



MEITRACK T399L COLD CHAIN LOGISTICS SOLUTION

Combining temperature sensors, door sensor and fuel level sensor to make the cold chain logistics process transparent



Keyword :

Cold Chain Logistics

Temperature Sensor

Door Sensor

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Project Background

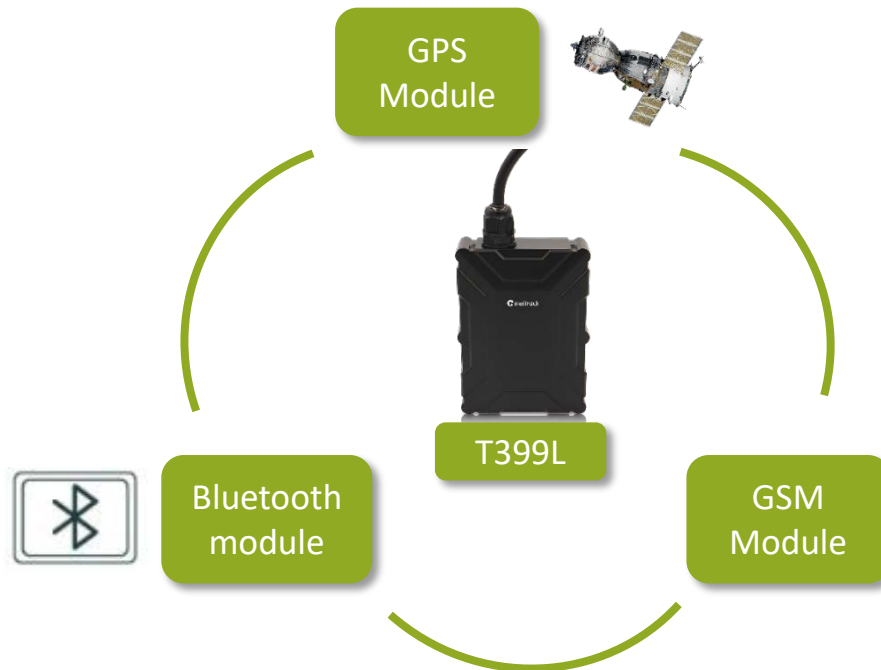
Project Background

In recent years, people's consumption demand for cold chain food has been increasing. The storage and transportation of various agricultural products, frozen foods, dairy products, etc. require refrigeration. The quality of cold chain logistics generally depends on three aspects, namely transportation time, refrigeration temperature, and the shelf life of the food itself. However, the accelerating process of globalization has led to increasingly complex operations in the cold chain logistics industry, requiring more professional and efficient information technology as an auxiliary means.



Project Background

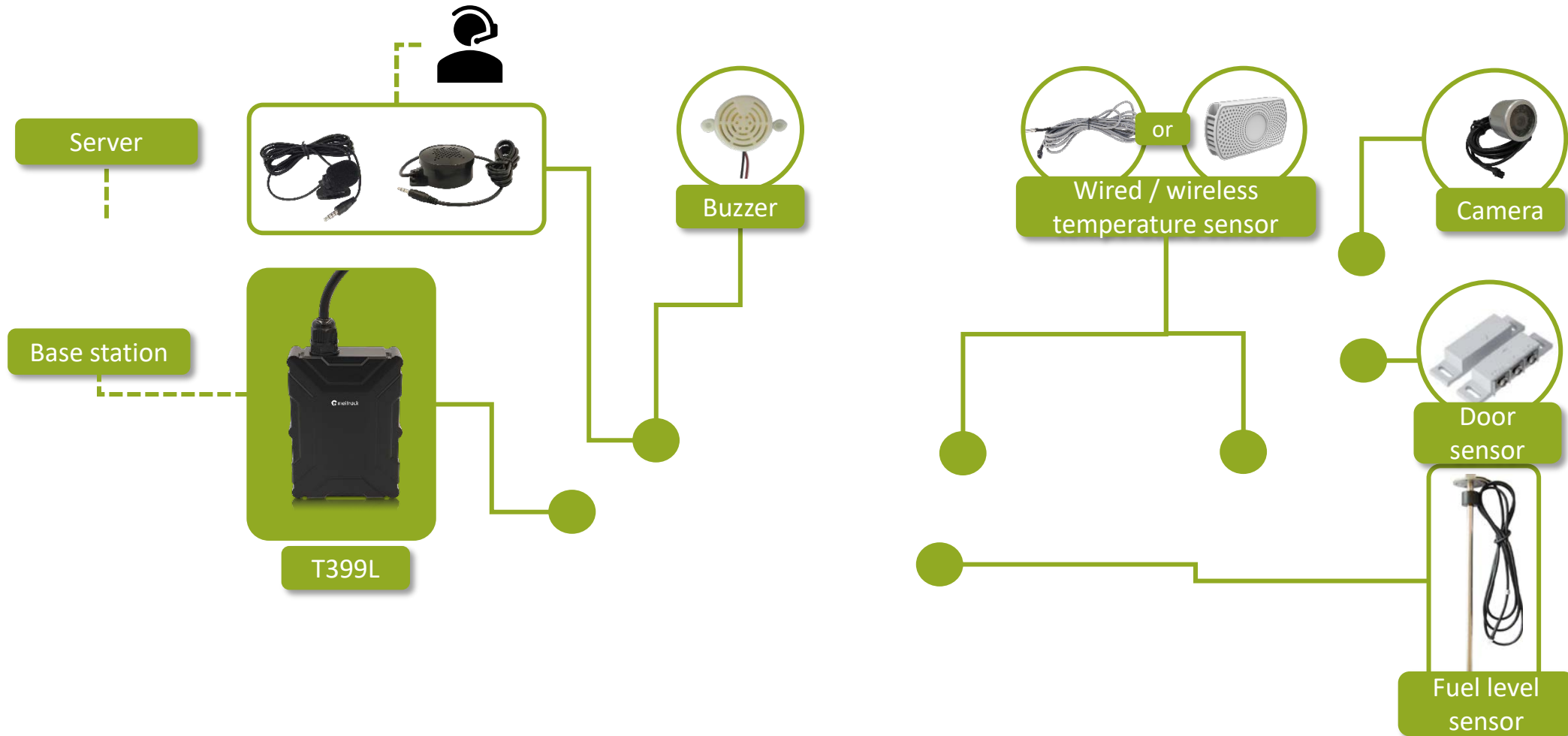
Cold chain transportation requires refrigeration throughout the transportation process, but some drivers will turn off the refrigeration machine during transportation to save fuel costs, and only turn it on at the starting point and the end point. In this way, fresh goods may deteriorate, thereby increasing the company's losses. With Meitrack's GPS tracker T399L+ temperature monitoring solution, managers can monitor the temperature of the cold storage at any time and obtain the real-time location of the transportation.



