



# **DSS Express**

## **Release Notes**



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# 1 Basic Version Information

Product name	DSS Express
Version	V8.007.0000000.1
Software package information	General_DSS-Express_Server_Win64_IS_V8.007.0000000.1.R.20251125.exe
OS requirements	<ul style="list-style-type: none"><li>● CPU: Intel® Core(TM) i7-13700K CPU@3.40 GHz</li><li>● Memory: 16 GB</li><li>● Network adapter: 1000 Mbps</li><li>● Hard disk type: Enterprise-level HDD 1 TB</li><li>● Free space: No less than 500 GB</li></ul>

## 2 Function Description

### 2.1 Functions

Function	Description
Organization	The channels can be directly maintained under the organization. The device and the channels of the device can be maintained under different organizations.
Device Management	<ul style="list-style-type: none"><li>Added the resource maintenance function. It supports allocating the organizations based on the dimensions of resources such as channels.</li><li>When adding a device, you can enter the device address and the device owner. The device owner can be synchronized from the person list.</li><li>For a door channel, you can configure the interval for each card swiping. The card swiping within the defined interval is regarded as invalid.</li></ul>
User Management	<ul style="list-style-type: none"><li>Support role permission control of login, resource, resource operation, and business function.<ul style="list-style-type: none"><li>Added login permission management.</li><li>Supports configuring permission of all resources, such as device channel resources, people and views in user management.</li><li>Permissions of organizations such as person groups, parking lot organizations, and device resource organizations are logically unified, and the permissions of superior and subordinate organizations can be configured independently.</li><li>Resource operation: The operation permissions of the role on the resources, such as live view, playback, PTZ, and more. For live view permissions, it supports setting the validity period, and for PTZ, it supports selecting <b>Operation and Config</b> or <b>Operation</b> as needed.</li><li>Added business function permissions of different menus. For example, in the <b>Basic Configuration &gt; Device &gt; Add Device</b> menu, you can configure business function permissions such as adding, editing, deleting, importing, exporting, modifying IP, initializing the device, and more.</li><li>Added the validity period of user permission.</li><li>Added the permission of local settings.</li></ul></li><li>Canceled the custom administrator, and increased the permission scope of the general user. For example, general users have the permissions of device management, organization management, user management, and more.</li><li>Supports setting user validity period. The user can log in to the client during the validity period, and cannot log in beyond the defined period.</li><li>Supports configuring phone number for the user.</li></ul>
Person and Vehicle Information	Supports collecting the palm vein information of a person, and then the person can access through non-contact verification on the access control device that supports the palm vein function.

Function	Description
Monitoring Center	<ul style="list-style-type: none"> <li>Adjusted the layout of resources, views, favorites and tour to facilitate resource search and operations.</li> <li>Added the tour function. After configure the tour, the platform plays the videos of all channels included in the tour plan. You can configure the tour by plan or by plan.</li> <li>Optimized playback control layout by separating video playback and timeline operation.</li> <li>Supports renaming the monitoring center module, which is valid only for the currently opened client. The maximum number of monitoring center modules is increased to 16.</li> <li>Resources can be dragged freely in the view and different monitoring center modules.</li> <li>The thumbnail of channels in the device tree can be obtained from stored image, instead real-time stream.</li> <li>Supports displaying live view thumbnails when hovering over channels on the device tree, so that you can find channels quickly.</li> <li>Click  in the video image of a PTZ channel, and then you can configure the PTZ.</li> <li>When configuring PTZ, you can click <b>Synchronize from device</b> to obtain presets, tour, and scan data configured on the PTZ device.</li> <li>The limit of downloading video increased to 7 days.</li> </ul>
Event	<ul style="list-style-type: none"> <li>When configuring an event, you can turn on the device owner. When the event occurs, you can view the device information (device address and device owner), so that you can contact the device owner to handle the event in time through the phone number and e-mail.</li> <li>Added open intelligent events, animal intrusion, animal tripwire, and animal rapid moving. Animal-related events support display animal types.</li> <li>Added 2 parking space events, including unauthorized occupation (by a parking sign, non-motor vehicle, traffic cone, or more) and small vehicle occupying the pace for a large vehicle.</li> <li>Card display is added to the alarm controller. Now you can switch between card and list. Supports viewing the detailed status of the peripherals of wireless gateway.</li> </ul>
DeepXplore	<ul style="list-style-type: none"> <li>Added the content search function. Support searching for records by time, channel, data source, event type and similarity, and you can perform operations such as viewing details and adding records to favorites.</li> <li>Added the function of resuming upload when offline. When NVR and IVSS go online again after offline, the records of faces, human bodies, motor vehicles, and non-motor vehicles captured when they are offline can be uploaded to the platform.</li> <li>Supports searching for vehicles without license plates, and in vehicle capture details, you can view confidence level, lane number, and vehicle speed information.</li> </ul>
Parking Lot	<p>When configuring vehicle exit rules, you can enable <b>Overtime Vehicle Access</b>. After it is enabled, vehicles parking overtime are allowed to exit the parking lot.</p>

