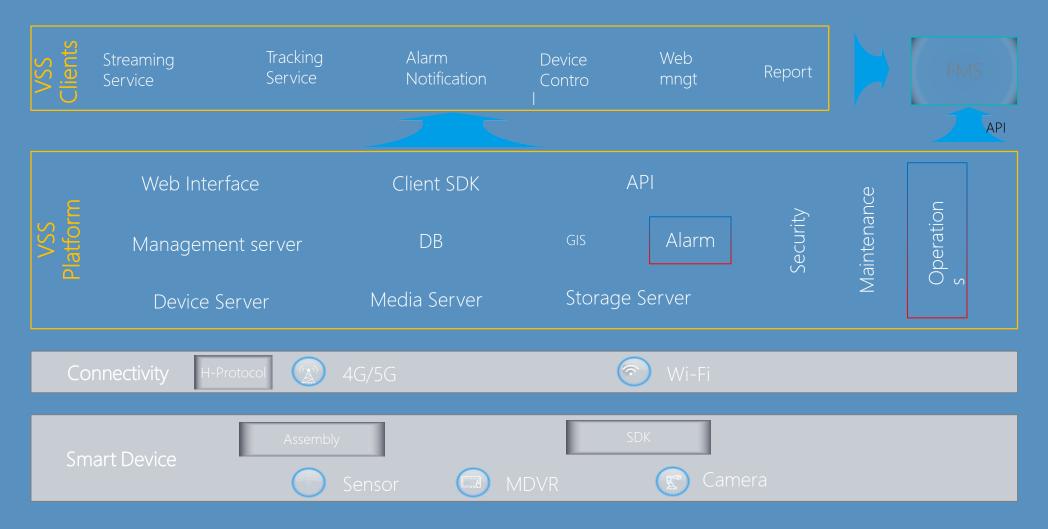


Controltech Vehicle Service Software

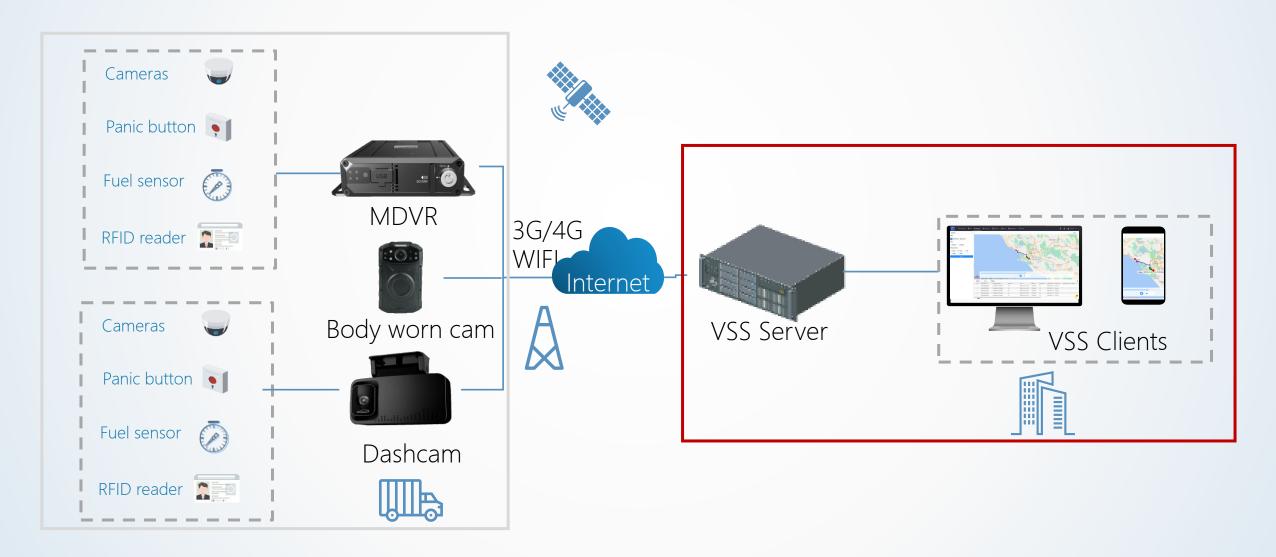


Advanced & reliable software designed for video telematic systems, managing diversified devices and offering best user experience

End-to-End System, as "Turn-key" Solution



Controltech VSS software is the Core in Controltech end-to-end vehicle service system.

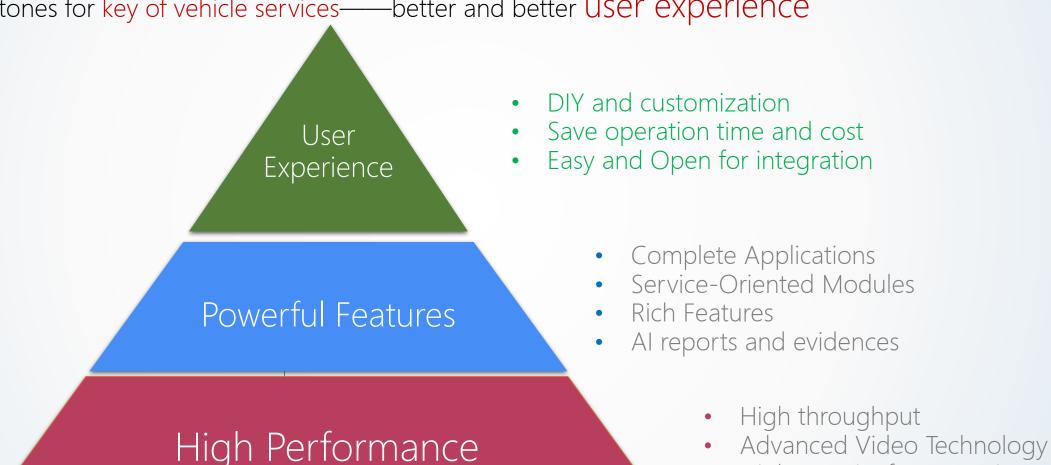


Key Advantages of VSS



High security for operation

Controltech VSS software featured with power features and high performance, which form the base stones for key of vehicle services—better and better USEr experience





