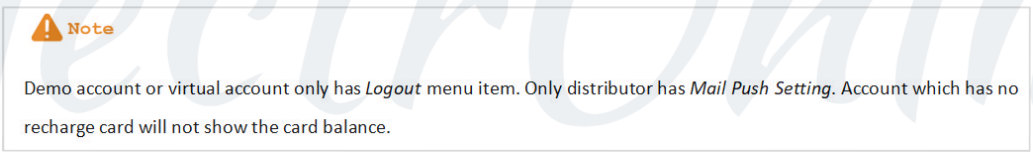
3.3 Tips

Tips given for user to know how to use this tracking platform better. It's marked with tips icon, and uses a smaller font size, for example:



3.4 Note

Remind user to pay attention to some operations, It's marked with note icon, and uses a smaller font size, for example:



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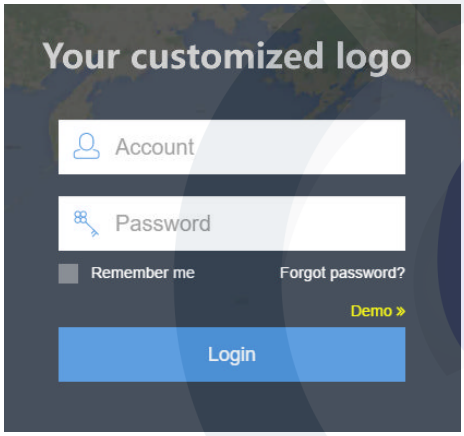
4. Features

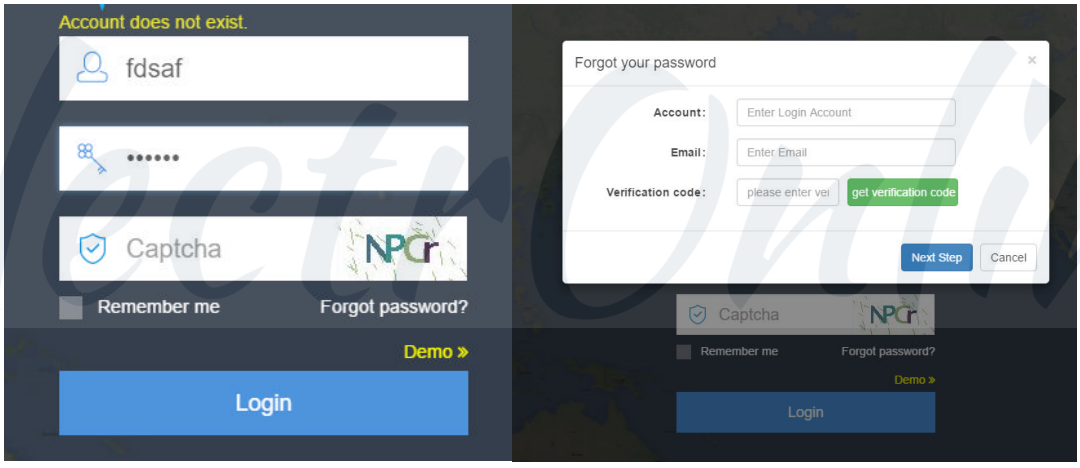
4.1 Login/Logout

4.1.1 Login

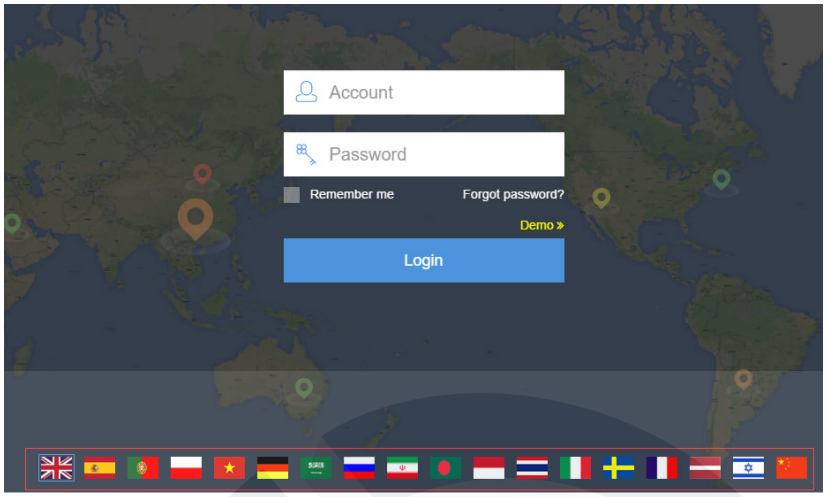
Platform account can not be registered online, it should be got from Distributor or customer services. The initial password for account is 888888, user should change it after first login.



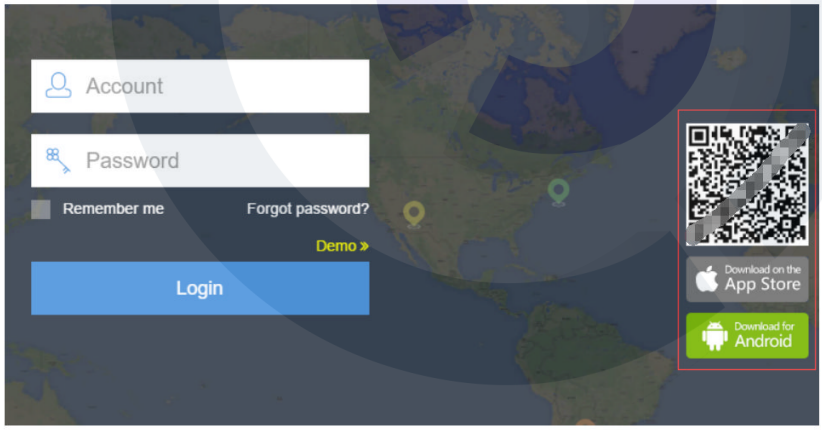
User might need to input *Captcha* if account or password was incorrect for more than 5 times. Password can be retrieved by email if forgot it.



System provide a *Demo* account to preview full features of this platform. More than 15 language are supported.



Scan QR Code or click the iOS/Android links to download corresponding Apps.



4.1.2 Logout

To logout system, just click *Logout* in *Settings* on the header.

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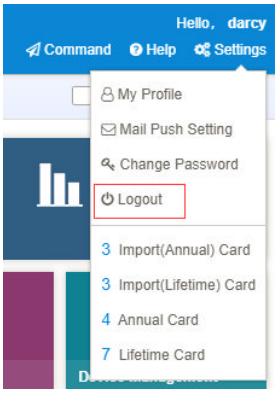
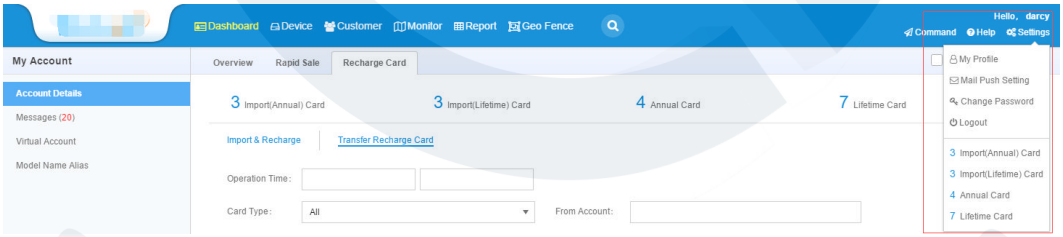


4.2 Settings & Alerts

Settings contain some common features like *My Profile*, *Change Password*, *Logout* , *Mail Push Setting* as well as the balance of *Recharge Card*.

Mail Push Setting is used to configure distributor's own SMTP, system sends mail via this SMTP server rather than system default SMTP server if a SMTP host configured.



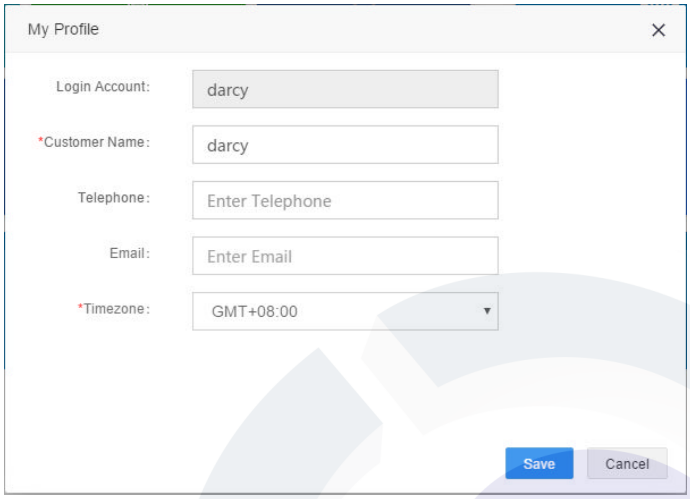
Note

Demo account or virtual account only has *Logout* menu item. Only Distributor has *Mail Push Setting*. The card balance is hidden if current login account has no recharge card.

4.2.1 My Profile

My Profile includes configurable fields like time zone, account nick name (Customer Name), phone number, email. All time stores in database are by UTC(GMT) time, system converts to local

time by this timezone setting. If user timezone is not set, it will be replaced by the timezone of browser.



Note

System pops up a window and ask user to set timezone if user haven't set yet. If the timezone of user's browser is not identical to user setting timezone, a window will pop up for user to choose it.

4.2.2 Mail Push Settings

Some distributor request to sending email by their own SMTP server rather than default one, therefore, system provide a mail push setting for customize this information. System gets the closest superior account mail push setting as the SMTP server while sending mails.

Generally, *SMTP Auth* is required, *Username* is equal to *Mail From*. The default SMTP port is 25, but 465 for SSL.

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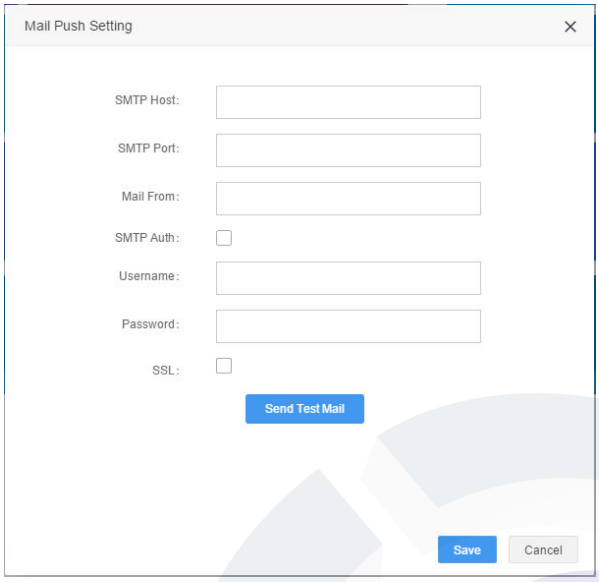
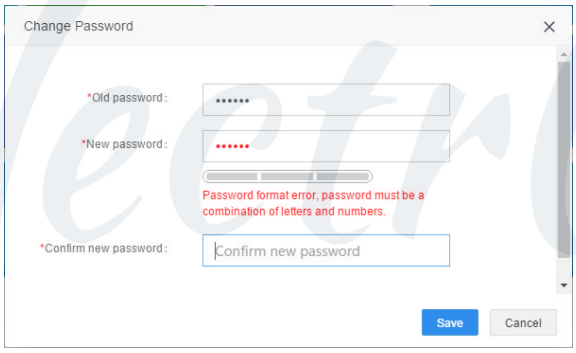


Note

To guarantee SMTP setting is valid, recommend to send a test mail after finish configuration. Otherwise, you might not able to get email notification while tracking device alerts rise.

4.2.3 Change Password

The initial password is 88888, user should change it after first login. New password should contain letter and number, 6+ length.

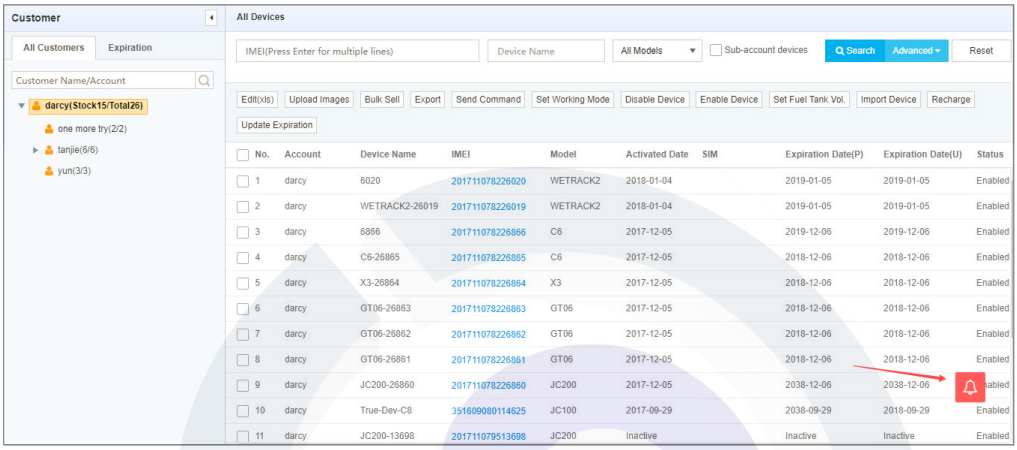


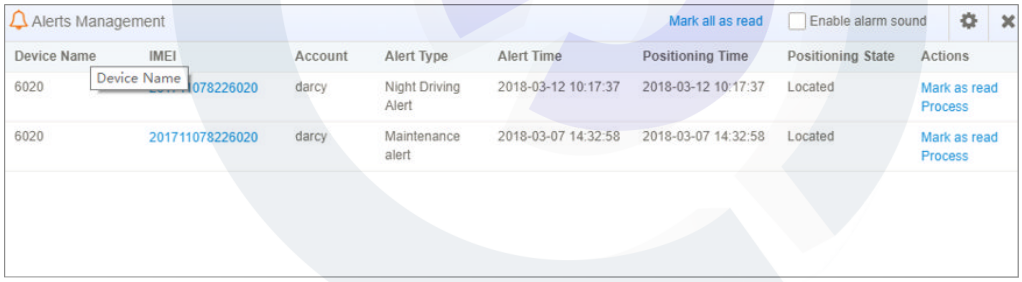
4.2.4 Alerts

All pages include a flashing bell icon in the lower right corner, it indicates whether existing unread alerts for current login account, click the icon to view details. The icon can be dragged to other

places.

To receive alerts, user should switch them on in *Alert Settings* according to the alert type.





Exist unread alerts

All alerts are read

Click the *IMEI* hyperlink can view device details.

- Mark all as read - all alerts status become read the alarm no longer flashing.
- Enable alarm sound - play the sound while new alert coming.
- Mark as read - make selected alert as read.
- Process - add a remark information for selected alert.

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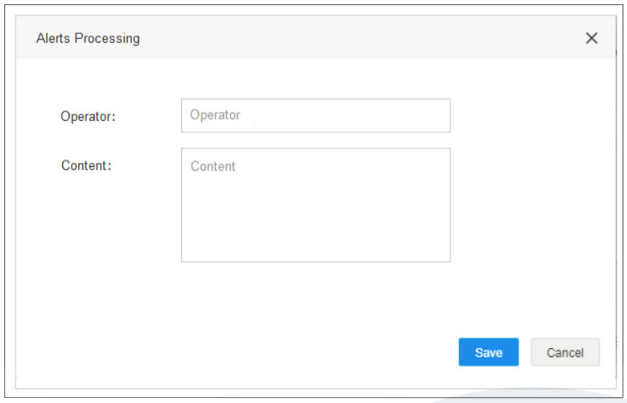
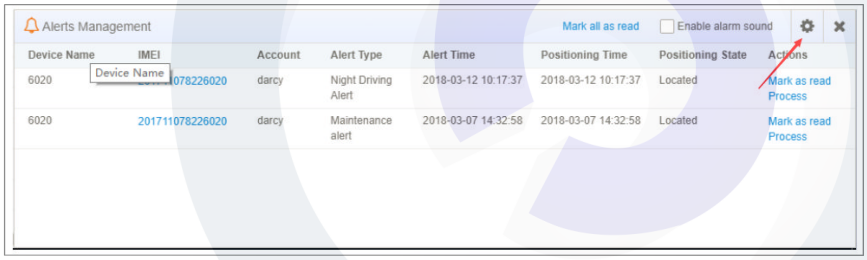
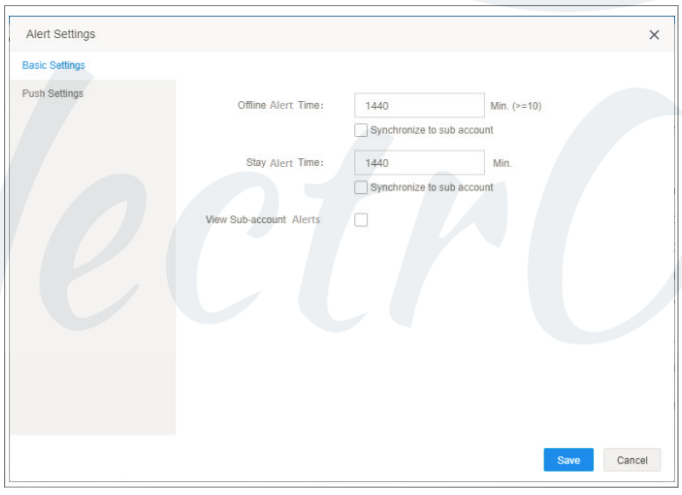


Alert Settings



Basic Settings



Offline Alert Time - the threshold for offline alerts, if device offline more than the specified time system will generate an alert.

Stay Alert Time - if user enable a stay alerts (Long time not enter/exit a Geo-fence), device stay in associated

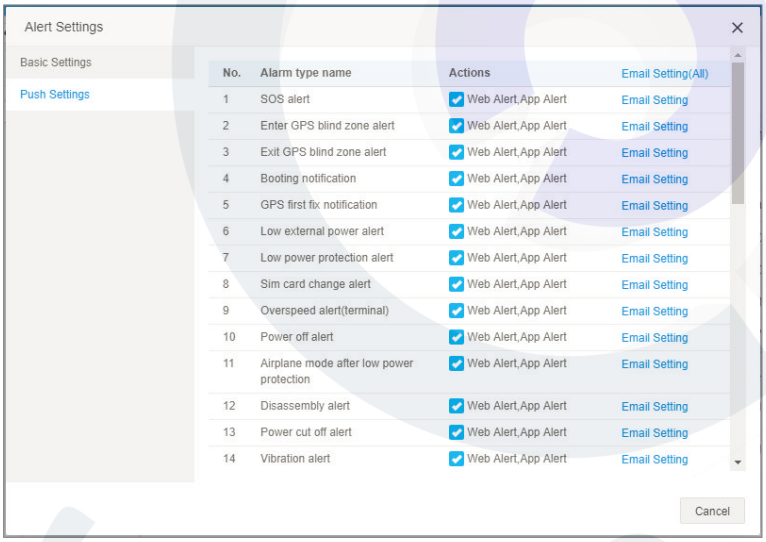
Geo-fence more than this threshold will generate a corresponding alert.

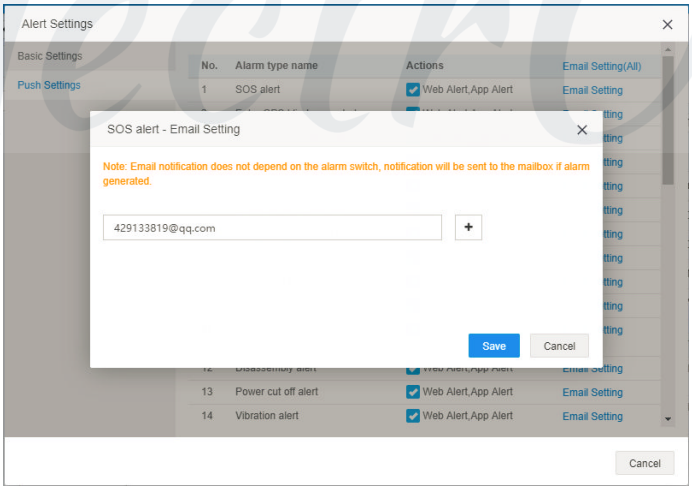
Synchronize to Sub-account - sub-account have the same setting as current login account.

View Sub-Account Alerts - alerts from sub-account will also displayed in current account's alert list.

Push Settings

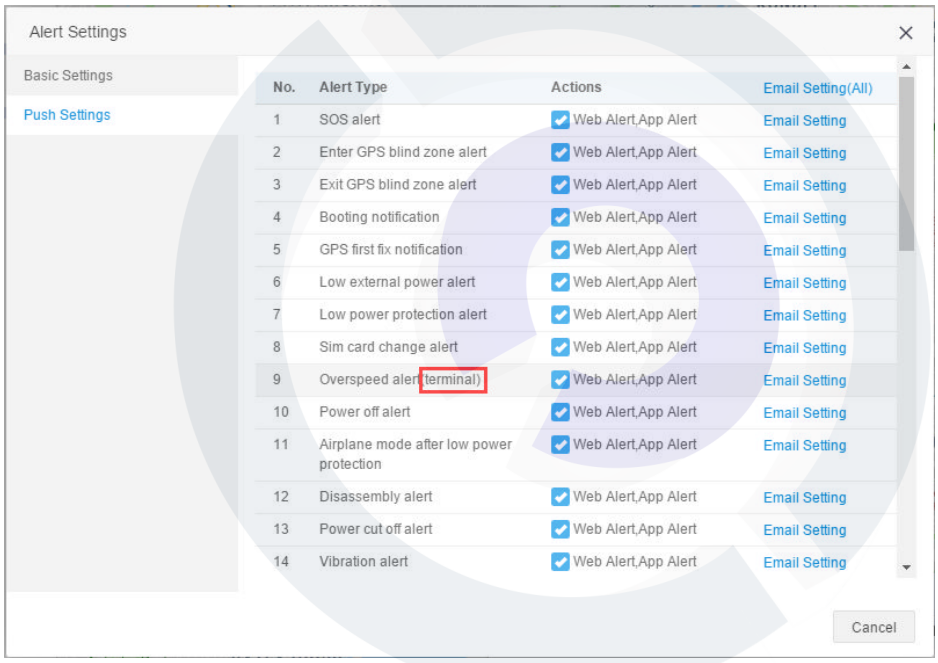
User enable the alert by check the corresponding alert type, if email address is configured, system will also send a notification by email, support to set multiple email address. Web Alert and App Alert are depends on the same switch.

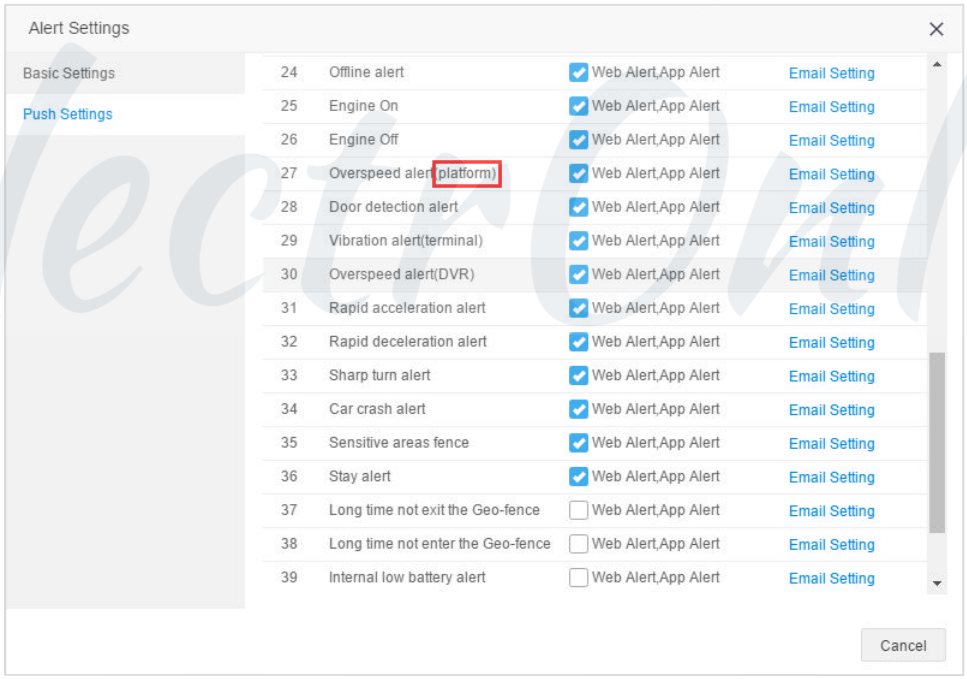




Note

Some alert type might marked as *terminal* or *platform* with parentheses, this indicates the alert generates source, terminal represents alert is from tracking device, platform means alert is calculated in platform and alerts is sent by platform, for example, *Overspeed alert(platform)* , if user configured *Overspeed Threshold* in *Device Detail* as 100km/h, then if the calculated speed is more than 100km/h, platform will trigger an alert. However, the threshold of *Overspeed alert(terminal)* is configured by sending command to device.





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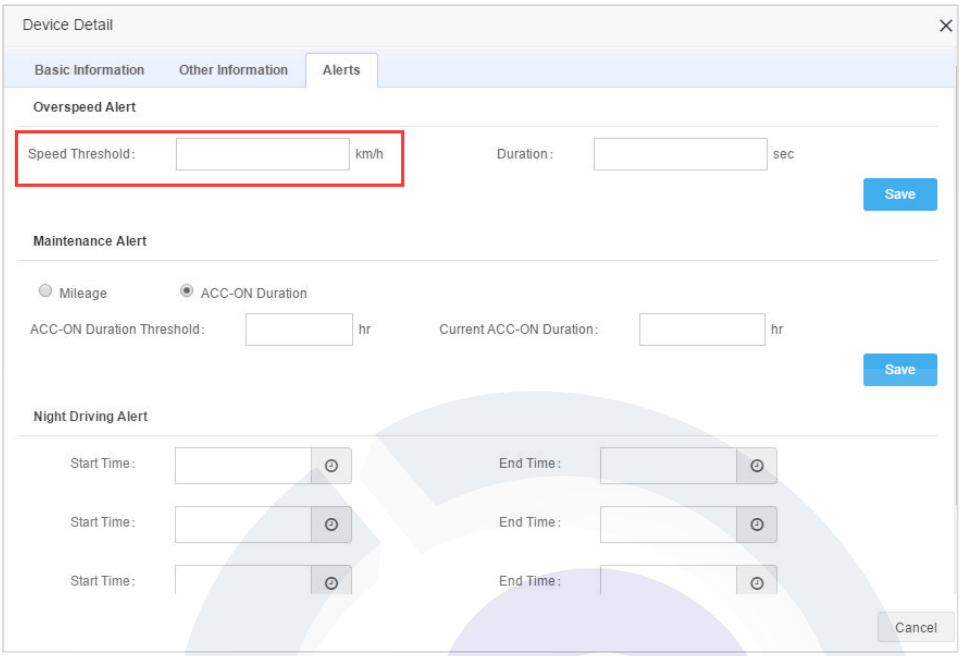
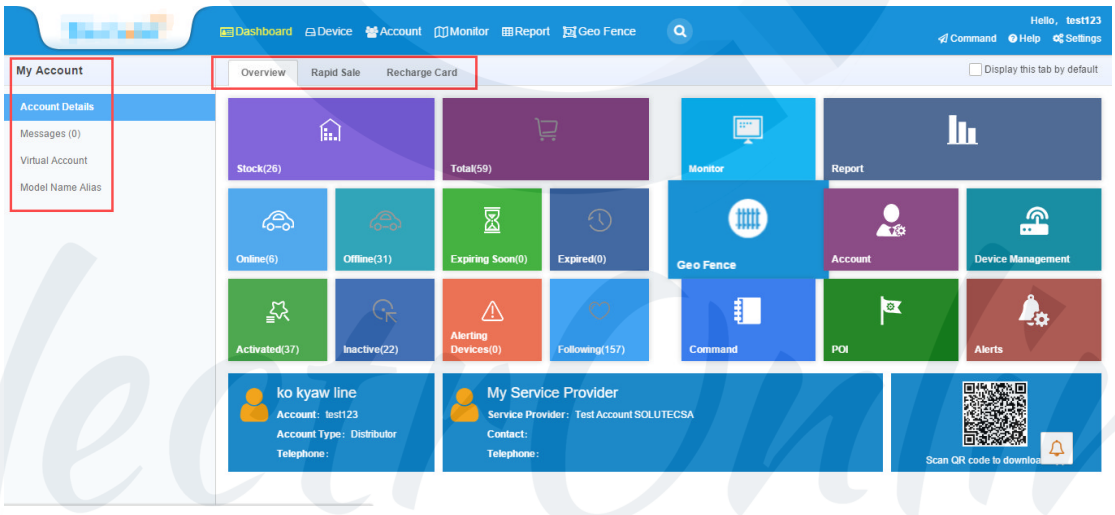


4.3 Dashboard

Dashboard gives an overview of this tracking platform and provides some shortcut for user to operate it more conveniently.



- The first tab of Dashboard(*Overview*), displays the quantity of tracking devices of current account and total quantity devices, which includes sub-account's devices. And also counts some critical information like offline/online, expiration, activation, following and alerts. Right part of overview are shortcuts for platform main features: Device, Account, Monitor, Geo Fence and Report.

- The second tab (*Rapid Sale*) provides a quick way to sell devices(move device) to sub-account.
- The third tab (*Recharge Card*) is for user to import devices or renew devices by recharge card.

- Messages

Messages gives the information of devices offline and expired.

- Virtual Account

User could create multiple virtual account for current account, and specify different access permissions for it, this helps team members to cooperate with the same account. Virtual account is not a real account, it's an alias account with different access rights.

- Model Name Alias

Distributor could give their tracking devices an alias mode name, all customers of this Distributor will see the alias mode name rather than default model name in entire platform, this is good for Distributor sell product in the market.

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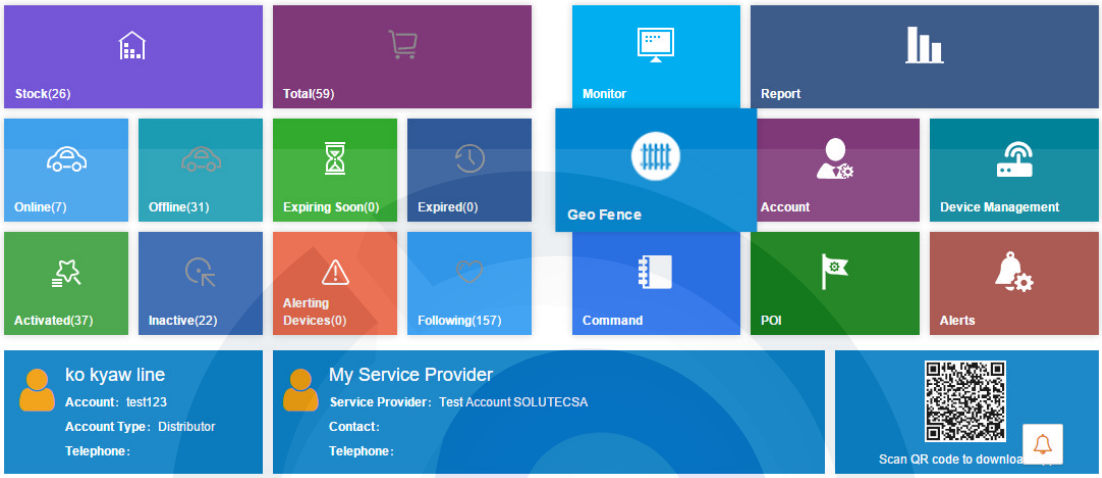
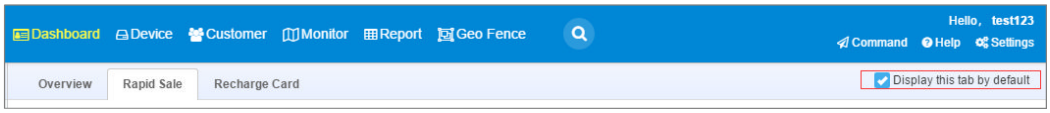
4.3.1. Account Details

4.3.1.1. Overview



- Stock: show the quantity of all devices under current login account, not include devices from sub-account.
- Total: quantity of all devices under current account and its sub-accounts. Click to view the devices list.
- Online/Offline: Counts all online and offline devices of current account. Click it to view detail in *Monitor* page.
- Expire Soon/Expired：Counts all expiring and expired devices of current account and sub-account. System navigates to *Device* page to show the detail devices.
- Activated\Inactivated: Calculates quantity of all activated and Inactivated devices (Device is activated when first GPS coordinate uploaded to server), click it to navigate to *Device* page to show the detail devices.
- Alerting Devices: Counts the quantity of tracking devices that generate alerts. Click it to open alerts detail list on the lower right corner.
- Following: Calculates all followed tracking devices of current account. Click it to show following devices in *Monitor* page.

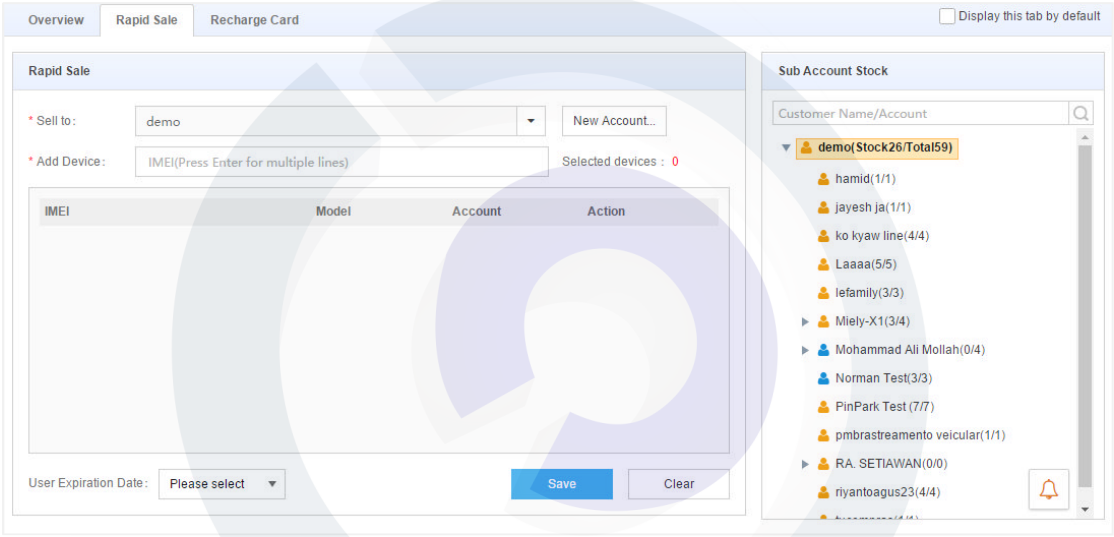
Tips

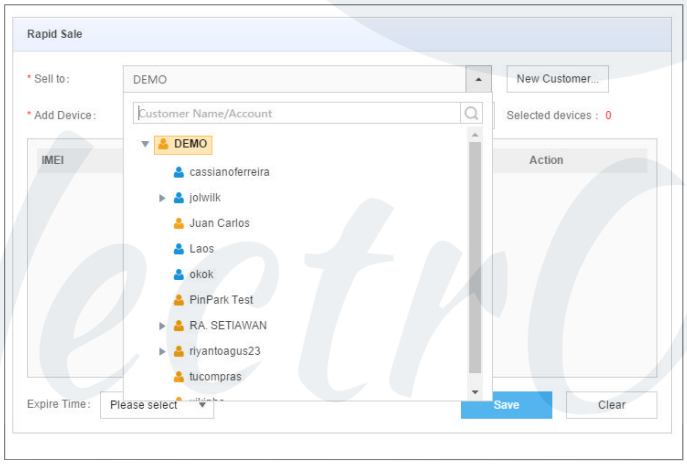


You can change the default tab by check *Display this tab by default* checkbox, for figure above, *Rapid Sale* is the active tab after login.

4.3.1.2. Rapid Sale

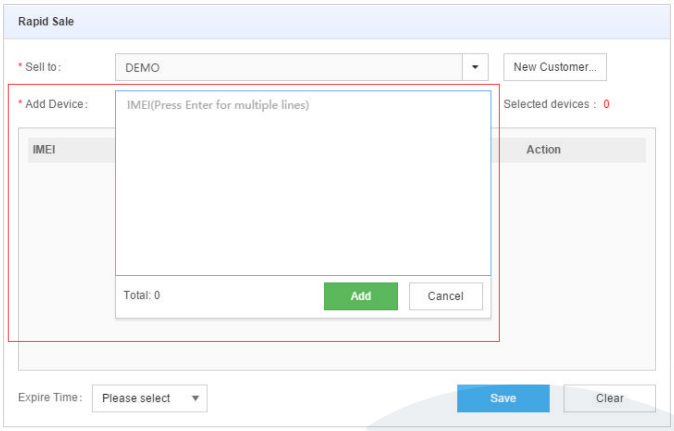
Rapid Sale is a shortcut for moving devices to specified sub-account. User could move multiple devices to sub-account in bulk. Moreover, if the target sub-account is not existing, user could add a new one by clicking *New Account....*

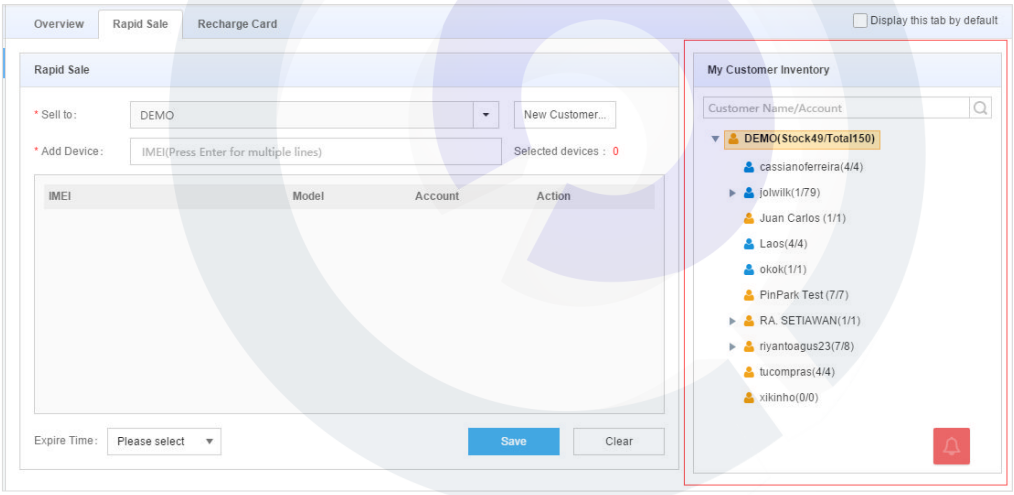




Tips

User can copy & paste multiple IMEI to this text box for moving several devices in bulk.





My Customer Inventory on the right side gives the device quantity of all accounts.

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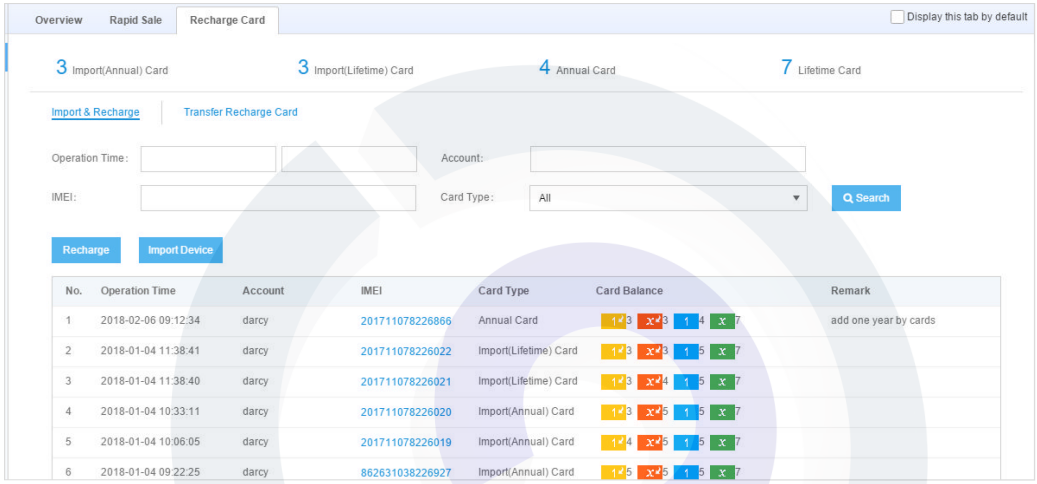
Tips

The node of account tree like above indicates account jolwilk has 1 tracking device directly(not include devices of sub-account), and totally have 79 tracking devices(including sub-account).