Function	Description
Intelligent Analysis	Added crowd distribution analysis and vehicle density analysis functions.
System Parameters	<ul style="list-style-type: none"> <li>Supports configuring watermarks for viewing live videos, playing back recorded videos, and downloading videos.</li> <li>Supports configuring FTP server for remote backup. The system supports built-in FTPS and independent FTPS.</li> <li>Supports using mobile phone to scan QR code on the DSS client to download the app, without using the configuration tool or browser to download it. When you log in to the app, you can scan the code to obtain the platform IP and port. Only user name and password need to be entered.</li> </ul>
Backup and Restore	Supports enabling FTP server backup in auto backup. By enabling FTP backup and setting the FTP backup path, after local backup, the backup file will be uploaded to the defined path to make another backup.
Management	<ul style="list-style-type: none"> <li>Supports standard USB HID keyboard.</li> <li>The super administrator can configure default settings, and then after restoring the parameters of <b>Local Settings</b> to default, the settings configured by the super administrator will be applied.</li> <li>Supports bandwidth optimization. When the video is not displayed on the current page, the client stops pulling streams after the defined validity time (you can select from <b>Take Effect Now</b> or <b>Take Effect in 5 Sec</b>) to save bandwidth. It will only resume pulling streams when you reopen the video.</li> <li>Supports enabling or disabling synchronization play limit. After enabling this function, when playing back multiple recorded videos from the same time, it supports playing videos of 4 channels at a maximum of 8x speed. When there are more than 4 channels, videos are played at 1x speed.</li> </ul>
Others	<ul style="list-style-type: none"> <li>When initializing the platform, if you select the network from the wireless network card IP, in the case of IP change, the platform will automatically update the IP address and restart all services (if wired network card is selected, the IP will not be automatically updated, and still needs to be manually modified).</li> <li>Supports displaying the composite image of intelligent traffic enforcement camera.</li> </ul>

## 2.2 Fixed Bugs

- User management  
After the user password expires, the user failed to change the password.
- Monitoring center
  - Failed to turn on the light of the PTZ camera.
  - When playing back video, the platform cannot display the stream with audio and video encryption enabled.
  - After the server is restarted and the client is reconnected, the online devices on the device tree of the monitoring center are displayed offline.
- Event center
  - Fixed the problem that events such as people approaching and fall detection are not reported.

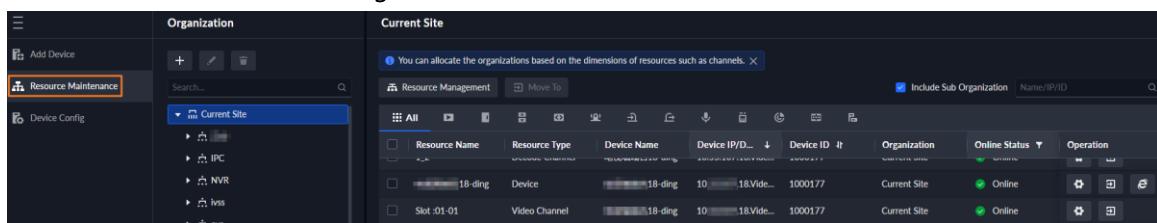
- ◊ In details of historical events, when you view the snapshot, the selection box is not fully displayed.
- Device management  
The display control device does not show the reason for offline.
- Storage  
The disk status is not displayed when the disk status is abnormal.
- Parking lot  
The organization information is missing in the vehicle passing records and the records for not opening the barrier.