User Experience

Powerful Features

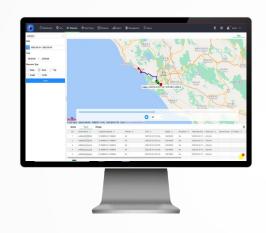
High Performance

Multiple and Complete Clients



- Support both C/S and B/S structures
- Rich and complete clients, to meet demands of management in multiple scenarios









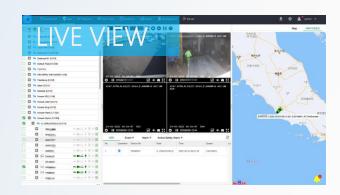
Desktop client

Web browser client

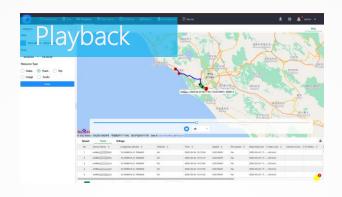
VSS player

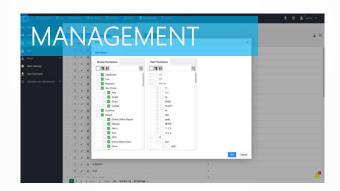
Complete but Simplified interfaces



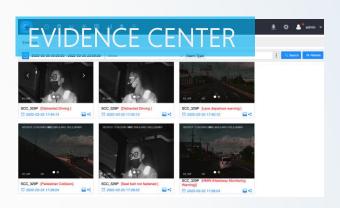


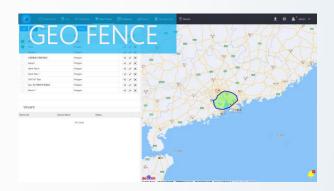












Service-Oriented Modules



VSS is designed for, and highlighted with, 3 major Modules, focusing on the 3 key factors in video telematics.







Driver Management

Diversified Driver Attendance

Driver database

Driver Behavior

Easy Driver Dispatch

Evidence

Vehicle Management

Vehicle health management

Vehicle control

Mileage counting

Device Management

Device Live health monitoring

Batch upgrade

Batch configure



Driver Attendance





- Multiple ways to authorized driver ID
- Attendance report in VSS











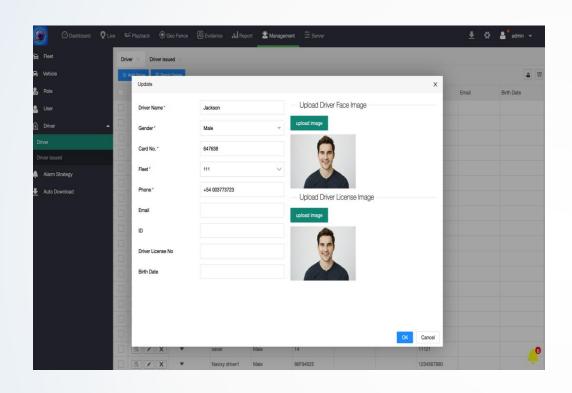


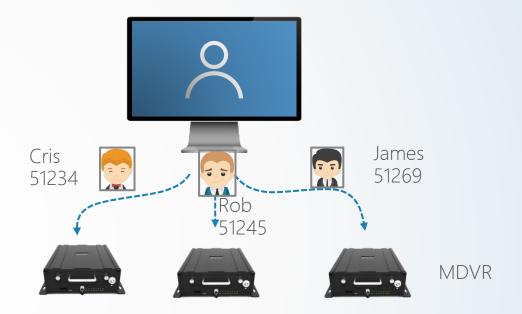
More convenient driver attendance management



Batch Update Driver Info Remotely







- Driver image, name, ID
- Issue to offline device



Driver Behaviors Monitoring





- Events auto pushed to VSS;
- Evidence Center management
- Alarm linkage in VSS



Reckless Driving

- Harsh Braking/acceleration
- Harsh Cornering[NEW]
- G-sensor based/GPS Based
- Over speed, low-speed
- Idle
- CAN bus base *
- Auto detect installation direction



Fatigue/Distraction

- Smoking
- yawning
- Phone call
- Distraction
- Eye closed
- No Seatbelt



Driving Assistance

- Lane Departure Warning
- Pedestrian Collision Warning
- Too close Warning
- Vehicle ahead start
- Forward Collision Warning



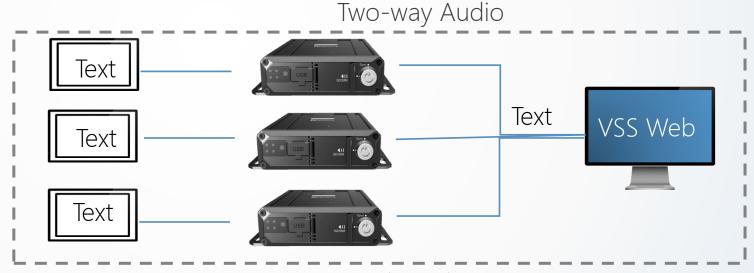


Clients launch a two-way audio talk with MDVR/Dashcam.