4.3.1.3. Recharge Card

Recharge card is a new way to import and renew tracking devices. Previously, if user want to import or renew devices manually, they should get license code from customer services and upload it by Excel, this procedure is much complicated, Recharge card is a replacement feature for license code, license code will be discarded in the future.



There are 4 recharge card types:

Import(Annual) Card - Only for importing tracking device, effective time is 1 year.

Import(Lifetime) Card - Only for importing tracking device, effective time is lifetime.

Annual Card - Renew tracking device to extend 1-year effective time.

Lifetime Card - Renew tracking device to extend expiration to unlimited.

Recharge Card in *Dashboard* shows the balance of each card type, and also provide a shortcut to renew(recharge) new devices , import new devices, as well as transfer recharge card to sub-account and corresponding history.

- Import & Recharge

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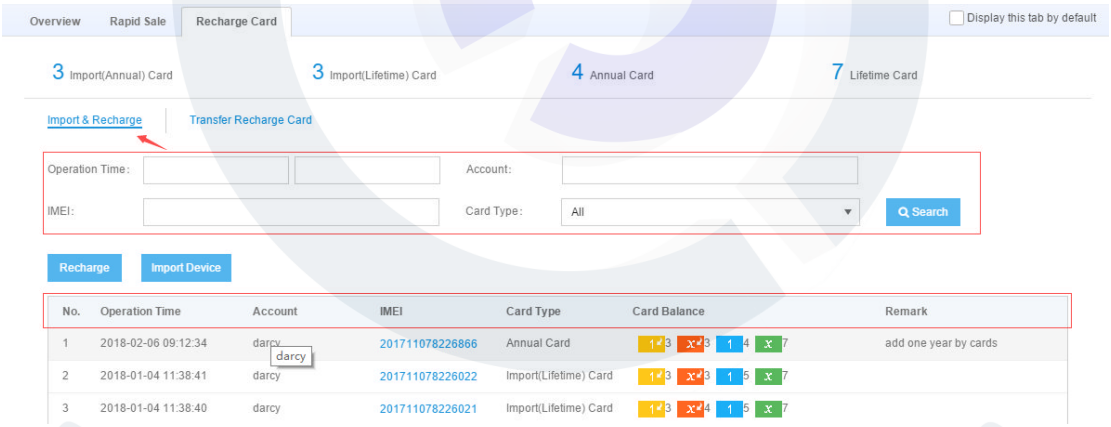
To track a target in this tracking platform, you need to import devices first. If devices were expired, it should be recharged(renewed) if user still want to use it. User is able to import or recharge(renew) device manually if he/she got recharge card.

To import/recharge device, just click *Import Device* or *Recharge* button, after operation done, an new record will be shown in the datagrid. Each row describes the detail information of recharge card used.

Several searching criteria are also provided for user to search the recharge card used results , like *Operation Time*, *Account*, *IMEI as well as Card Type*.



- Recharge

To renew devices by recharge card, click the *Recharge* button, select the recharge card type, provide the devices IMEI and enter remark then click save button, system will validate the devices and change the expiration date for devices.

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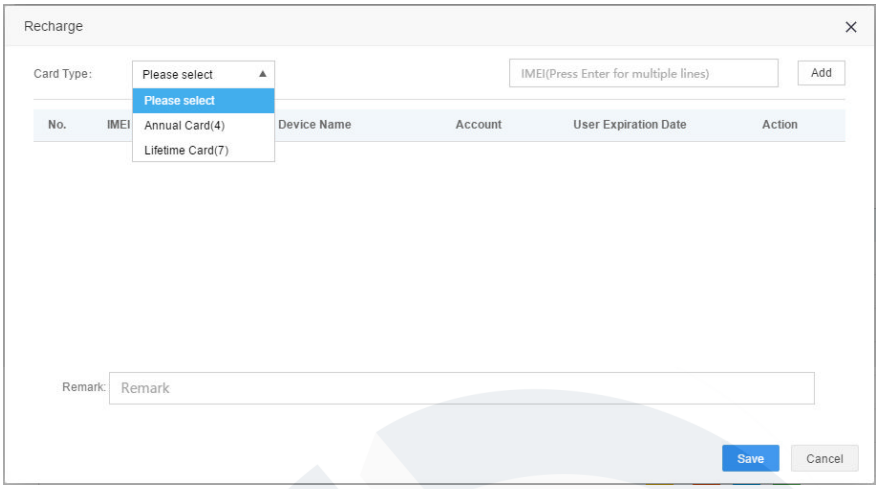
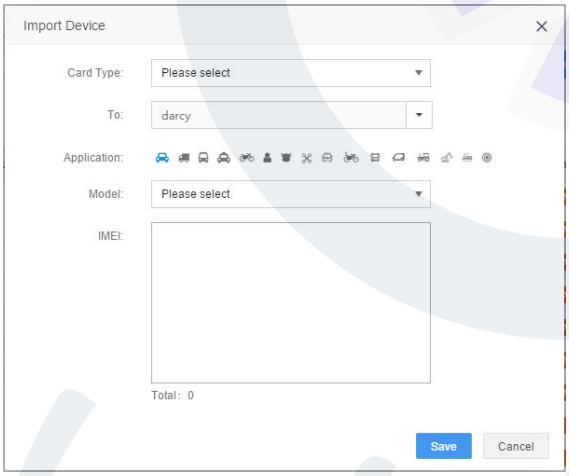


- Import Device

To import devices manually, click *Import Device* button, fill the required fields in the pop up window and click save button, note that IMIE is support multiple, one IMEI for each line.



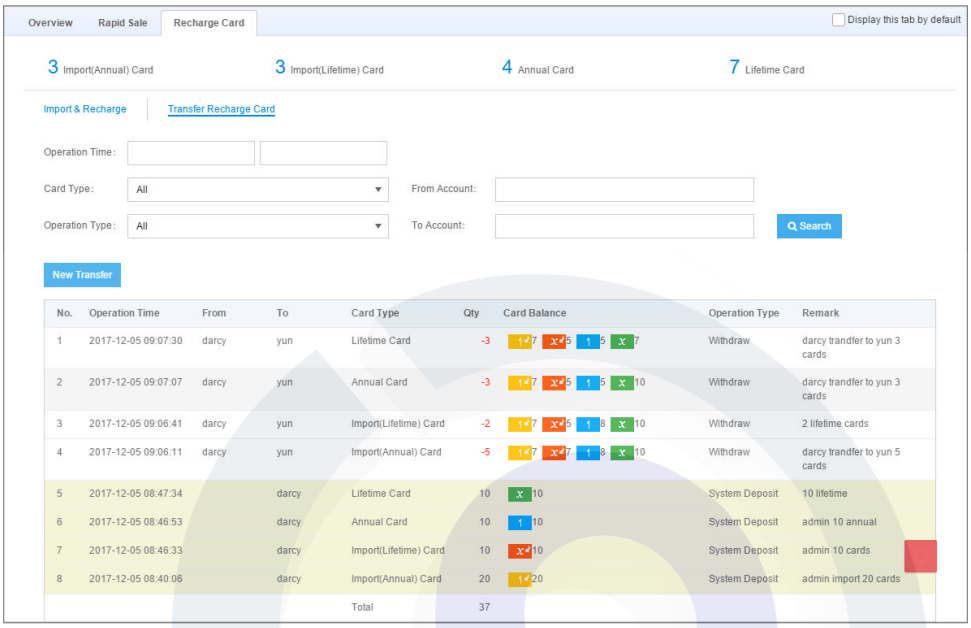
Note

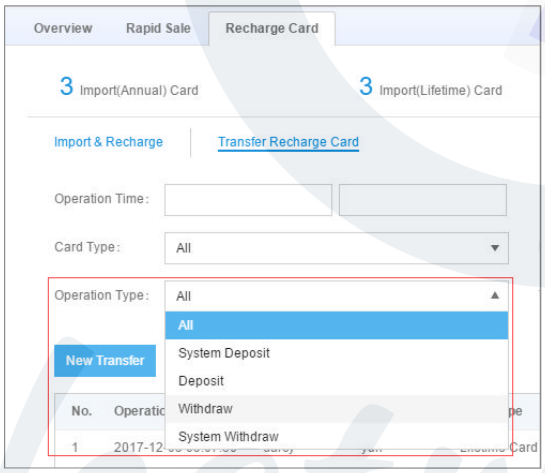
Operation might failed if device IMEI is not exist or not a valid IMEI, IMEI should be a digital string which length is 15 .

- Transfer Recharge Card

Recharge card can be transferred to sub-account from superior account, A top level Distributor

might purchase recharge from platform. The datagrid on the bottom displays the history of recharge card transferred.





Operation Type

a. System Deposit

Recharge card added by platform customer service for current login account, rows will be highlighted in the datagrid.

b. Deposit

Recharge card transfer from superior account to current login account.

c. Withdraw

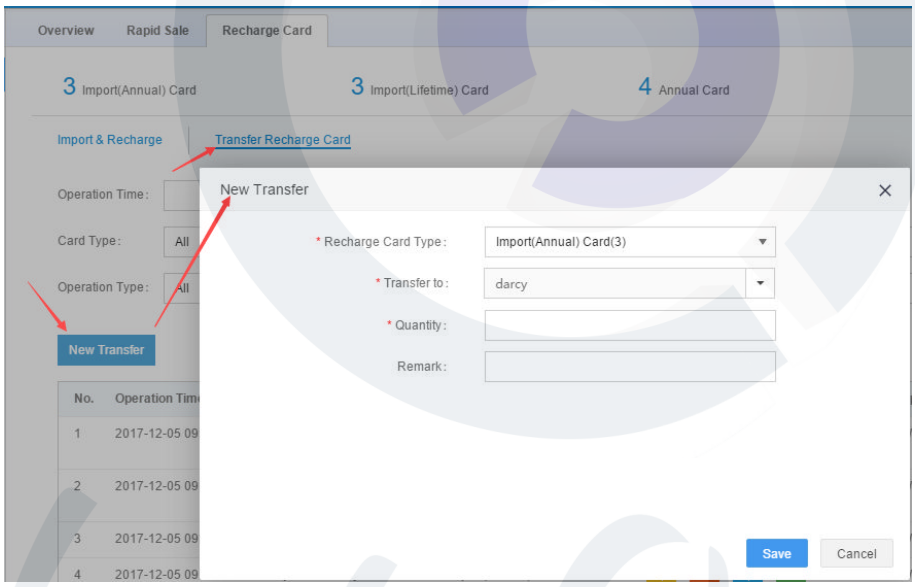
Recharge card transfer from current login account to sub-account. Quantity will be shown as negative and in red color.

d. System Withdraw

Recharge card callback by platform customer service, this kind of records only happens if the customer services did a misoperation. Quantity will be shown as negative and in red color.

- New Transfer

Click New Transfer to transfer recharge card to sub-account. Select the recharge card type and target sub-account, fill the quantity and remark and click save button to complete a transfer operation.



4.3.2. Messages

System searches devices that is offline more than 3 days or to be expired in 15 days on schedule, and send notifications to user by mail(if mail address is provided in Account). Meanwhile, they are also displayed in this message box. All unread messages can be mark as read.

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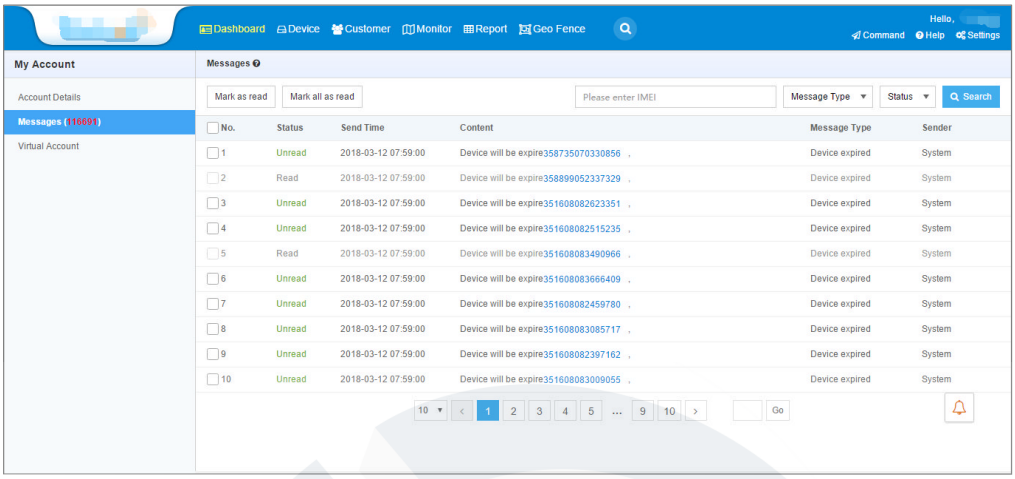


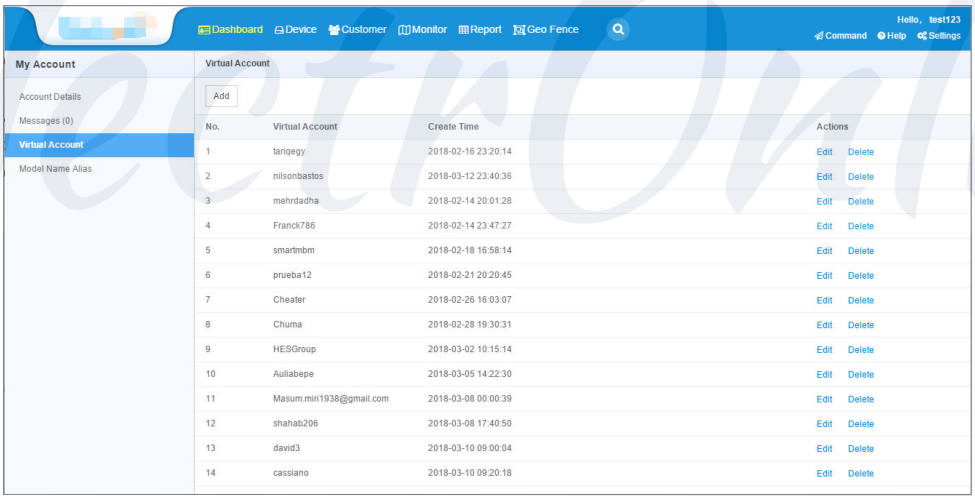
4.3.3. Virtual Account

Virtual account allows user to manage tracking devices among team members with an identical account. These virtual accounts are reference to the same account with different access rights as following:

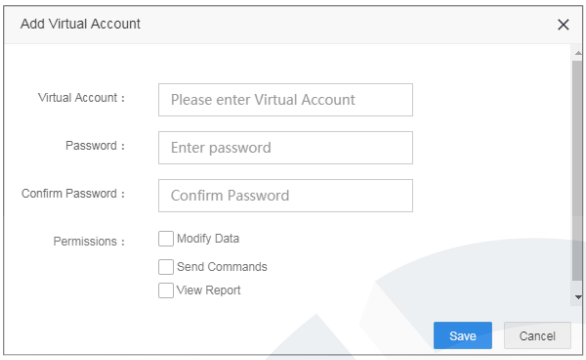
Modify Data - able to add, edit and save data.

Send Commands - able to send command to device.

View report - able to see *Report* page.

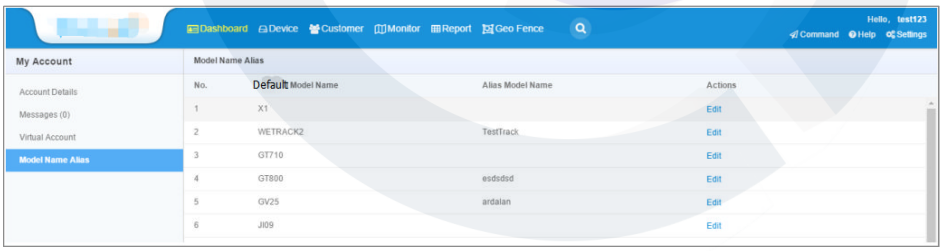


ElectrOnline



4.3.4. Model Name Alias

Distributor could specify model name for their own devices. Once Distributor gives an alias name for a specific model, all sub-account of this Distributor will see alias model name rather than system default model name.



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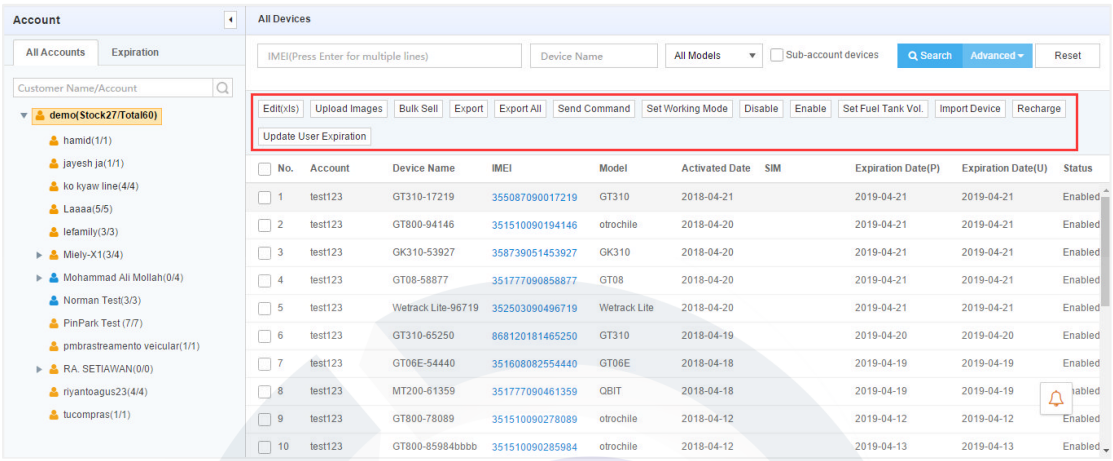
4.4 Device Management



Device management includes following features:

- Import devices - import tracking devices to platform and start to use. User can import devices by license code or by recharge card.
- Searching devices - search devices by different filter conditions. User also can find the expiration of devices by the *Expiration* tab.
- View & edit device - view and edit tracking device information, including basic information, other information, alert setting by device. System also support to edit records by download Excel file and upload it to update devices, *Upload Images* is a function to upload installation images in bulk, *Set Fuel Tank Vol*. allow user to set fuel tank volume for batch devices. *Update User Expiration* is a feature to update user expiration date of sub-account's devices in bulk.
- Move devices - *Bulk Sell* support user to move multiple devices to sub-account.
- Export devices - Export selected devices or all devices(matching searching criteria) to Excel file.
- Send Command/Set Working Mode - Synchronize command or working mode to devices.
- Enable/Disable device - To stop or resume device using in platform.
- Recharge devices - Renew devices effective time in system, user can renew device by license code or recharge card.

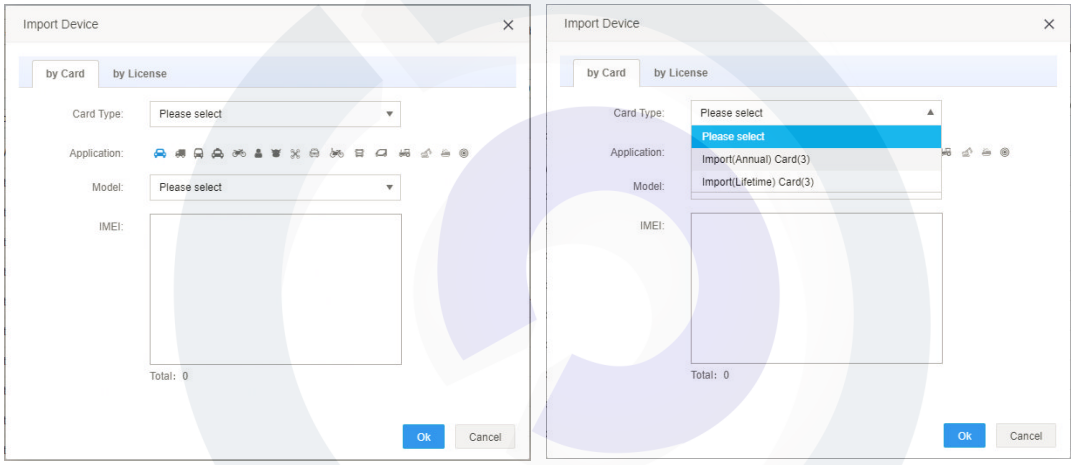
4.4.1. Import Device

To use tracking device in platform, user need to import them first. There are two ways to import

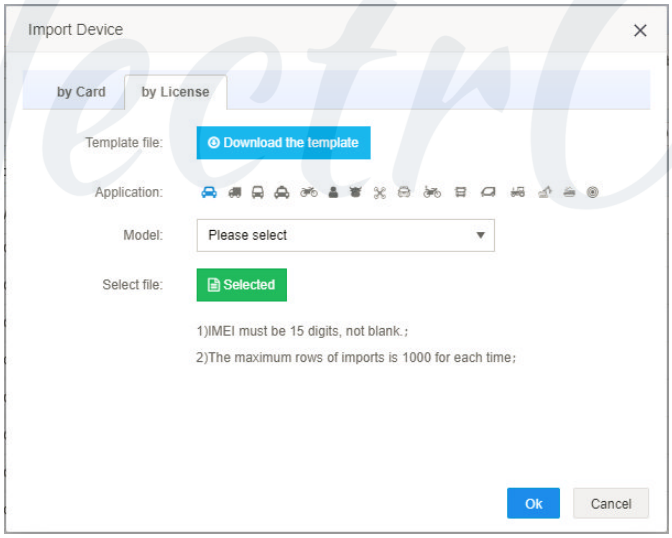
devices to system manually, one is by recharge card, another is by license code.

by Card

Import devices by recharge card if you already have purchased it, otherwise the *Card Type* dropdown will have no options, select the application target, model and fill in IMEI of devices, click OK button to import devices.



by License - a deprecated renew devices mechanism and will no long support in the further. User get license code from your superior user or customer services and upload an Excel file with those license code and device IMEI to finish renew devices.



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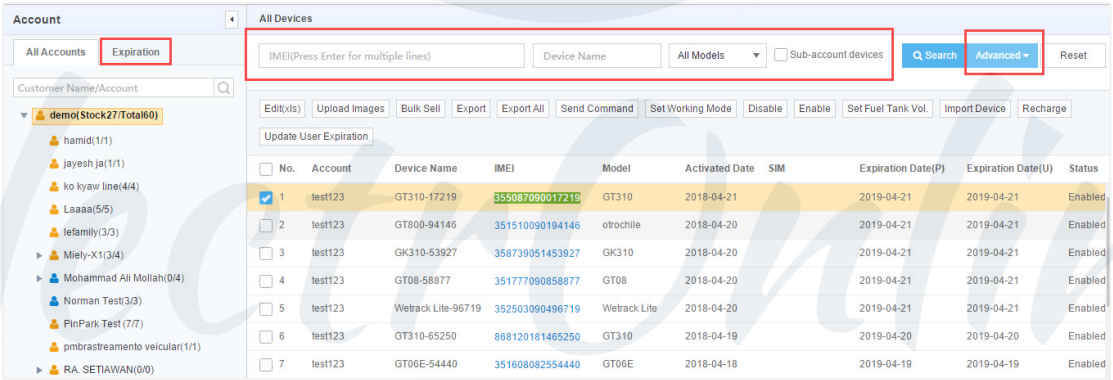
	A	B	C	D	E	F	
1	*IMEI	*License	Chip ID	Motherboard software version number	Secondary board software version number	Motherboard hardware version number	Secondar
2	111112222233333	erfzds123412r4ewr214242dfgdr21					
3							
4							
5							

Note

If system prompt a message that AMS validation error, you might need to double check with your superior user or customer services to make sure the IMEI is a valid one and exits in a system called AMS.

4.4.2. Searching Device

System provides simple and advanced search to help user find devices. Expiration tab is another way to find devices according to expiration date.

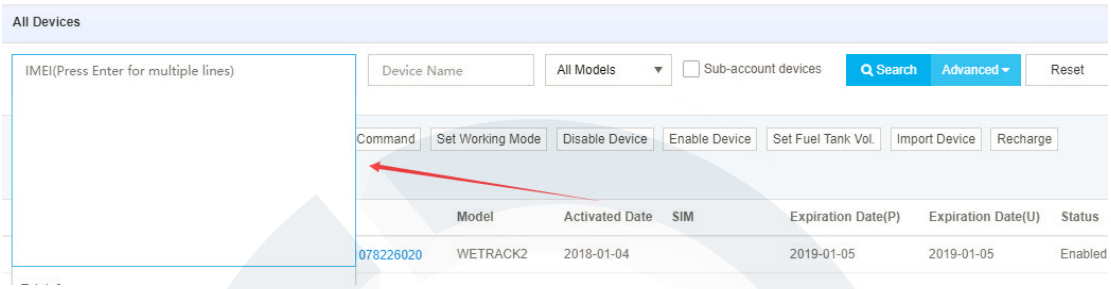


- Simple Search

Simple search including following criteria fields: *IMEI* (support multiple IMEI), *Device Name*,

Model, also provide a checkbox *Sub-account devices* to include devices of sub-account.

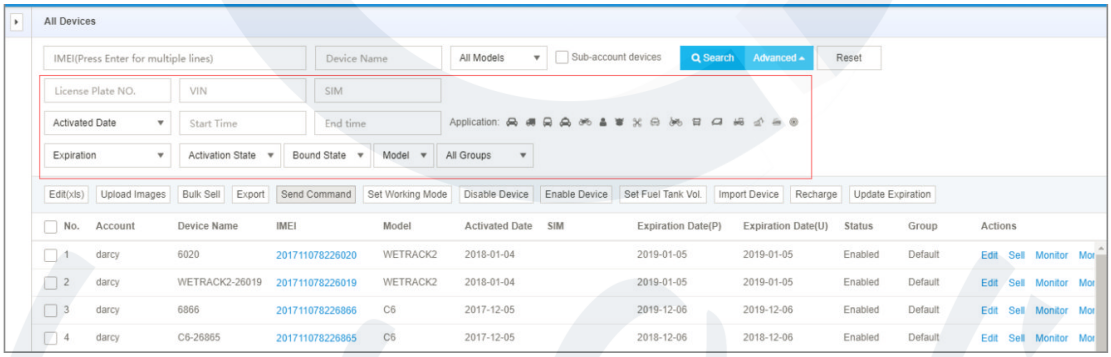
Tips



You can provide multiple IMEI of devices at one time, break to new line to separate them. User can also search a device by typing the last 5 digital of IMEI.

- Advanced Search

Advanced search allow user to search devices by several additional query criteria.



License Plate No. - Plate Number of associated vehicle(or other type target).

VIN - Vehicle Identification Number.

SIM - SIM card number if user specified.

Application - target of tracking device attached.

Activated Date - Searches devices by activated date range (start time to end time).

Expiration Date(P) - Searches devices by Platform expiration date range.

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Expiration Date(U) - Searches devices by User expiration date range.

Expiration Criteria

Expiring Soon - Gets devices which platform expiration date will expiring soon.

Expired - Gets devices which platform expiration date have been expired.

Expiring Soon(User) - Get devices which user expiration date will expiring soon.

Expired(User) -Get devices which user expiration date have been expired.

Note

Platform Expiration Date - indicates how long the devices can be used in this platform, depends on the years specified when import or renew a device, no matter which account the devices belongs to.

User Expiration Date - each account associate with the device can be set a user expiration date, superior account can change the user expiration date of devices for sub-account. User Expiration Data help Distributor controls expiration date of devices for sub-accounts.

Activation State

Search activated or inactivated devices

Bound State

Search devices which have been bound by App or not.

Model

Search devices which is powered by battery or cable.

Groups

Search devices by device group.

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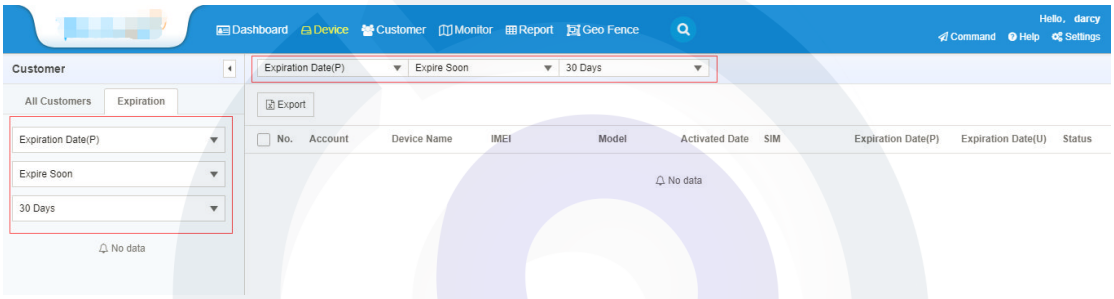
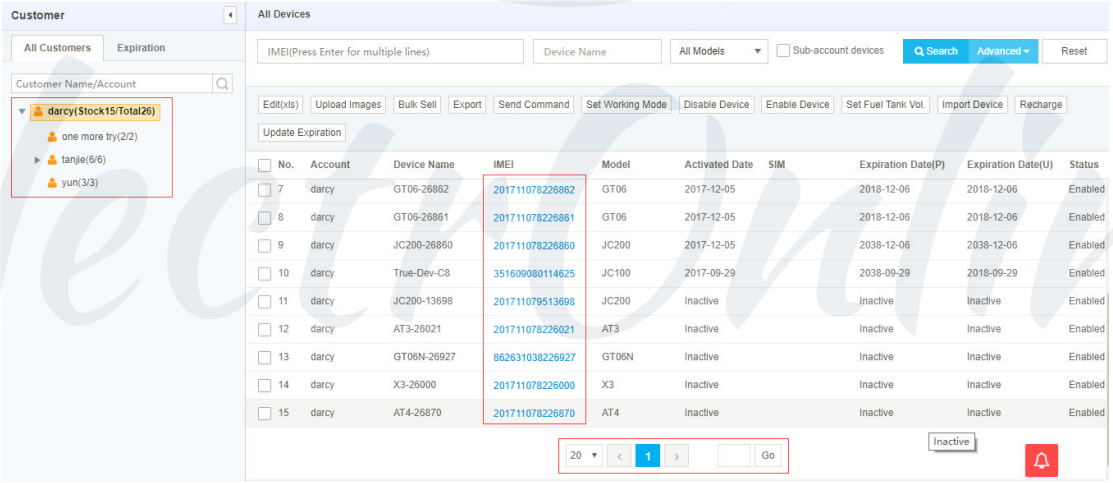
- Expiration Search

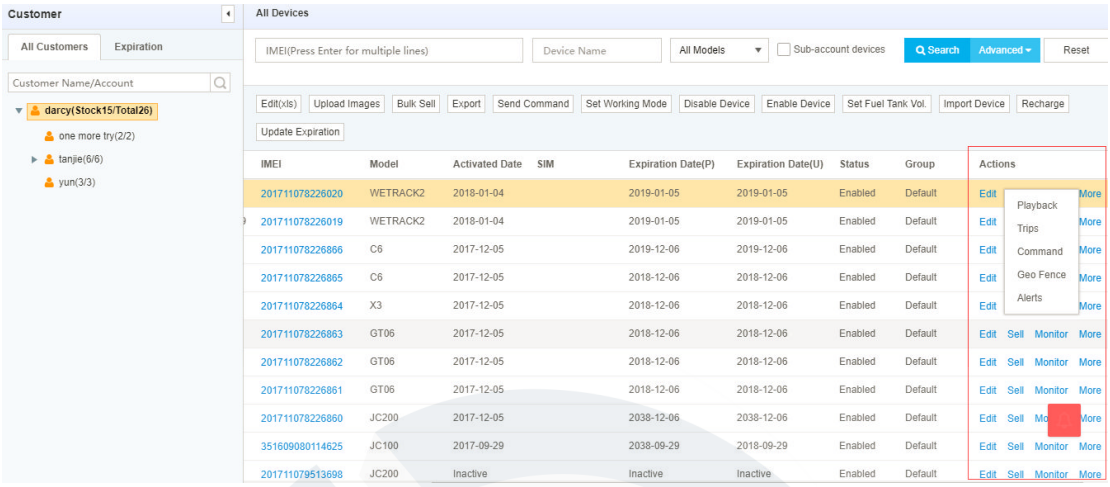
Search devices by the expiration criteria. User can specify searching criteria like: platform expiration date or user expiration date, expired or expiring soon and the number of days. The searching criteria in the left is used to find accounts, however, the top one are used to filter devices.



4.4.3. View & Edit Device

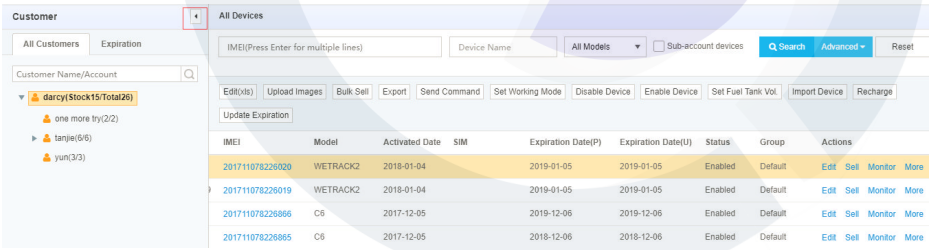
System list all devices by default in the datagrid, display matching results with pagination. User could view device details on the pop up window by click the IMEI link or do other operations at the last column of each row. The account tree on the left shows the account tree including devices quantity of accounts(Stock/Total).





Tips

You can collapse/expand the account tree one the left to expand the visible area of main content.

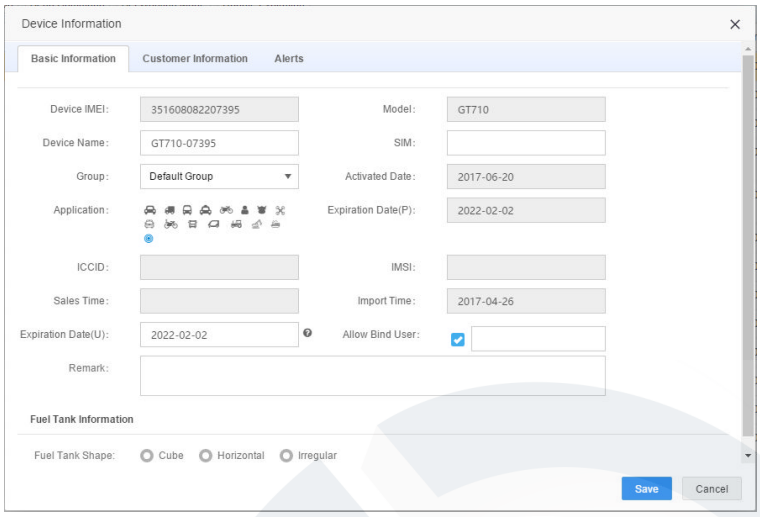


We'll look into each operations of device in the following sections.

- Edit

The pop up window of Edit device contains 3 tabs: Basic Information, Other Information, Alerts.

Basic Information



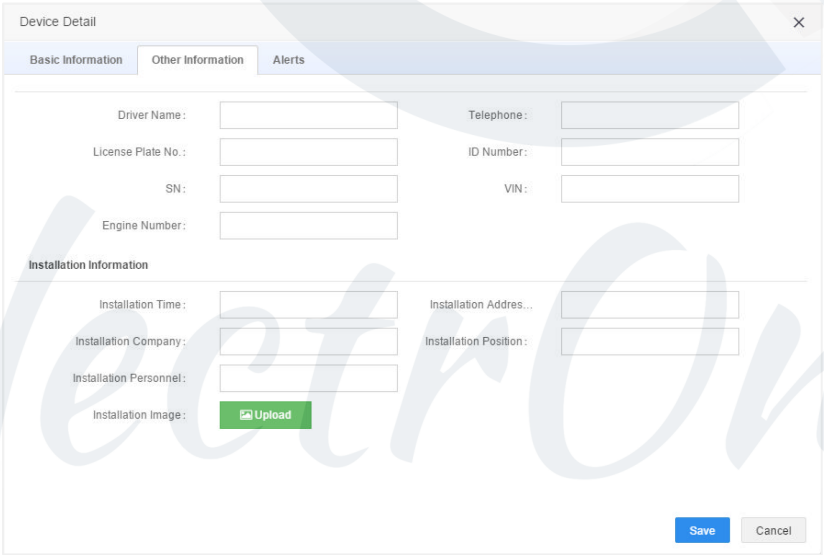
Some fields in basic information tab is editable, some fields are not, check the following list:

Field Name	Editable	Description
Device IMEI	No	Unique number for tracking device.
Model	No	Device model.
Device Name	Yes	Give a name for device, the default device name is model name + last 5 digital of IMEI, for example AB310-17219
SIM	Yes	SIM card number from mobile network.
Group	Yes	Device group, user can add group in *Monitor* page.
Activated Date	No	The date of first GPS data packet upload to sever.
Application	Yes	Device application target, like a car or a cow.
Expiration Date(P)	No	Platform Expiration Date, it cannot be changed except import or renew(recharge) device.
ICCID	No	Automatically update by device.
IMSI	No	Automatically update by device.
Sales Time	No	The time devices sell from superior account to sub-account.
Import Time	No	The time devices imported to system.
Expiration Date(U)	Yes	User Expiration Date, User is not allow to change expiration of his own devices(stock devices), but is able to specify it for sub-account. User

		Expiration Date of sub-account should not later than superior account.
Allow Bind User	Yes	Check it to enable binding this device by App. Uncheck it to unbind the App user and not allow App user to bind it.
Remark	Yes	Add additional information for this device.
Fuel Tank Information	Yes	Select a shape type of fuel tank and provide the parameter for it. This will affects the Fuel Consumption Report and Fuel information upload by device.

Other Information

System provides some additional fields for user to record relative information, like driver's information, vehicle information, installation information, user could add it on demand, system will not validate the input value, only save and display it as what user inputted.



Alerts

Some alert type can be configured by device level, like Overspeed alert, maintenance alert, night driving alert.

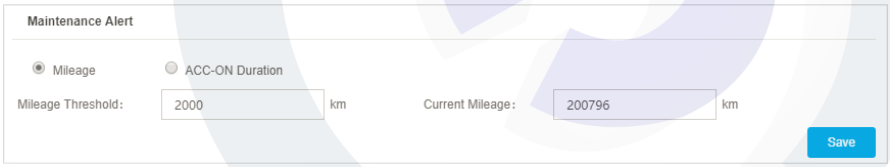
Overspeed alert

Speed Threshold & Duration

For instance, if speed threshold is 100km/h, duration is 10s, that means if the device's average speed in 10 seconds is above 100km/h, system recognizes it as over speed, and will send an Overspeed alert(platform).

Maintenance Alert

There are two types maintenance alert: Mileage and ACC-ON Duration.



As the example figure above shows, if current mileage is times of Mileage Threshold(2000km), like 202000km, 204000km, 206000km...., system will generate an alert to current user.

ACC-ON Duration can be used to send reminder if device engine on for a specific hour, for example, an excavator engine if it worked for 1000 hours, system send out an alert.

Night Driving Alert

If device is moved during the configured time range, system generates an alert. Please do not specify a time range cross day, for example, 18:00 - 05:00(second day) will not works, you should convert to two time range: 18:00 - 23:59 and 00:00 - 05:00.

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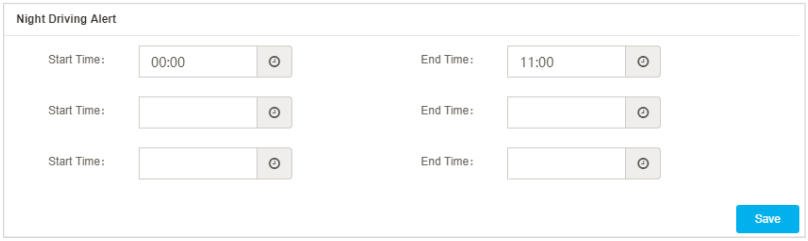

- More Actions

Sell

The essential of sell devices is move devices from current account to sub-account, Distributor settles with his customers offline and move devices to his/her account. This feature is identical to Rapid Sale, see Rapid Sale.