## 3 Function Details

### 3.1 Device Management

- Added the resource maintenance function. It supports allocating the organizations based on the dimensions of resources such as channels.

Figure 3-1 Resource maintenance



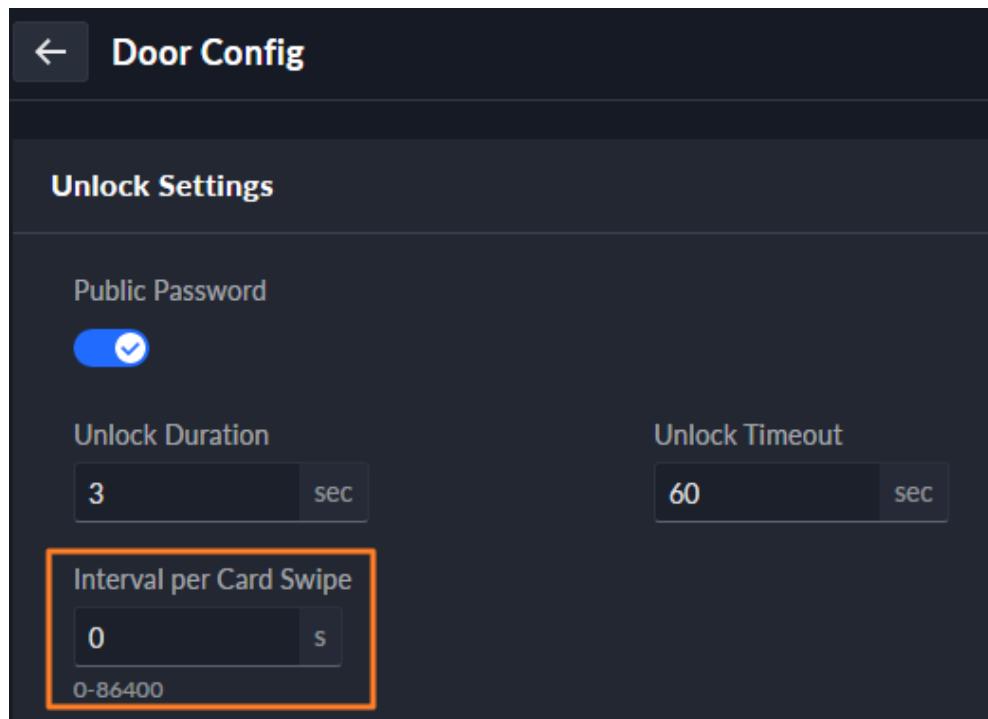
- When adding a device, you can enter the device address and the device owner. The device owner can be synchronized from the person list.

Figure 3-2 Add device owner information

This is a form for adding a device owner. It has fields for 'Device Address' (a large text input field), 'Device Owner' (with a '+ Add' button), 'Name' (marked with a red asterisk), 'Phone No.', 'Email Address', 'Remarks', and a 'Sync from person list' button with an orange arrow pointing right. There are also save and delete icons at the bottom right.

- For a door channel, you can configure the interval for each card swiping. The card swiping within the defined interval is regarded as invalid.