Solution



Solution



T399L can upload location information in real time. It can detect the temperature of the cold room and the fuel consumption of the truck through sensors. When an abnormal situation occurs, it will trigger the buzzer to remind the driver. Managers can view reports and uploaded photo evidence on the platform.

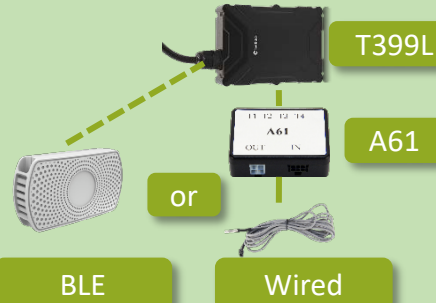
Solution

Two-way communication



If any abnormal situation occurs, the managers can contact the driver immediately

Temperature monitoring



You can choose wireless or wired temperature sensor to monitor the temperature of the cold room in real time.

Take and upload the photos



When an abnormal door opening is detected, the device will take a photo and upload it

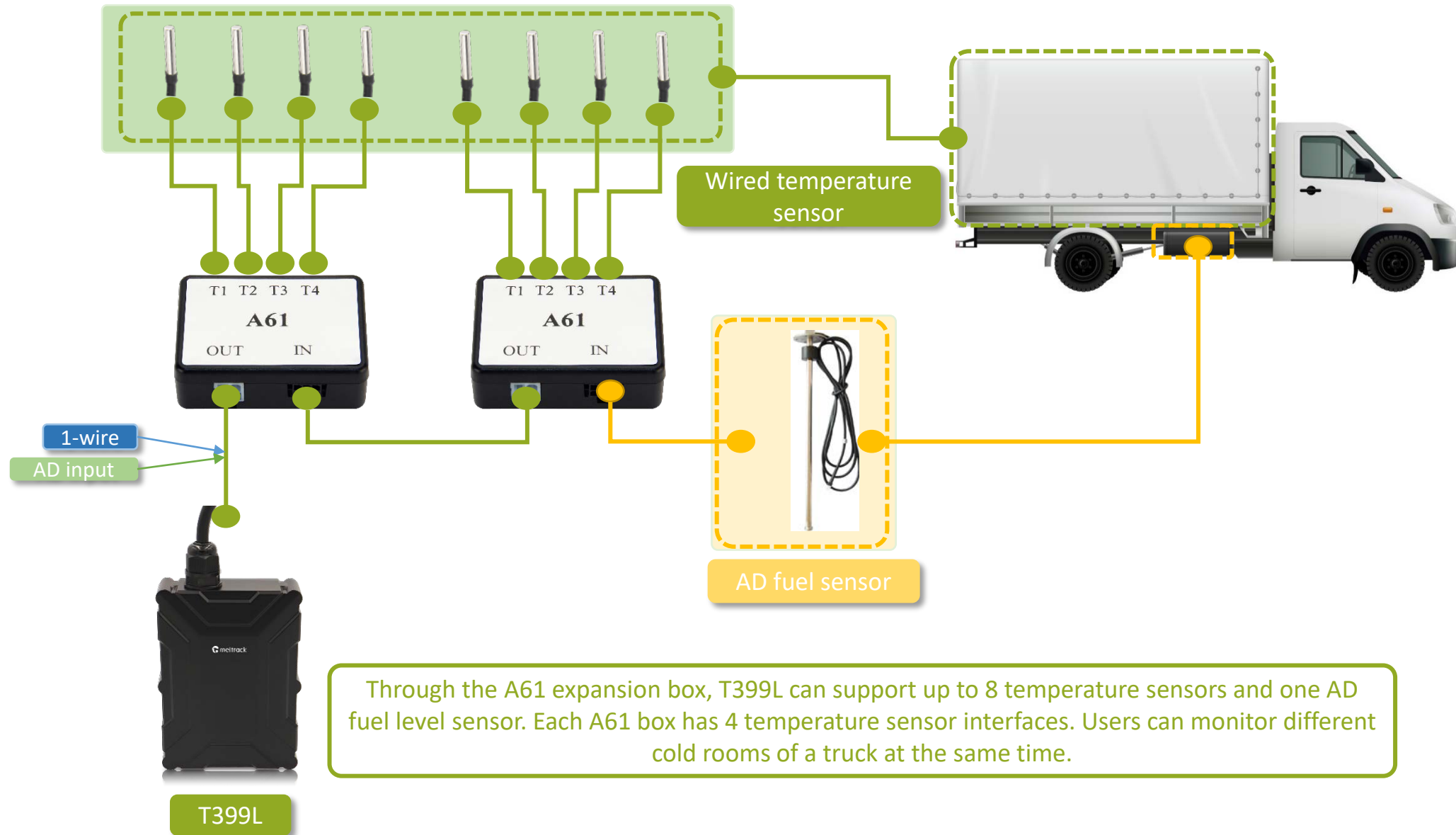
Fuel level detection



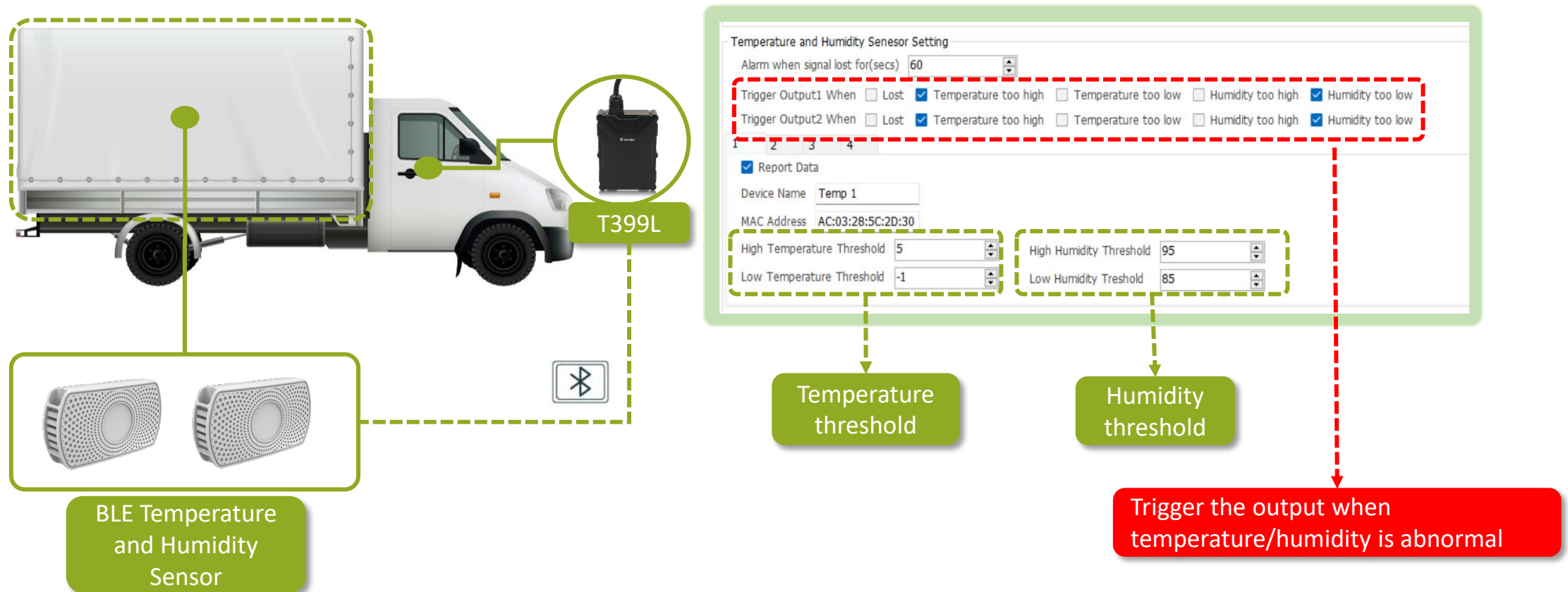
Real-time monitoring of fuel levels, uploading alarms when fuel theft or refueling is detected

By combining GPS tracker with temperature sensor, fuel sensor and camera, the cold storage temperature, fuel level and driver's driving behavior can be fully monitored. Managers can view the driver's driving record through platform reports to manage the driver's driving behavior.