Monitor

Navigate to Monitor page and monitor this device. See Monitor for more detail.

Playback

Navigate to Monitor page and get the last trip of device to playback. See playback for more detail.

Trips

Navigate to Monitor page and list all trips. See Trips for more detail.

Command

Send command to selected device, see Send Command/Working Mode for more detail.

Geo Fence

Show associated Geo-fence, user can delete the association by click the delete link.

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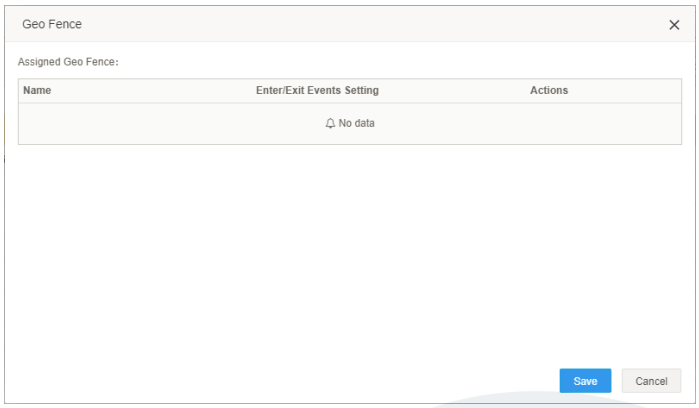

Alert

Navigate to Alert Details Report.

4.4.4. Move Device

Devices can be moved from one account to another by features like *Rapid Sale*, *Sell*, *Bulk Sell* or *Move Device*. These operation usually happen between Distributor and his customers, after create an account for customer, Distributor might need to move devices to customer's account.

Distributor(superior account) is able to specify an effective time for the moved devices, this time will become user expiration date for the customer's account associate with those devices. The specified user expiration date should not large then Distributor's effective time, once customer's devices expired, they could ask Distributor to extend the effective time for them.

Devices can be move in bulk if user provide multiple IMEI at one time.

- Sell/Bulk Sell

Select devices or enter IMEI and click Add button to figure out which devices you want to move, specify effective time to determine how long these devices can be used by the target account, select target sub-account on the right and click Sell button to complete this operation.

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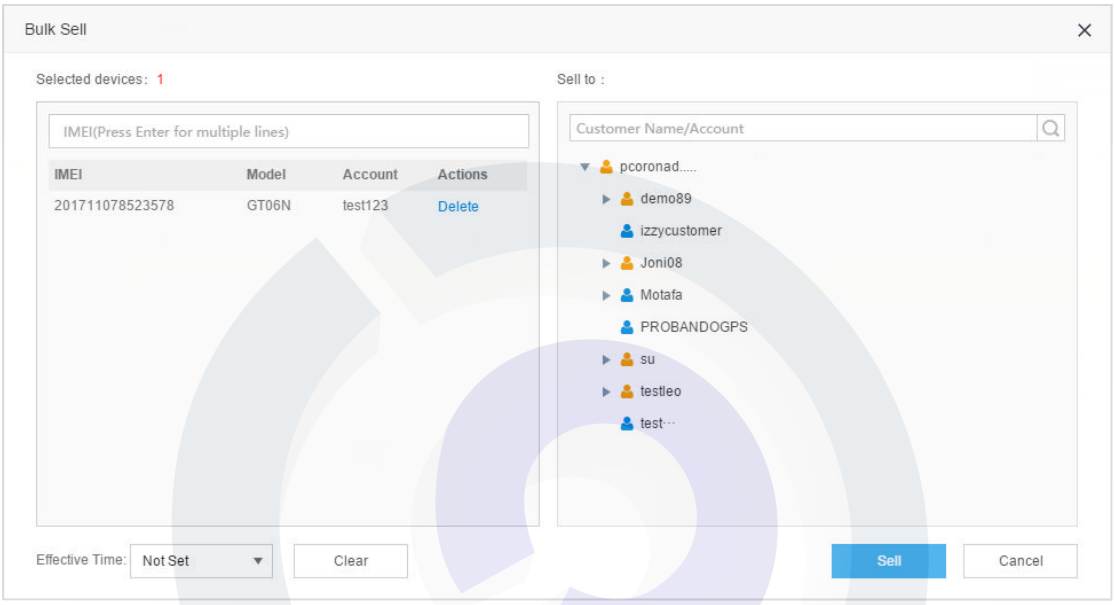
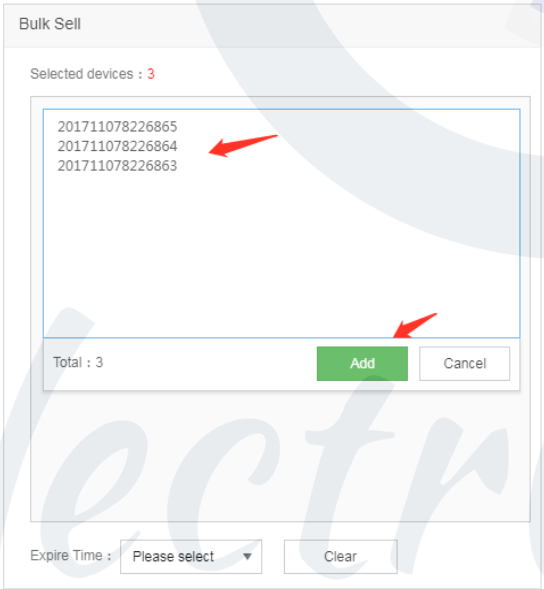
Click *Delete* link to delete selected device entry.

Click *Clear* button to remove all devices added.





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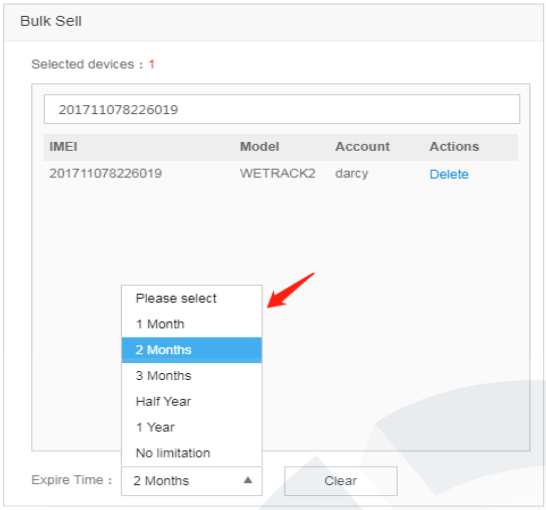


Note

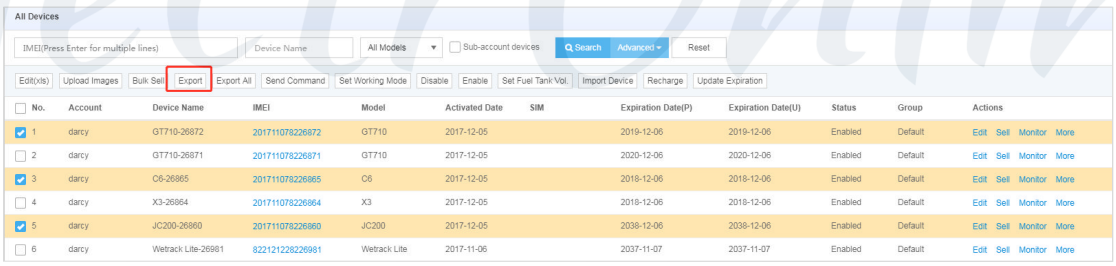
No limitation(Not Set) means that user expiration date for the target account associate with those devices is not set, system regards it equals to the user expiration date of superior account.

4.4.5. Export Device

User can export devices to Excel. System support to export selected devices and export all query results devices. The maximum rows is 5,000.

- Export

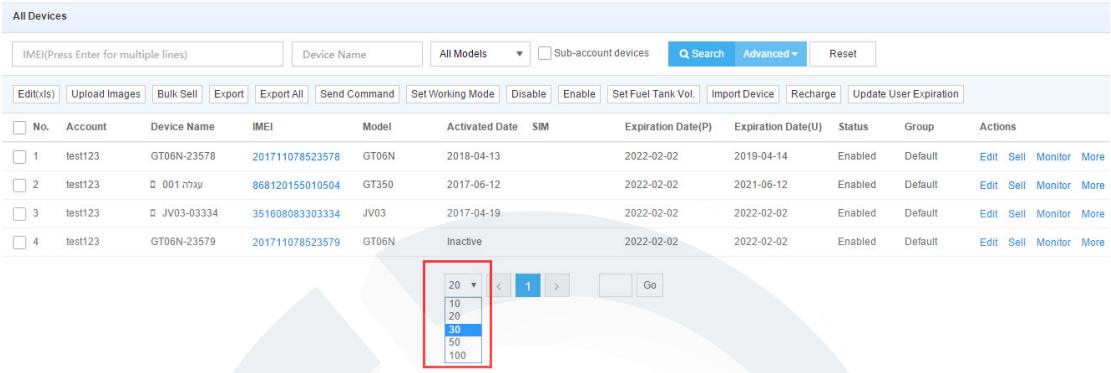
Select the devices you want to export(system will highlight them), then click *Export* button, system download the Excel in your browser.



	A	B	C	D	E	F	G	H	I
1	Account	Device Name	IMEI	Model	Activated Date	SIM	latform Expiration Dat	User Expiration Date	Group
2	darcy	GT710-26872	201711078226872	GT710	2017-12-05		2019-12-06	2019-12-06	Default Group
3	darcy	GT710-26871	201711078226871	GT710	2017-12-05		2020-12-06	2020-12-06	Default Group
4	darcy	C6-26865	201711078226865	C6	2017-12-05		2018-12-06	2018-12-06	Default Group
5	darcy	X3-26864	201711078226864	X3	2017-12-05		2018-12-06	2018-12-06	Default Group
6	darcy	Wetrack Lite-26981	822121228226981	Wetrack Lite	2017-11-06		2037-11-07	2037-11-07	Default Group
7									

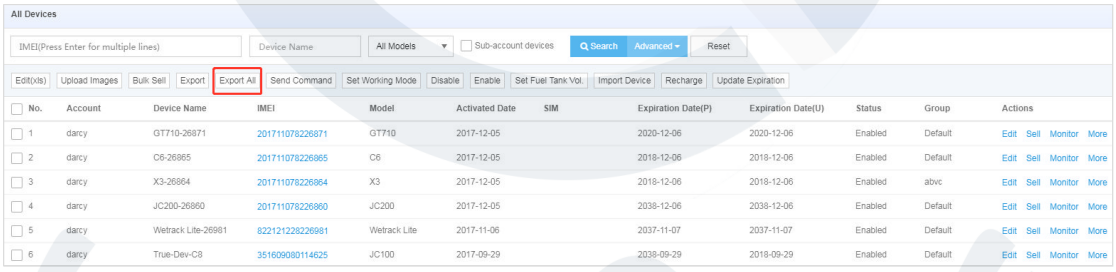
Tips

User can select more than 20 rows by changing the page size of query result.



- Export All

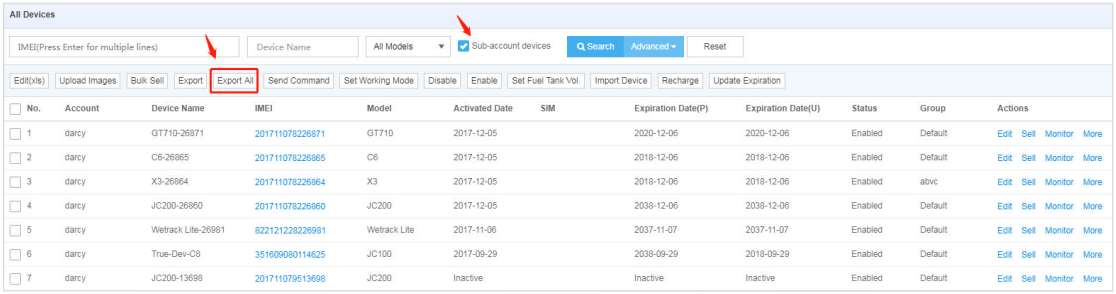
Click *Export All* to export all devices of current query results.



	A	B	C	D	E	F	G	H	I
1	Account	Device Name	IMEI	Model	Activated Date	SIM	latform Expiration Dat	User Expiration Date	Group
2	darcy	GT710-26872	201711078226872	GT710	2017-12-05		2019-12-06	2019-12-06	Default Group
3	darcy	GT710-26871	201711078226871	GT710	2017-12-05		2020-12-06	2020-12-06	Default Group
4	darcy	C6-26865	201711078226865	C6	2017-12-05		2018-12-06	2018-12-06	Default Group
5	darcy	X3-26864	201711078226864	X3	2017-12-05		2018-12-06	2018-12-06	Default Group
6	darcy	JC200-26860	201711078226860	JC200	2017-12-05		2038-12-06	2038-12-06	Default Group
7	darcy	Wetrack Lite-26981	822121228226981	Wetrack Lite	2017-11-06		2037-11-07	2037-11-07	Default Group
8	darcy	True-Dev-C8	351609080114625	JC100	2017-09-29		2038-09-29	2018-09-29	Default Group
9	darcy	JC200-13698	201711079513698	JC200	Inactive		No Set	No Set	Default Group
10	darcy	X3-26000	201711078226000	X3	Inactive		No Set	No Set	Default Group
11	darcy	AT4-26870	201711078226870	AT4	Inactive		No Set	No Set	Default Group
12									
13									

Tips

If you want to export devices include sub-account's, check *Sub-account devices*, then click *Export All* button.



4.4.6. Send Command/Set Working Mode

System allow user to send supported command or set working mode to device by internet.

If device is online, it will be executed immediately and return the results, however, if device is offline, the command will be stored and executed after device online next time, this is called pending offline command, system support only one offline command, it will be overwritten by subsequent offline commands.

Set Working Mode is a special command for some devices to change frequency of uploading GPS packet. For example, an asset tracking device might need to change the frequency.

4.4.6.1. Send Command

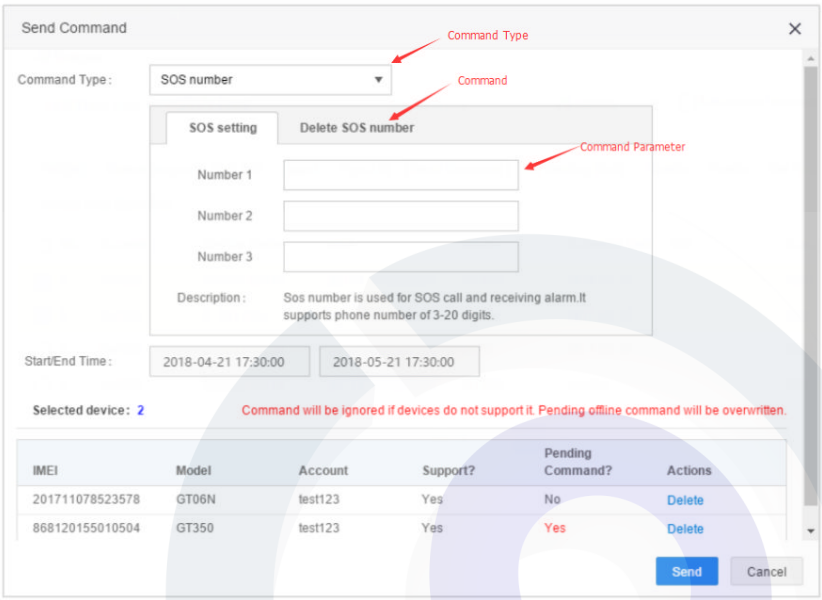
Commands in platform can be divided into two types: predefined command and user defined command.

Predefined Command

Command are configured by several command type, user can select one of them, subsequently, system will list all available commands by tab, each tab is a command, each command might have several parameters, user inputs or select the parameter value and click button to send command, see below figure for example.

The bottom datagrid lists the selected device's support for current command. *Pending Command?*

indicates whether existing pending offline command that we mentioned in previous section.



Note

Command will be ignored if devices do not support it. Pending offline command will be overwritten by new offline command.

User Defined Command

Users can send command which not defined in platform by select *User-defined* command type and input the command content manually, for instance, command 'version#' will return version information of device firmware. In some cases, the password of current login account should be provided for security reason.

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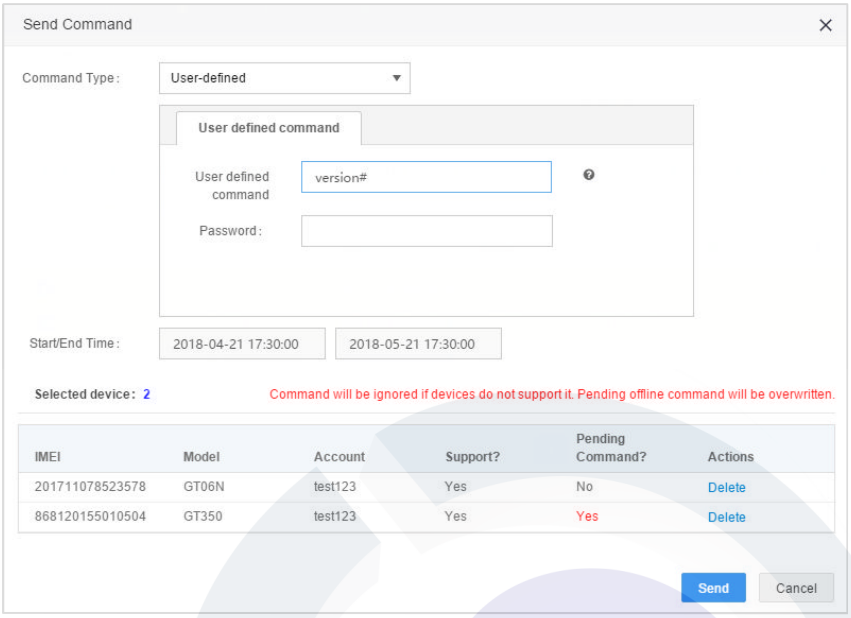
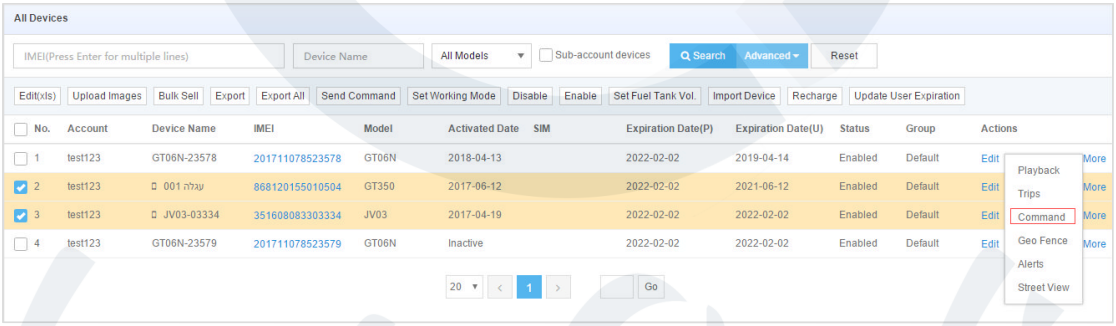


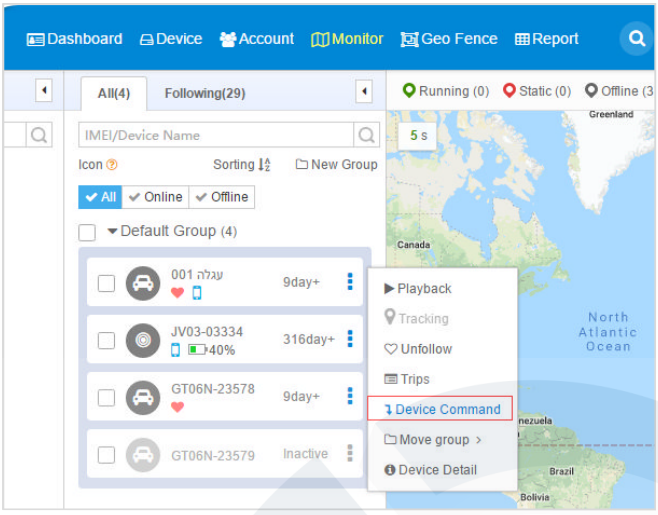
There are server entrance to send command individual or in bulk, see following example:

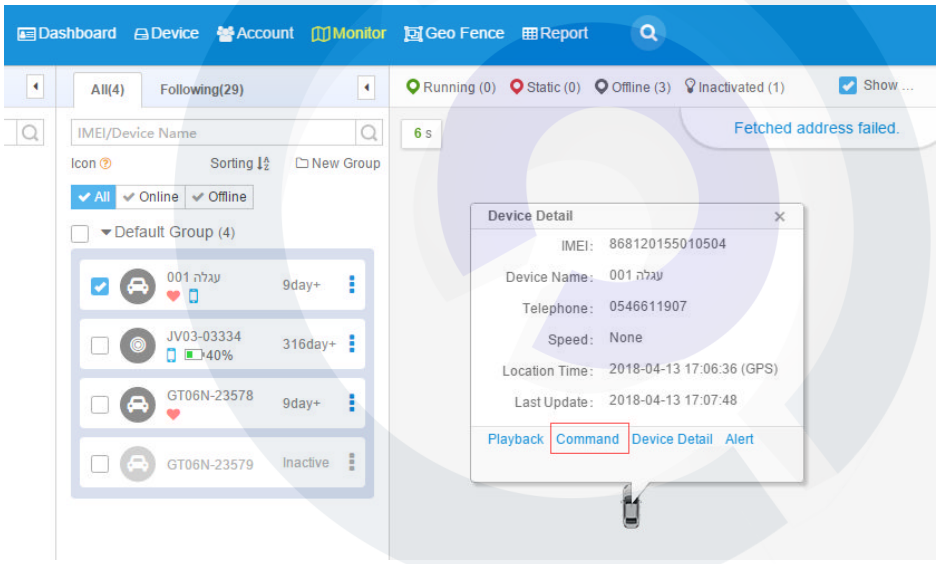
a. In device list, click More -> Command



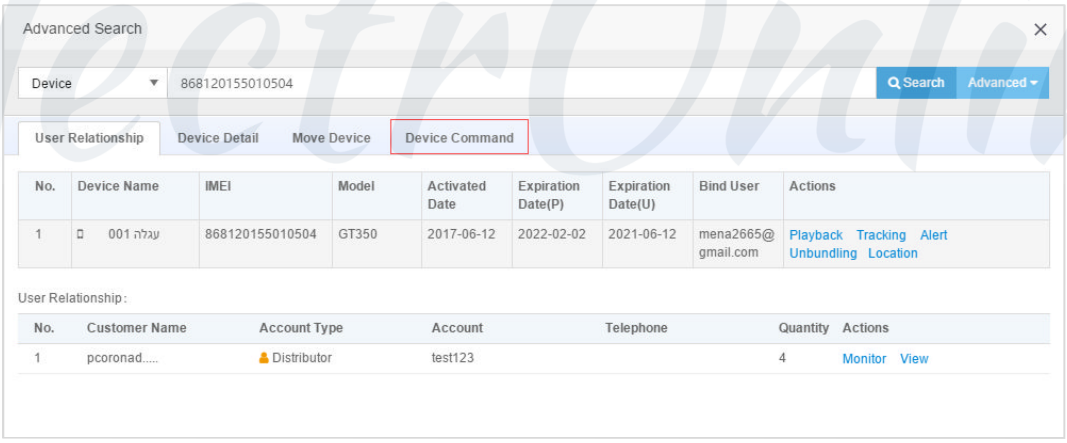
b. Monitor

ElectrOnline





c. Advanced Search



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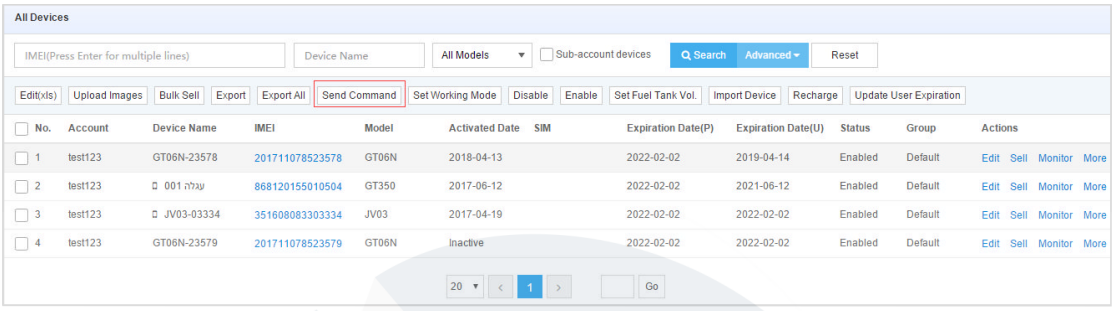
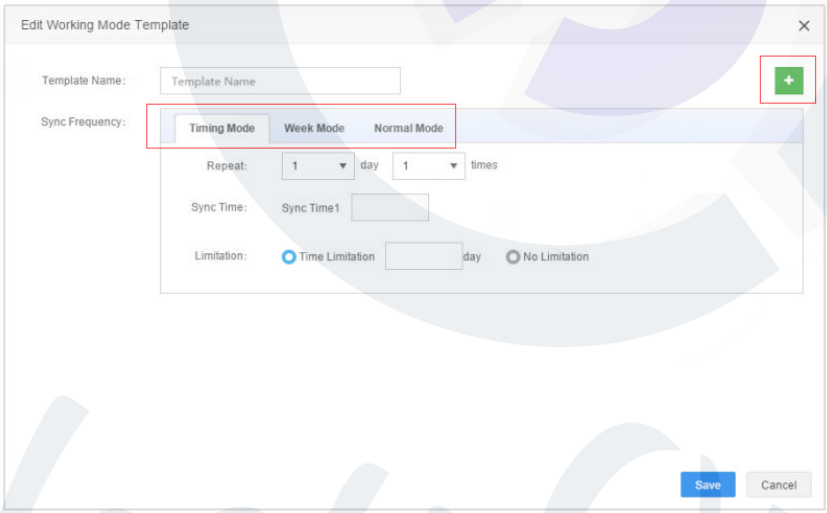
d. Device list, select devices and click *Send Command* button to send command in bulk.



4.4.6.2. Set Working Mode

Set Working Mode is a feature to configure device packet uploading frequency, it can be set by different mode, like Timing Mode, Week Mode or Normal Mode. Event more, the working mode can be set as template and combines multiple frequency settings.



Timing Mode

Device uploading frequency will be set to repeat by *m* day *n* times, for example if m = 1 and n = 12, that is identical to upload GPS packet every 2 hours(12 times for 1 day), some asset tracking device like logistics tracking device might be used to track oversea cargo shipping, the frequency of uploading GPS packet can be set to one or two days for each data packet uploading, this is beneficial to the saving of battery power.

Sync Time1: the start time of this frequency setting.

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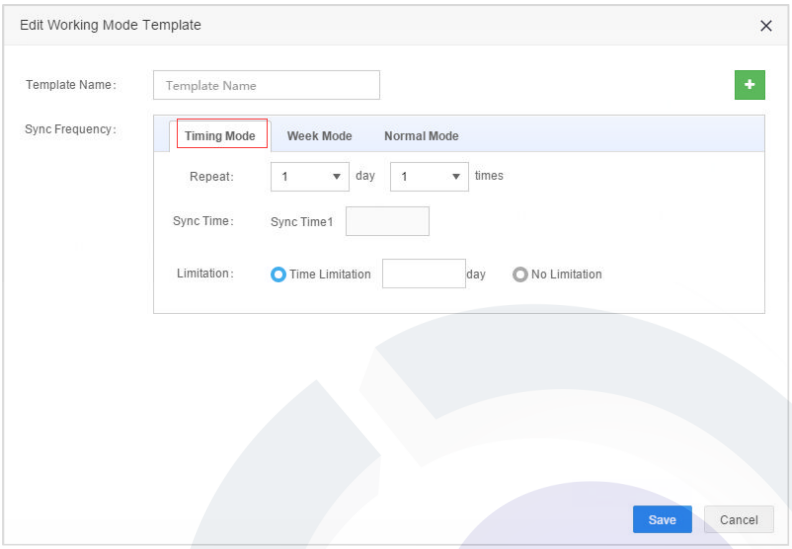
Limitation: how long devices upload GPS packet according to this frequency setting.

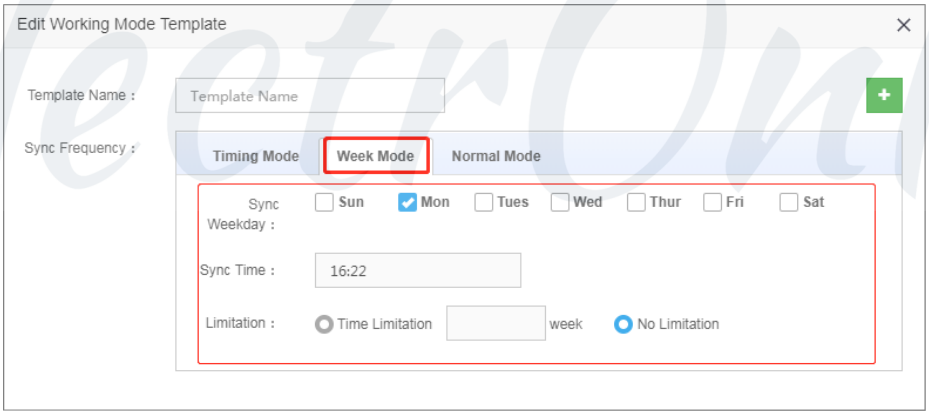


Week Mode

Set device uploading frequency of GPS packet by weekday.

Sync Weekday: the weekday of uploading GPS packet.

Sync Time: the time of weekday to upload GPS packet.



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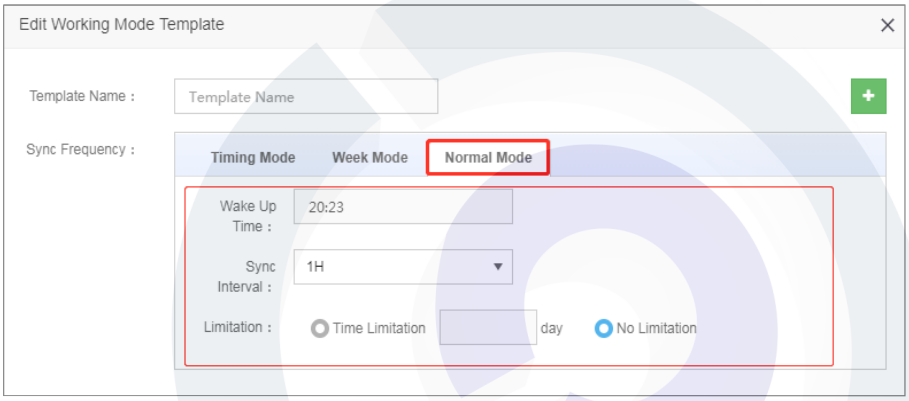
Normal Mode

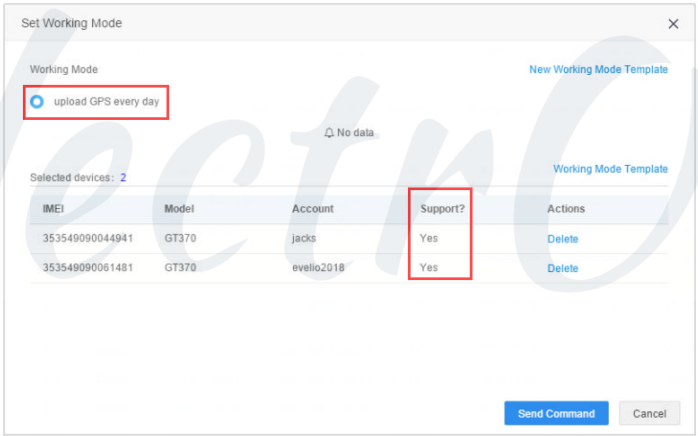
Actually, this mode is same as Timing Mode, can be used to set the frequency of uploading GPS packet by an interval.

Wake Up Time: The first time device upload GPS packet according to this frequency setting.

Sync Interval: the interval of uploading GPS data packet, minimum is one hour, maximum is 15 days.



After working mode template was created, user could select the target devices to send working mode like send command in bulk, the field *Support?* in the datagrid shows whether selected devices support working mode or not.

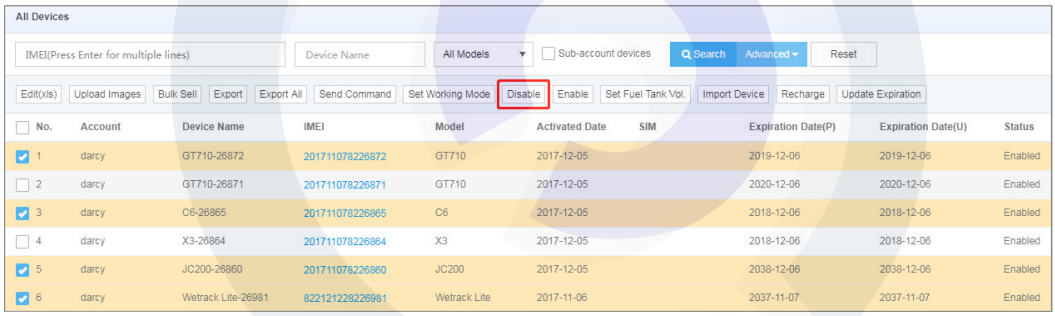


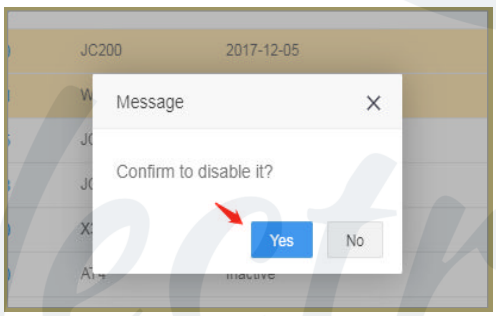
4.4.7. Enable/Disable Device

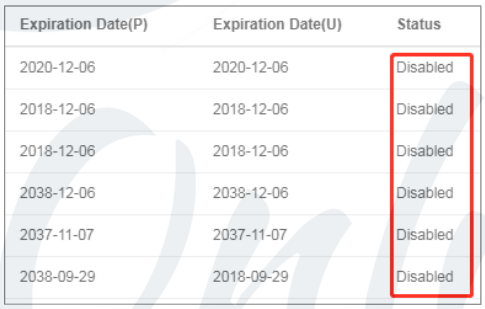
In a few cases, user probably want to disable devices of sub-account for some reason. The disabled device will not able to monitor, track device, or playback tracks until superior account enable it.

- Disable Device

To disable devices, select devices and click *Disable* button, system will ask user to confirm it, Click *Yes* to disable devices, click *No* to cancel current operation. A disabled device will have no other actions for *More* link at the end of each row.

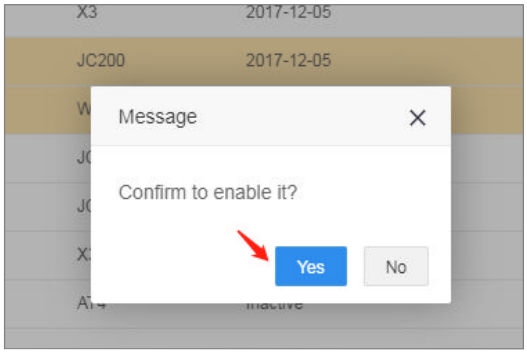






- Enable Device

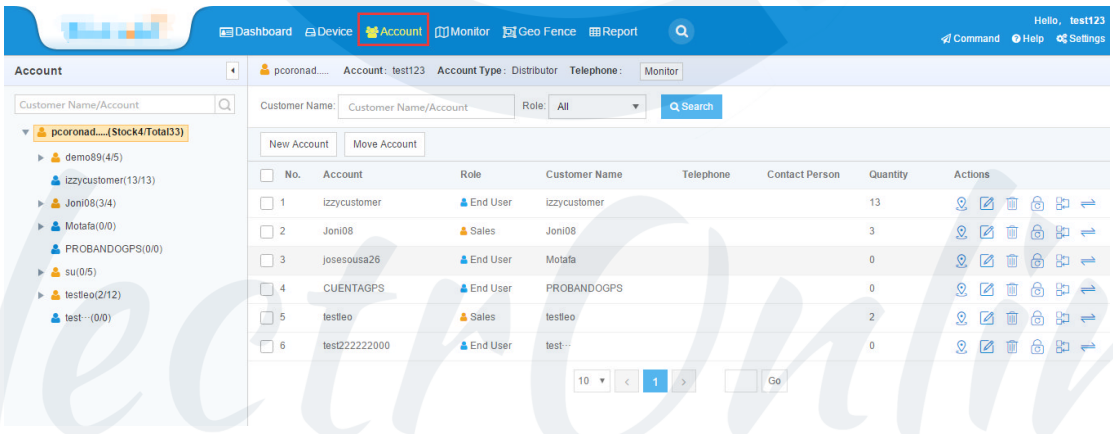
To resume devices which have been disabled, just select devices and click *Enable* button.



Expiration Date(P)	Expiration Date(U)	Status
2020-12-06	2020-12-06	Enabled
2018-12-06	2018-12-06	Enabled
2018-12-06	2018-12-06	Enabled
2038-12-06	2038-12-06	Enabled
2037-11-07	2037-11-07	Enabled
2038-09-29	2018-09-29	Enabled
Inactive	Inactive	Enabled

4.5 Account Management

Since this tracking platform does not provide account registration online, a new account should be created by superior user. Usually, Distributor create sub-account for his customer, lower level Distributor create sub-account for his customer recursively. For example, Distributor A sell tracking devices to B, B is also a Distributor, B sell products to End User C, in this case, A will create account for B, B create account for C.



New Account - Creates a new sub-account, which superior account is the current login account.

Account Search - Search account on the account tree on the left, or search it by role.

Operations	Icon	Description
Tracking		navigate to *Monitor* page, locating to user's current position on

		the Map.
Edit		Edit account information.
Delete		remove account.
Reset Password		reset password for selected sub-account.
Move		move account to another account.
Transfer Recharge Card		Transfer recharge card(for import or renew devices) to the selected account, this is a shortcut for transfer recharge card mentioned in Dashboard.

4.5.1. New Account

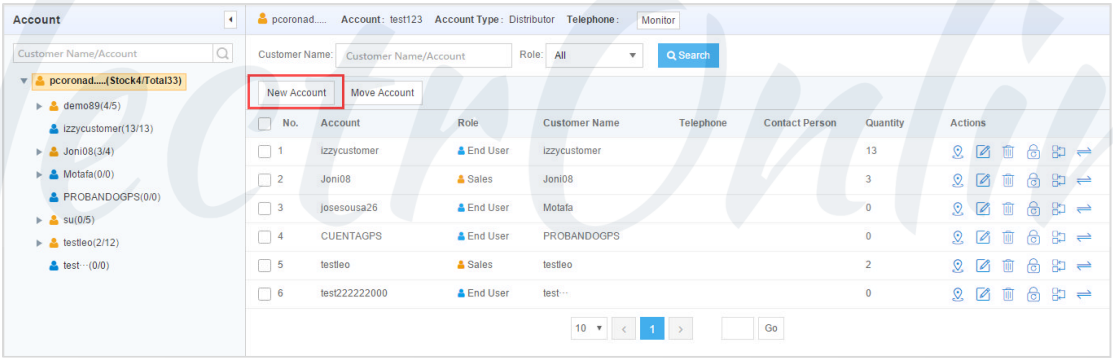
Create a new sub-account for current login account.