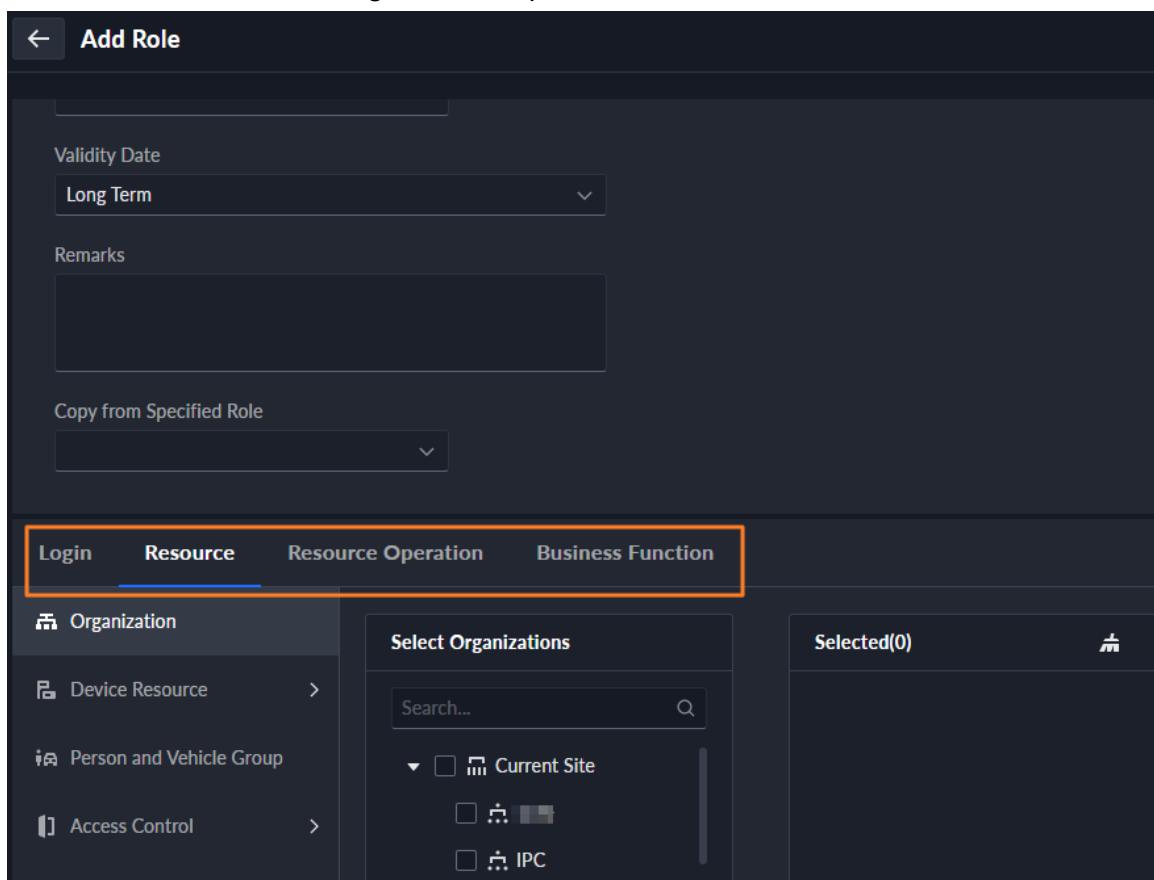
Figure 3-3 Interval per card swipe



## 3.2 User Management

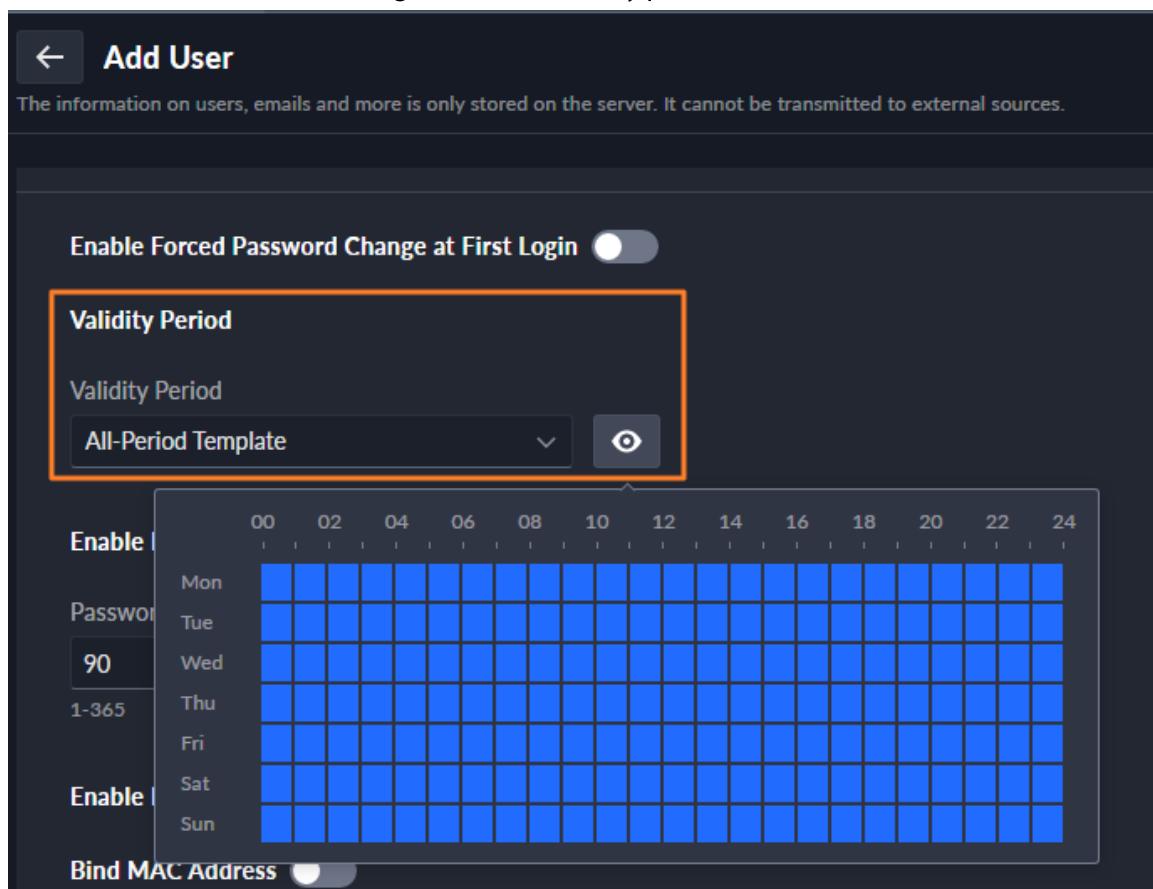
- Support role permission control of login, resource, resource operation, and business function.
  - ◊ Added login permission management.
  - ◊ Supports configuring permission of all resources, such as device channel resources, people and views in user management.
  - ◊ Permissions of organizations such as person groups, parking lot organizations, and device resource organizations are logically unified, and the permissions of superior and subordinate organizations can be configured independently.
  - ◊ Resource operation: The operation permissions of the role on the resources, such as live view, playback, PTZ, and more. For live view permissions, it supports setting the validity period, and for PTZ, it supports selecting **Operation and Config** or **Operation** as needed.