Solution - Wired Temperature Sensor and Fuel Sensor



Solution - Wireless Temperature and Humidity Sensor



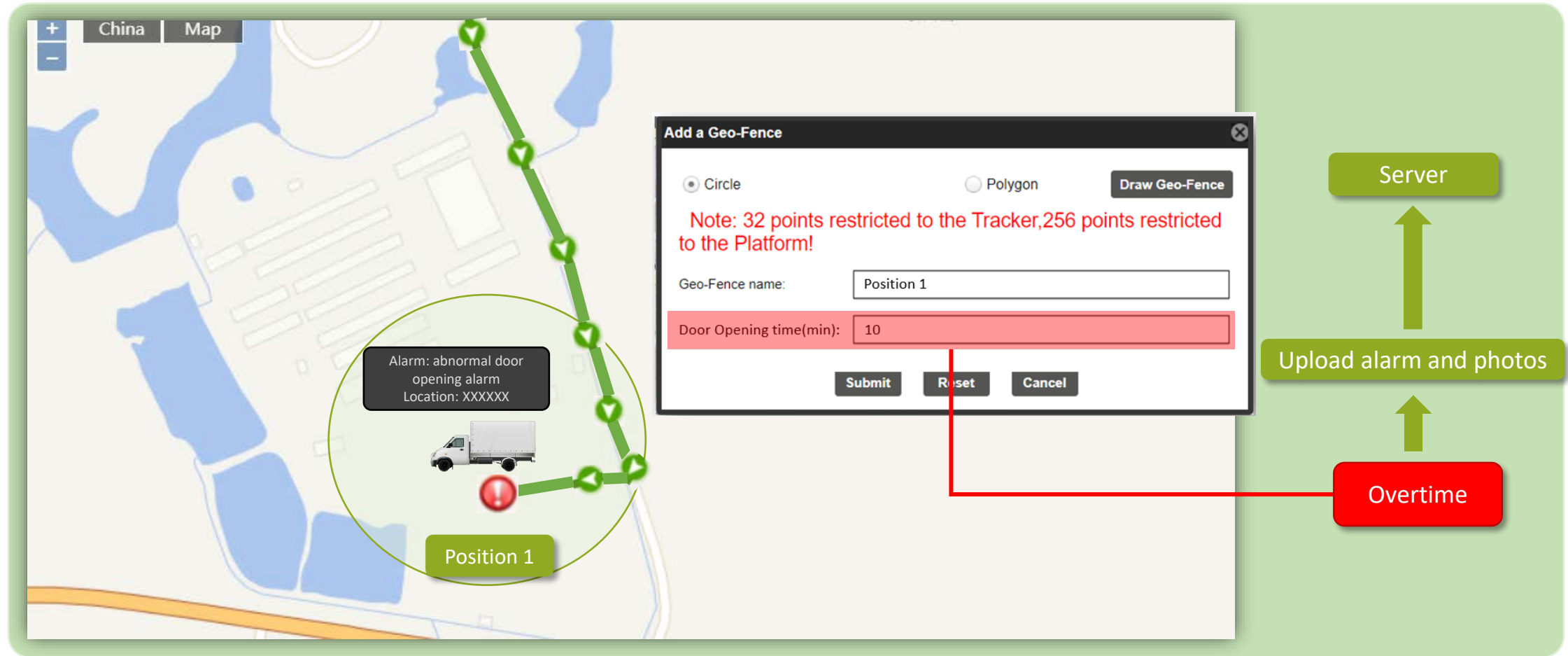
T399L can connect up to 4 Bluetooth temperature and humidity sensors at the same time. Users can configure high and low temperature thresholds and high and low humidity thresholds. When the temperature or humidity is abnormal, the device will upload an alarm and trigger the output.

Solution - Abnormal Door Opening Alarm



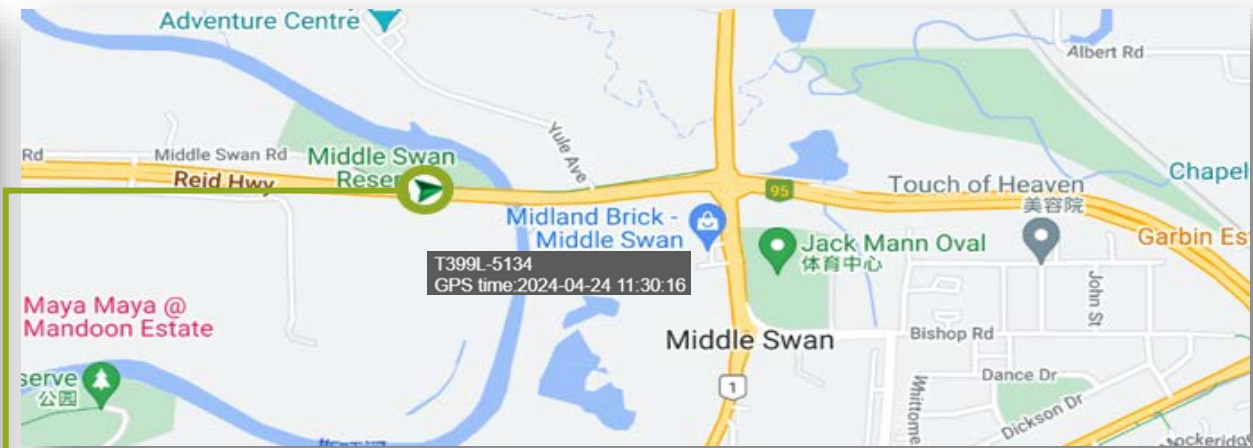
The driver is only allowed to open the door to unload in the designated area. The door sensor is used to detect the door opening status. If the door is detected to be opened outside the designated GEO-fence, an abnormal door opening alarm event will be uploaded. At the same time, the device will take pictures and upload them.