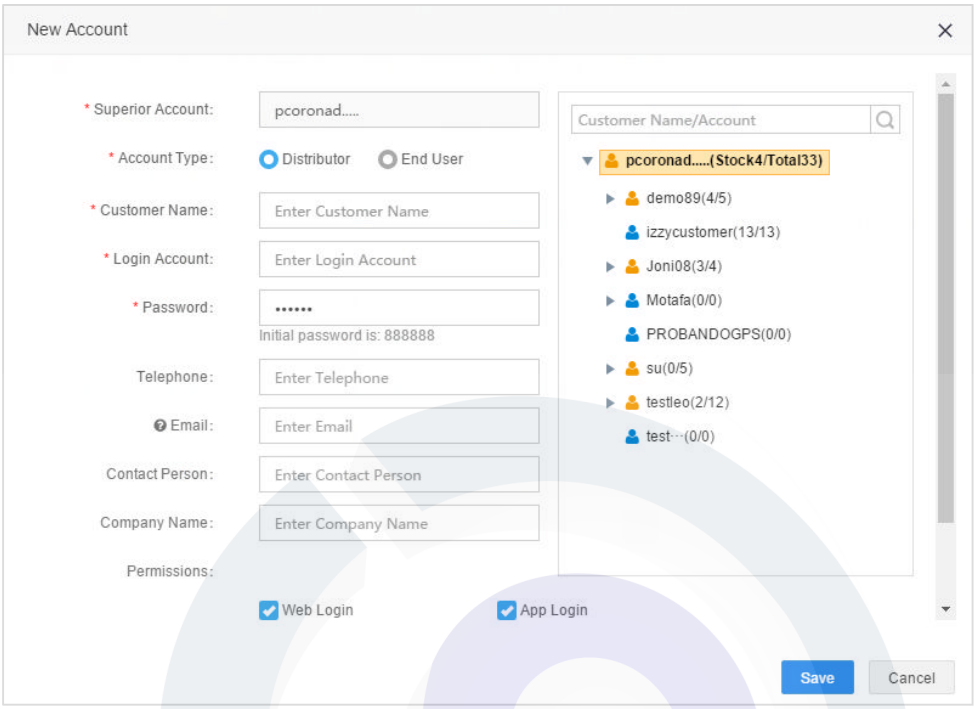
There are three account types in system:

Sales - an account type for sales in this tracking platform, sales account is able to create sub-account like Sales, Distributor and End User.

Distributor - This account type can create Distributor and End User sub-account.

End User - Only able to create End User sub-account.





Superior Account

Default to current login account, user is able to change it at the account tree one the right.

Account Type

Radio options are Sales, Distributor, End User. The radio options will changes according to account type of selected superior account.

Sales - available options are Sales/Distributor/End User

Distributor - available options are Distributor/End User

End User - only End User account type is available.

Customer Name

A string with length of 3-50 characters.

Login Account

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The username you login system, recommend that not contains blank in the middle of string, allow to include some special character like @ and ., that means email address is supported.

Password

For security reason, password not allow less than 6 characters, and must be a combination of letters and numbers. The default password is 888888, if not specify an password, the new created account should change it after first login. On the contrary , system will not ask for change password if provided it while creating account.

Confirm Password

This field should match previous entered password.

Telephone

Phone number.

Email

Email is required, if user want to retrieve password if forgot it. System also will send some notifications like expiration or offline information of device to this email address.

Contact Person

The contact person will be shown as Service Provider in Dashboard of sub-account.

Company Name

Company name of sub-account.

Note that Customer Name, Account Type, Contact Person as well as Telephone of current account and super-account will be displayed in the Dashboard.

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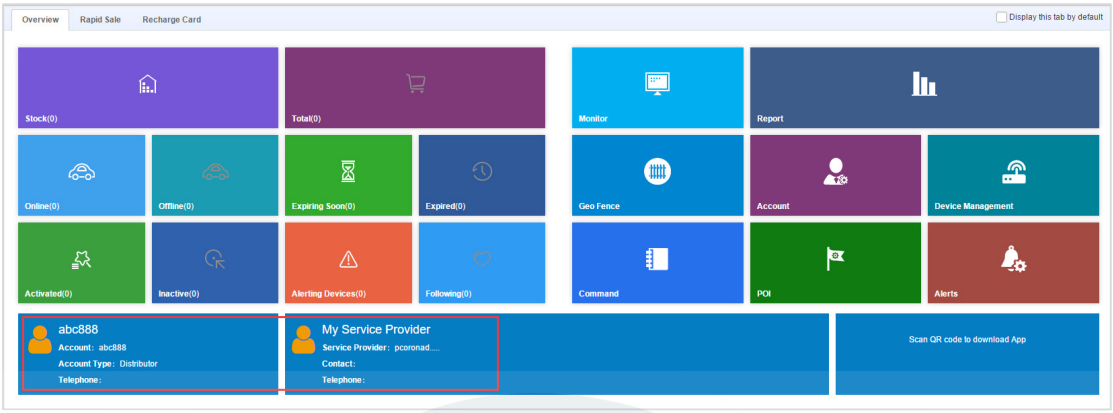


Permissions

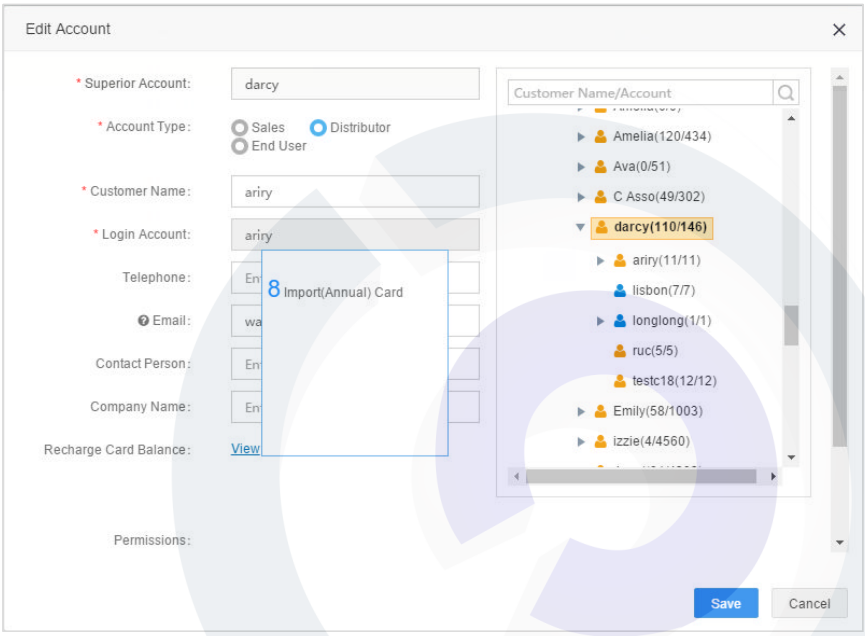
Permissions	Description
Web Login	Created account is able to login platform by Web.
App Login	Created account is able to login from Android or iOS Apps.
Send Command	Created account is allowed to send command to devices.
Set Working Mode	Created account is allowed to set working mode for devices.
Edit by Web	Created account is able to save data in platform.
Edit by App	Created account is able to save data through Android or iOS Apps.

Note

The scope of permissions inherited by sub-account is equal to permissions superior account have, that is, some permissions probably not available for sub-account if his superior account did not have these permissions

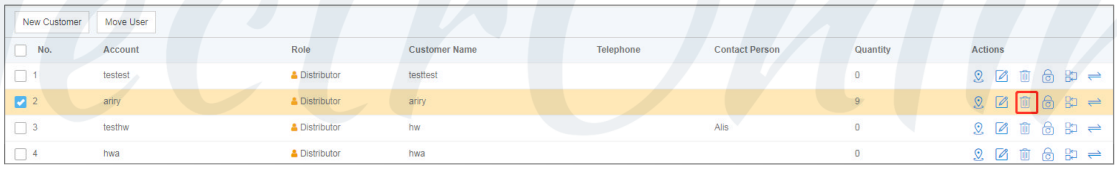
4.5.2. Edit Account

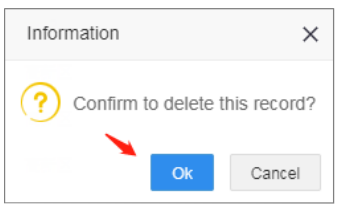
User can change account after created it, Note that Login account is not editable. System also shows an additional, Recharge Card Balance for user to view the balance of recharge card.

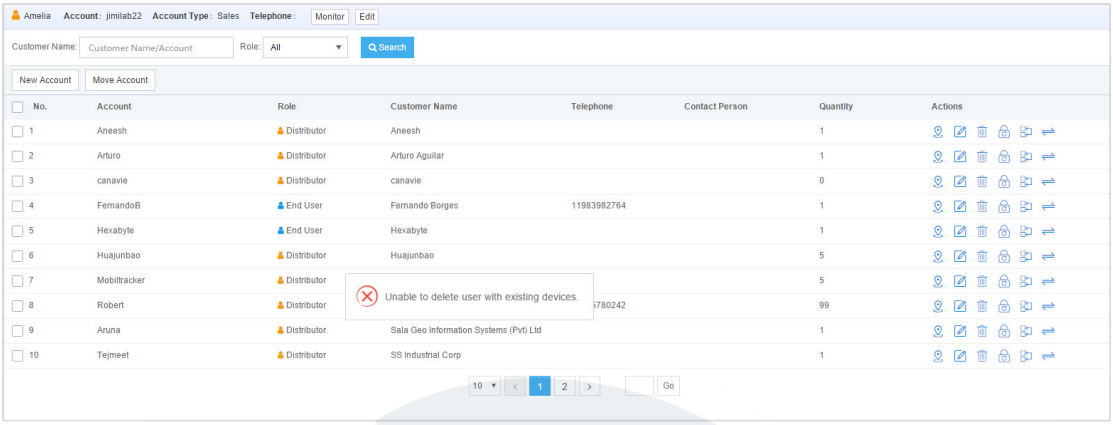


4.5.3. Delete Account

If account have no sub-account or tracking device, it can be removed, otherwise, it's not allow to remove. System will ask user for double check this operation before delete it.

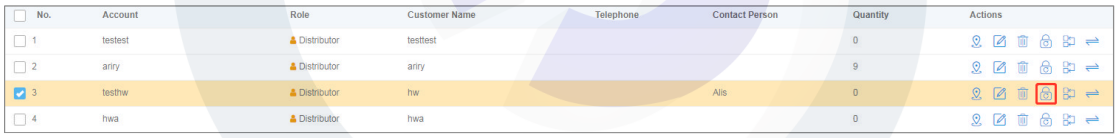


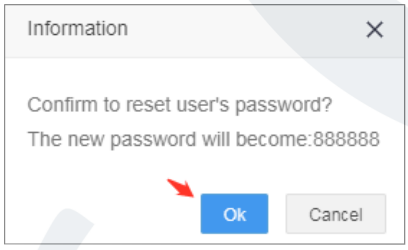




4.5.4. Reset Password

User is able to reset password for sub-account if he/she forget password. The default password is 888888, sub-account should change the default password after login system.

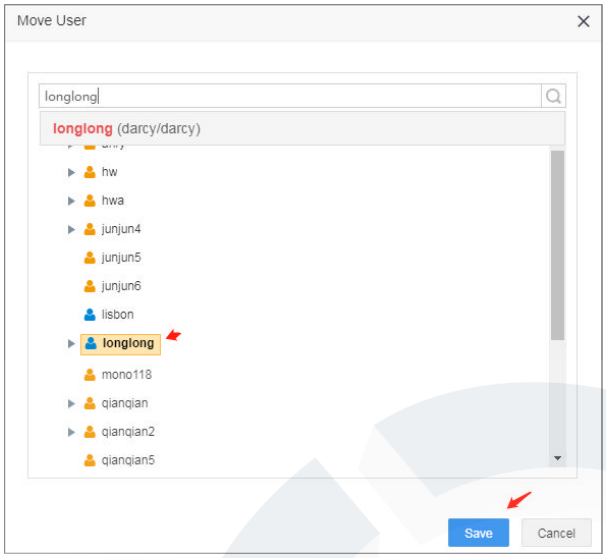




4.5.5. Move Account

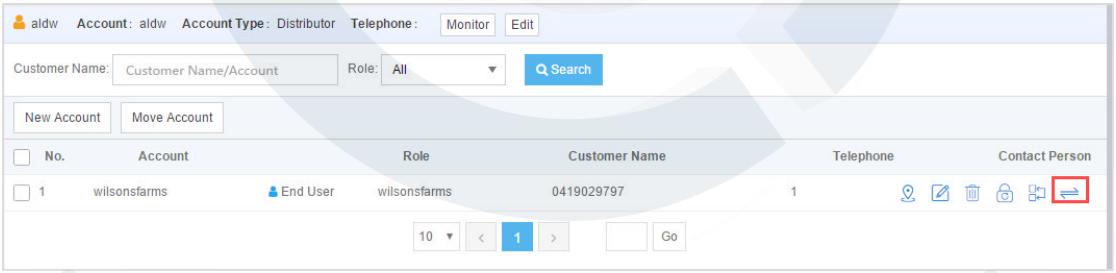
Move account help user to reorganize accounts when business relationship changed. Note that after account moved the devices account associated, account permissions, as well as the quantity of recharge cards will not be changed.

Click the move user icon and select target account, then click *Save* button to finish this operation.

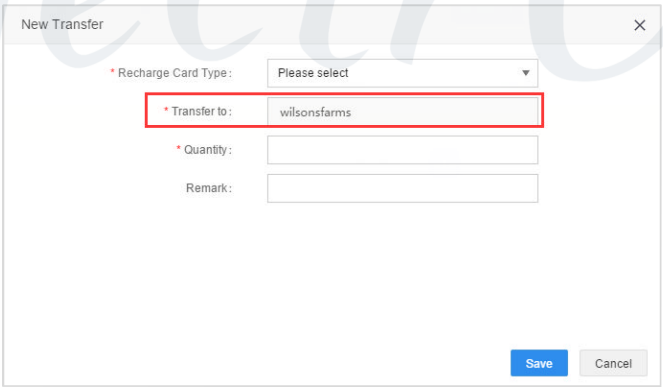


4.5.6. Transfer Recharge Card

Transfer Recharge Card in *Account* page is a shortcut for transfer recharge card to selected account. See Recharge Card in previous section for more details.



The target account is auto filled and not editable.



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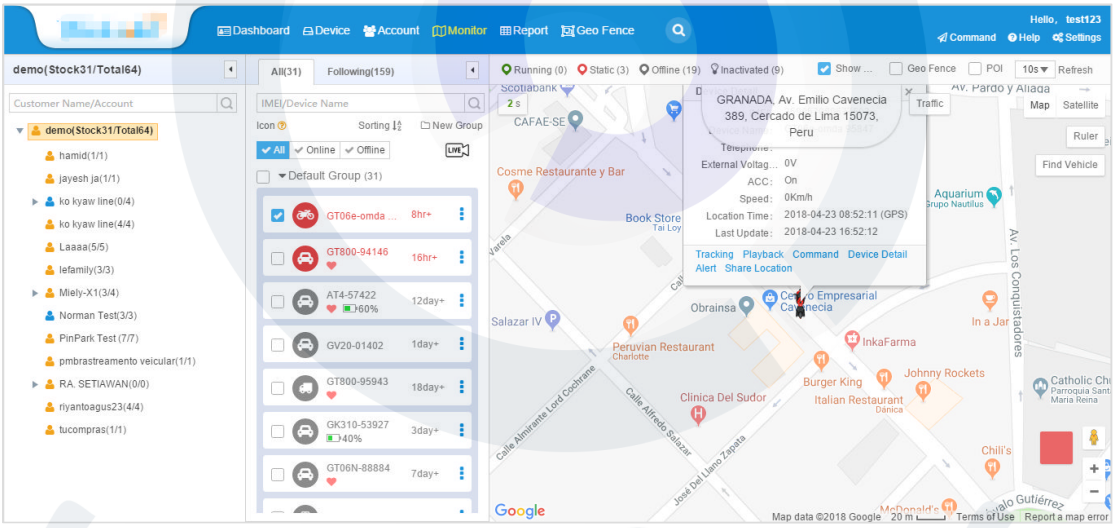
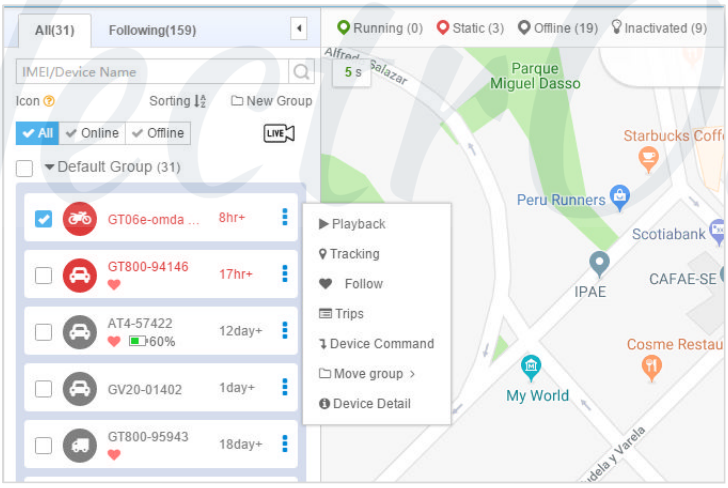
4.6 Monitor

Monitor help user to locate devices quickly and view the status, position on the Map. User can select one or several devices to show target on the Map at the same time, and chose a device to tracking or playback tracks in a new browser window.

Platform provide various fast way to locate devices, find the devices from the account tree on the left, or directly input the IMEI on the keyword field. In addition, tracking devices can be organized by group or followed as favorite.





Account Tree

The account tree in *Monitor* page is same as other page, user can search account fast by provide a searching keyword.

Device List

The middle section is the device list, which is divided into two groups, All and Following. *All* shows all devices of account selected on the left account tree. *Following* lists devices of current user followed.

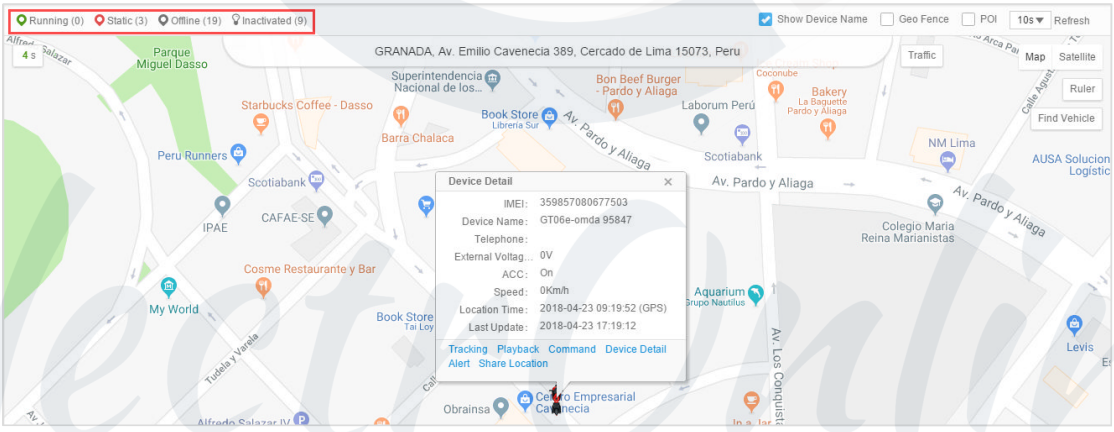
There are 4 status for tracking device:

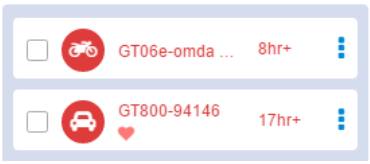
Moving - device is in moving state, display in Green color.

Static - device is not running and speed is 0 or ACC is off but still have heart beat data packet uploaded to server, shows in Red color.

Offline - no heart beat data packet uploaded to server, displays in Gray color.

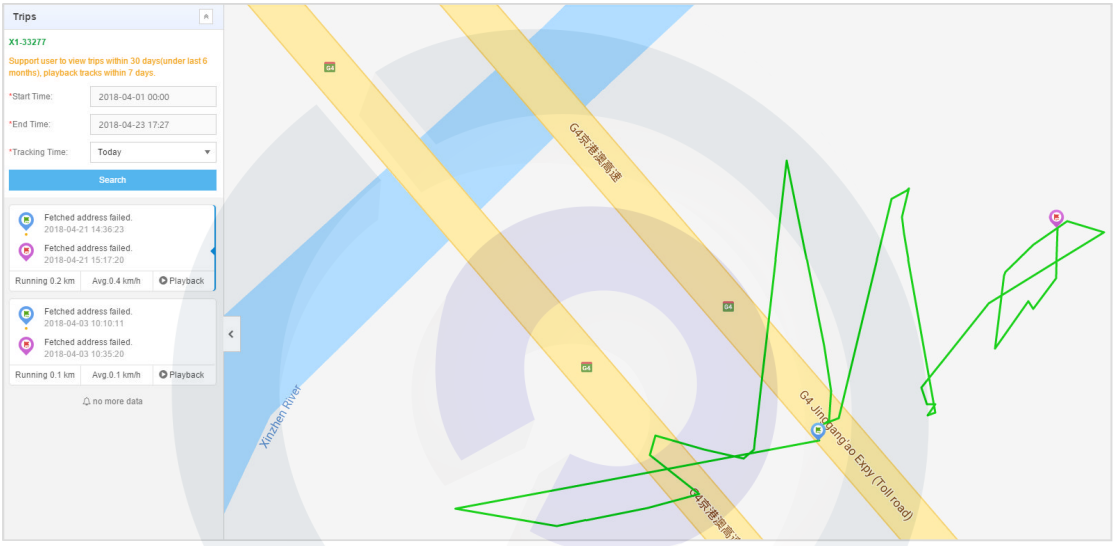
Inactive - not active, not ever upload GPS data packet to server, displays in Gray color.

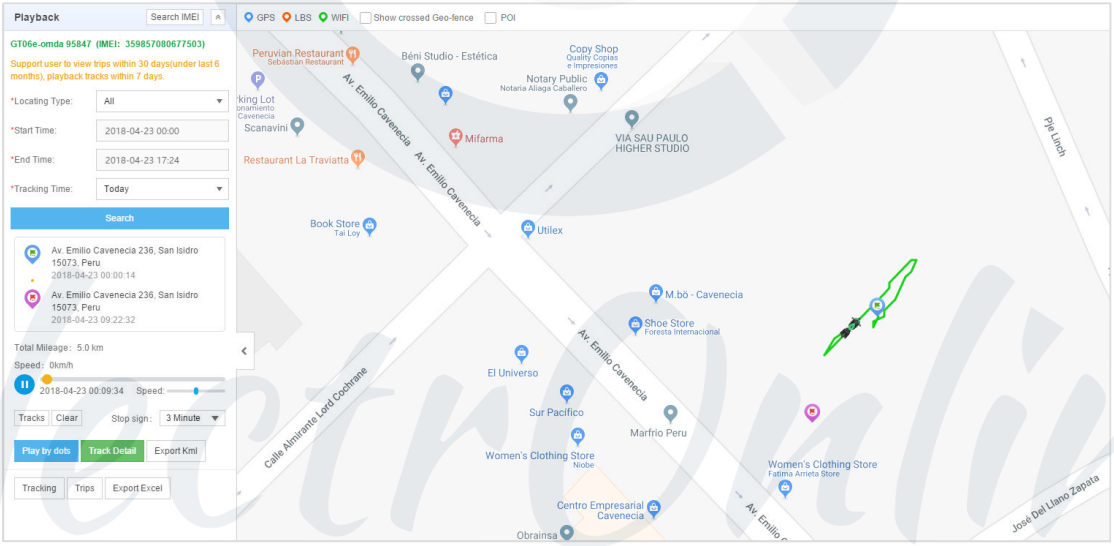




Trips & Playback

A tracking device might have several trips within a period of time. Each trip can be playback on the Map. Playback is an operation to show current trip of tracking device with an animation from start point to end point according to the tracks. The coordinates of track can also be exported as KML. Both trips and playback support to search by time.





Tracking

Tacking is used to monitor moving device real-time on the Map. System shows the tracks of start point to current point which device passed by.

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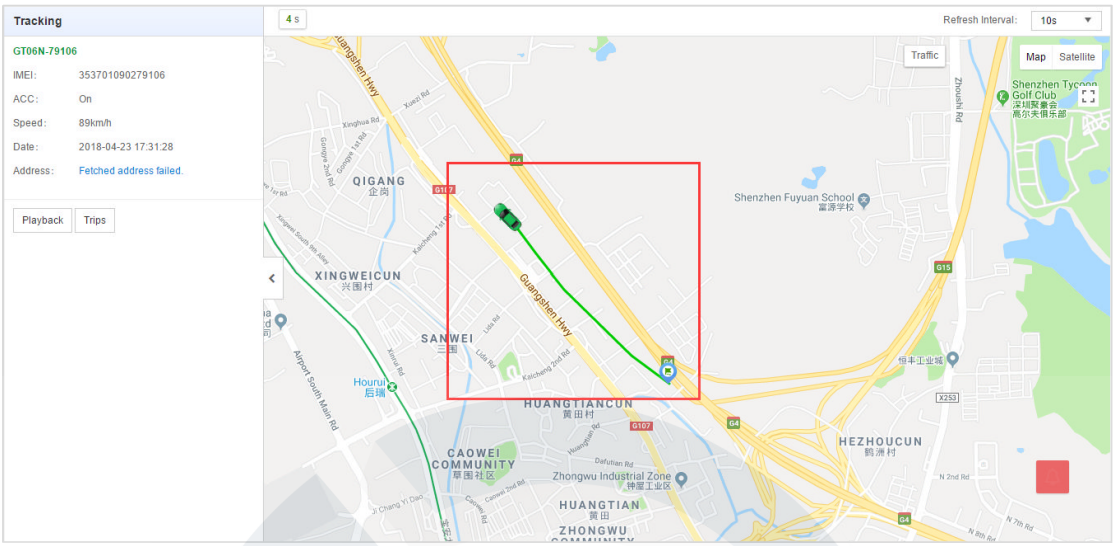
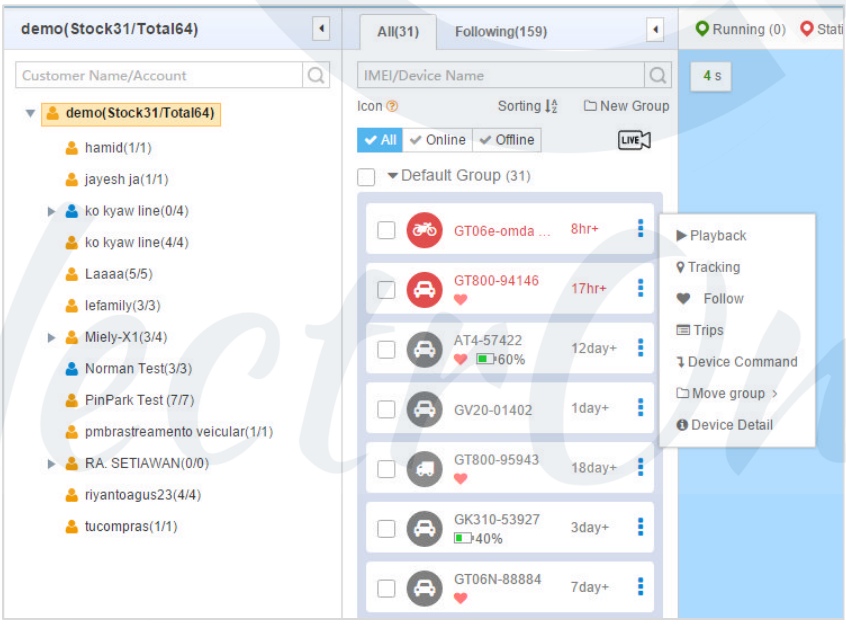
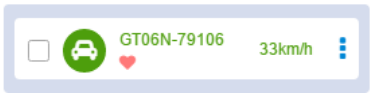


4.6.1. Device List

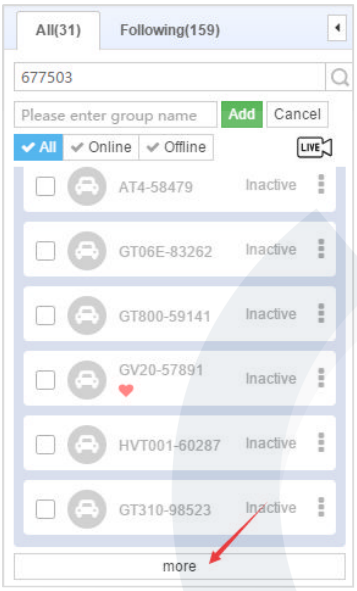
Device list in *Monitor* page shows the devices of selected account on the left account tree(not include devices from sub-account). Devices are grouped and can be filtered by different status. User can check devices on the list to show it on the Map, each device support operation like playback, tracking and so on, the icon color indicates the status of device, some additional information like battery might also be shown. If device is in moving state, speed will also be displayed, if status is static or offline, the time length will be shown.





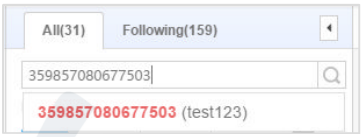
More Records

System retrieves 200 devices initially, user can get other devices by clicking more button. Devices in *Online*/*Offline* tab are calculated base on the results of devices in *All* tab, if some devices are miss, you can click more button to loaded it.



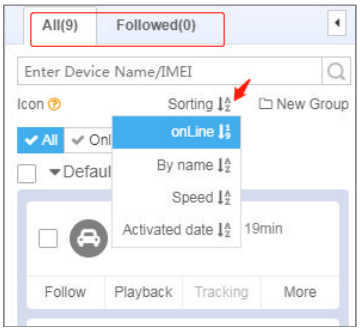
IMEI Searching

Provide an IMEI(full length of IMEI or last 6 digital) and click search button, system shows the matching result in drop-down list.



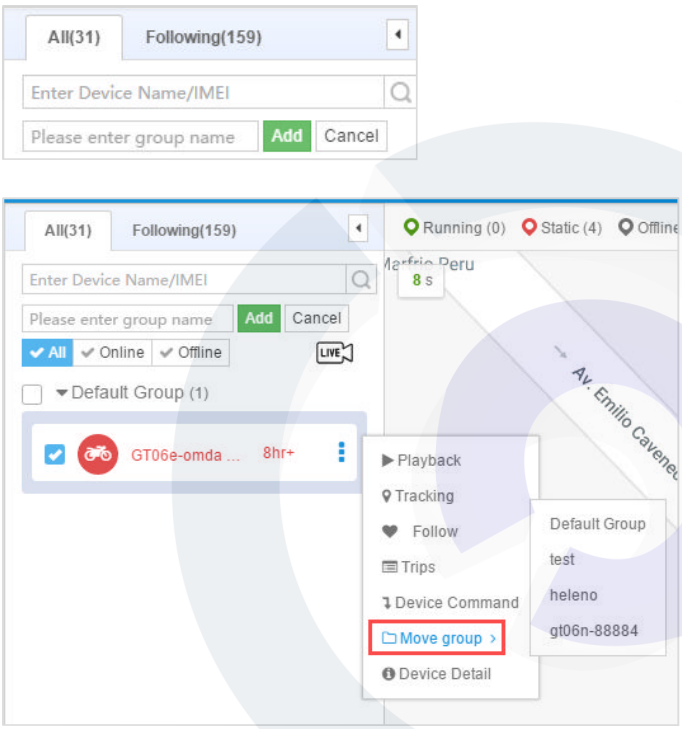
Sorting Devices

Sorting devices by different field.

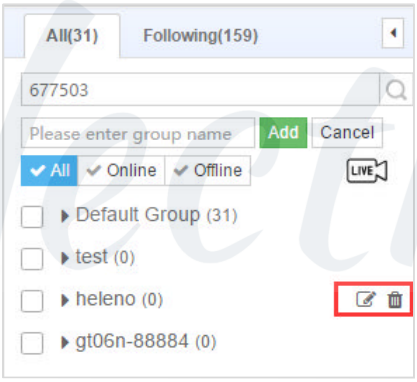


Create/Move/Edit/Delete Group

Add group for devices, the group name will also be displayed in devices list of *Device* page. Move group by clicking the menu item of each device in the list and select a target group.

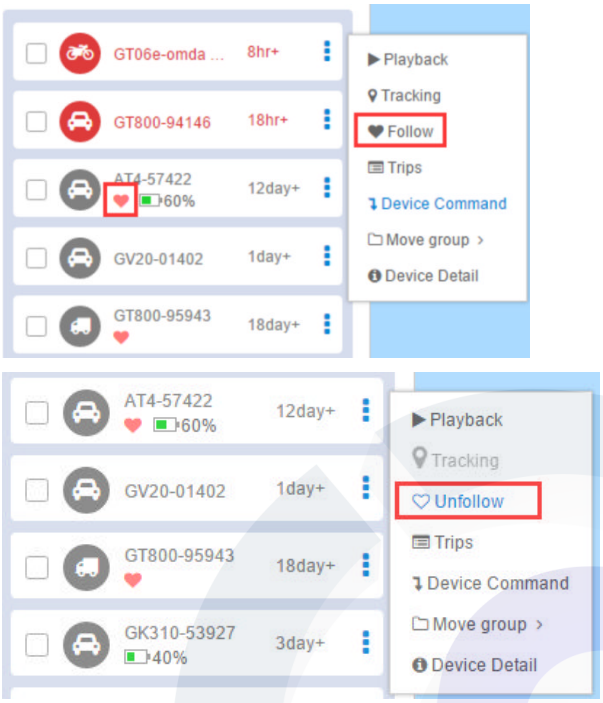


Edit and delete group.



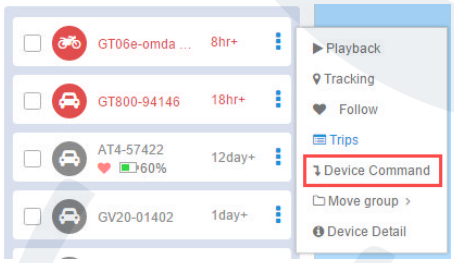
Follow/Unfollow Device

A followed device shows a heart icon on the list, unfllow it the icon disappears.



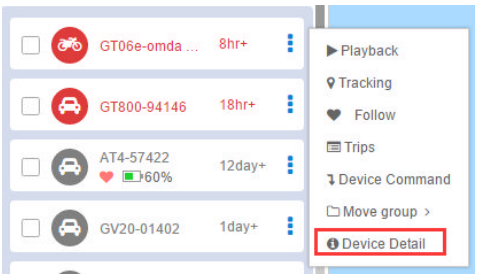
Device Command

A pop up menu item to send command individuality like *Command* in *Device* page. Refer to Send Command for more details.



Device Detail

Pop up a window to show device detail like *Edit* device in *Device* page. See Edit for more details.



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4.6.2. Map

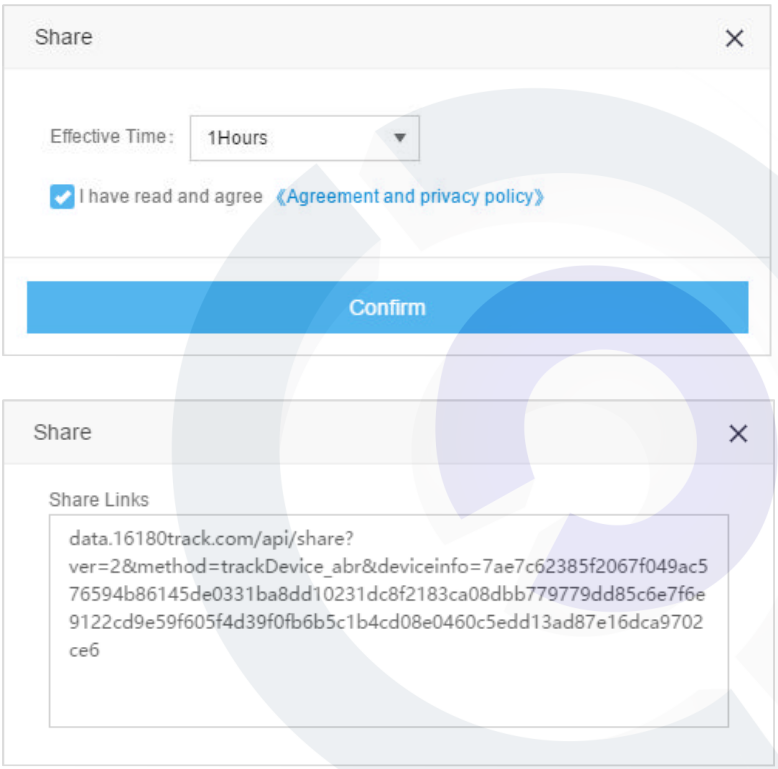
Map Popover

Map popover shows some critical information for devices or target.

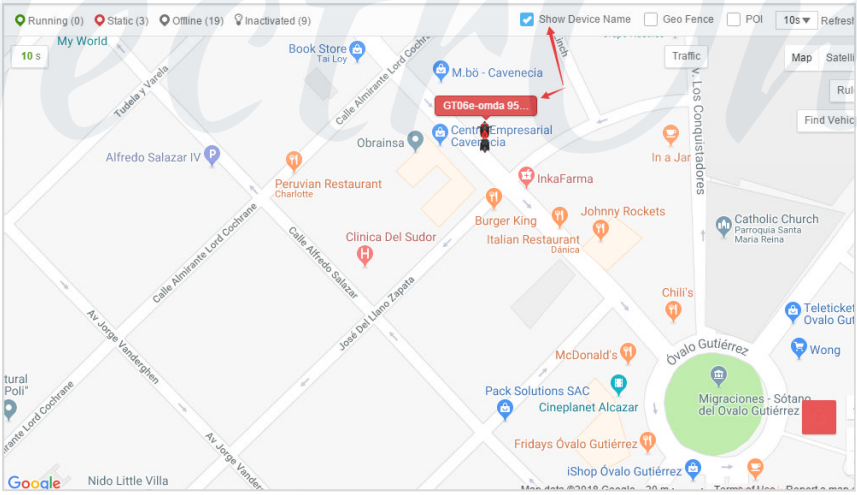
Field	Description
IMEI	Unique number of tracking device.
Device Name	Device name of tracking device.
Telephone	Driver's phone number.
External Voltage	Voltage of target like a Motorcycle.
Battery	Battery of tracking device.
Door	Door status which detected by tracking device.
Fuel	Fuel information for the target like a car.
ACC	Engine status of target
Speed	Speed of tracking device.
Location Time	The time of last uploaded GPS data packet.

Last Update	The time of last uploaded Heartbeat data packet.

Share Location



Show Device Name



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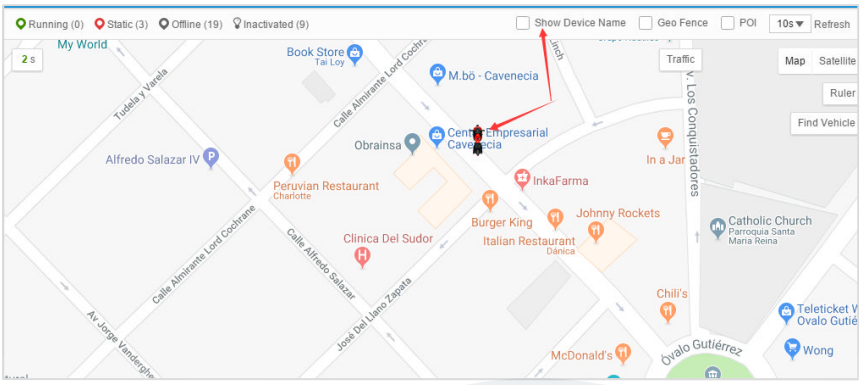
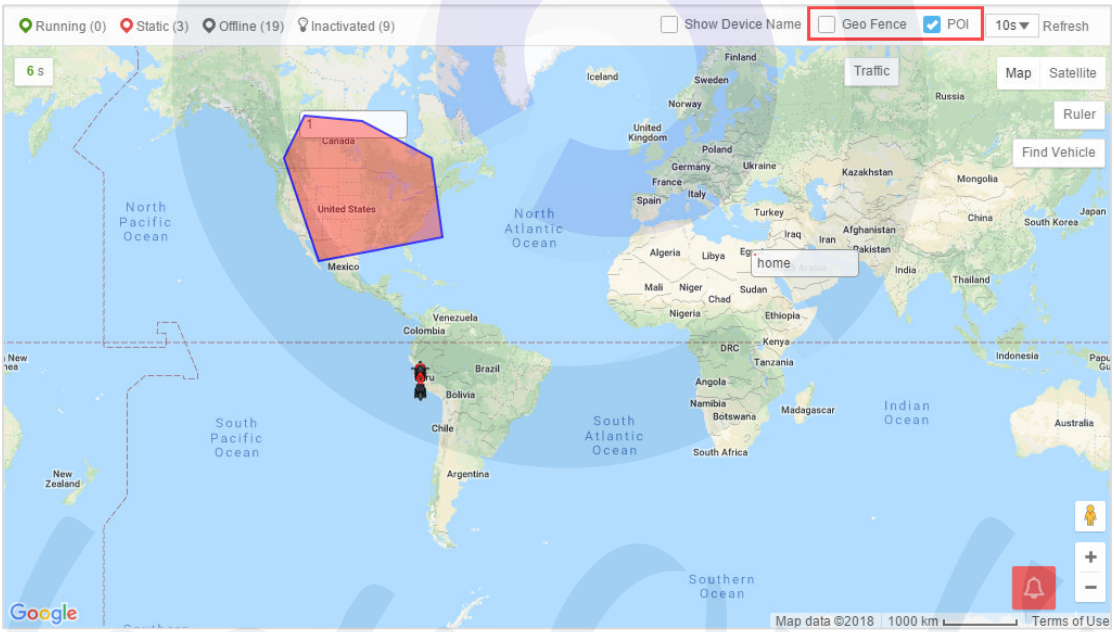
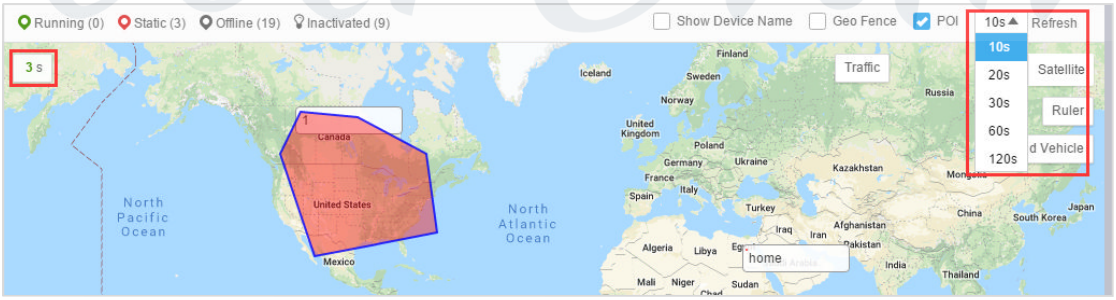


Show Geo Fence/POI

Check Geo Fence/POI to show the Corresponding area marked in *Geo Fence* page.