VSS PC/Web

Clients can issue text message to several MDVR and display on their

monitors at the same time.



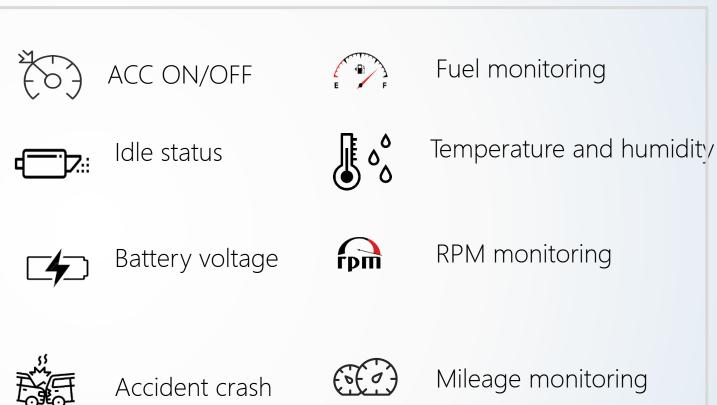


Text broadcast Fast dispatch, Improve operation efficiency

Vehicle Health Monitoring



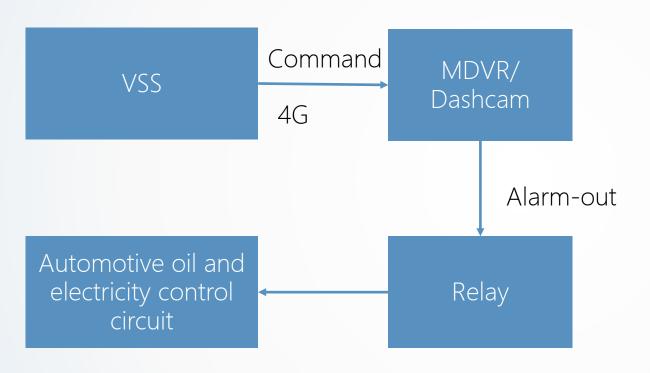






Now you know how your vehicles doing





Vehicle control

- Fuel cut off
- Fuel cut recovery
- Power cut off
- Power cut off recovery

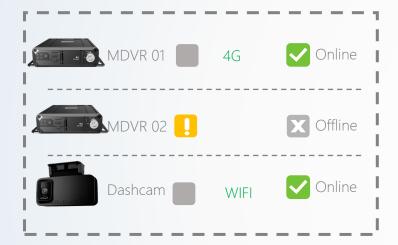


Control the vehicle in time remotely when meet emergency



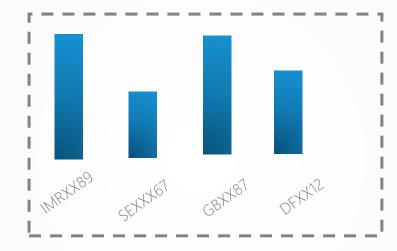
Device Status Statistics



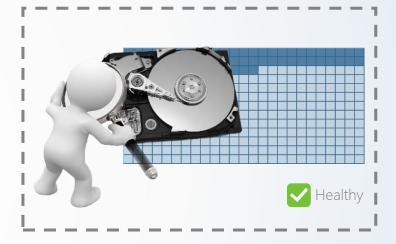


Device Status

Easily check status of devices



Flow Usage Status
Directly show flow usage status



Hard Disk/SD Card Status
Monitoring hard disks/SD card for
failures

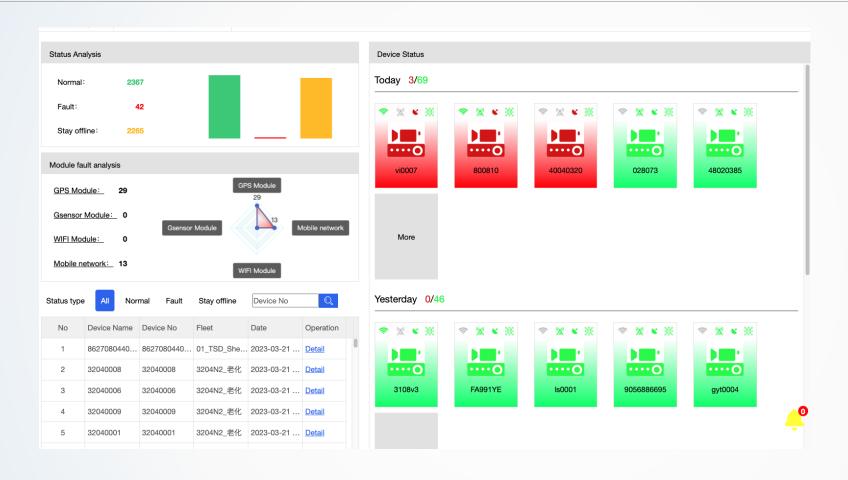


Catch the device exceptions



Device Status Statistics



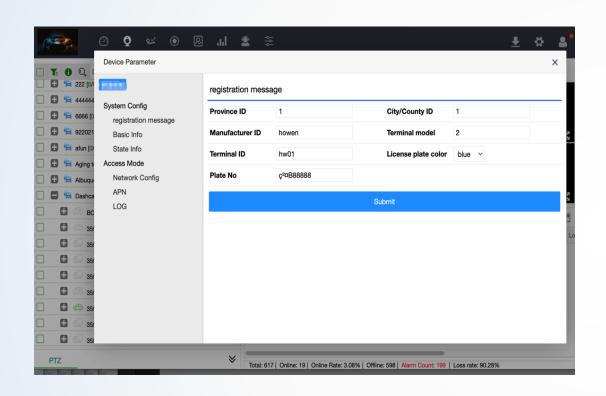


Device Live Status Dashboard Graphical chart and modules status details, easy to review