Solution - Abnormal Door Opening Alarm



When the driver opens the door to unload goods within the designated fence, the unloading must be completed within the allowed time. If the time is exceeded, an abnormal door opening alarm will be triggered. This ensures that the operator can complete the unloading in a timely manner within the specified time.

Solution - Driver Driving Behavior Monitoring



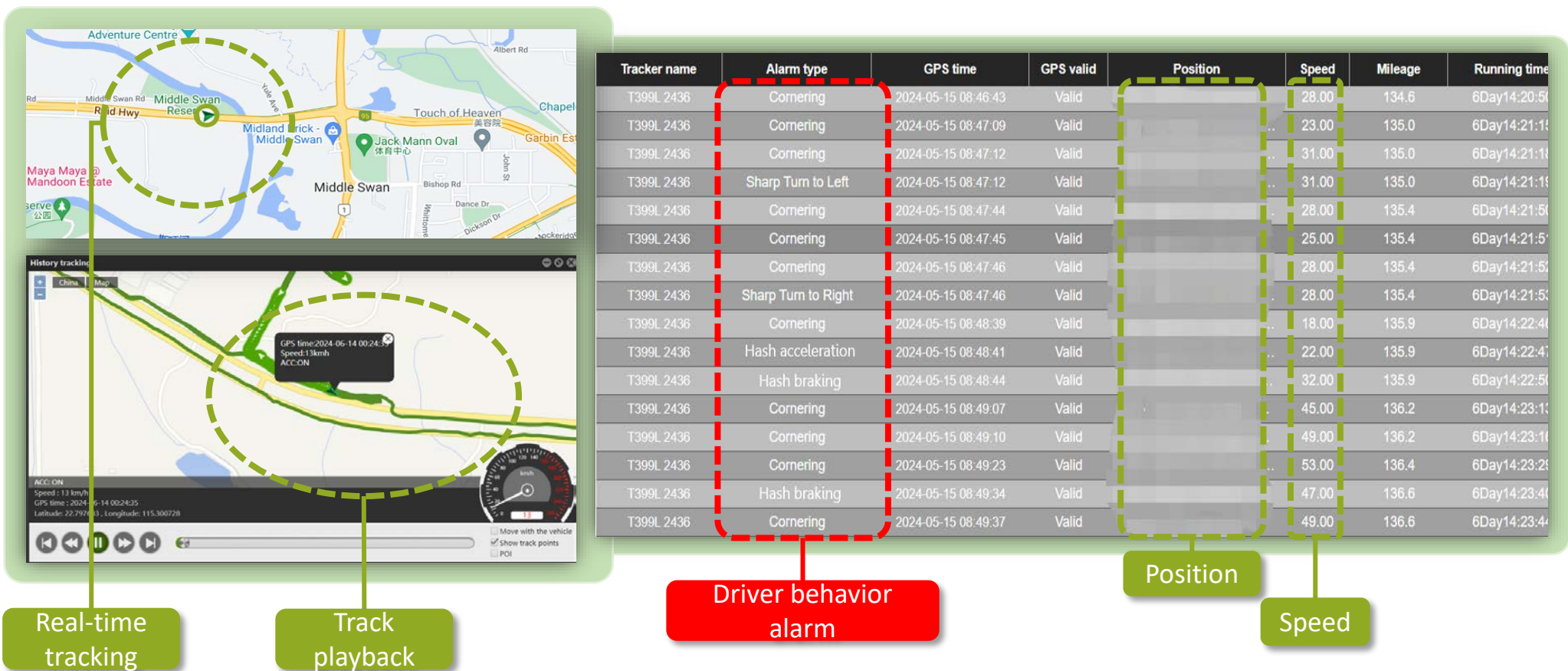
Speeding	Buzzer alarm	Upload alarm to server
Rapid Acceleration	Buzzer alarm	Upload alarm to server
Rapid Braking	Buzzer alarm	Upload alarm to server
Sharp Turn	Buzzer alarm	Upload alarm to server

T399L will use GPS information to determine the driver's illegal driving behavior, such as speeding, rapid acceleration, rapid braking and sharp turns. When the alarm is triggered, it can trigger a buzzer to remind the driver and upload the alarm record to the platform report.



Presentation

Presentation -GPS Positioning and Event Reports



The driver's illegal driving behaviors such as speeding, rapid acceleration, rapid braking and sharp turns will be uploaded to the historical data report of the MS03 platform. The manager can confirm whether the driver's driving meets the safety standards based on these records.