Refresh Interval



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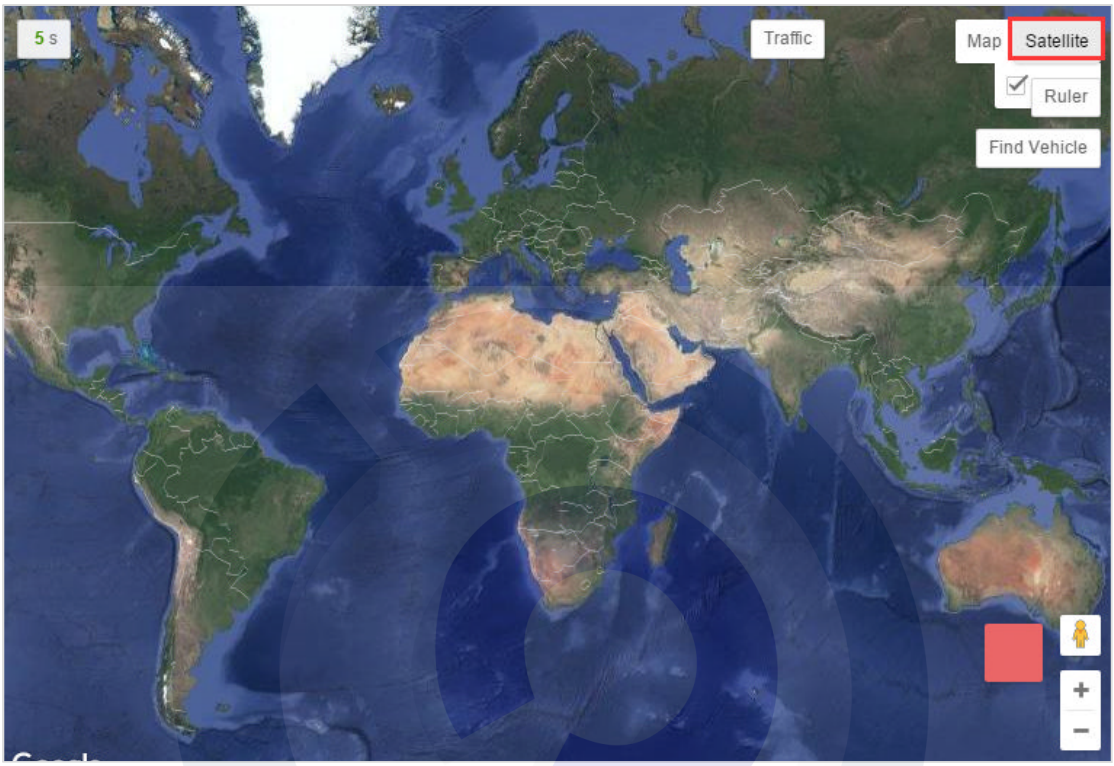
Map/Satellite



Ruler

Click Ruler to measure distance between two points on the map.

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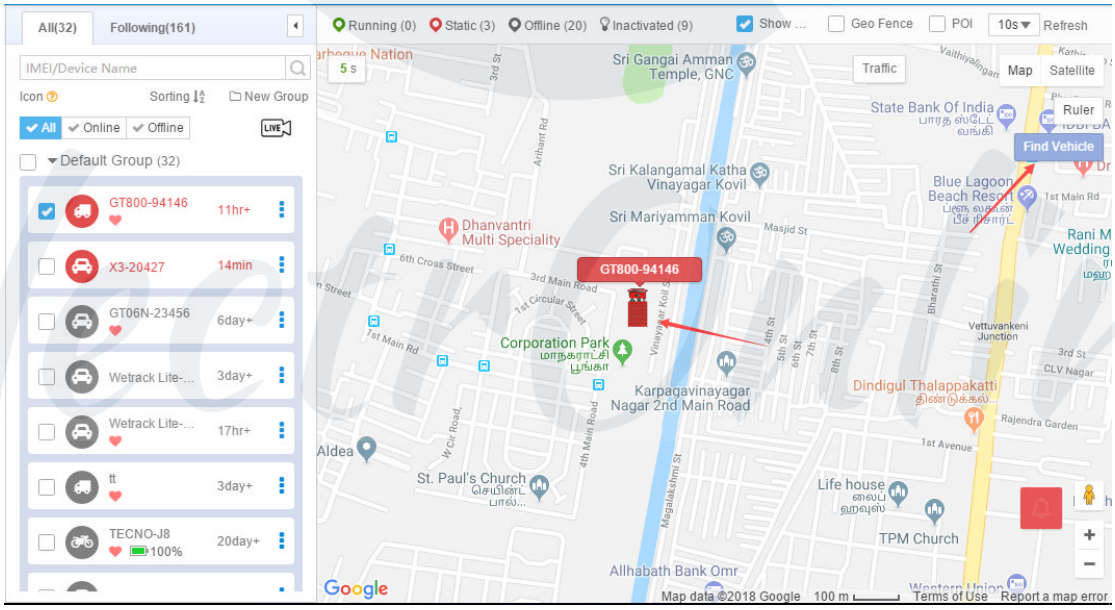
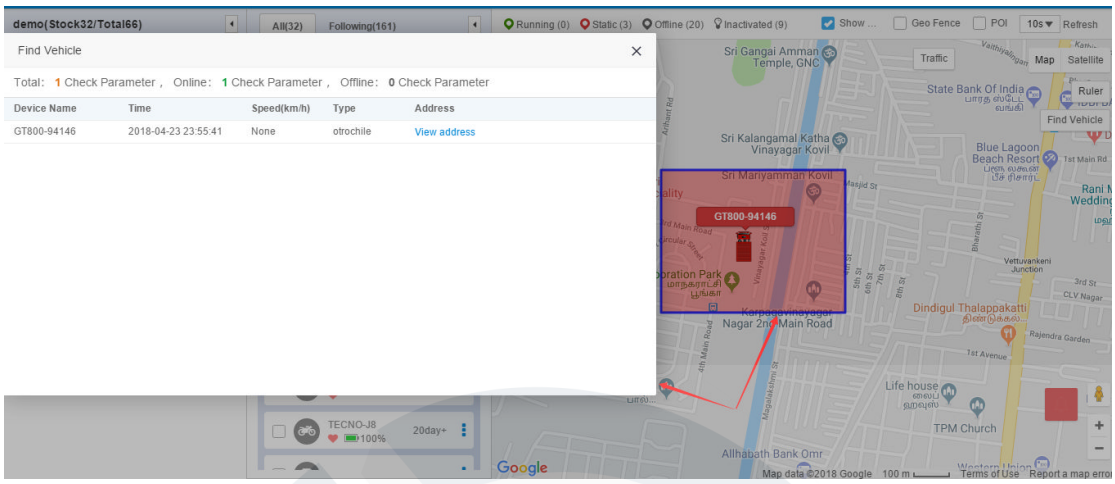
Find Vehicle

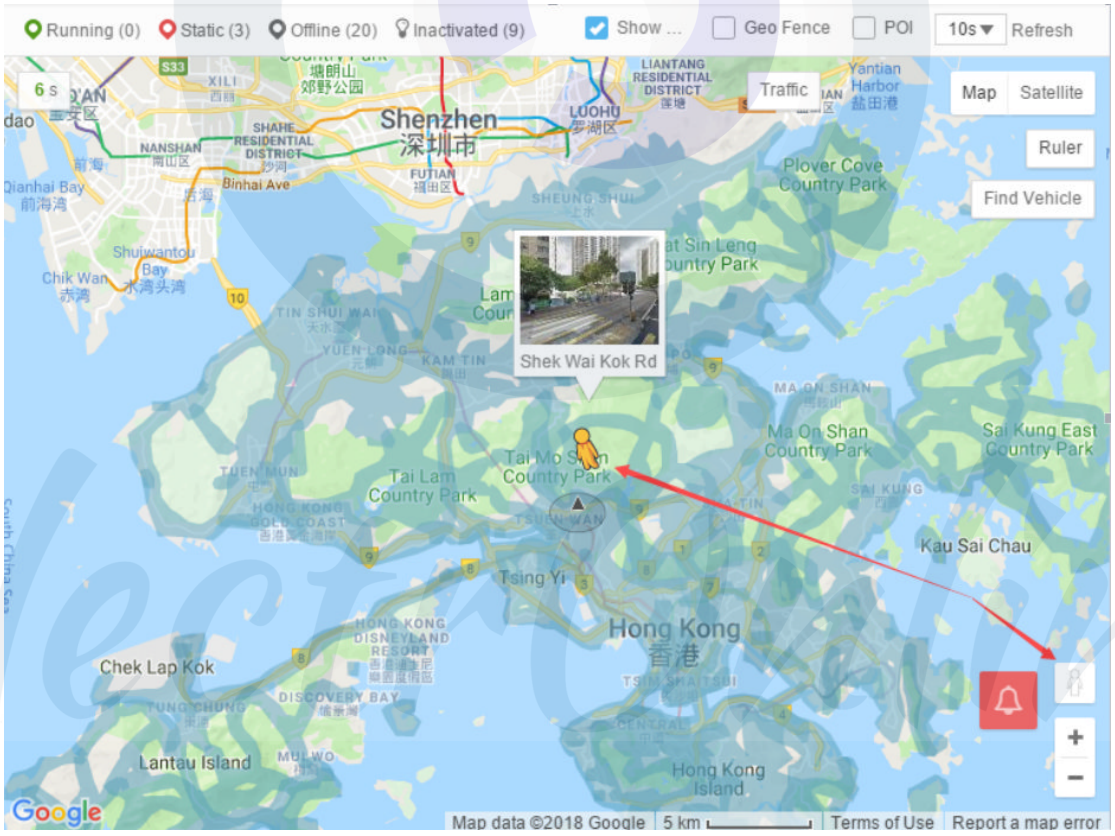
Draw an area to find vehicles.





Google Street

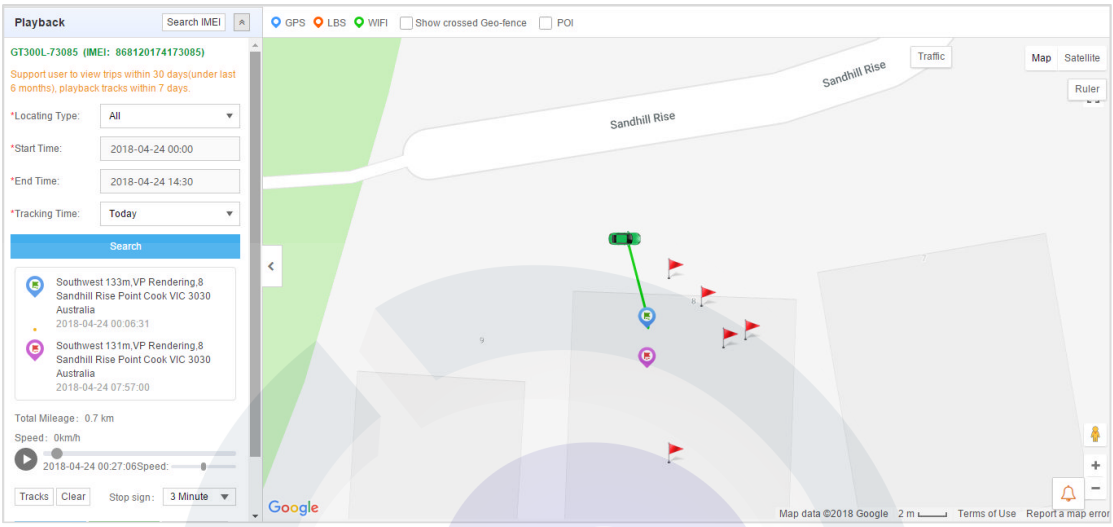
Drag icon to view Google Street.

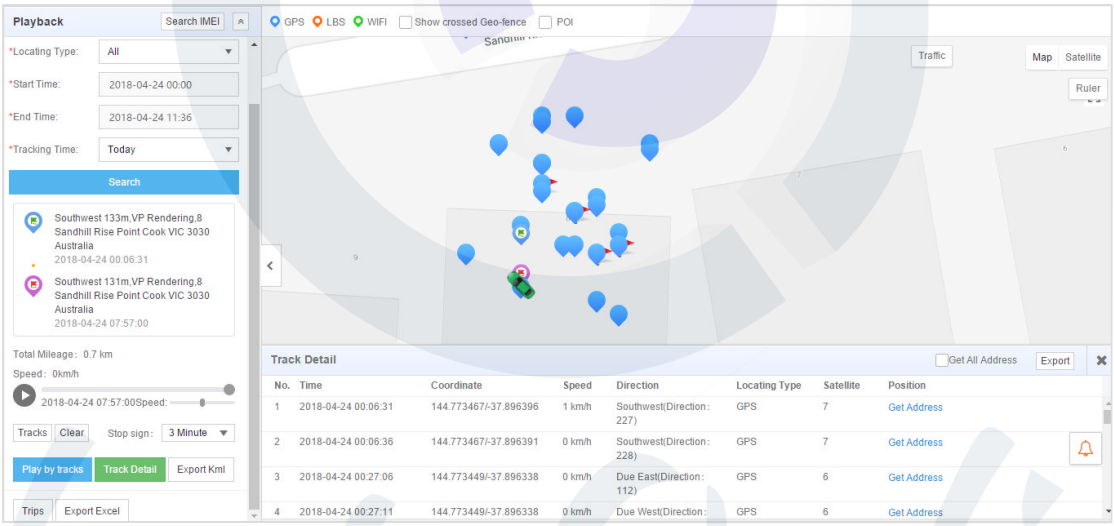


4.6.3. Playback

User is able to playback tracks of tracking device for a specified time range(maximum 7 days). Generally, system show the playback by tracks, however, for some model of device, it can be switch to dot. playback speed is adjustable, *Track Detail* shows the detail information of all

coordinate on a bottom datagrid, and can be exported by Excel. A KML format file is also available for download.





Playback Searching

The time length of tracks for playback can not large than 7 days under last 6 months, user select locating type and time range to find the tracks going to play. There are 3 Locating Type: GPS, LBS, WIFI, all of them will be retrieved by default. *Tracking Time* is a shortcut to select time range, if time range large than 7 days, *Search* button will be disabled. The matching tracks show as address of start point and end point below the *Search* button.

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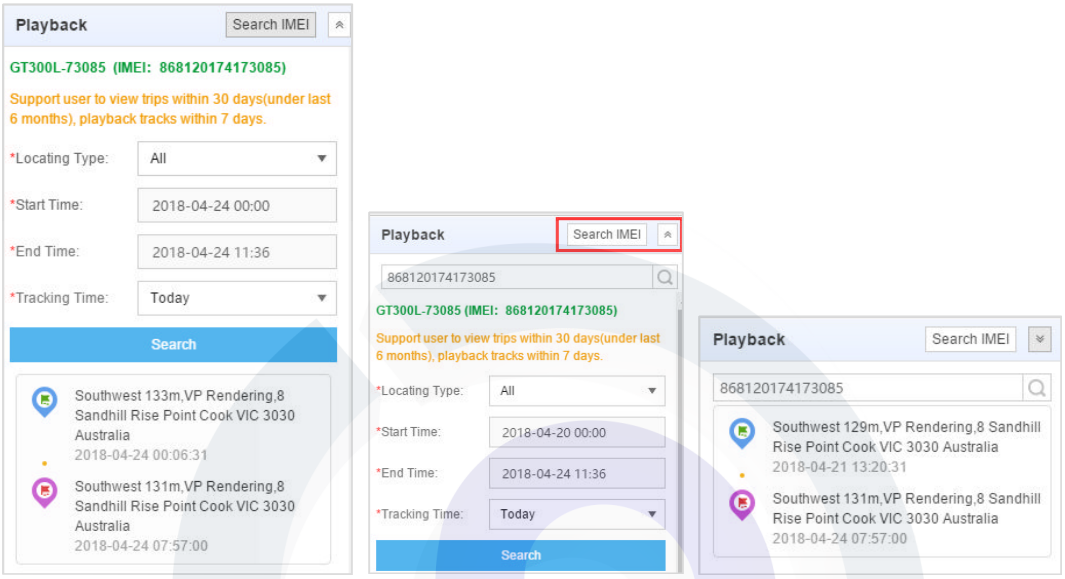
Search IMEI support user to change to another tracking device by input a IMEI.

Collapse/Expand button is for display/hide the searching criteria.



View Tracks

Usually, tracks are display as line path on the map, a few mode of device support playback by dots, system displays an addition button *Play by dots*, click it change to dots playback, click again return to line tracks playback. *Tracks* button toggle showing tracks on the map.

Track Detail shows information for all matching coordinates, including fields like Locating Time, Coordinate, Speed, Direction, Locating Type, Satellite(Quantity), Position. Click *Get Address* to parse address base on the coordinate. Check *Get All Address* checkbox to parse all address on the datagrid.

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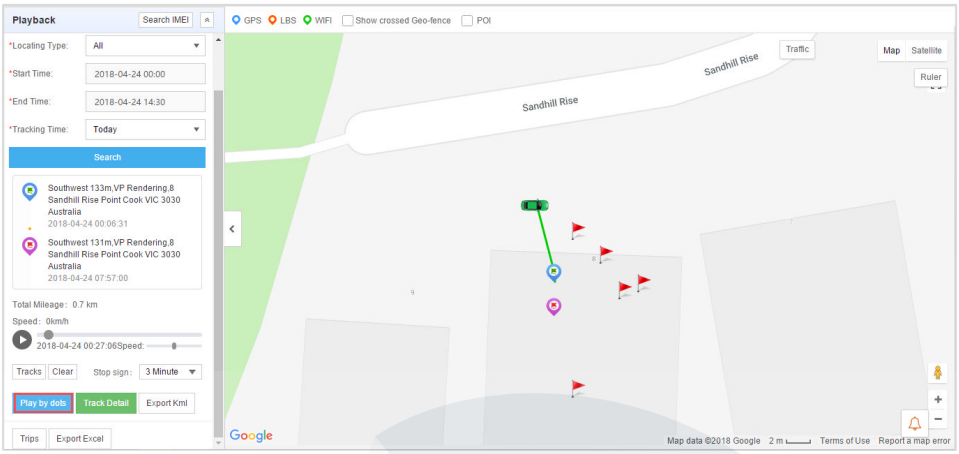
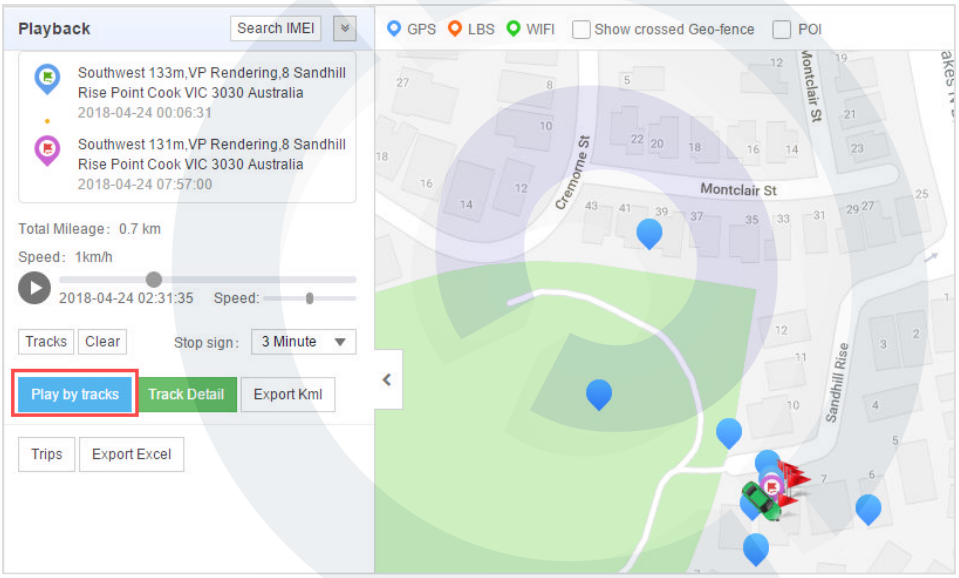
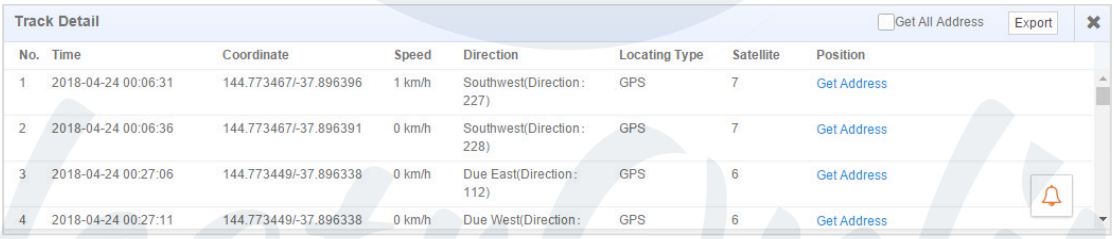


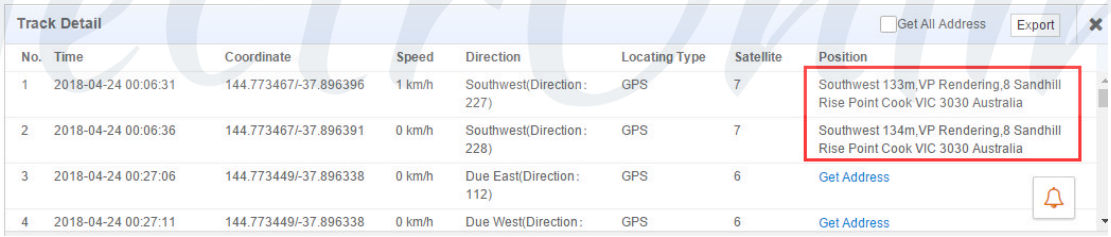




Track Detail

Get All Address | Export

No.	Time	Coordinate	Speed	Direction	Locating Type	Satellite	Position
1	2018-04-24 00:06:31	144.773467/-37.896396	1 km/h	Southwest(Direction: 227)	GPS	7	Get Address
2	2018-04-24 00:06:36	144.773467/-37.896391	0 km/h	Southwest(Direction: 228)	GPS	7	Get Address
3	2018-04-24 00:27:06	144.773449/-37.896338	0 km/h	Due East(Direction: 112)	GPS	6	Get Address
4	2018-04-24 00:27:11	144.773449/-37.896338	0 km/h	Due West(Direction:	GPS	6	Get Address



Track Detail

Get All Address | Export

No.	Time	Coordinate	Speed	Direction	Locating Type	Satellite	Position
1	2018-04-24 00:06:31	144.773467/-37.896396	1 km/h	Southwest(Direction: 227)	GPS	7	Southwest 133m,VP Rendering,8 Sandhill Rise Point Cook VIC 3030 Australia
2	2018-04-24 00:06:36	144.773467/-37.896391	0 km/h	Southwest(Direction: 228)	GPS	7	Southwest 134m,VP Rendering,8 Sandhill Rise Point Cook VIC 3030 Australia
3	2018-04-24 00:27:06	144.773449/-37.896338	0 km/h	Due East(Direction: 112)	GPS	6	Get Address
4	2018-04-24 00:27:11	144.773449/-37.896338	0 km/h	Due West(Direction:	GPS	6	Get Address

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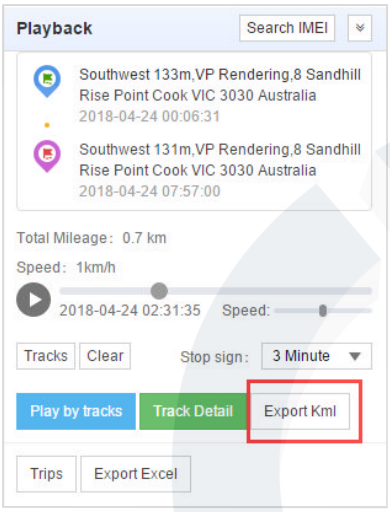
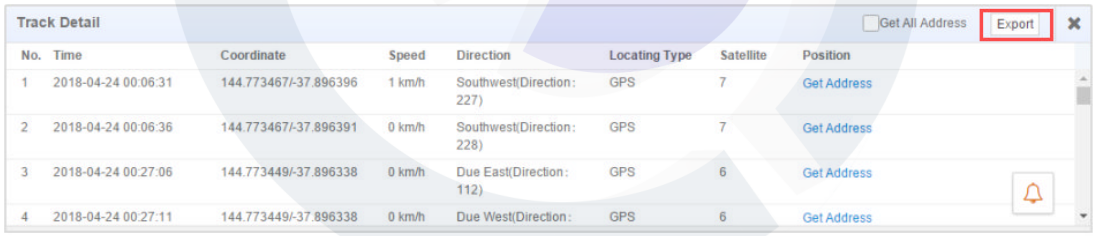
Export Excel/Export/Export KML

Export Excel and *Export* button in *Track Detail* are function to export all coordinates which matched the searching criteria to an Excel.

KML is a XML format contains coordinates, click *Export Kml* to download Kml format file.

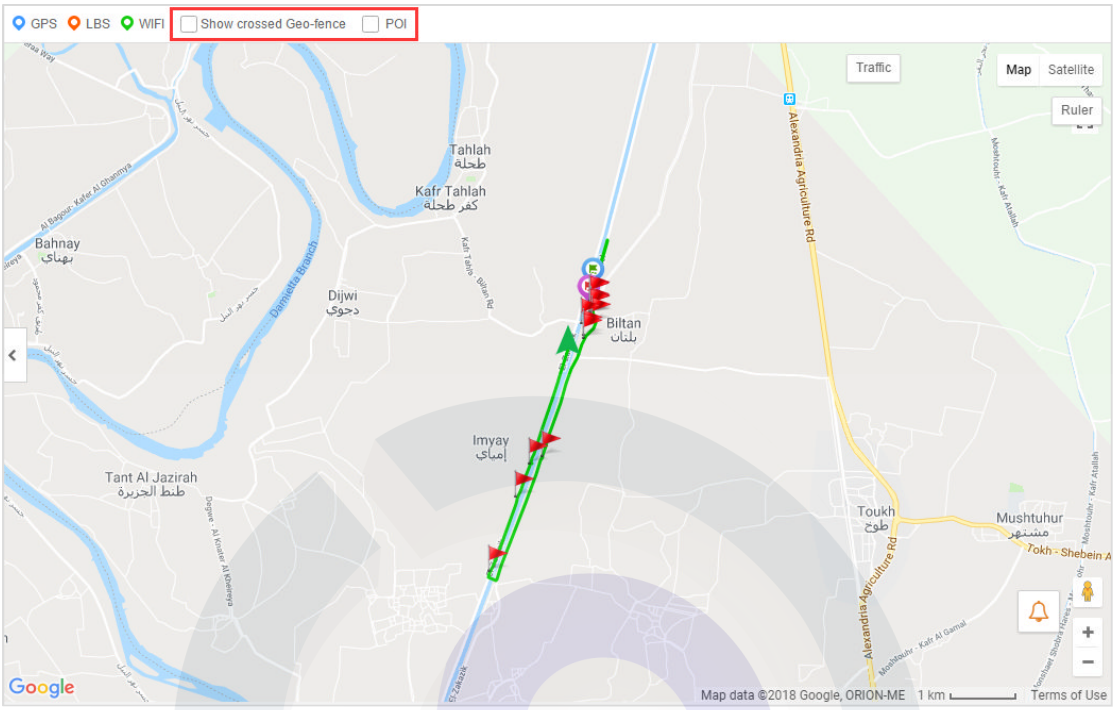




	A	B	C	D	E	F
1	Device Name:Wetrack Lite-26981 From:2018-04-09 00:00:00 To:2018-04-09 16:46:59					
2	No.	Time	Longitude/Latitude	peed(Km/h	Direction(Degree	Location Type
3	1	2018-04-09 14:09:21	117.918333/39.213109	80	332	satellite positioning
4	2	2018-04-09 14:09:23	114.831234/25.480091	80	332	satellite positioning
5	3	2018-04-09 14:09:23	110.282017/26.181086	80	332	satellite positioning
6	4	2018-04-09 14:09:33	117.585663/27.727515	80	332	satellite positioning
7	5	2018-04-09 14:09:43	111.649195/20.963827	80	332	satellite positioning
8	6	2018-04-09 14:09:54	116.729604/24.678907	30	332	satellite positioning
9	7	2018-04-09 14:09:55	118.338207/27.826379	30	332	satellite positioning
10	8	2018-04-09 14:10:03	111.818055/22.005177	30	332	satellite positioning
11	9	2018-04-09 14:10:13	118.060012/21.95965	30	332	satellite positioning

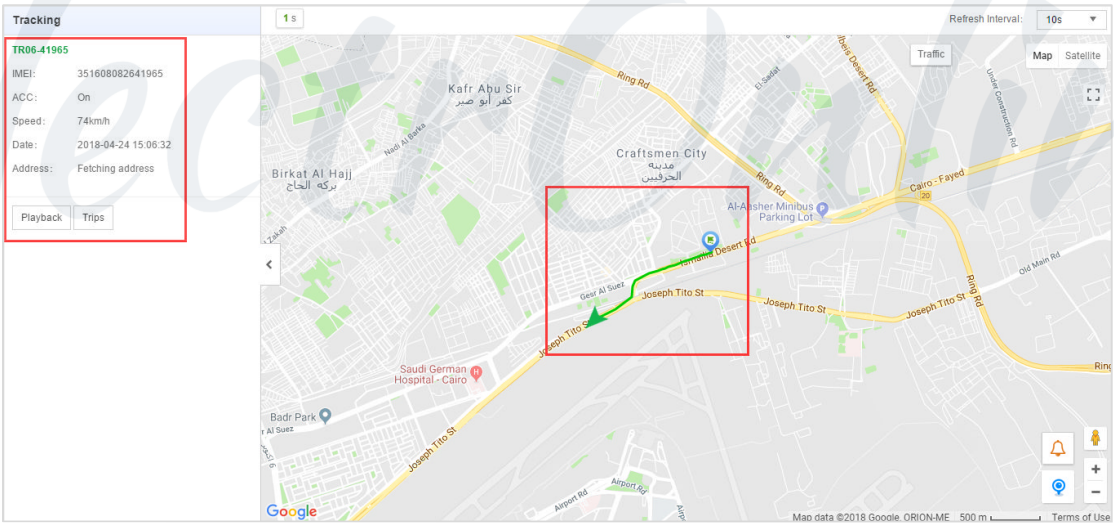
Show crossed Geo-fence/POI

Check corresponding checkbox to show Geo Fence or POI on the map.



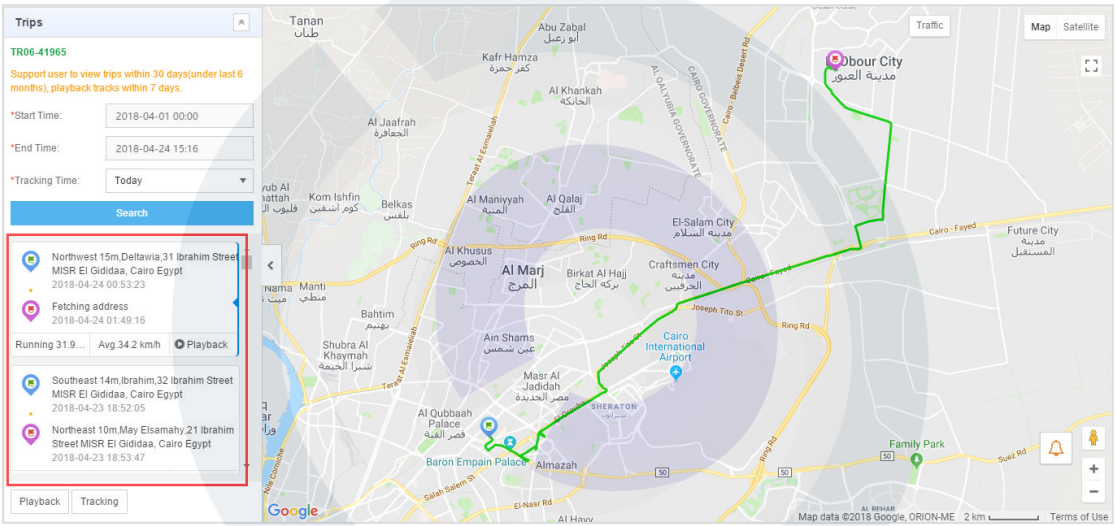
4.6.4. Tracking

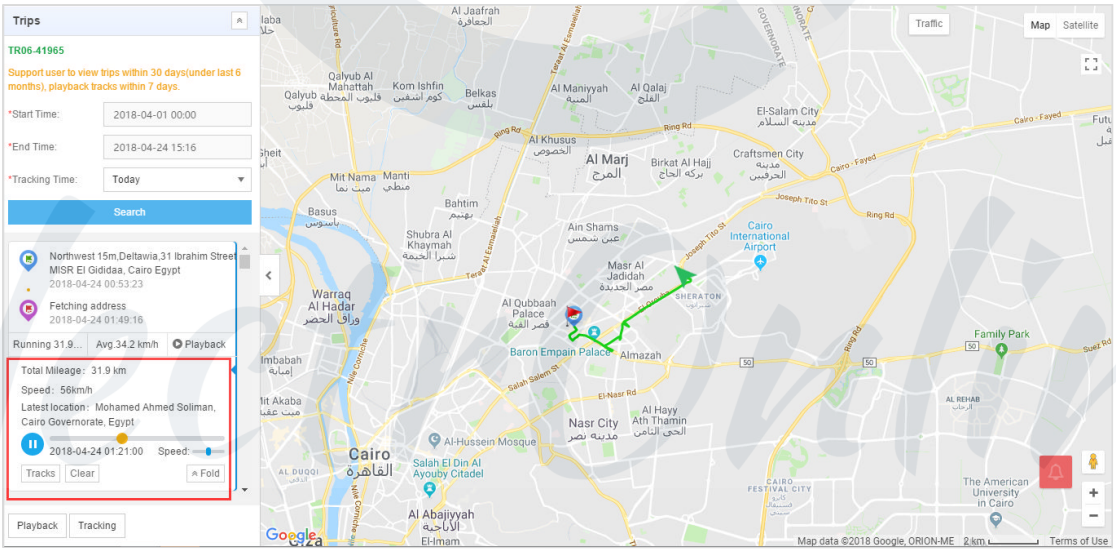
Tracking is a function to monitor moving device. System shows device information real time, fields like IMEI, ACC, speed, locating time, address are shown on the left and display tracks on the map, they are updated by every 10 seconds in default.



4.6.5. Trips

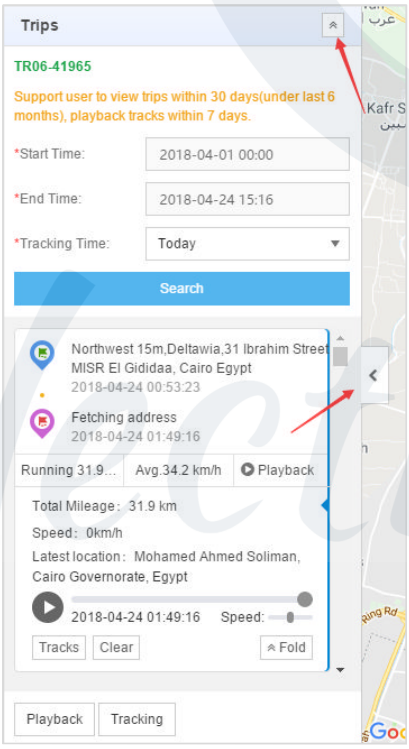
Each tracking device might have several trips in a specific time range, for example, the figure below shows trips from 2018-04-01 00:00 to 2018-04-24 15:16 for device TR06-41965, the first trip are selected and tracks are shown on the map. Besides showing the address of start point and end point, each trip also shows total mileage and average speed as well as a *Playback* button. Click *Playback* button to playback the tracks of this trip. Trips can be searched in 30 days of last 6 months, if time range large than 30 days, the *Search* button will be disabled.





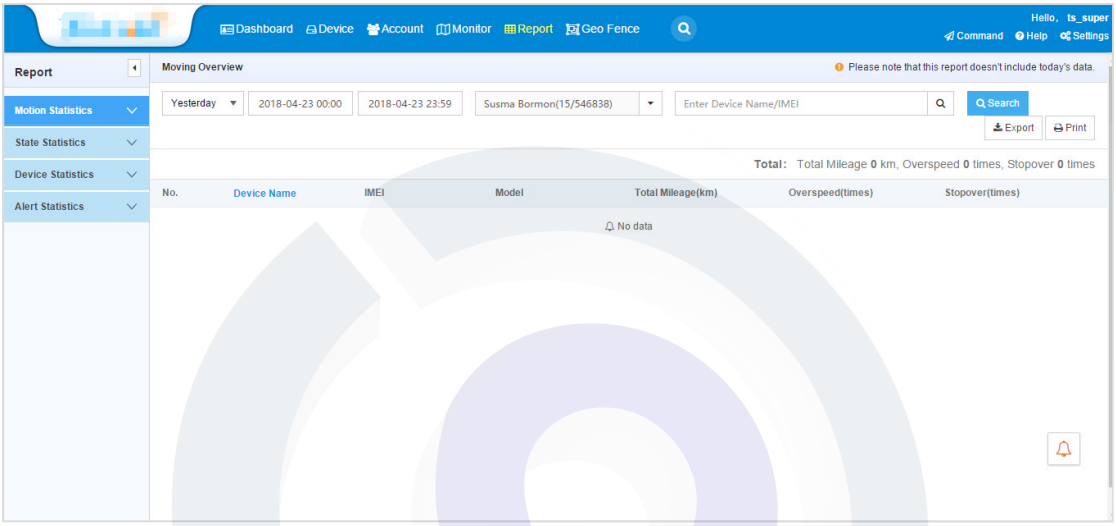
Tips

To expand the visible area, user could click fold/unfold on top or collapse/expand button on the right of panel.