Single Device Parameter Setting







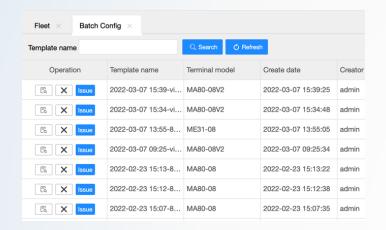


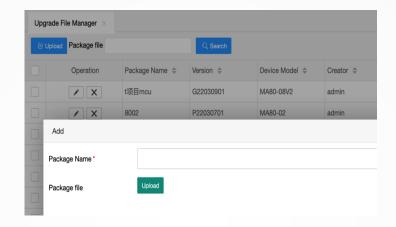
Easy check device parameters setting in Web Or desktop client

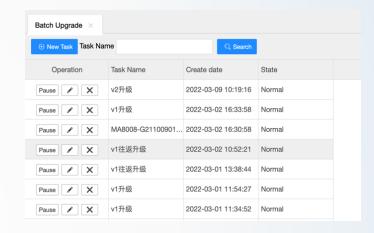


Easy Batch Device Maintenance









Batch config

Upgrade file management

Batch upgrade

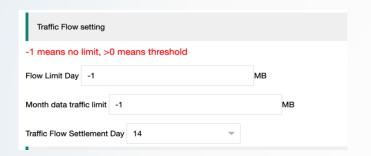


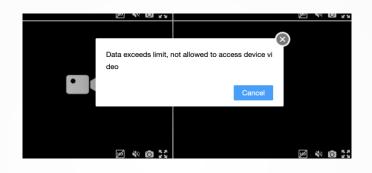
- Batch devices management at the same time.
- Easier and more efficient

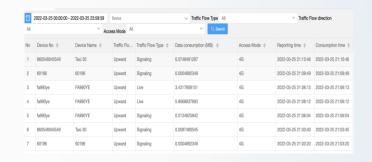


Smart Data Flow Control









Threshold setting

Over flow tip message

Statistical report



Control the flow usage, save the money

Highlighted Features



Useful and Unique features for best operation experience

Video

Cloud Recorded Video Multi-channel Synched Playback Multi-channel Video File Merge

Location

Quicker Position tracking Local GEO Fencing

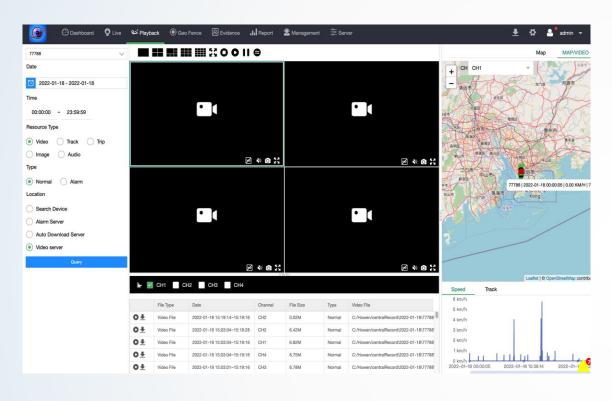
Alarm

More Alarm Linkage Convenient Evidence Center

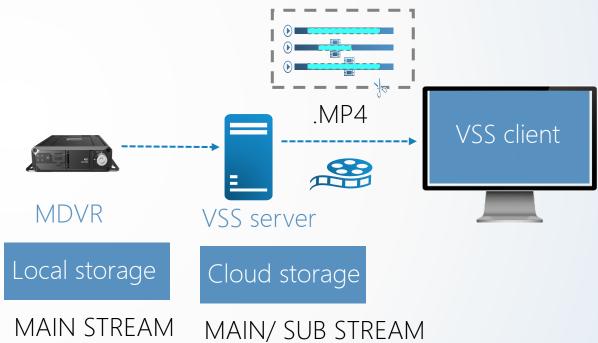


Cloud Recorded Video





- Recording in VSS server for backup
- > Quick search and download



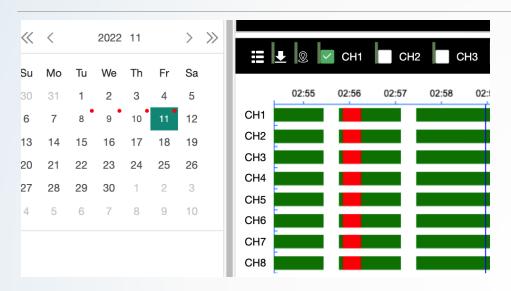


Cloud and edge storage, quick export

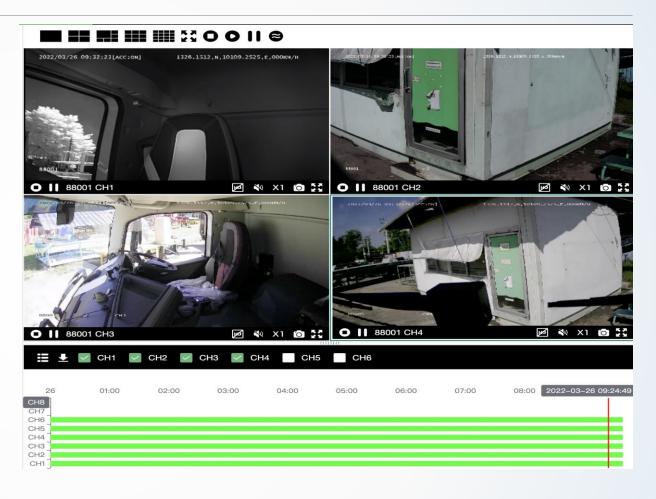


Multi-channel Search& Synched Playback





- Red color for alarm record
- Green color for general record
- Searching for Device recording distribution by month