Presentation - Temperature Report

T399L 1309

From: 2024-03-14 00:00 To: 2024-03-14 23:59 Speed: >= 0 Address Ignore drift

GPS time	Speed	Latitude	Longitude	Altitude	Direction	Mileage	Running time	Alarm type	Temp1	Temp2	Curr
2024-03-14 11:32:51	58	22.8	115.3	32	North	45994.8	274Day20:20:17	Track By Time Interval	1.23	0.86	Mob
2024-03-14 11:33:11	57	22.8	115.3	32	North	45994.8	274Day20:20:18	Track By Time Interval	1.25	0.86	Mob
2024-03-14 11:33:31	57	22.8	115.3	32	North	45994.8	274Day20:20:19	Track By Time Interval	1.25	0.89	Mob
2024-03-14 11:33:51	56	22.8	115.3	32	North	45994.8	274Day20:20:20	Track By Time Interval	1.25	0.76	Mob
2024-03-14 11:34:11	57	22.8	115.3	32	North	45994.8	274Day20:20:21	Temperature Low	2.03	-0.23	Mob
2024-03-14 11:34:31	57	22.8	115.3	32	North	45994.8	274Day20:20:22	Track By Time Interval	1.63	0.81	Mob
2024-03-14 11:35:11	56	22.8	115.3	32	North	45994.8	274Day20:20:23	Track By Time Interval	1.23	0.83	Mob
2024-03-14 11:35:31	57	22.8	115.3	32	North	45994.8	274Day20:20:24	Track By Time Interval	1.13	0.86	Mob
2024-03-14 11:35:51	55	22.8	115.3	32	North	45994.8	274Day20:20:25	Track By Time Interval	1.23	0.85	Mob
2024-03-14 11:36:11	55	22.8	115.3	32	North	45994.8	274Day20:20:26	Track By Time Interval	1.33	0.86	Mob
2024-03-14 11:36:31	52	22.8	115.3	32	North	45994.8	274Day20:20:27	Track By Time Interval	1.24	0.84	Mob
2024-03-14 11:36:51	51	22.8	115.3	32	North	45994.8	274Day20:20:28	Track By Time Interval	1.25	0.76	Mob
2024-03-14 11:37:11	50	22.8	115.3	32	North	45994.8	274Day20:20:29	Track By Time Interval	1.23	0.77	Mob

GPS Time

GPS Speed

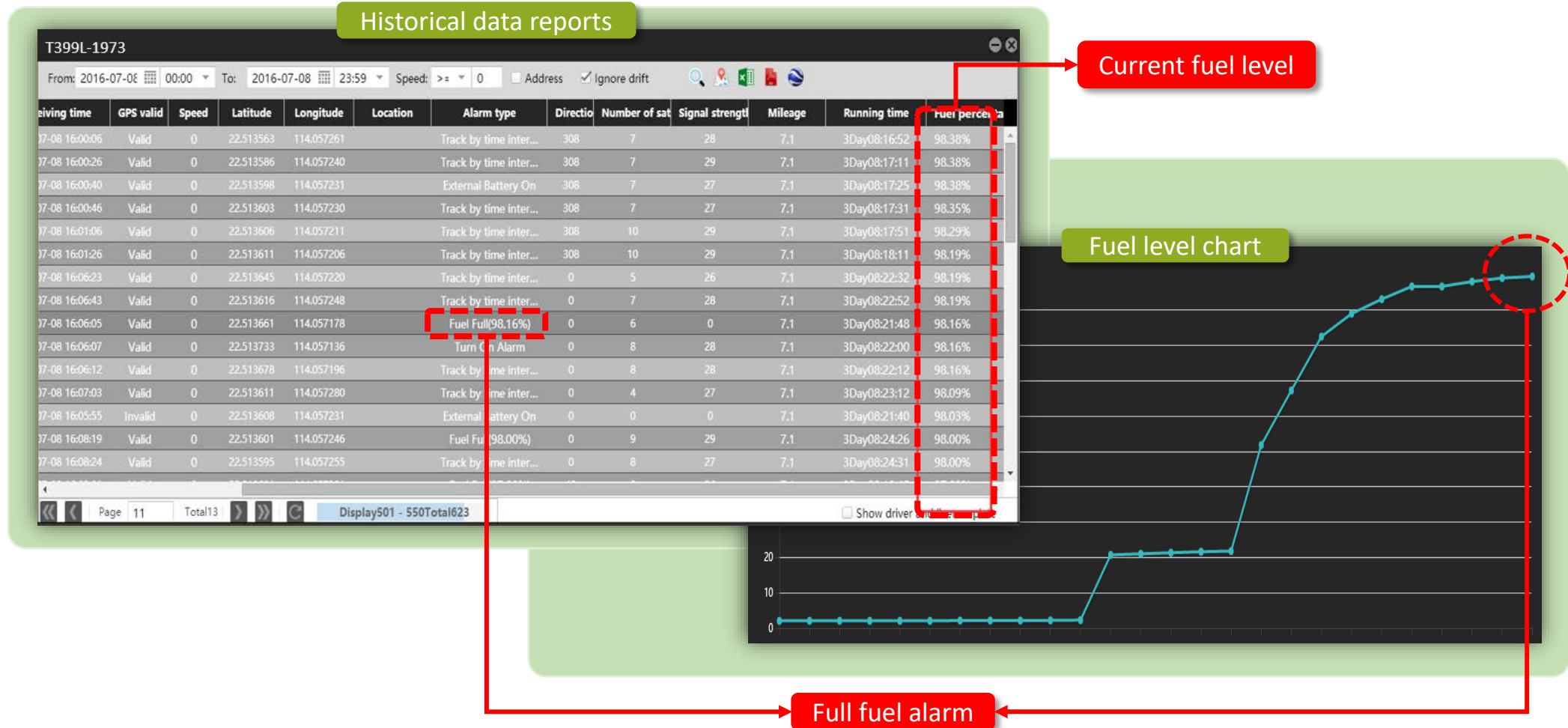
Position

Low temperature alarm

Temperature value

When the temperature is abnormal, such as the temperature exceeds the maximum temperature threshold or falls below the minimum temperature threshold, a temperature high alarm or a temperature low alarm will be generated. These alarms will be uploaded to the MS03 platform and can also trigger the buzzer in the cab to prompt the driver to check in time.