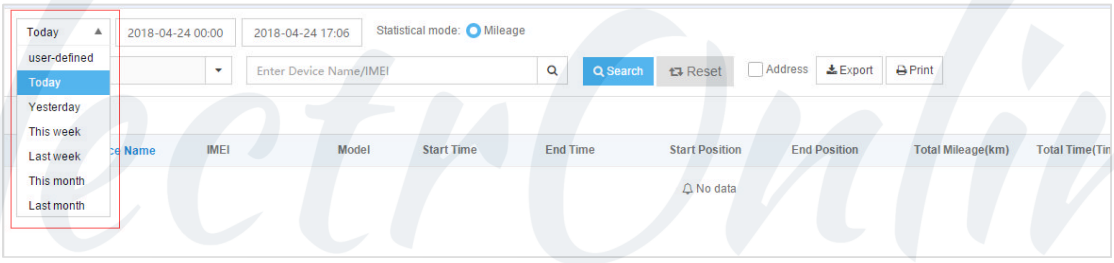
4.7 Report

Report includes Motion Statistics, State Statistics, Device Statistics, and Alert Statistics. Each Statistics contains several reports, Most of reports are support to Export Excel and Print.



Most of reports need to provide searching criteria before searching, there are share some common operation, takes *Trips* report for example:

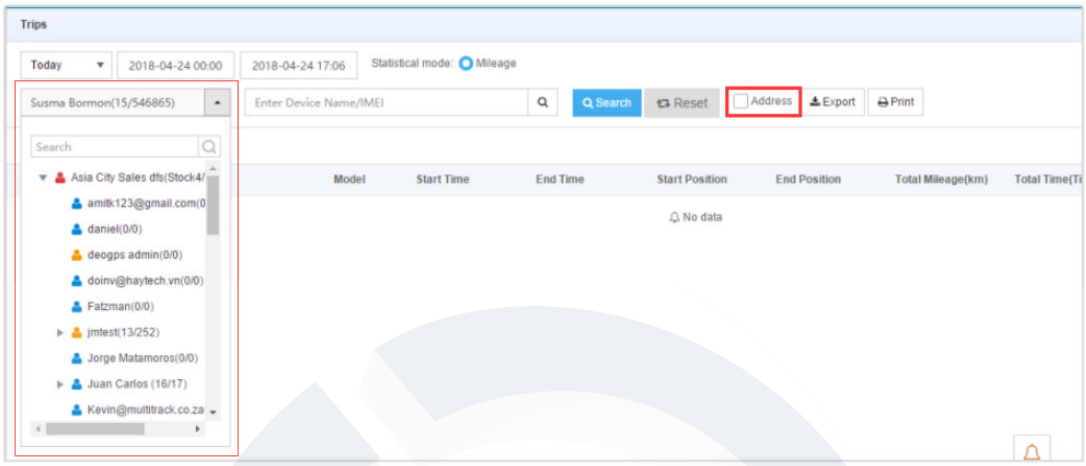
Time range default to today, from 00:00 till current time, the options of time drop-down list are shortcuts to select a time range.

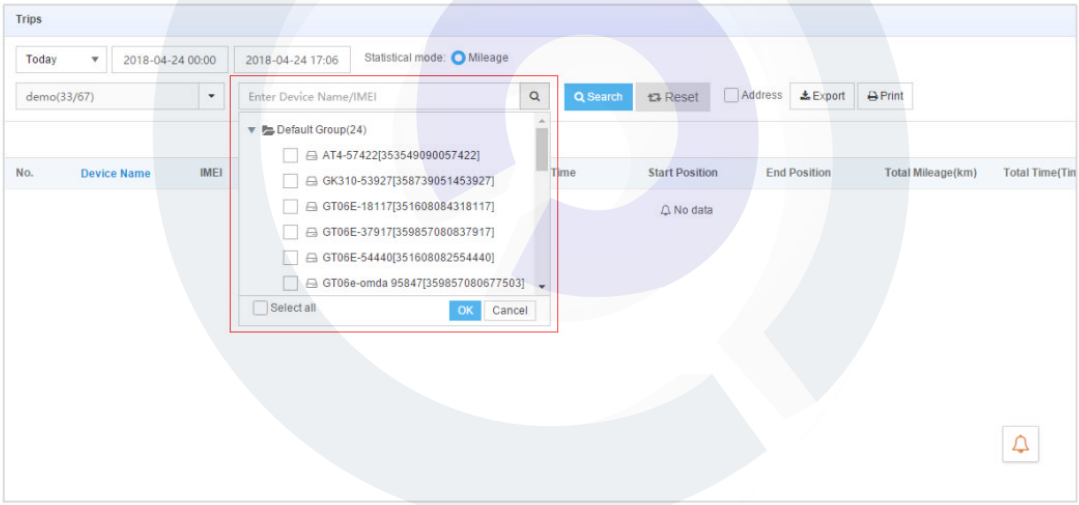


An account tree also provided to select account, once account is selected, devices associated to this account will be listed on the IMEI drop-down.

Some report may contains coordinates, if you want to get address rather than coordinates in the

download Excel, please check *Address* checkbox.





Tips

1. To select all IMEI, just check *Select all,* system also support Shift + mouse click to select multiple IMEI.

Devices will be order by alphabet order.

2. To search by known IMEI, firstly click *Reset* button to clear entered value , then paste the known IMEI and click *Search* button.

Motion Statistics

Includes *Moving Overview* Report, *Overspeed* Report, *Parking* Report, *Idling* Report, *Ignition* Report(ACC Report).

State Statistics

includes *Offline* Report and *Online* Report.

Device Statistics

Includes *Device Overview* Report, *Battery* Report, Fuel Consumption Report, *Driving Behavior* Report.

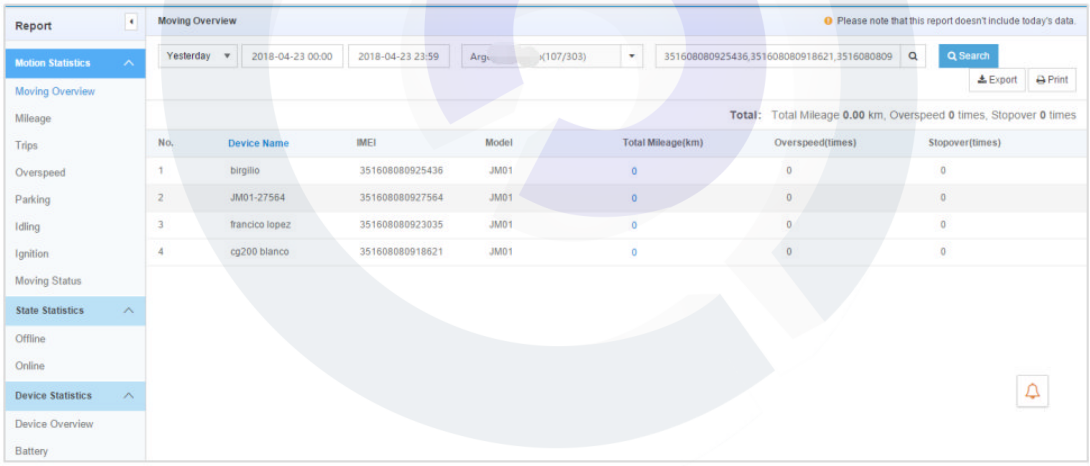
Alert Statistics

Consists of *Alert Overview* Report and *Alert Details* Report.

4.7.1. Moving Overview

This report shows total mileage, overspeed times and stopover times for all the devices.

Click total milage link, system navigates to *Mileage* report for details. Note the result not include today's mileage.



4.7.2. Mileage

This report shows the detail mileage of devices with an explicit start time and end time, the *Total Fuel* is calculated base on total mileage, It also support to displays detail mileage day by day, however, records with none mileage will be ignored. The data of mileage is updated by every half hour.

Total Fuel = Total Mileage / 100 * Fuel/100km

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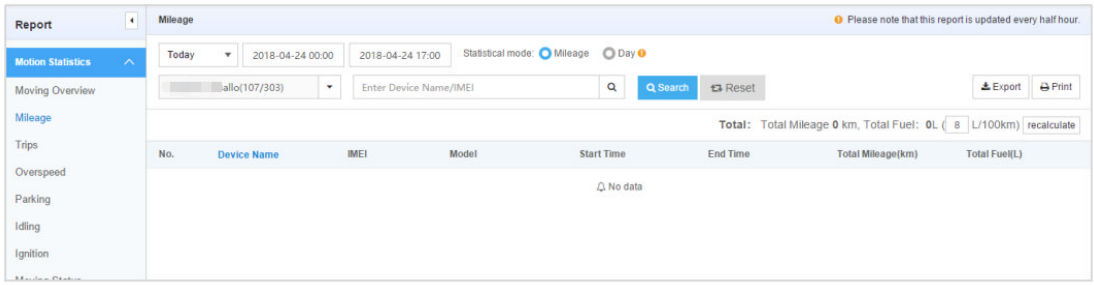
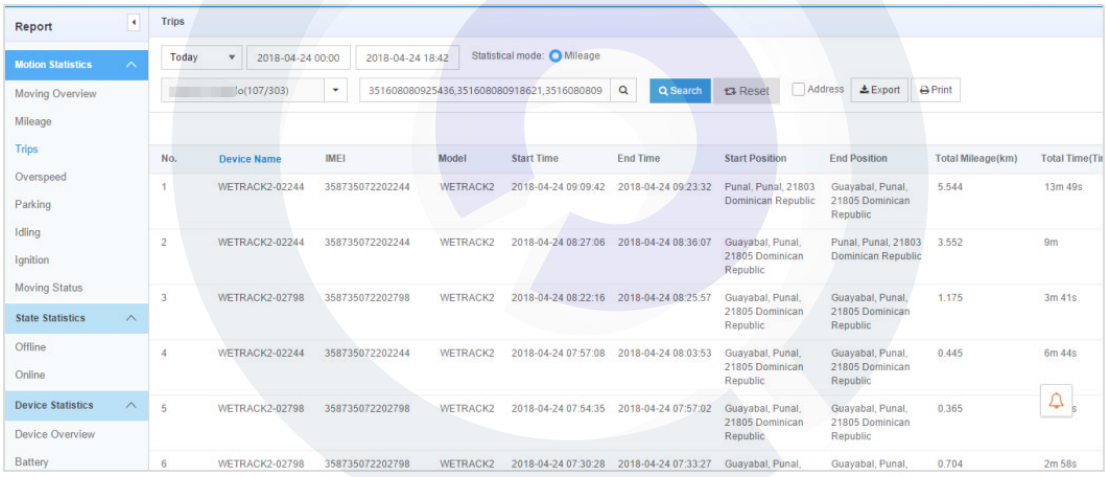


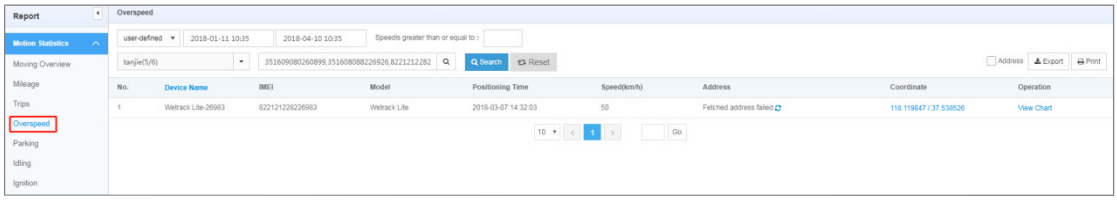
4.7.3. Trips

Trips report shows the start time, end time, start point, end point and mileage, total fuel, avg. speed information for device for all matching trips.



4.7.4. Overspeed

Shows all overspeed records for selected devices.



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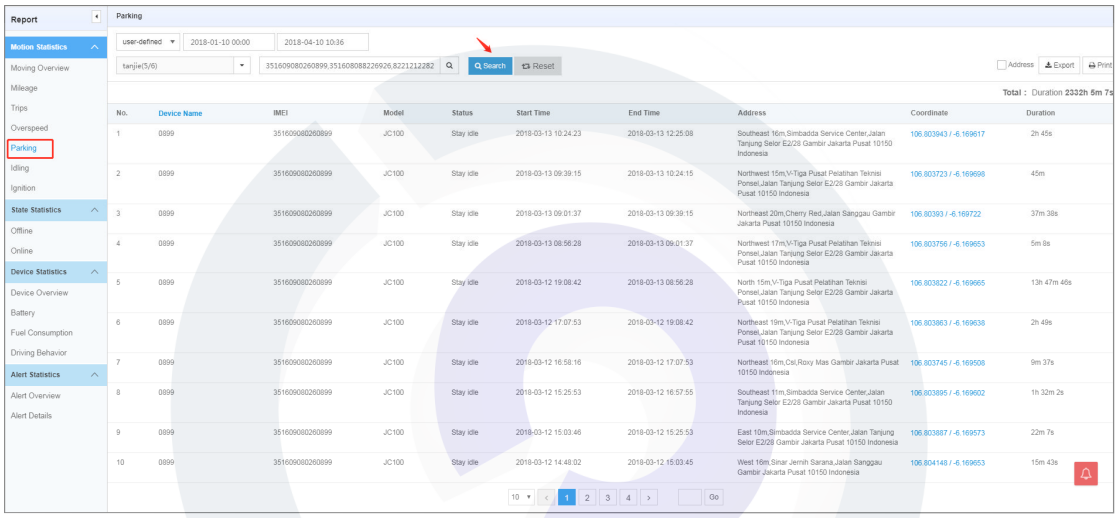
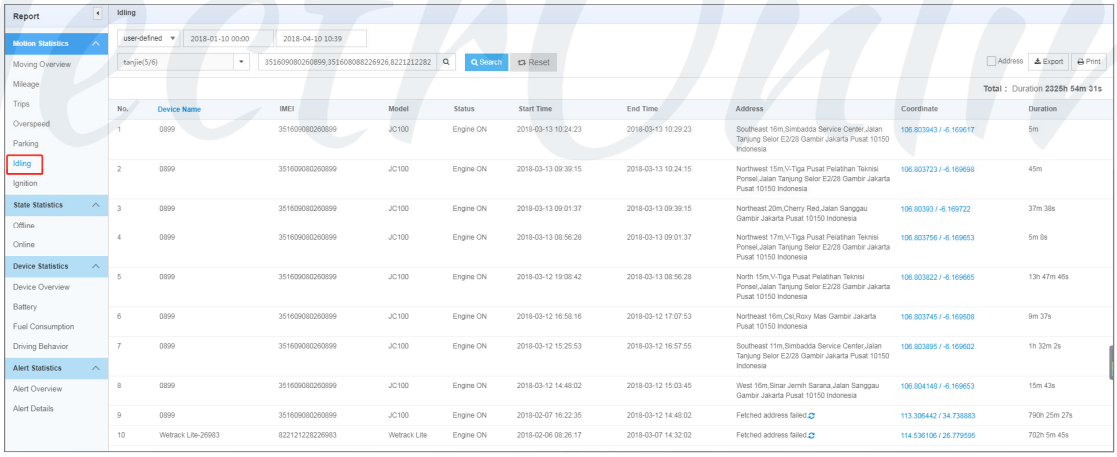
4.7.5. Parking

Shows all parking records for selected devices.



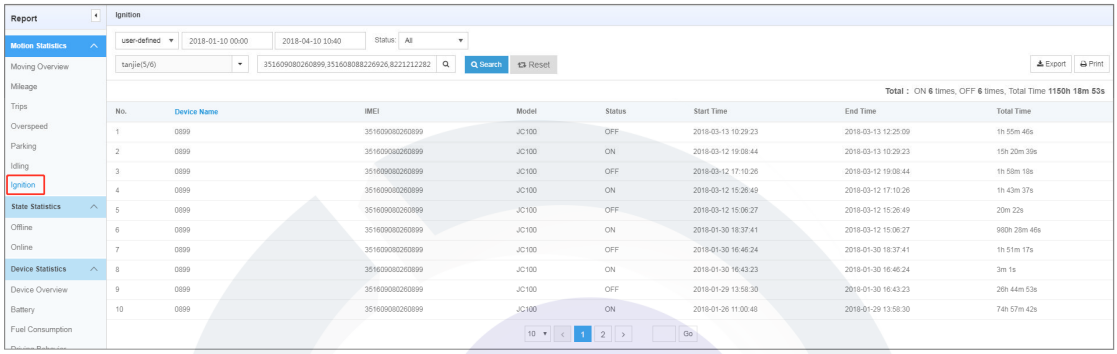
4.7.6. Idling

Shows all idling records for selected devices.



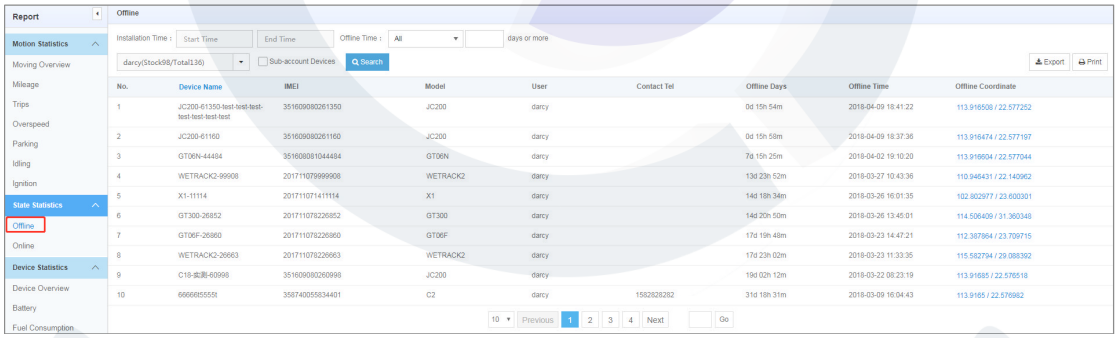
4.7.7. Ignition

Shows ACC(Engine) status for selected tracking devices, the status is ON/OFF.



4.7.8. Offline

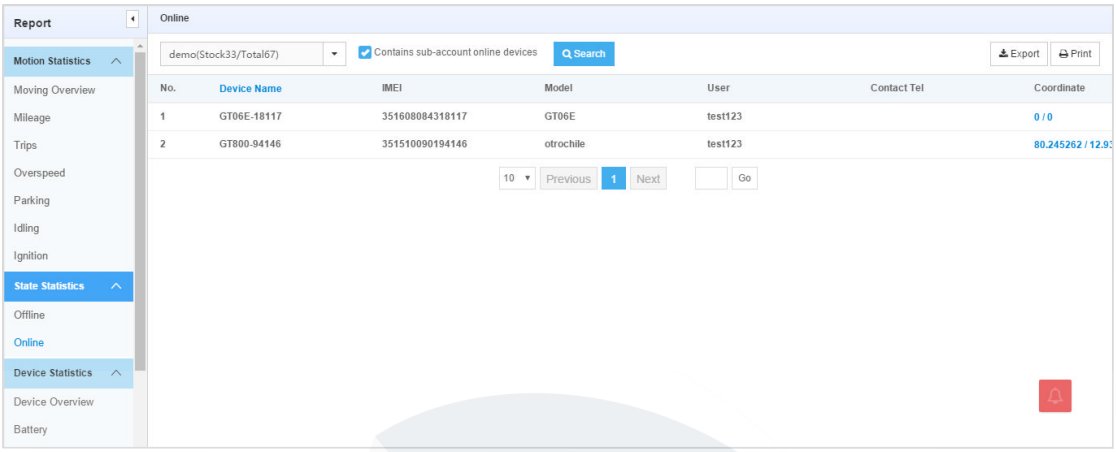
Display all records for offline devices.



4.7.9. Online

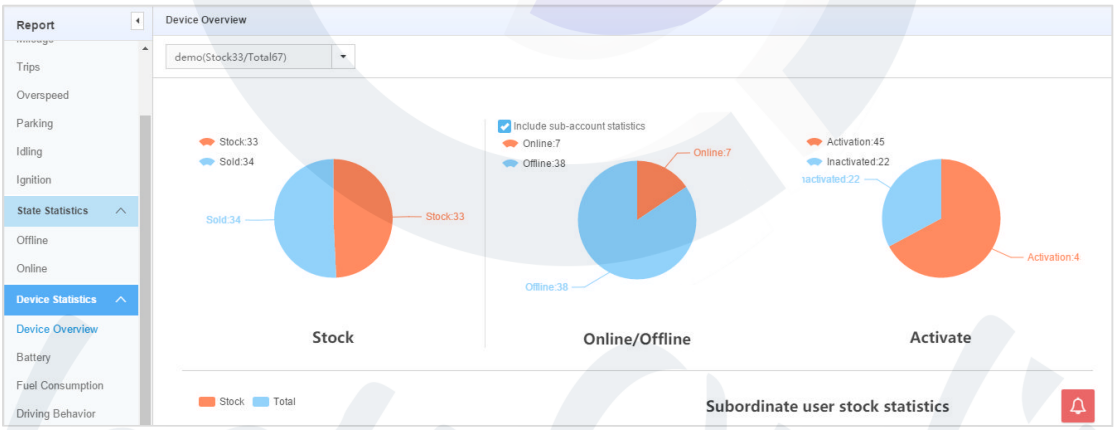
Search all online devices and current position of selected account.

ElectrOnline



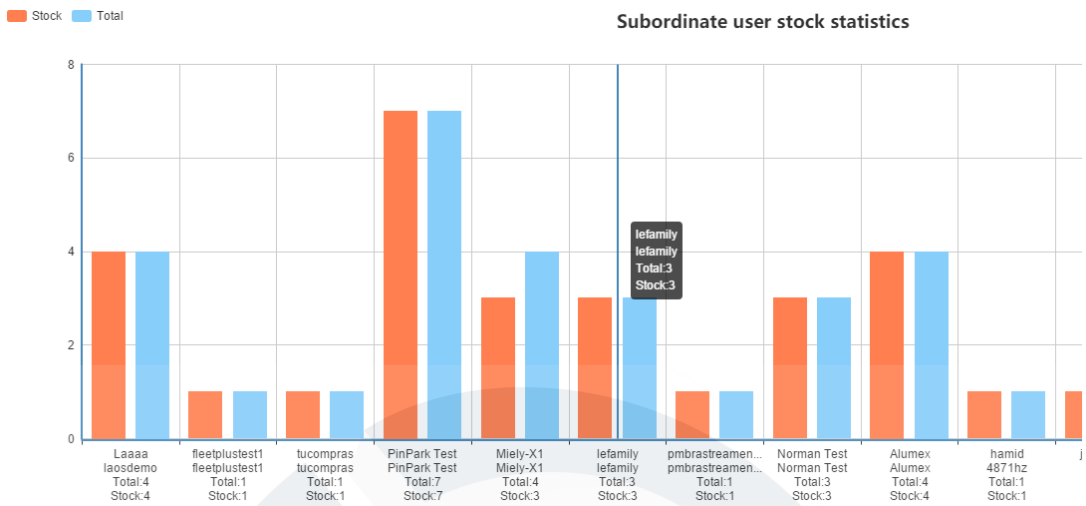
4.7.10. Device Overview

1. The first chart shows stock devices quantity, total device quantity, online/offline devices quantity, as well as activated devices quantity.

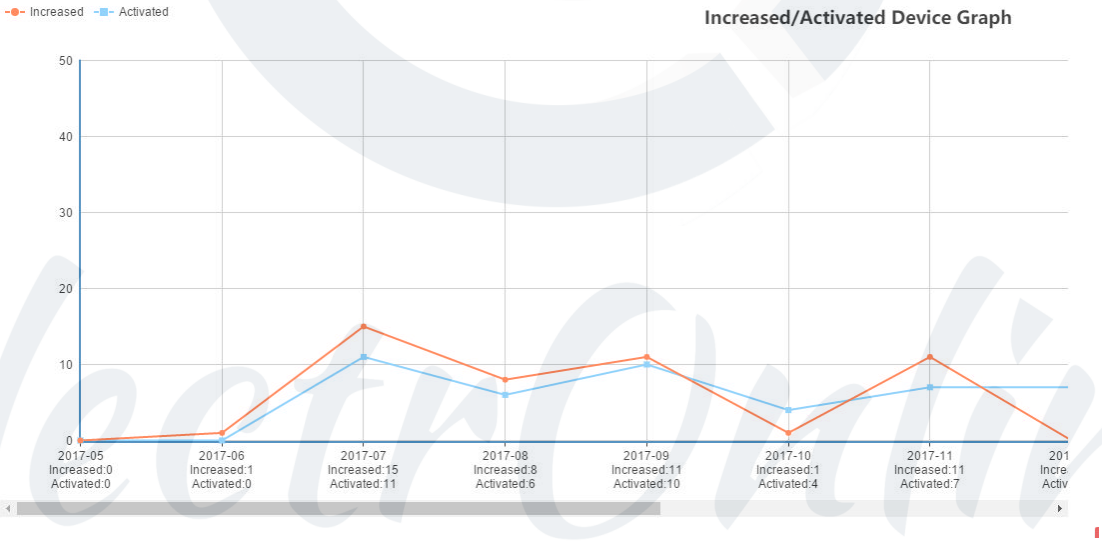


2. The second chart shows stock quantity and total quantity for all sub-accounts.

ElectrOnline

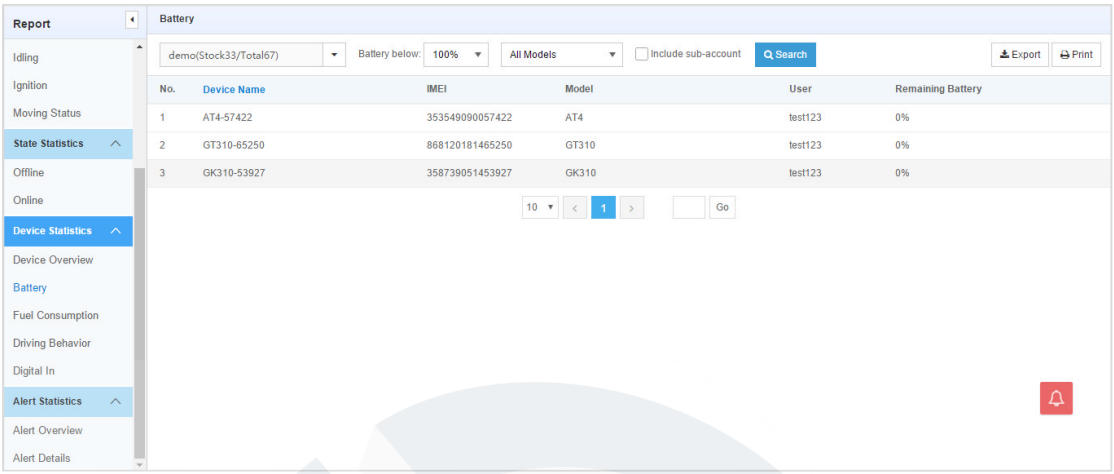


3. The third chart shows the trend of Increased/Activated devices for current login account.



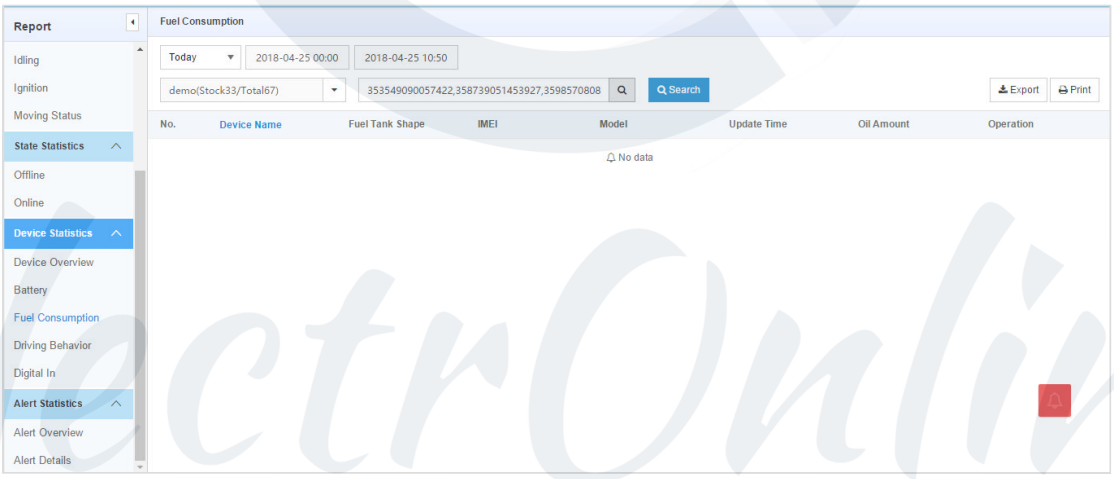
4.7.11. Battery

This report shows device battery information. Currently some models support fetching battery electric in platform.



4.7.12. Fuel Consumption

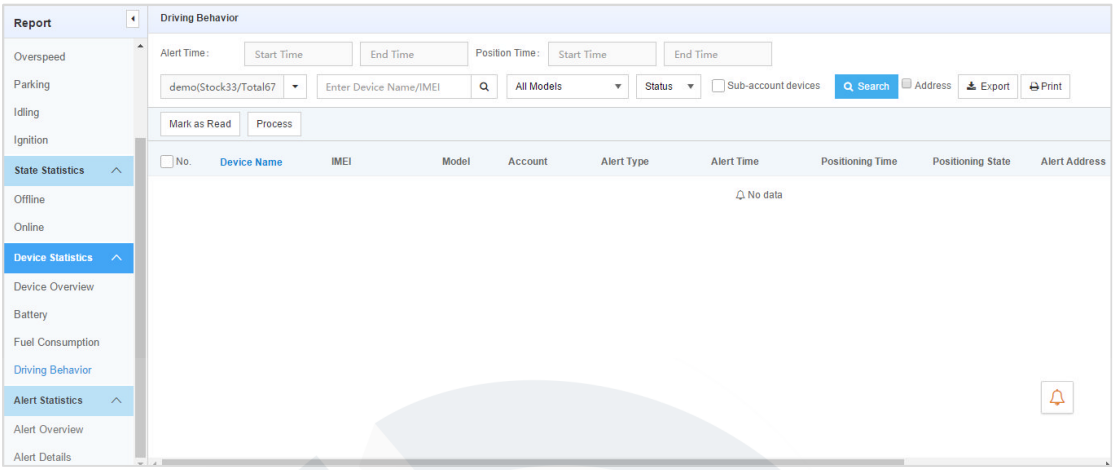
Only devices support fuel sensor and already configure fuel tank volume in *Device* page can be shown in this report. See *Set Fuel Tank Vol*.

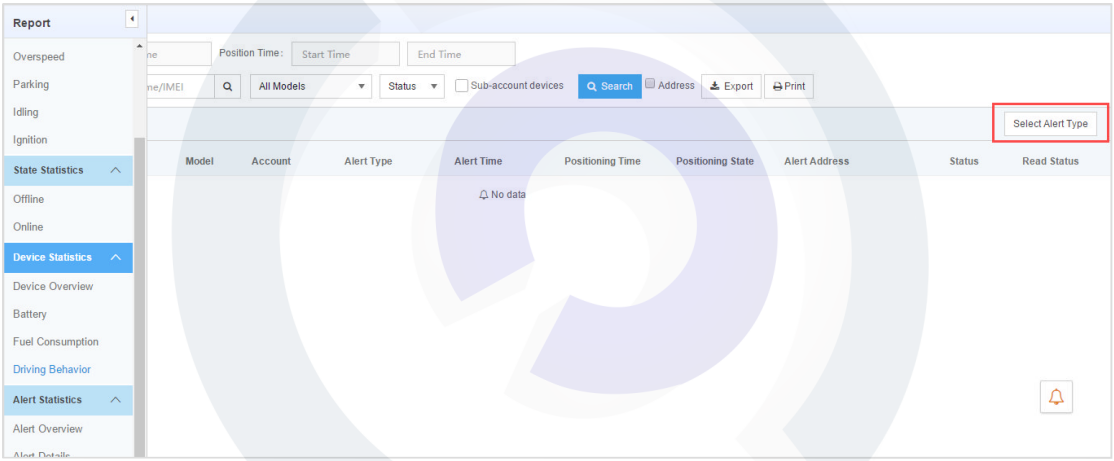


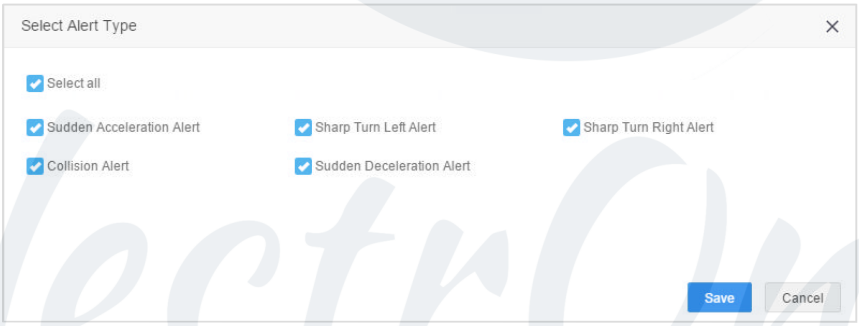
4.7.13. Driving Behavior

Driving behavior is a subset of *Alert Details* report, which only includes *Sudden Acceleration Alert*, *Sudden Deceleration Alert*, *Sharp Turn Right Alert* and *Sharp Turn Left Alert* and *Collision Alert*. Some device models support this feature.

ElectrOnline



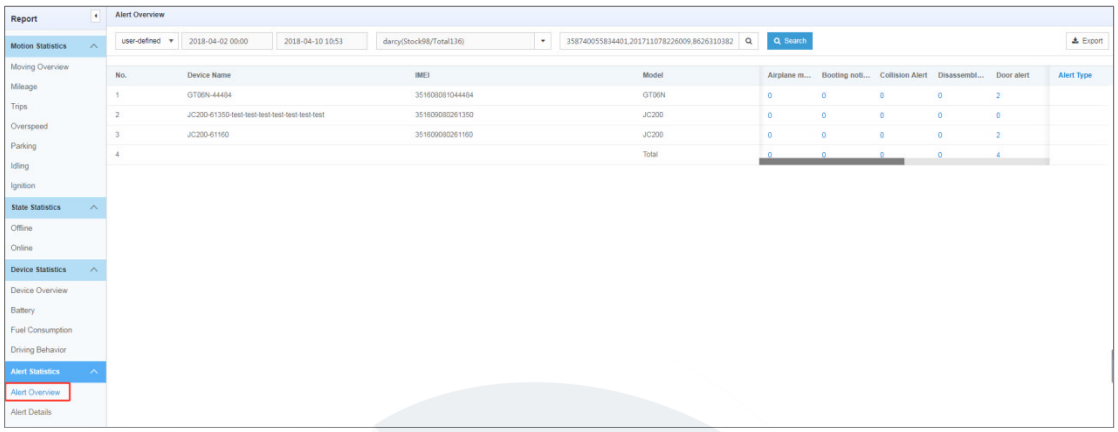




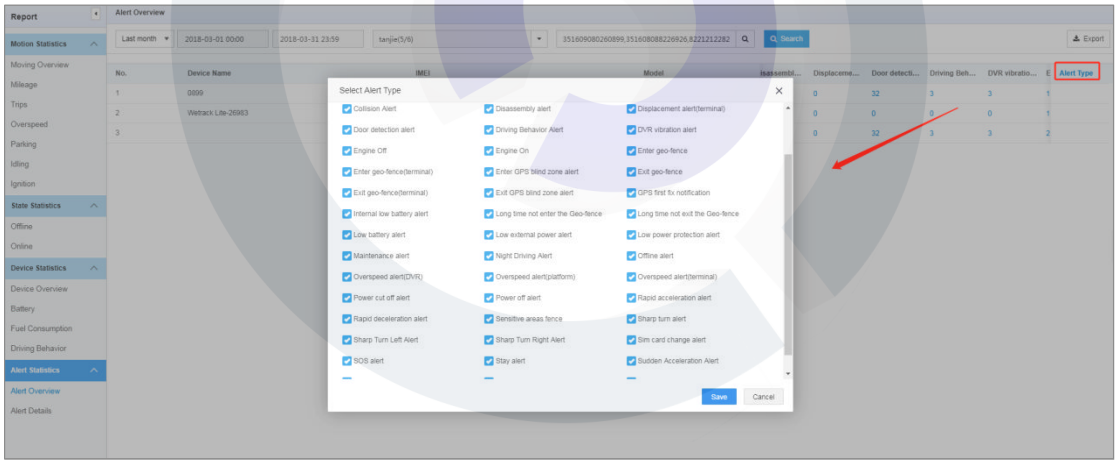
4.7.14. Alert Overview

Counts the times of alert for each alert type , this is an overview report for *Alert Details.* Click the number alerts to view more detail alert information.

ElectrOnline



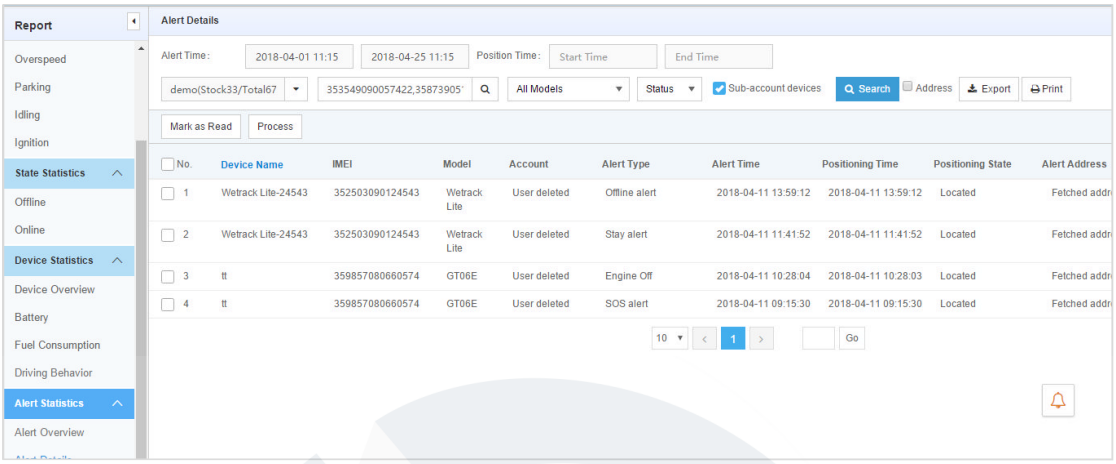
Alert Type is selectable.

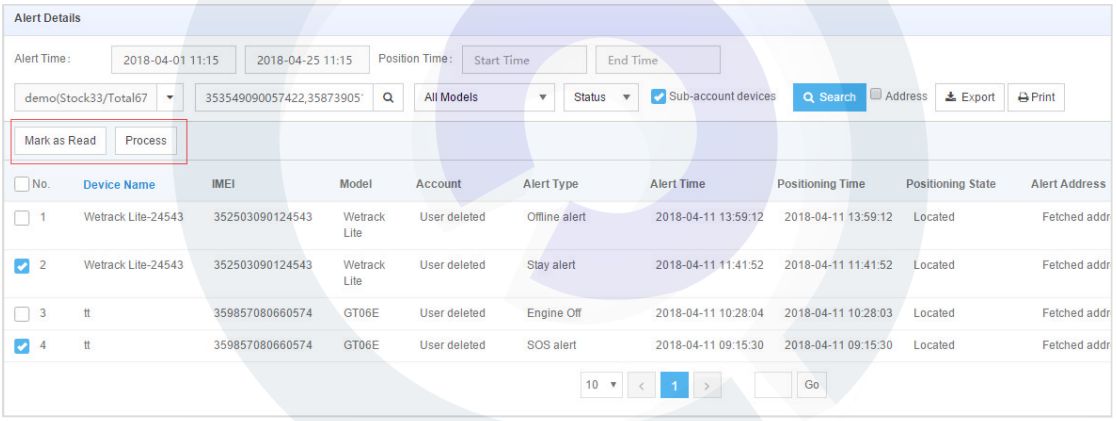


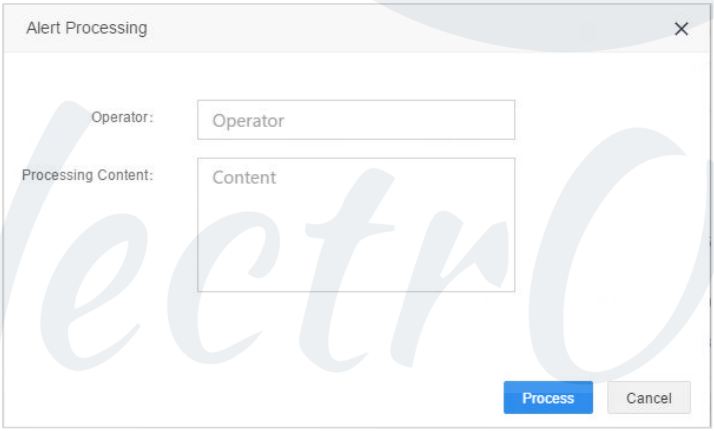
4.7.15. Alert Details

This report shows alerts of selected devices. User can change read/unread status of selected alerts by clicking *Mark as Read,* and add comments for the selected alerts.