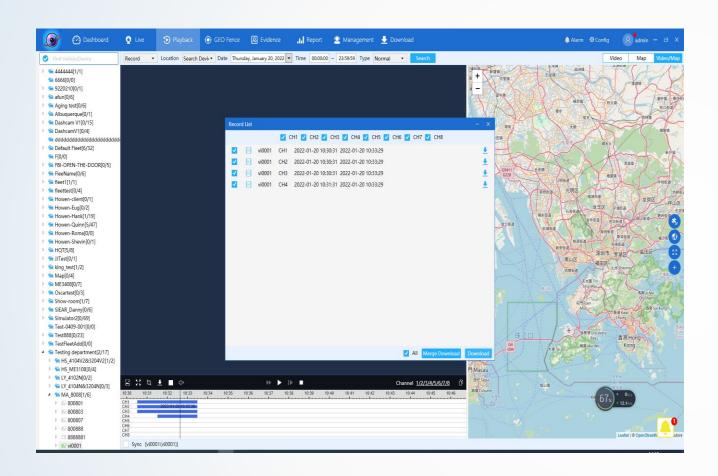


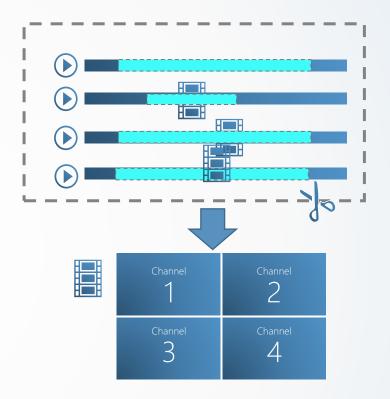
Multi-channel video playback at the same time with same video frame.



Multi-channel Video File Merge







- ➤ Merge multi-channel to one video file
- > Support different resolution channel



Check more channels in the video file





IO Alarm	Speed Alarm	Storage Error ACC OFF ACC ON GPS module abnormal Front panel open Voltage GPS antenna disconnected GPS antenna shorted Trailer Freewheeling Vehicle move Trip Start In trip Trip End GPS location recover	
Input alarm Panic alarm Abnormal Opening and Closing IO output	Low Speed Over Speed Parking Overtime Harsh Acceleration Harsh Braking Low Speed Warning High Speed Warning Idle speed warning RPM exceeds		
DMS Alarm	ADAS Alarm	Video Alarm	
Fatigue driving alarm Phone call alarm	Lane departure warning	Video Lost Motion Detection Camera Cover	
Smoking Driver abnormal alarm Driver Changed Eye closed	Pedestrian Collision Frequent lane departure warning	Geofence Alarm	
Yawning DMS Camera Cover Distracted Driving Seat belt not fastened No driver Drinking water Driver shift Driver return IR-blocking sunglasses Driver identified successfully Driver identification failed Cannot detect human face	Traffic sign violation warning ADAS Speed up ADAS Speed down Traffic sign recognition event FCW (Forward Collision Warning) HMW (Headway Monitoring Warning) Left lane departure warning (DMAD01) Right lane departure warning (DMAD01) Low-speed forward collision warning (DMAD01)	Enter geofence Overspeed alarm in geofence Overspeed warning in geofence Low speed alarm in geofence Low speed warning in geofence Forbidden parking engine ON Forbidden parking engine OFF Geofence stay overtime	

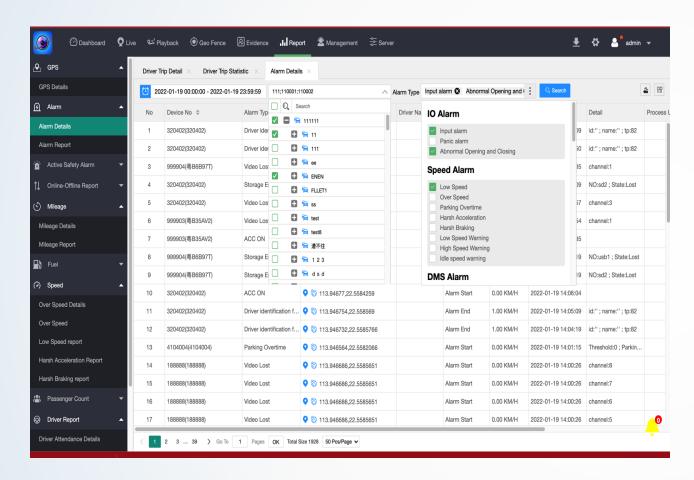


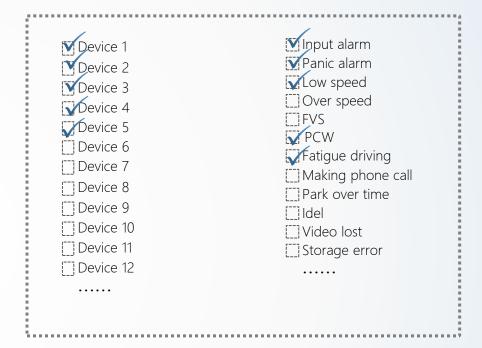
Quick search alarms as you need



Combined Alarm Query







- Multiple alarm type, Multiple device
- Ouick & flexible combined search
- In report and evidence center