Presentation - Temperature Report



Use the fuel level sensor to monitor the vehicle's fuel consumption to prevent fuel theft. At the same time, the MS03 platform will record the fuel consumption of each trip.

Presentation - Photo Report

Photo Report







Photo report


Photo report

Quick time


From: 2024-04-02 00:00 To: 2024-06-14 23:59




Please select a tracker.




T399L 1905
2024-05-20 10:49:28
20240520104928_CH1




T399L 1905
2024-05-20 11:01:25
20240520110125_CH1




T399L 1905
2024-05-20 11:11:17
20240520111117_CH1




T399L 1905
2024-05-20 11:23:46
20240520112346_CH1




T399L 1905
2024-05-20 12:11:37
20240520121137_CH1




T399L 1905
2024-05-20 15:47:53
20240520154753_CH1



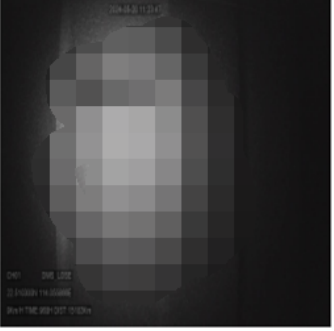
T399L 1905
2024-05-20 17:33:02
20240520173302_CH1



T399L 1905
2024-05-20 18:17:20
20240520181720_CH1



T399L 1905
2024-05-20 18:30:18
20240520183018_CH1



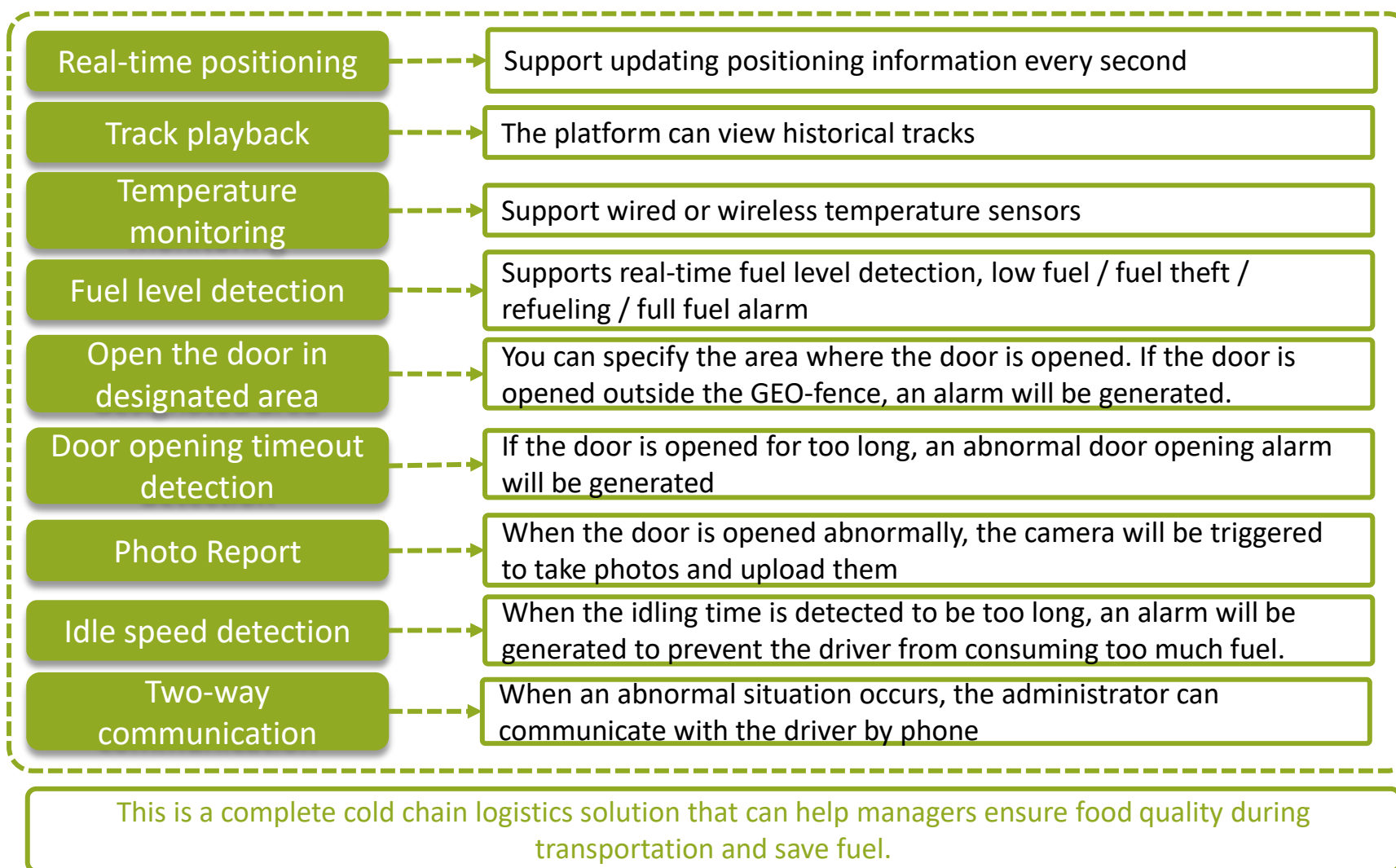
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Capture time: 2024-05-20 11:23:46
Photo name: 20240520112346_CH1_P