ElectrOnline





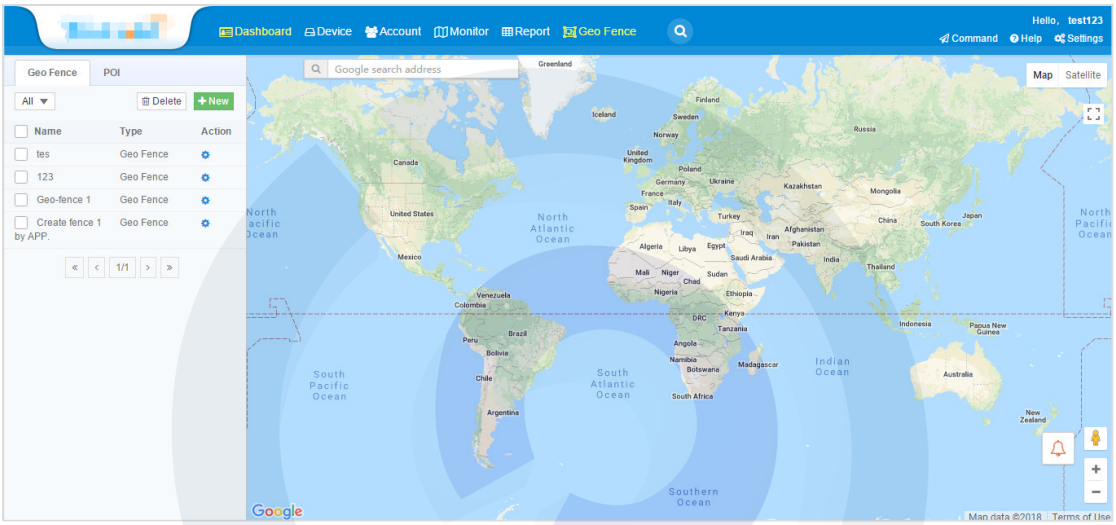


4.8 Geo Fence

Geo Fence is one of core features in this tracking platform. User draws a circular or polygon area on the map to create Geo-fence. A Geo-fence can be associated with several tracking devices. If

user enable Enter/Exit Geo-fence alerts, the notification will be send to Apps/Web, meanwhile a a mail will be sent to the configured email address.

POI is almost identical to Geo-fence, the difference is POI can not rise an alert, it's just a mark for an area with a specified name.



4.8.1. Geo Fence

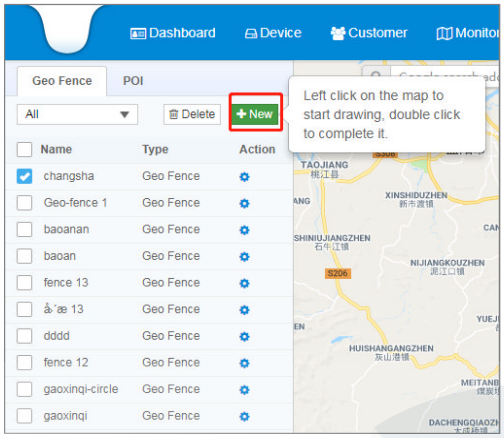
To create Geo-fence, just click *New* button and draw a circular or polygon area on the map, after that, system pops up a window for user to specify Geo-fence name and description. User can choose to save Geo-fence and assign devices at the same time or later on.

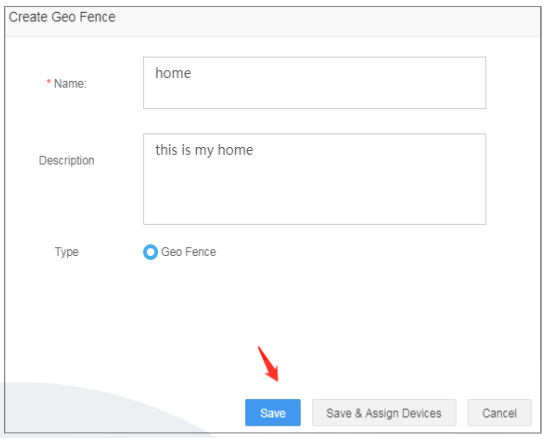
Geo Fence Alerts include following events:

- Enter Geo Fence
- Exit Geo Fence
- Long time not enter Geo-fence
- Long time not exit Geo-fence

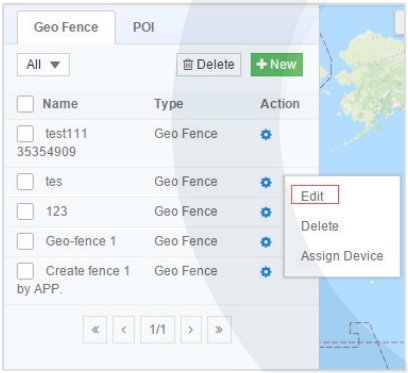
Create Geo Fence

ElectrOnline



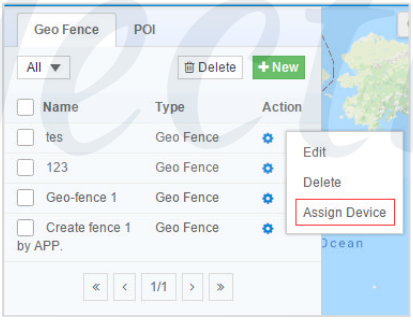


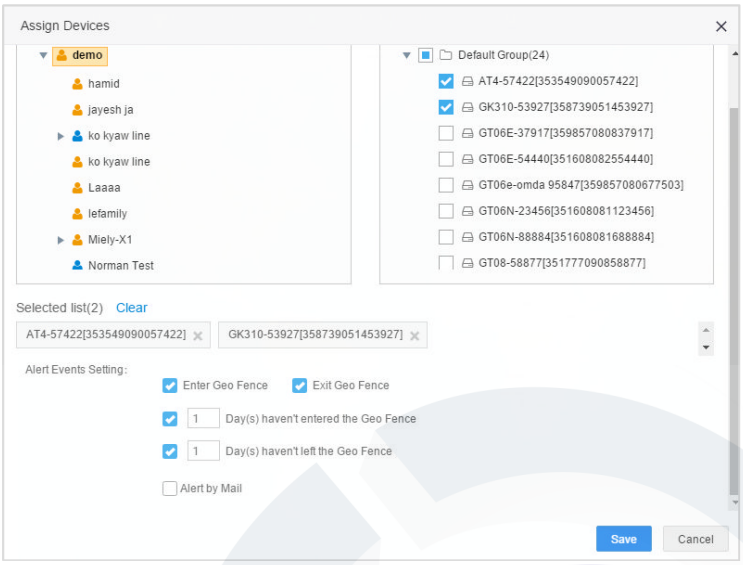
Edit Geo Fence

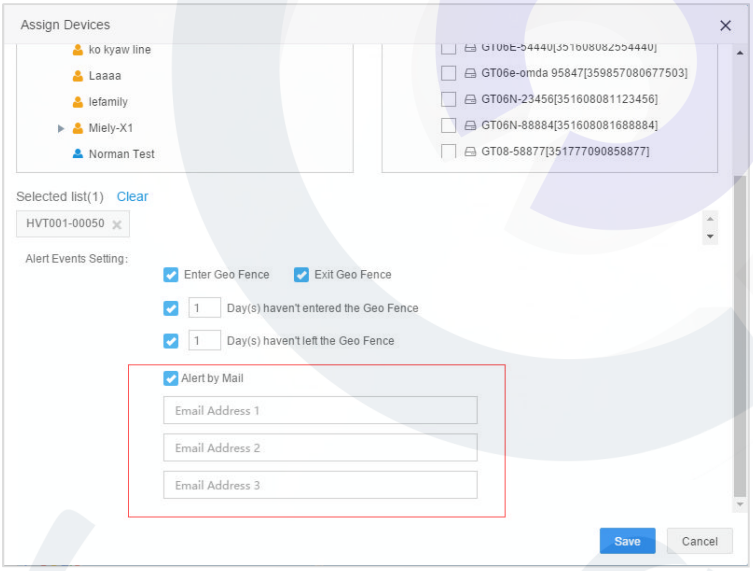


Assign Device

To assign devices, click *Save & Assign Device* while create Geo-fence, or click *Assign Device* in the Geo-fence list.

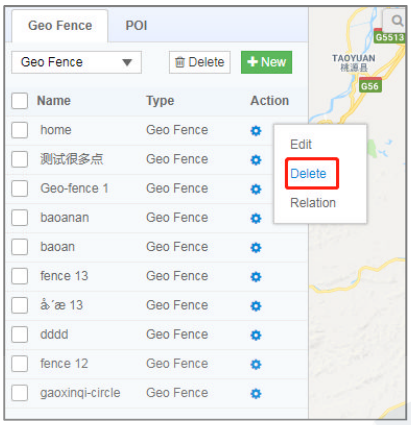


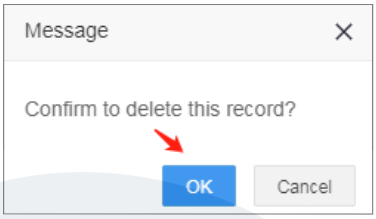




Delete Geo Fence

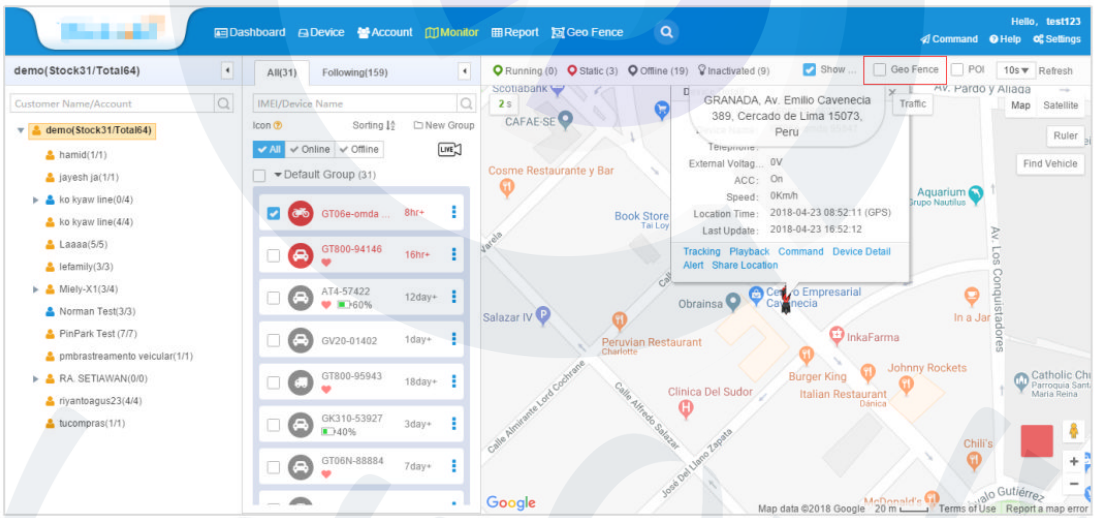
ElectrOnline



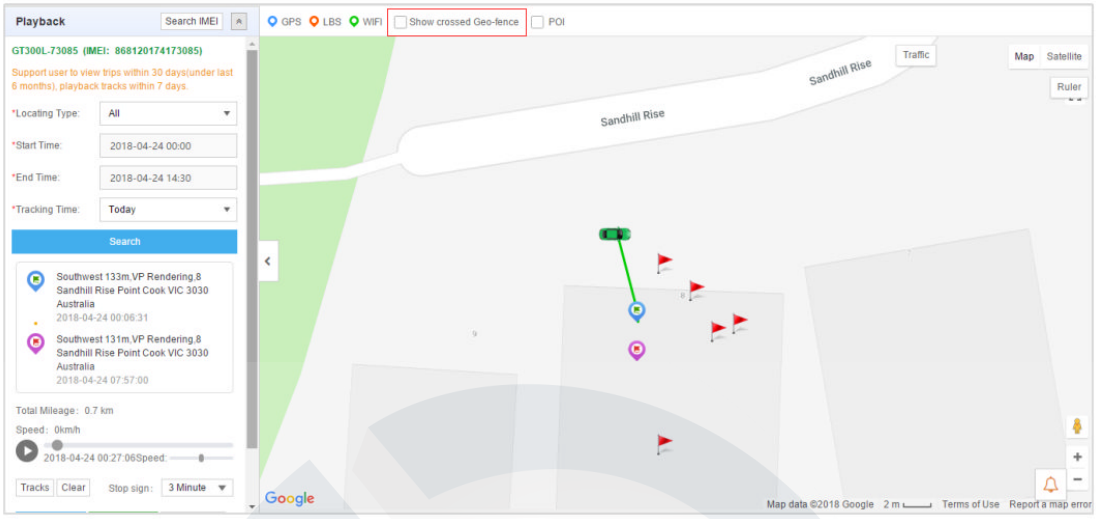


View Geo Fence

Besides for rising an alert, Geo-fence can be shown on the map in *Monitor* or *playback* page.



ElectrOnline

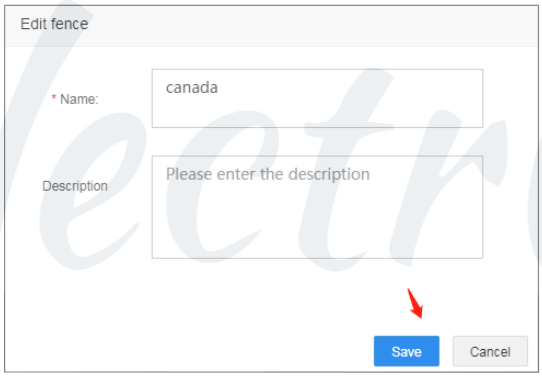


4.8.2. POI

POI is an area marked by user with a specified name, it can be displayed on the map in *Monitor* or *playback* page.

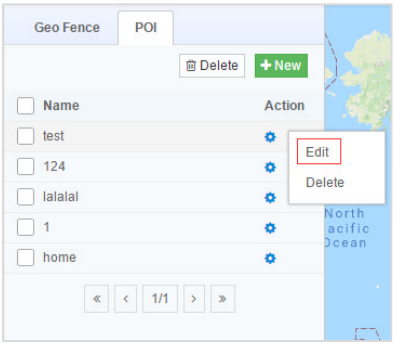
Create POI

Click *POI* tab in *Geo Fence* page, click *New* button to create POI. Creation of POI is quite same as create Geo-fence, user draw a circular or polygon shape on the map and give a name and description for POI.

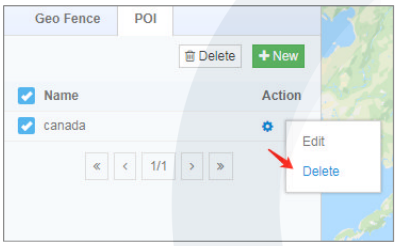


Edit POI

ElectrOnline

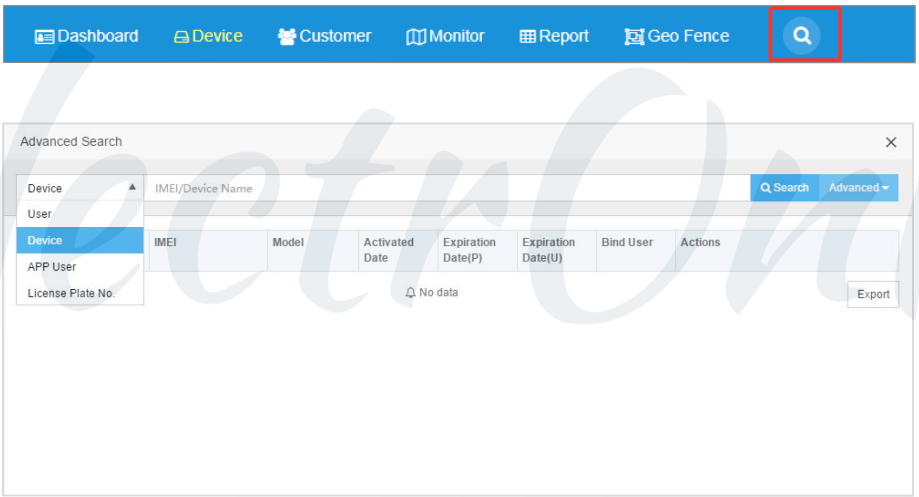


Delete POI



4.9 Advanced Search

Advanced search provides very rich functions for user to search device, platform user and app user. Almost all functions in this tracking platform can be found in advanced search.



Note

User(platform user) we mentioned in previous section is same definition to account, but App user is registered in Apps, it's not in the account tree.

4.9.1. Search Device

By default, search devices in *Advanced Search* is base on IMEI or device name by default, however it also support other criteria:

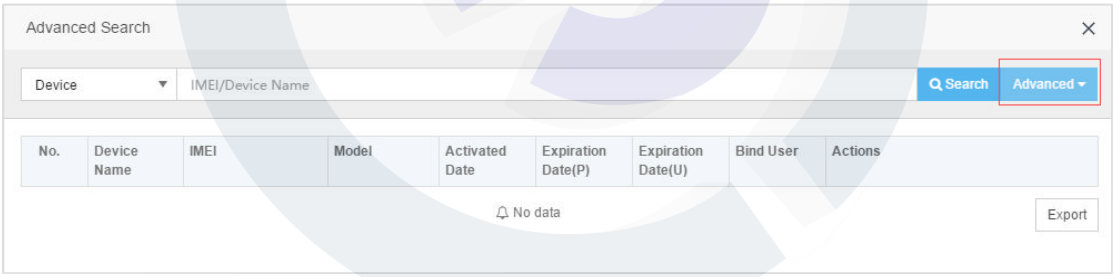
Account - search device by selected account.

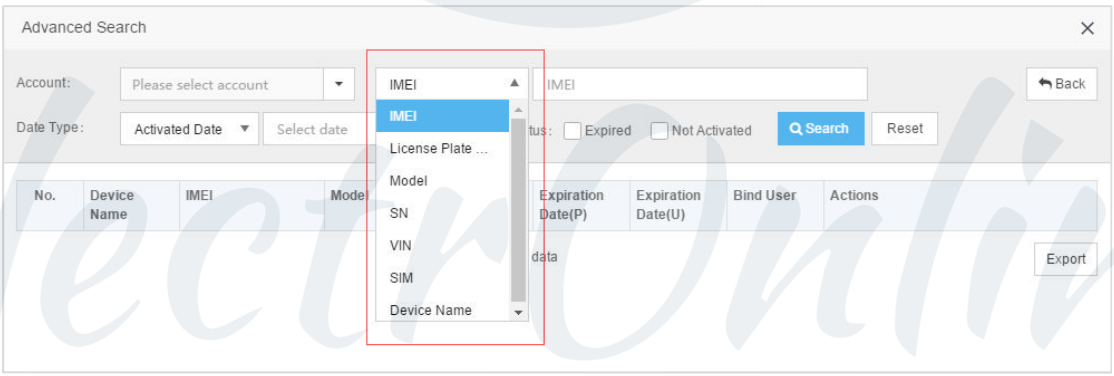
Device Fields - including IMEI,License Plate No, Model, SN, VIN, SIM, Device Name

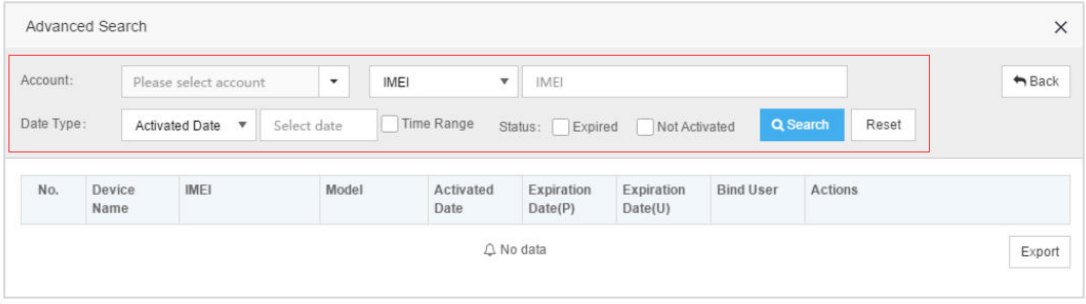
Date Type - including Activated Date, User Expiration Date, Platform Expiration Date

Status - Expired or Not Activated

The matched results will be list on the bottom datagrid.







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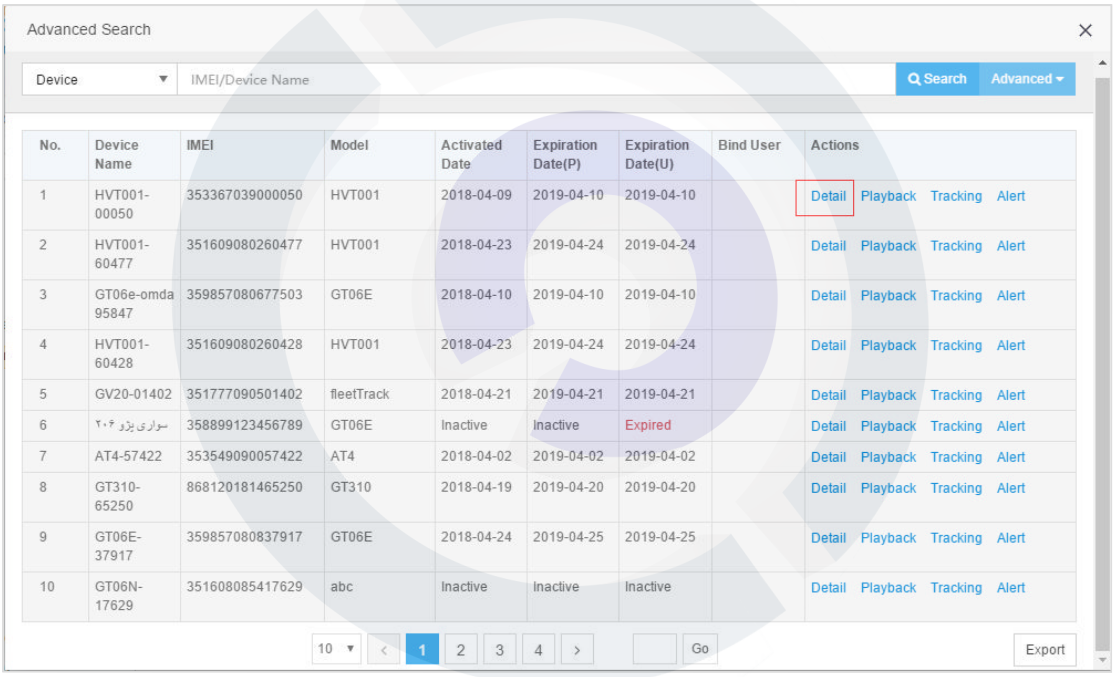
The *Actions* links in the result help user to do other operations:

Detail - navigates to device relative information tabs in current pop up window.

Playback - new page to playback tracks.

Tracking - new page to view real-time tracking.

Alert - new page to alert details report.



Click *Detail* link shows following tabs:

User Relationship - shows device basic fields and relationship between device and account.

Device Detail - shows device detail information, same as *Device Detail* in *Device* page.

Move Device - Move device to other account, is identical to Rapid Sale/Sell/Bulk Sell

Device Command - Send command to device, same as *Command/Send Command* in *Device* Page or *Device Command* in *Monitor* page.

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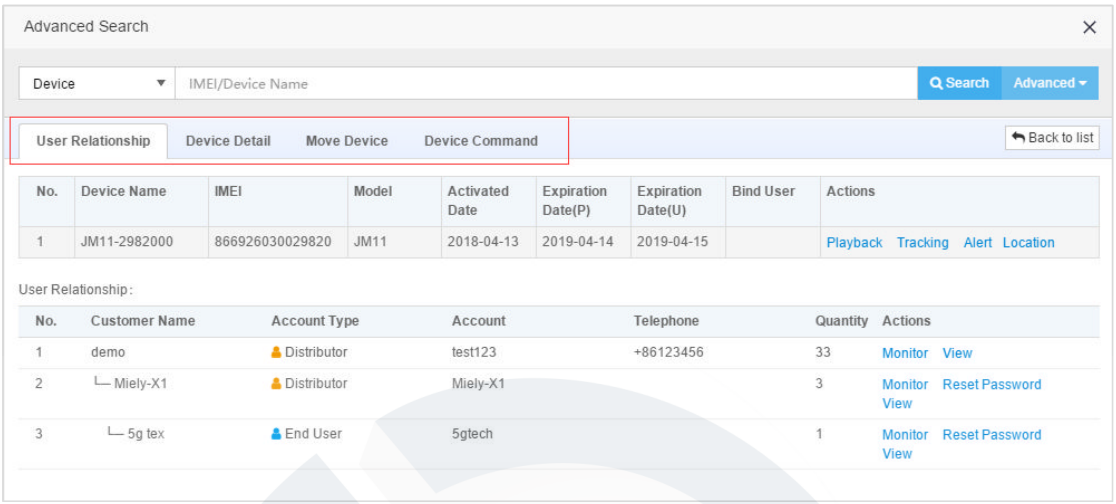

User Relationship Tab

This tab shows device basic fields and relationship between device and account, also includes following links:

Playback - new page to playback tracks for this device.

Tracking - new page to show real-time tracking for this device.

Alert - new page to alert details report.

Monitor(Location) - new page to *Monitor* page, showing selected device or devices of selected account.

View (Devices)- new page to *Device* page to view devices of selected account.

Reset Password - reset selected account to initial password 888888.

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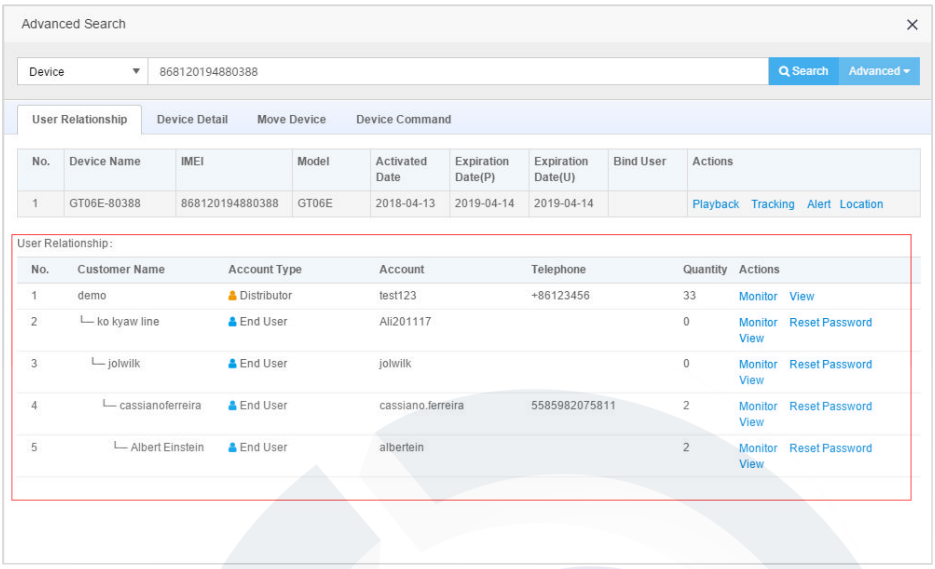
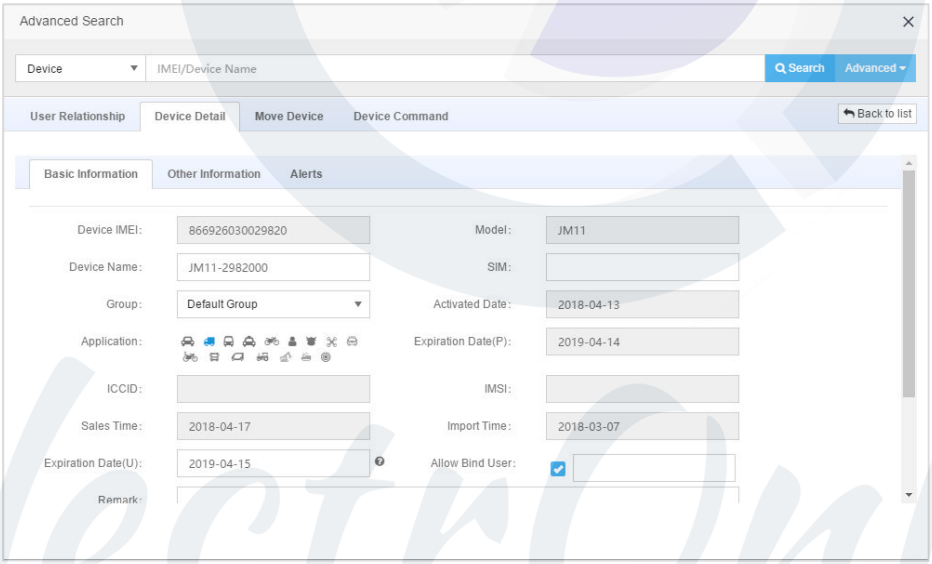


Device Detail Tab

In this tab, user can edit device detail like *Edit* in *Device* page.



Move Device Tab

Move devices like *Rapid Sale* in *Dashboard*, *Sell*/*Bulk Sell* in *Device* page.

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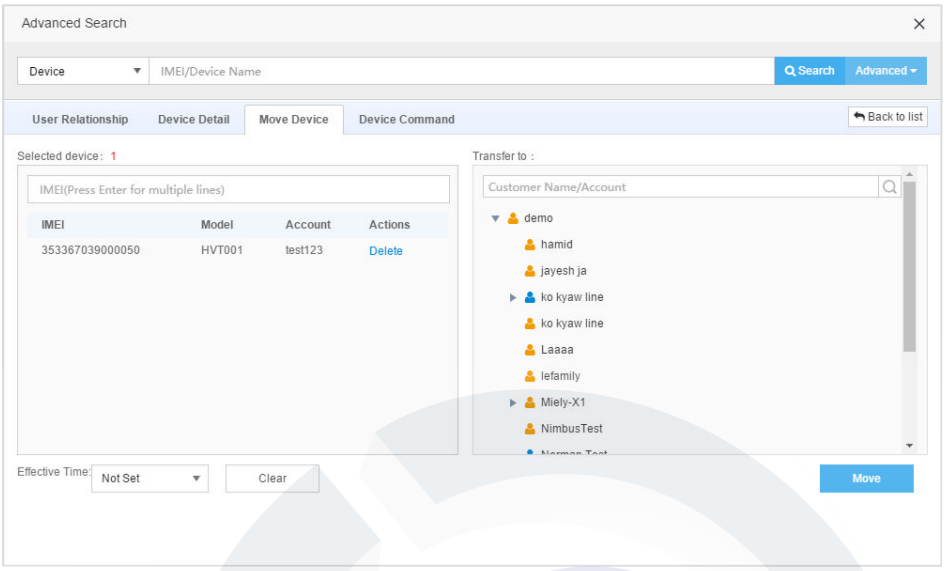
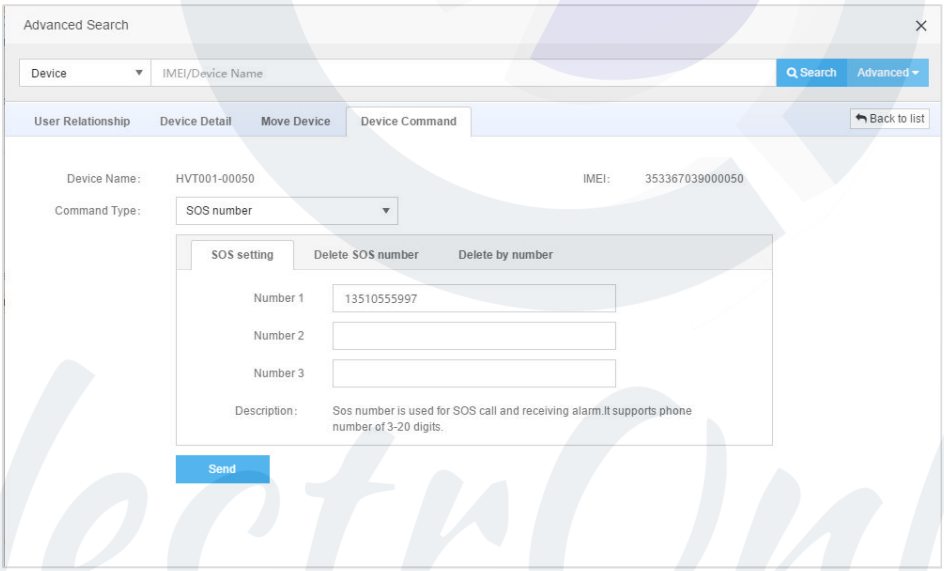


Device Command Tab

Send commands like *Command*/*Send Command* in *Device* page, *Device Command* in *Monitor*.



Click *Back* to go to the basic search.

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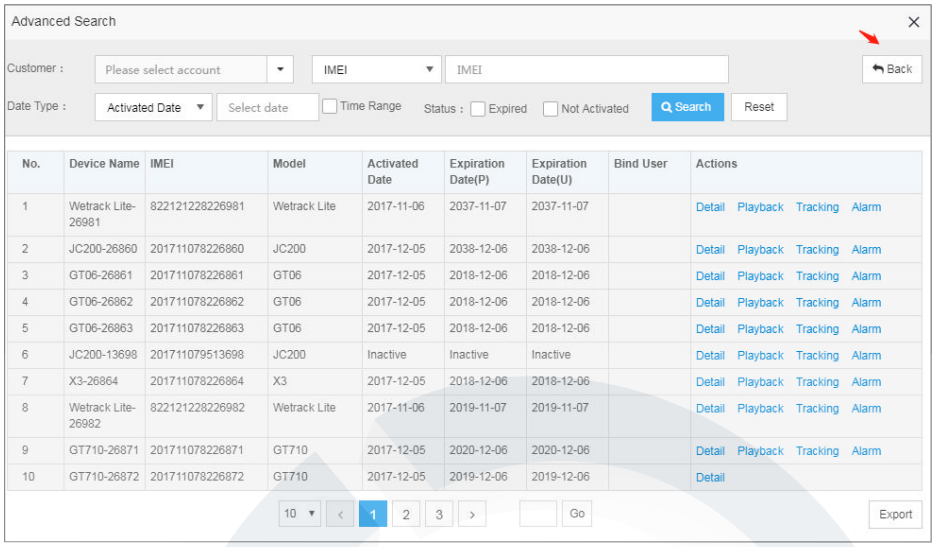
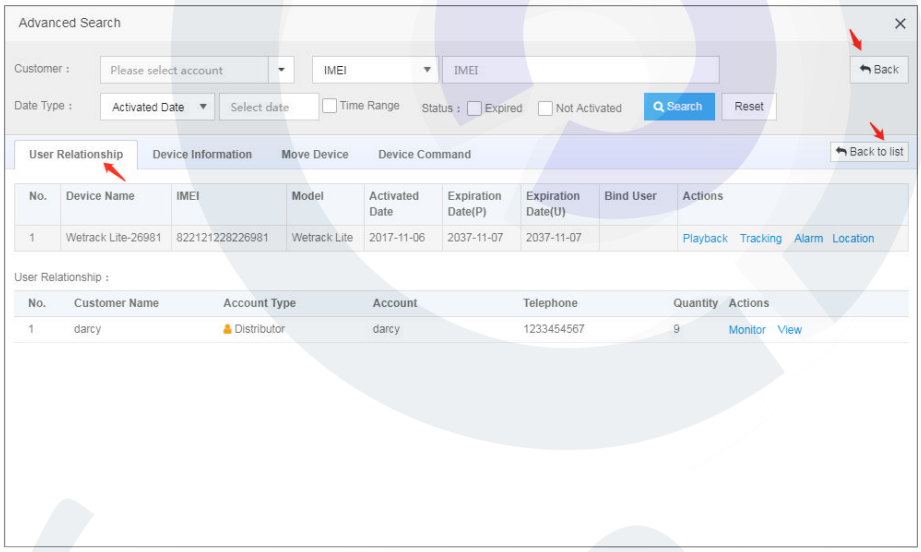


Click *Back to list* to return devices list.



4.9.2. Search User

Search user by customer name or account, including sub-account. The result datagrid includes following links:

Monitor - new page to monitor devices of selected account.

Detail - navigates to User relative Information, including 5 tabs.

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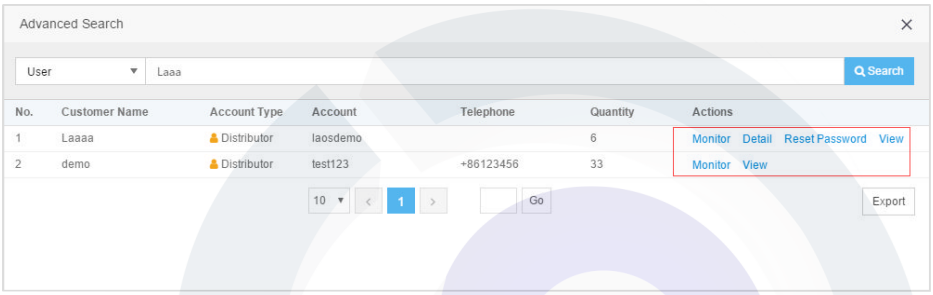
Reset Password - reset password to initial password 888888 for selected account.

View (Devices)- new page to view devices of selected account in *Device* page.



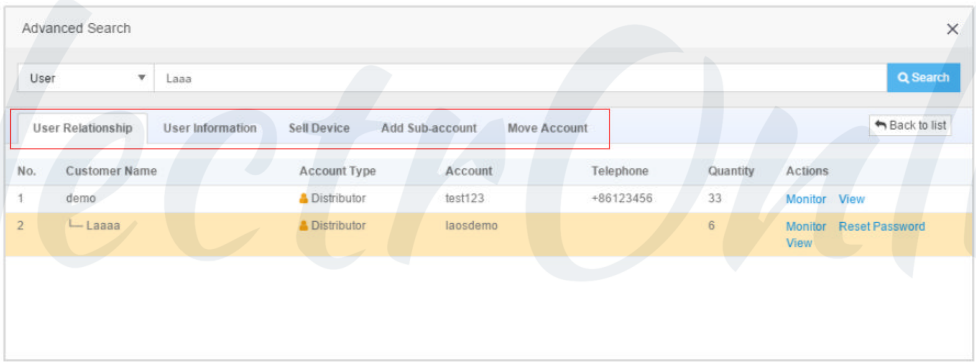
Click *Detail* link in the account list shows 5 tabs for selected account.

User Relationship - shows the structure of accounts.
User Information - Account details.

Sell Device - Move devices to selected account.

Add Sub-account - new sub-account for selected account.

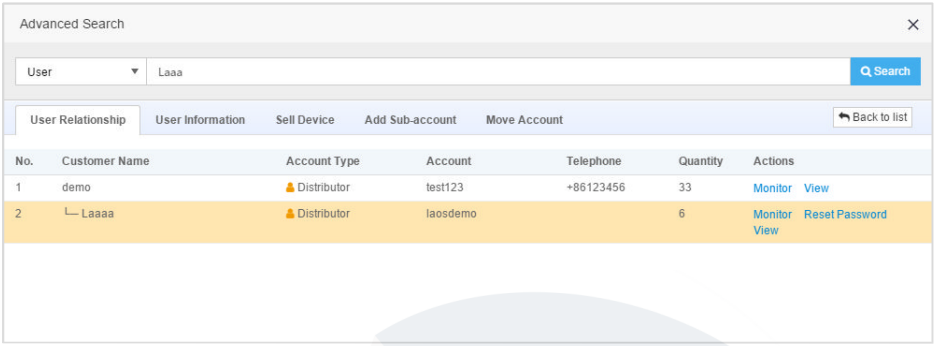
Move Account - move selected account to another sub-account.