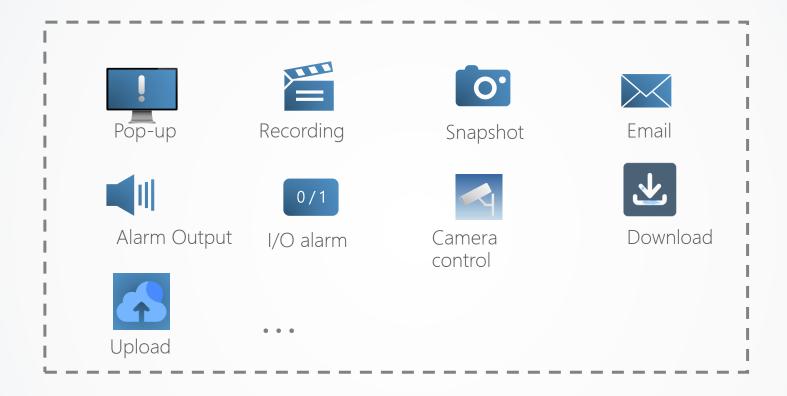


Quick search alarms as you need









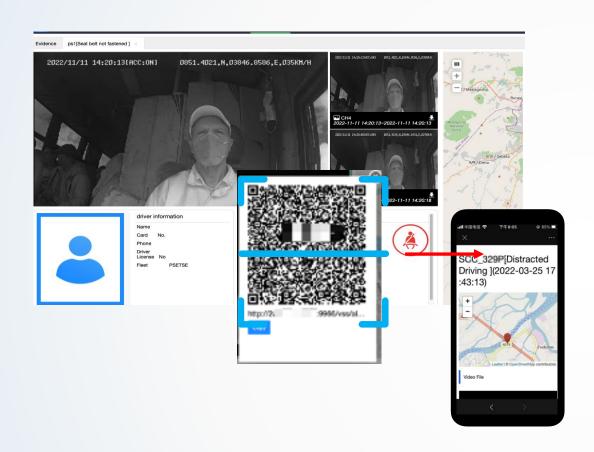


Various alarm linkage, won't miss any alarms, auto response to them



Convenient Evidence Center





- Includes of all the alarm types
- Short video clips/Snapshot/GPS route
- Quick and Combined query
- Preview/download
- icons for all alerts
- Quick evidence sharing: Set Validity ,QR code/link

Focus dealing with the evidence easy and efficiently



Quicker Position tracking



Мар			
Google Map			
Baidu Map			
Bing Map			
Google Map			
OpenStreetMap			
Google Maps (unauthorized)			

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van	ous	IVI	\vdash

- Google map
- Open street map
- Bing map
- Baidu map
- Yandex Maps*

Mileage	Trip time	Begin Time	End Time
4	00:01:22	2022-03-24 20:21:37	2022-03-24 20:22:59
4374	00:04:42	2022-03-24 19:37:21	2022-03-24 19:42:03
16	00:00:01	2022-03-24 19:35:53	2022-03-24 19:35:54
44	00:00:04	2022-03-24 19:35:48	2022-03-24 19:35:52
10955	00:16:20	2022-03-24 19:19:27	2022-03-24 19:35:40
78	00:03:59	2022-03-24 19:02:22	2022-03-24 19.00.21

Trip tracking

- Trip report
- Trip playback
- Alarm points indicate
- Mileage counting



Smart Geo fence

- MDVR locally
- Rich rule settings and linkage
- Import/export
- Batch issue to multi vehicles
- Alarm report

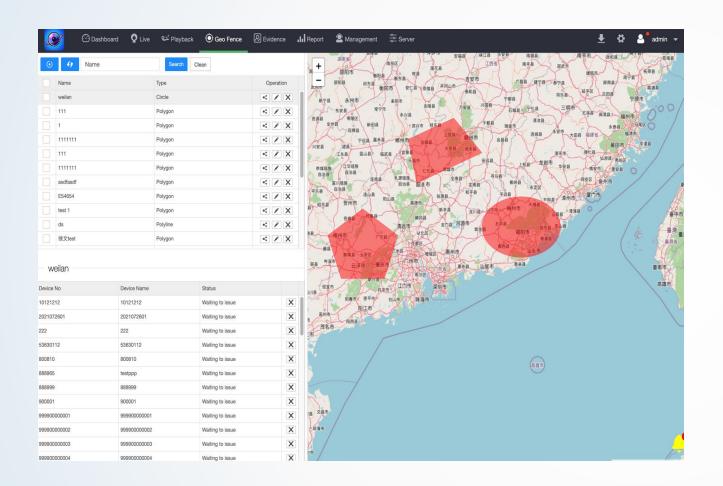


Catch every position and every trip



Local GEO Fencing linkage





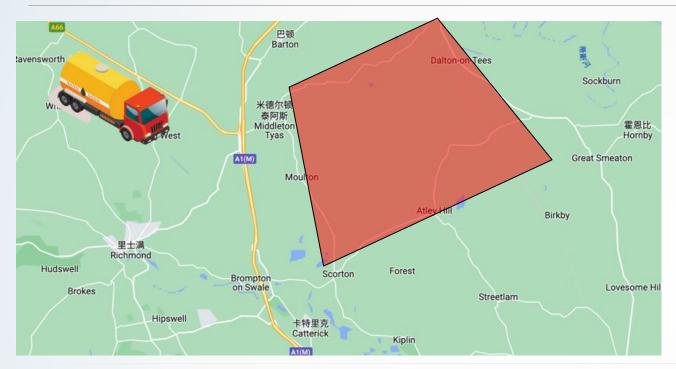


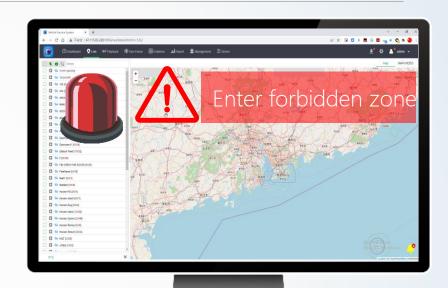
- Support batch issue to offline device
- Delivery status display
- More linkages optional
- Import/export