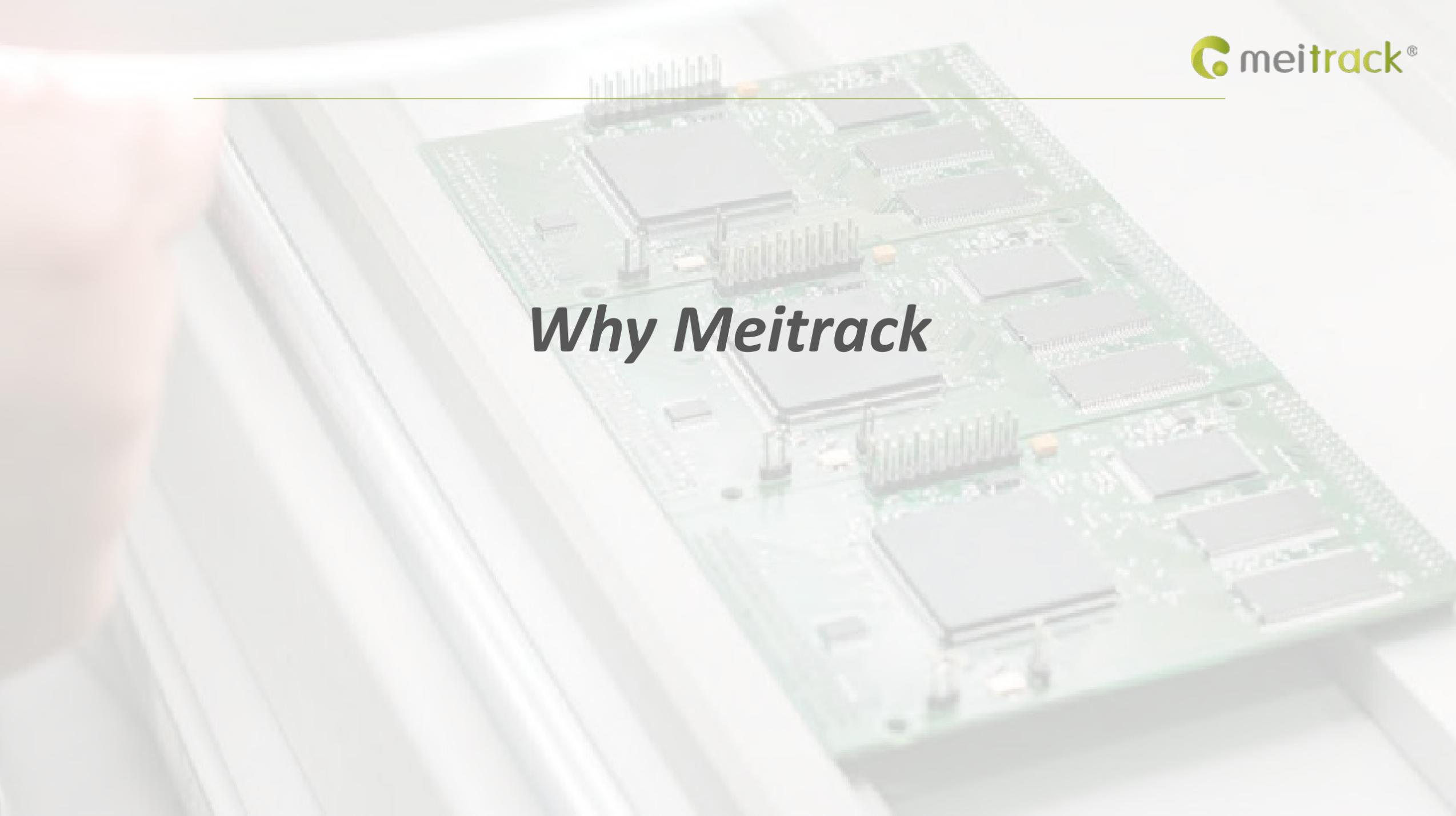
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When an abnormal event occurs (such as abnormal door opening), the RS232 camera can be triggered to take a photo and upload it to the MS03 photo report as picture evidence

Presentation - Advantages





Why Meitrack

Professional

Meitrack has been continuously developing in the GPS field for 20 years, the stability and functionality of the products have been tested by the market for a long time



Good Service

Meitrack's aim has always been to focus on the customer and to provide the highest quality service

Customizability

To provide customers with the functional customization to meet the needs of the project, it is not only a sense, but also a capability



Innovation consciousness

We are not afraid to push our limitations and are willing to innovate to adapt to the changing markets

 meitrack™ | THANKS

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