User Relationship

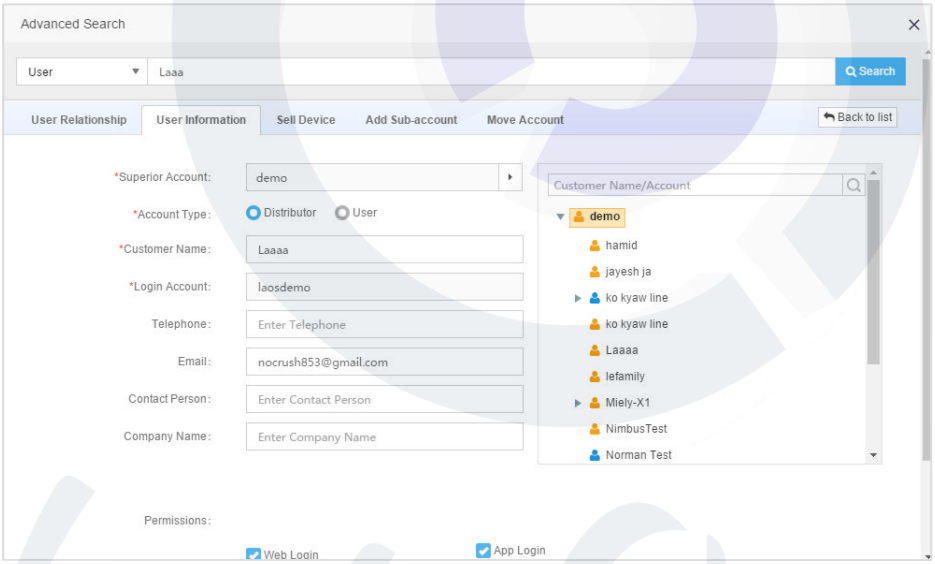
Show the structure of accounts. Monitor link navigates to a new page to monitor device, click

View link to view devices of selected account in *Device* page.



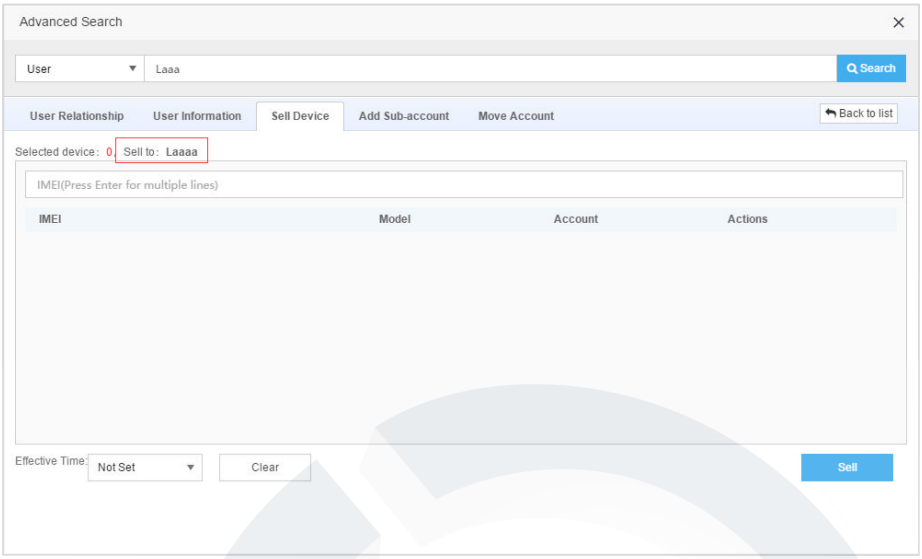
User Information

Identical to *Edit in* Account, user can edit account details in this tab. Refer to Edit Account.



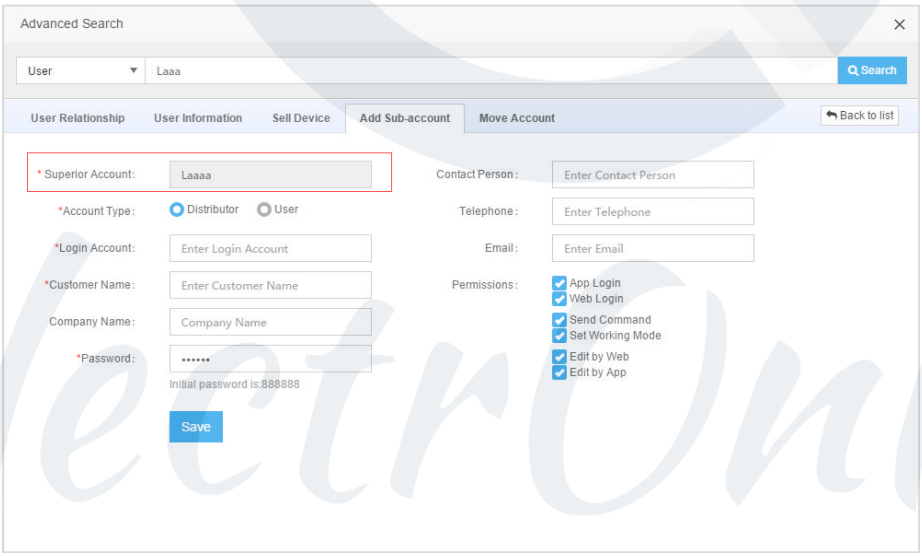
Sell Device

Move devices to this selected account. This function almost identical to Sell/Bulk Sell/Rapid Sale/Move Device in previous section. The difference selected account is the target account in this function. See Rapid Sale.



Add Sub-account

Add new sub-account for selected account. This is a function identical to New Account, set the selected account as superior account and not allow to change.



Move Account

Move selected account to a target account select from the account tree.

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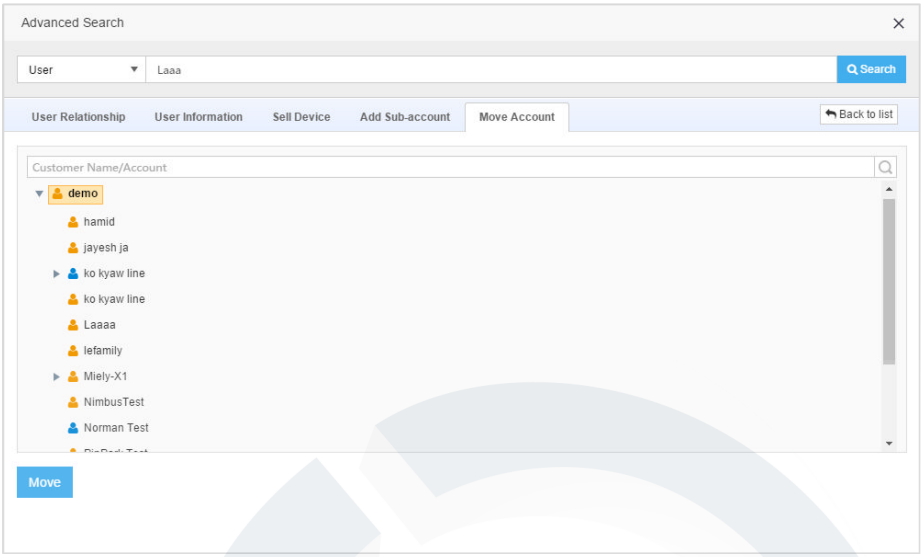
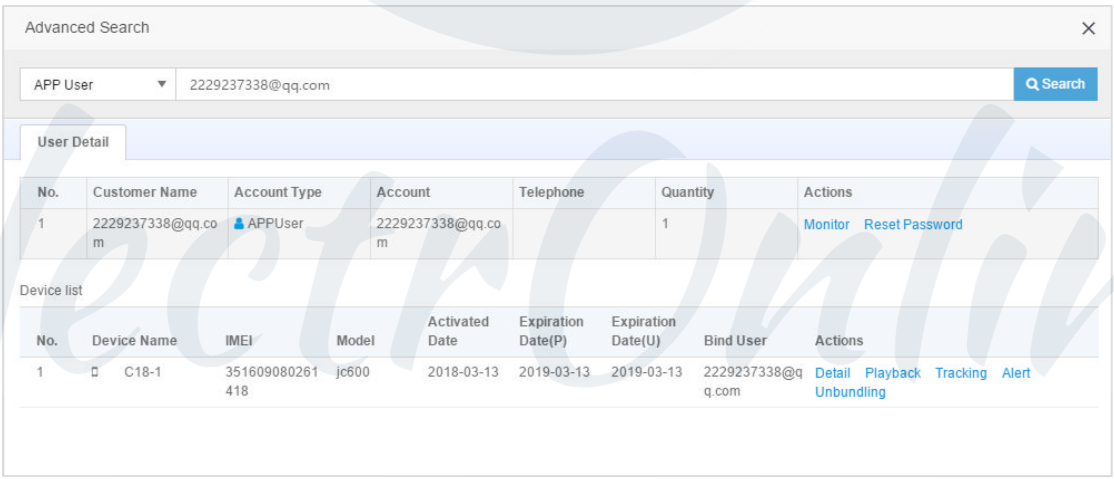


4.9.3. Search APP User

Generally, App user is registered from Apps by an email account, To search App user, User provides email account and click *Search* button to search sub-account for current login account. App user will not included in the searching results if it haven't bound a device.



Operation Links

Monitor - new page to monitor bound devices of selected App user.

Reset Password - reset App user password to initial password, 888888.

Detail - navigates to device relative 4 tabs. Identical to *Detail* link in Search Device.

Playback - new page to playback tracks of this device.

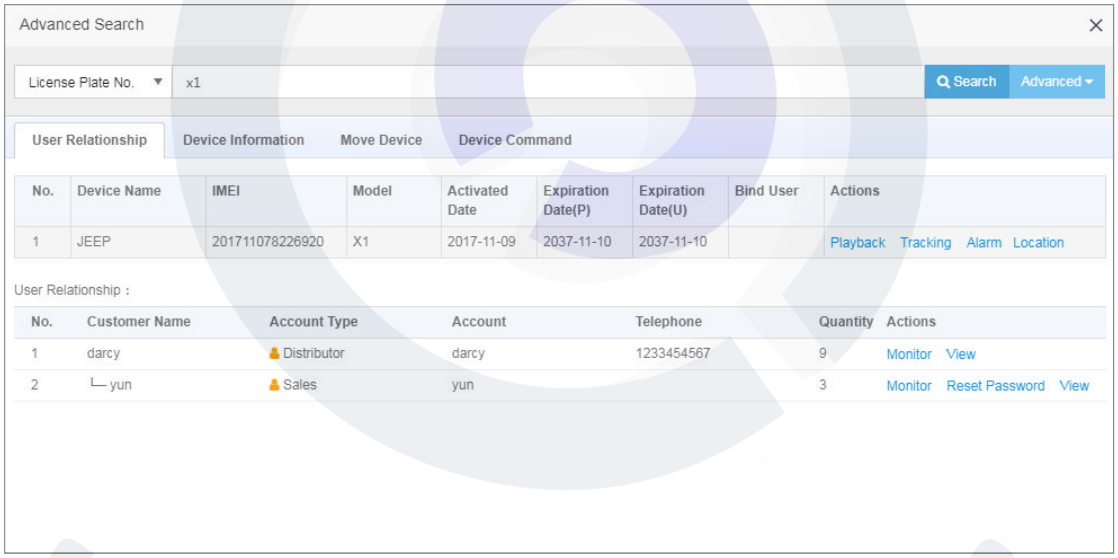
Tracking - new page to show real-time tracking of this device.

Alert - new page navigates to alert detail report.

Unbundling - unbind device from this App user.

4.9.4. Search Device by License Plate No.

This function provide a shortcut to search device by License Plate No. Identical to Search Device in previous section.



4.10 Help

Help contains business logs, login logs, feedback and release notes. You can find release notes in Help if you miss the pop up window while new version released.

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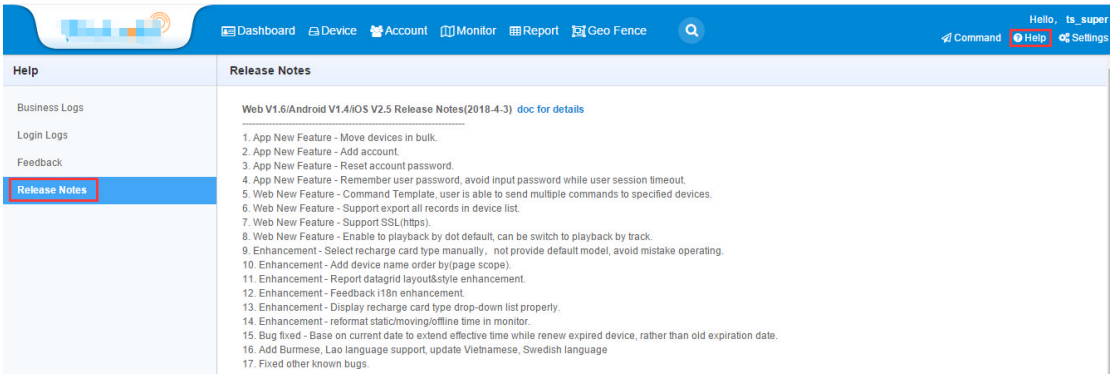


Business Logs - records operations of all devices for current login account and modification of accounts.

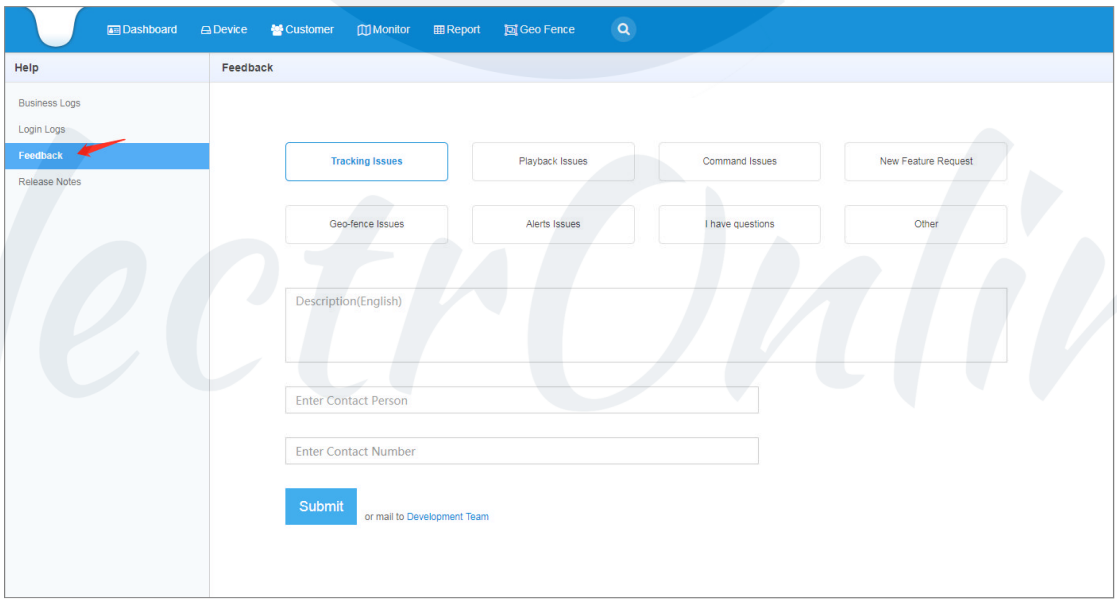
Login Logs - records the login operation of current login account.

Feedback --- For user to submit advises, request new feature, report issues and so on.

Release Notes --- Records change log for each version, it might include a user manual document.

4.10.1. Feedback

An online feedback for user to report issues, request new feature, please write the description in English, recommend to provide contact email



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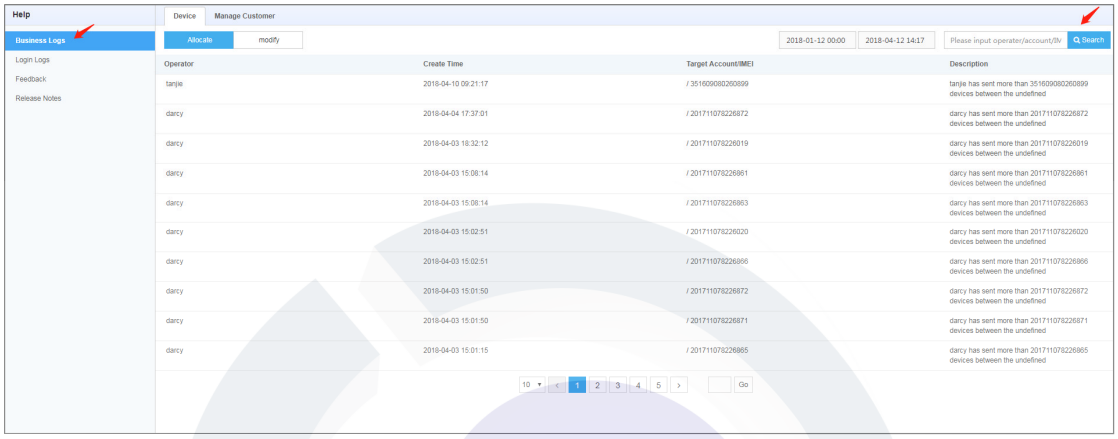
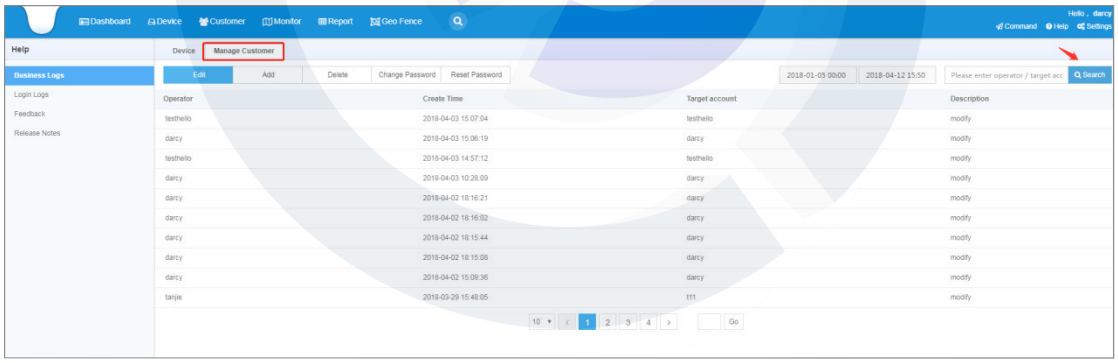
4.10.2. Business Log

Provides logs for device and account for core business operation.





4.10.3. Login logs

Display login logs for current login account.

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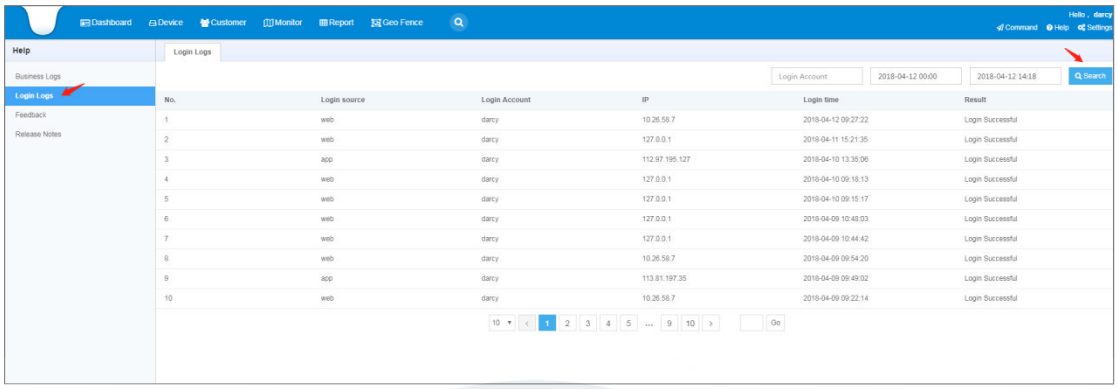
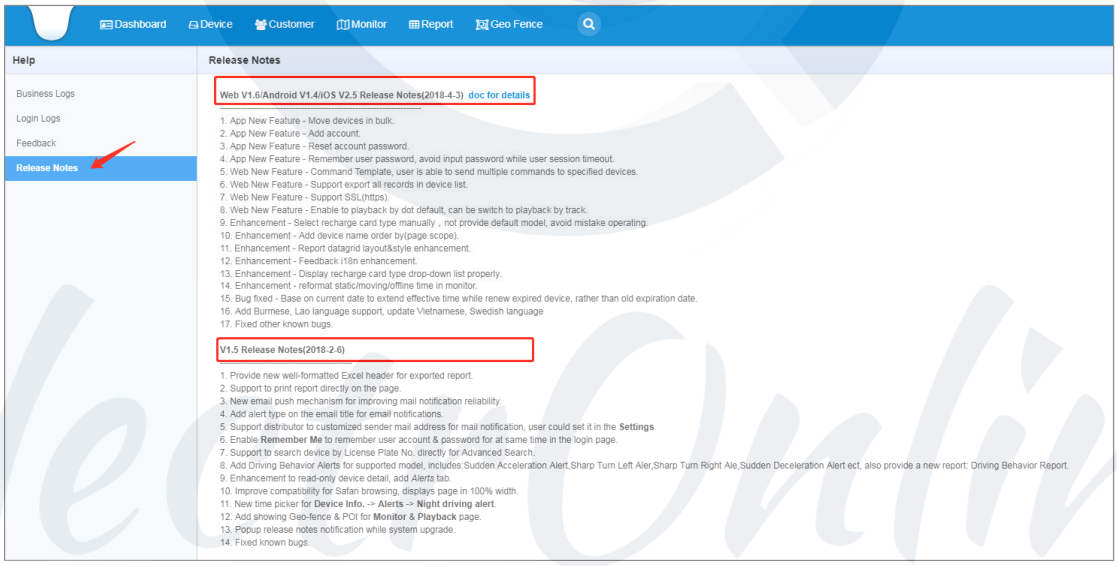


4.10.4. Release Note

Display change log for every release version, it might include a user manual(Word document) for new features. Change log pops up while new version released, if you miss it, view it in this page.



4.11 Command Management

Sometimes user need to send command to device for changing device configuration. Besides

sending command individual or in bulk, system also provides feature working mode template and command template to make it more convenient to send commands to device.

Synchronize Working Mode Task

Each operation of *Set Working Mode* in bulk(in *Device* module) is considered as a batch operation, system generates a batch number for it. *View Detail* link navigates to *Synchronize Working Mode* shows all operated devices in this batch.

Synchronize Working Mode

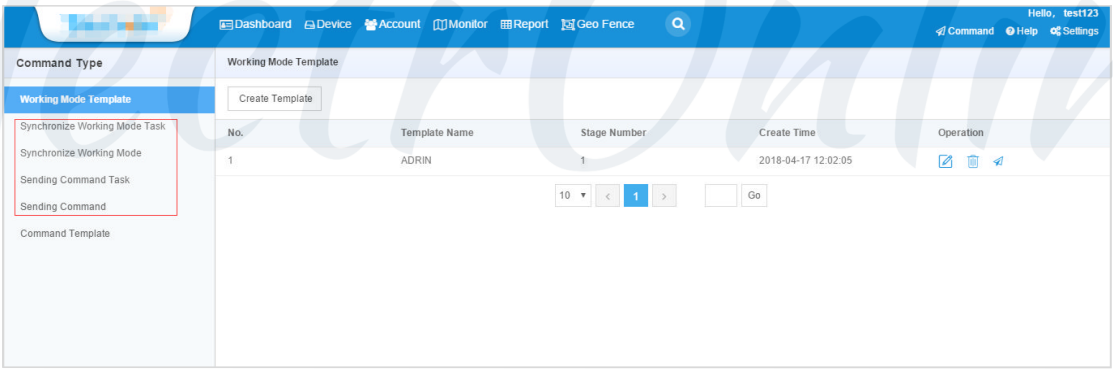
Shows details records of *Set Working Model* in bulk.

Sending Command Task

Each operation of *Send Command* in bulk(in *Device* module) is considered as a batch operation, system generates a batch number for it. *View Detail* link navigates to *Sending Command* shows all operated devices in this batch.

Sending Command

Shows details records of *Send Command* in bulk.

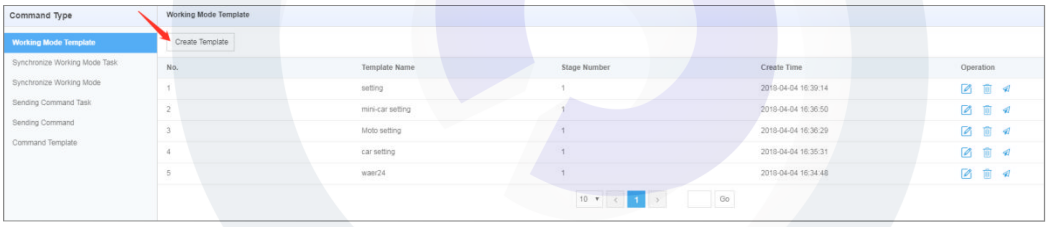


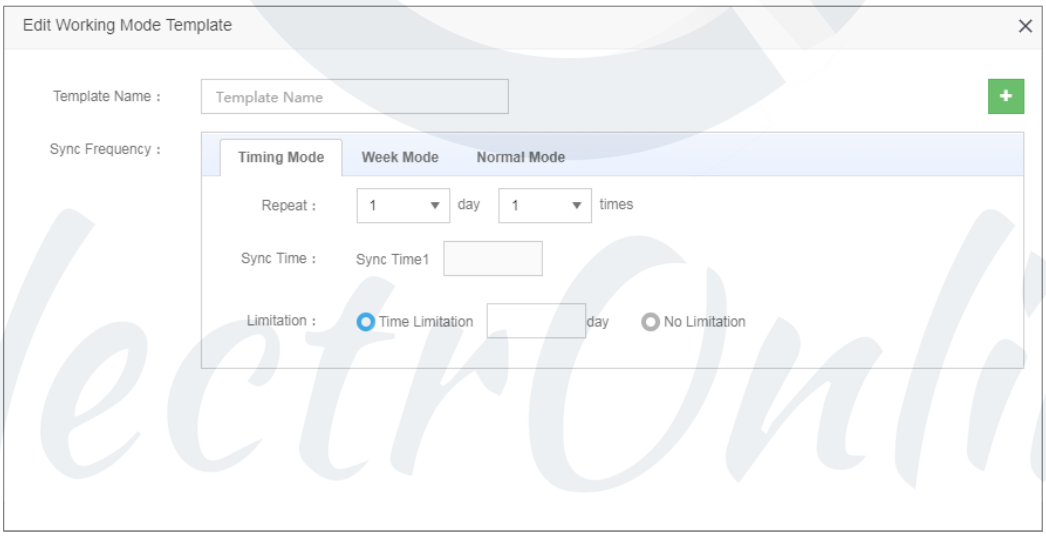
4.11.1. Working Mode Template

It's a template for set GPS data packet uploading frequency. See Working Mode for more details.

Create Template

Click *Create Template* to add a new working mode template.





Edit/Remove Template

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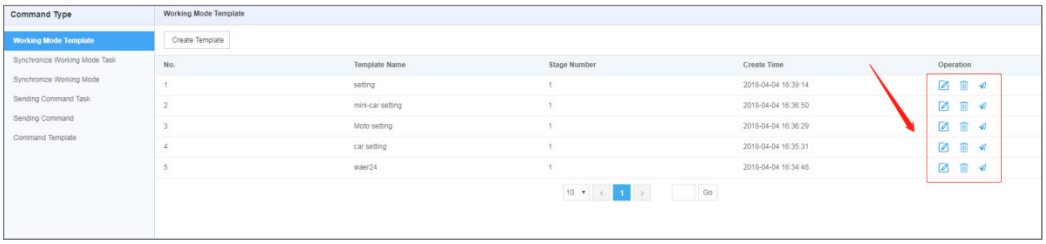
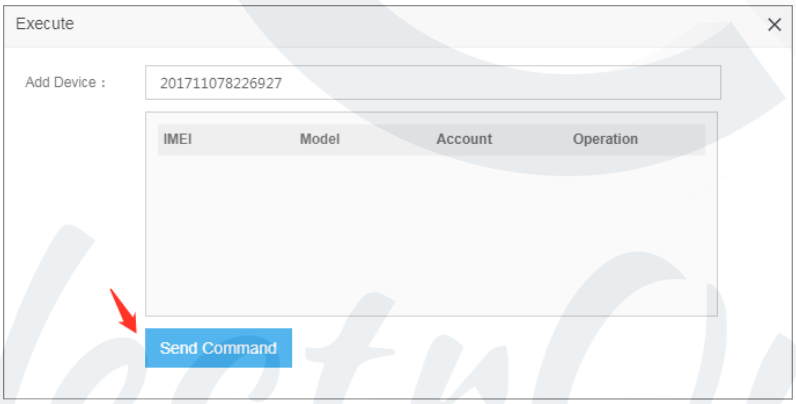


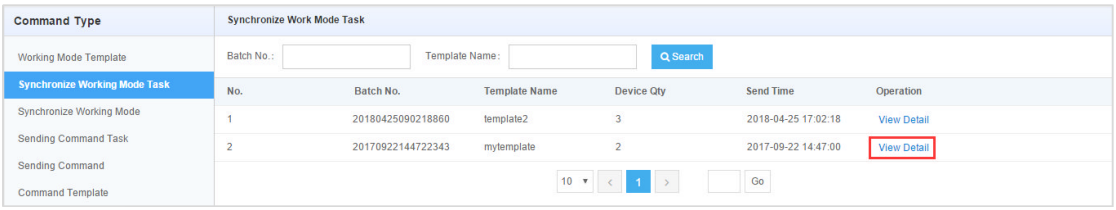
Command

Fill device(s) IMEI and Click *Send Command* send working mode command to device.

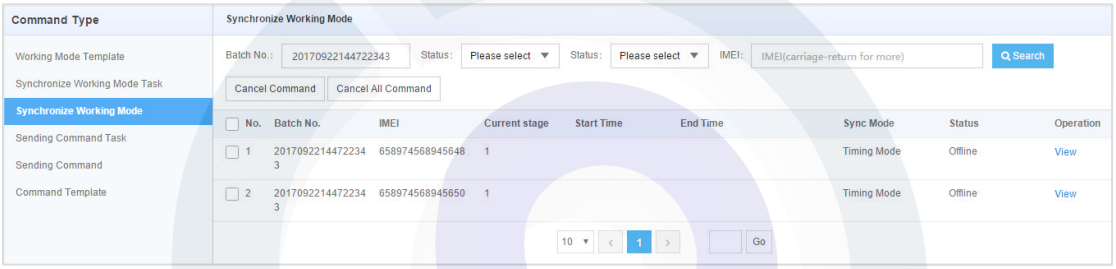


4.11.2. Synchronize Work Mode Task/Synchronize Working Mode

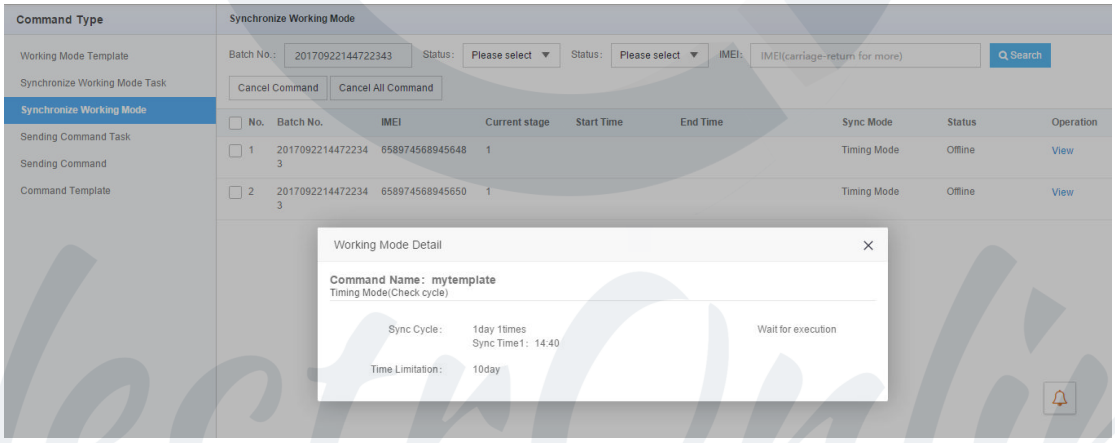
Each operation of *Set Working Model* in bulk(in *Device* module) is considered as a batch operation, system generates a record for this operation in this datagrid. The record includes following fields: Batch No. ,Template Name, Device Qty, Send Time and a link navigates to *Synchronize Working Mode to* view details of operated devices.



In this example, there are 2 devices operated in this synchronize working mode operation, Batch No. is 20170922144722343, because the device is offline, the command(Set Working Mode is a special command) is pending, therefore, there is no start time and end time.



Click view for details.



Click *Cancel Command*/*Cancel All Command* button to cancel fail/pending command.

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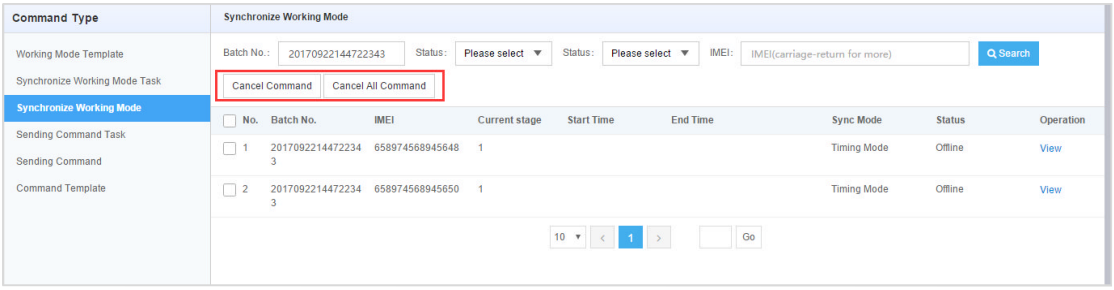
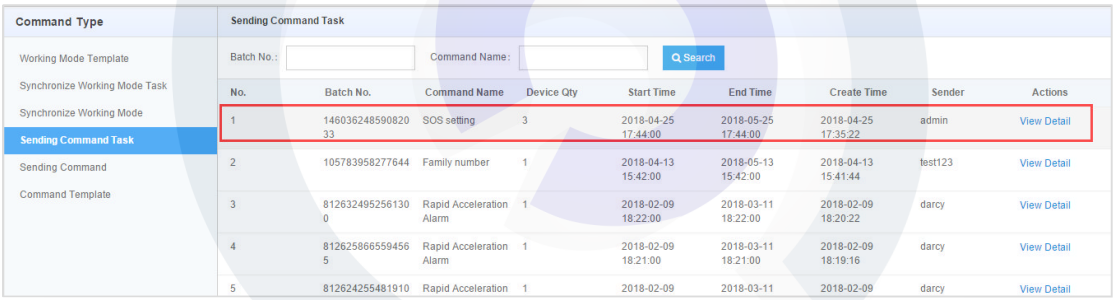
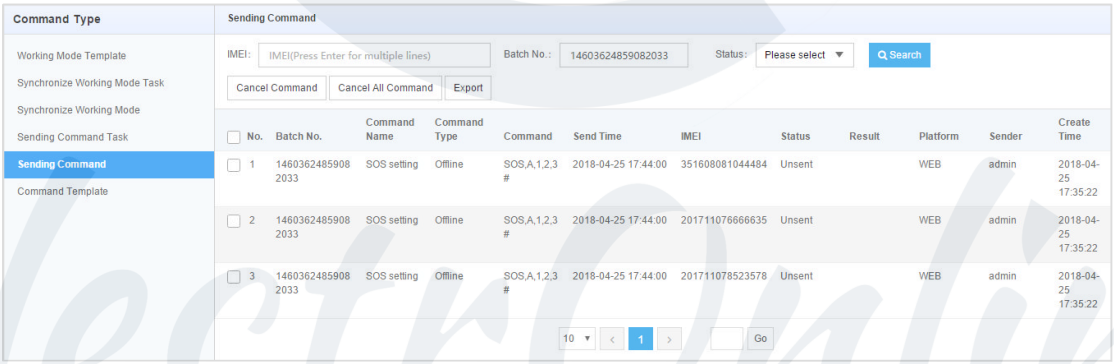


4.11.3. Sending Command Task/Sending Command

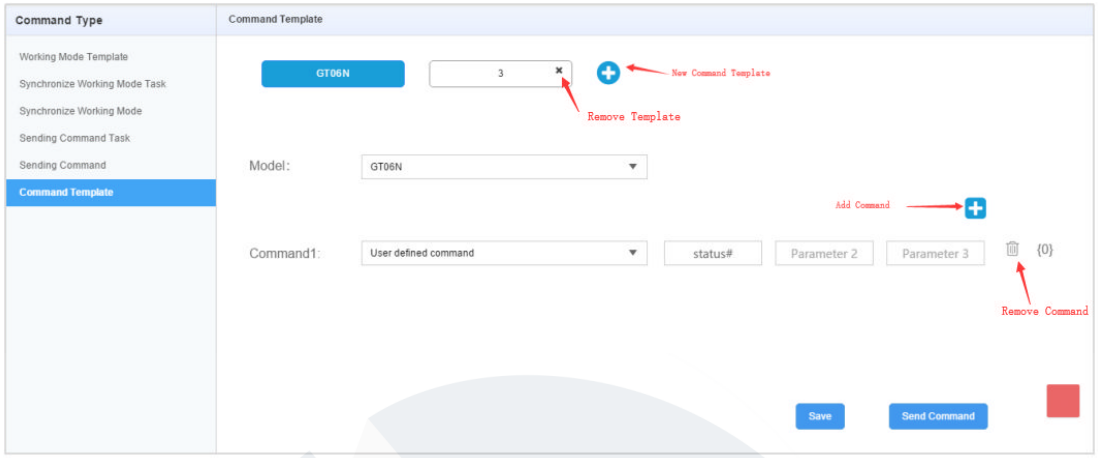
Send Command in bulk(in *Device* module) generates a record in *Sending Command Task* datagrid, click *View Detail* link, the detail operated devices will be shown in Sending Command datagrid. Command can be canceled and exported in the details datagrid.





4.11.4. Command Template

Command template is a new function supports to configure several different commands in a template and send to specified devices list, the command will be send to selected device respectively. Each account allow to create up to 5 command templates. User should select *Model* first, then add commands, provide value for parameter and save it.



After save the template, user selects devices and click *Send Command* button, a new window pops up to show the execution results, mouse over on the information icon to view the details of return results from device.

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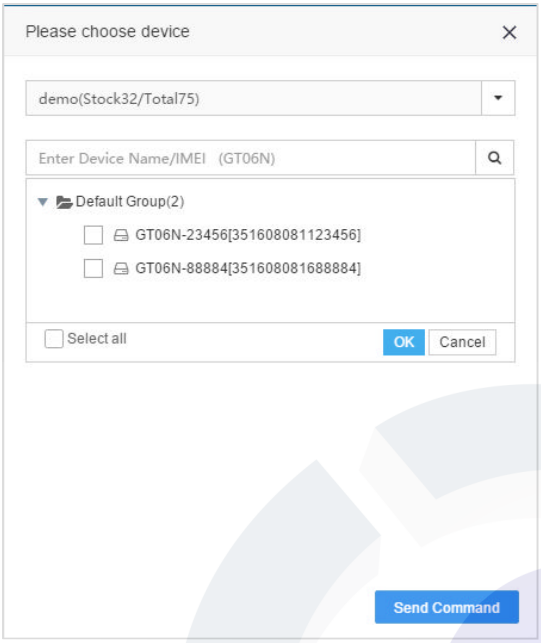

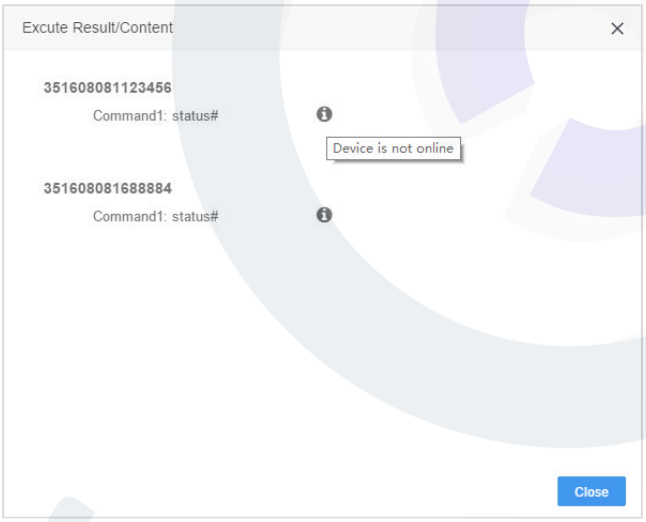

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