Flexible Local GEO Fencing linkage







- > GEO configuration stored in MDVR locally, works when device offline
- > Entry/ exit Illegal forbidden zone will trigger alert / voice alert even no network connection.
- ➤ Camera power ON/OFF base on entry/exit
- > VSS batch issue to vehicles, save operation time and cost



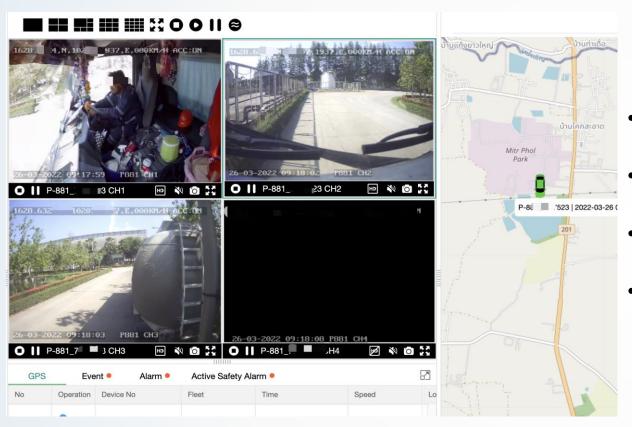
User Experience

Powerful Features

High Performance

Advanced Video Processing Technology





- HTML5 based (No need flash)
- Faster Video loading
- Support 100 split video view
- Multiple video mode: Smooth/real-time priority, etc



A better video stream processing framework

High throughput





Up to 10000 devices in one server



Up to 100 split video for one PC client



High concurrency capability, no limit of the users



Proved in many global projects

Powerful Backup Tool





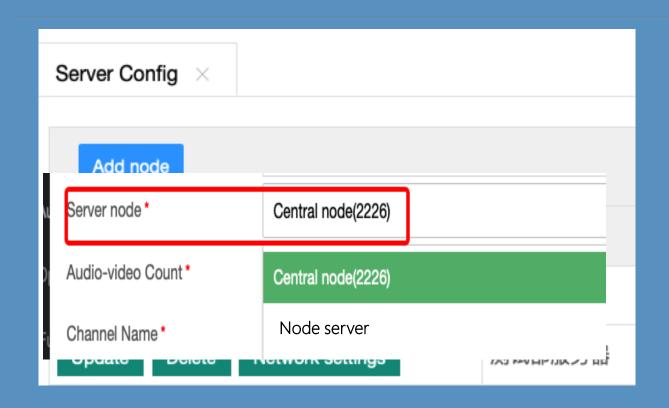
Fast backup VSS database Easy backup video file

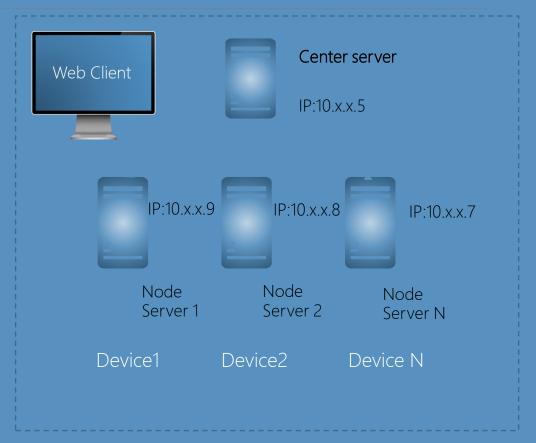


One click to backup database and video file

Distributed expansion



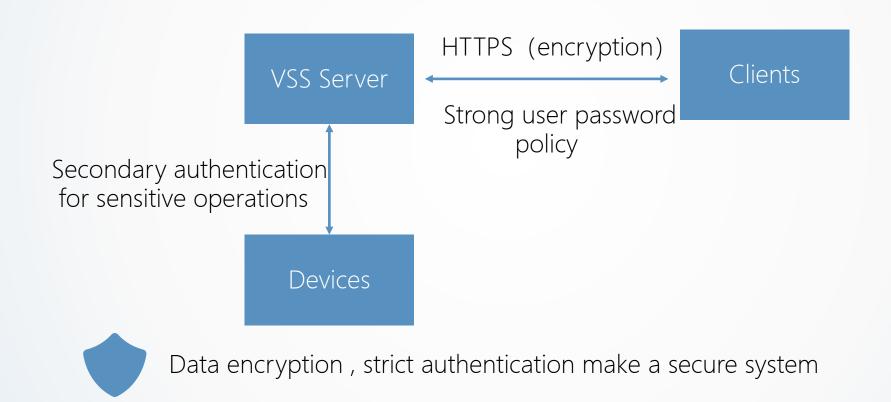




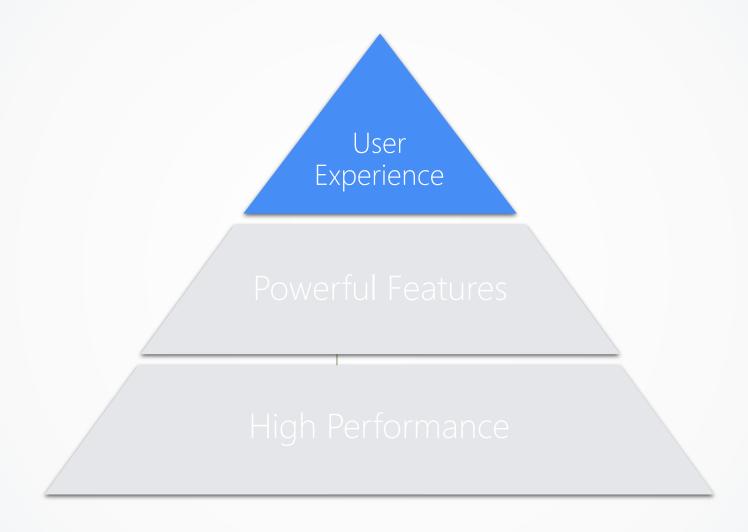
- Central node manages sub nodes
- Assigns the device to sub nodes
- Easy to expand

Data protection



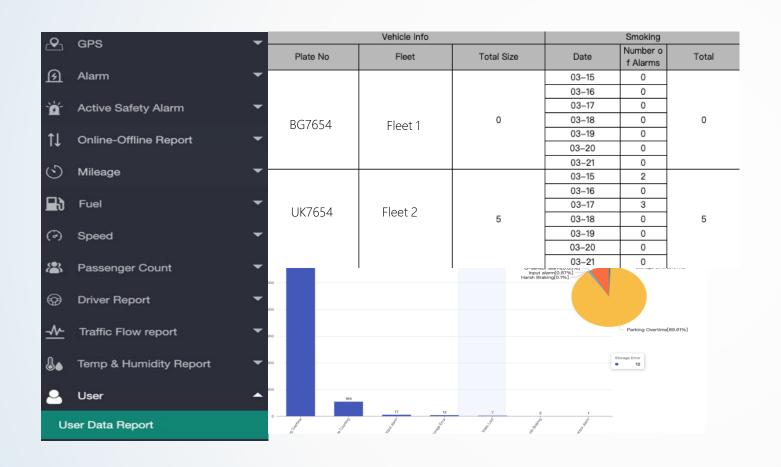






Al-focused Reports

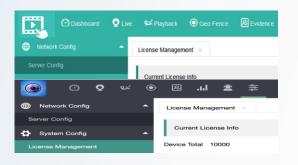


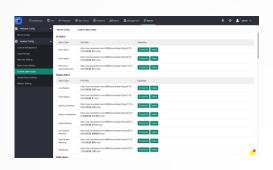


- Detailed alarm data
- Graphical report
- Support export
- Designed for AI telematics

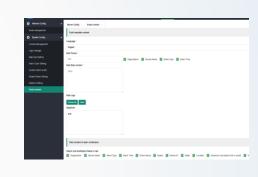
Easy & Flexible Customization











- Multi user LOGO
- Theme

Alarm audio

Alarm color

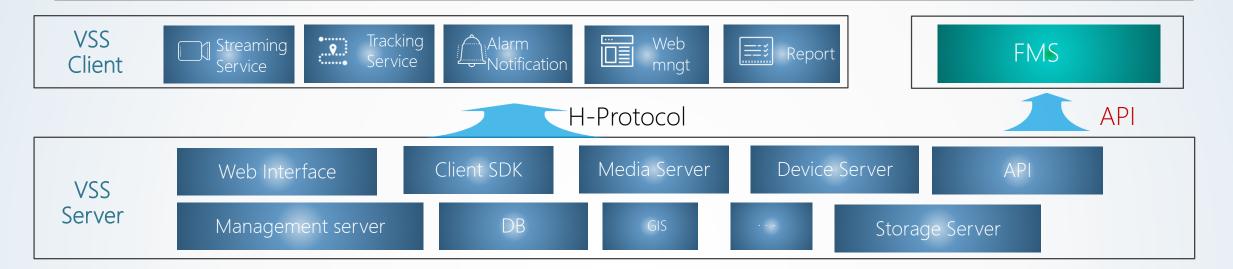
Alert Email Template

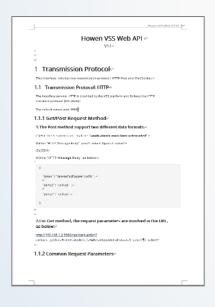


Easy DIY your system GUI

VSS API: Powerful tool for you to Build your own system







Advantages of Controltech VSS API integration 1. Rich interfaces

- Easy to callback, to achieve quickest development
- Friendly API documentations
- Full support of Professional Engineers
- VSS support on-premise implementation, meet local compliance

Benefits of Integrating Controltech Devices to Your Platform



Controltech hold most open strategy for integration.

- When hardware update, the protocol and API will also update accordingly and in time
- All Controltech products report to VSS server, so "One-time Integrate, All Controltech Devices Work"



Video x Telematics

Benefit from Advantages of both Telematics platform and Controltech VSS hardwares



Retain & Gain Customers

Providing same user experience, whilst adding video seamlessly; Upgrade to AI platform easily



Save Cost

- •No need to train 2 group of operation teams to learn 2 softwares
- •Controltech rich cost-effective devices for options
- •One Platform, All Terminals

VSS footprints



[Belgium] Crusher







Our Customers are people not vehicles!