  - ◊ Added business function permissions of different menus. For example, in the **Basic Configuration > Device > Add Device** menu, you can configure business function permissions such as adding, editing, deleting, importing, exporting, modifying IP, initializing the device, and more.
  - ◊ Added the validity period of user permission.
  - ◊ Added the permission of local settings.

Figure 3-4 Role permission control



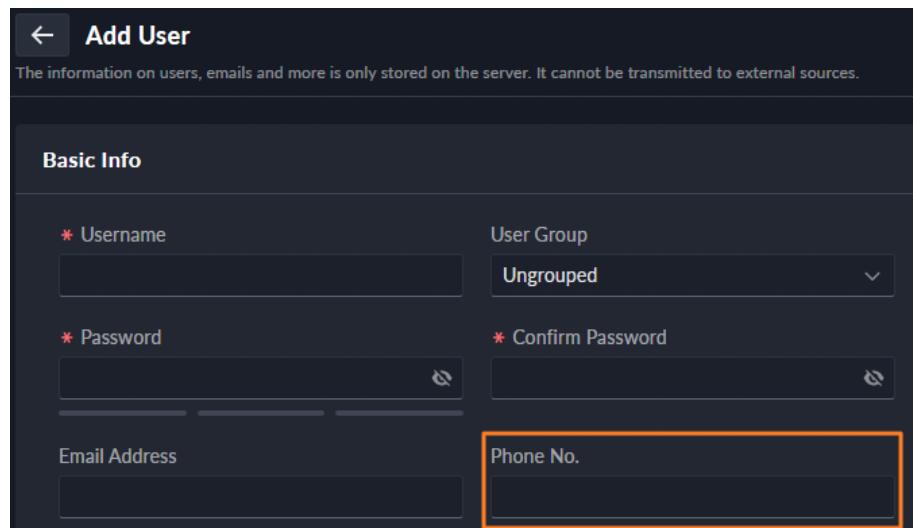
- Supports setting user validity period. The user can log in to the client during the validity period, and cannot log in beyond the defined period.

Figure 3-5 User validity period



- Supports configuring phone number for the user.

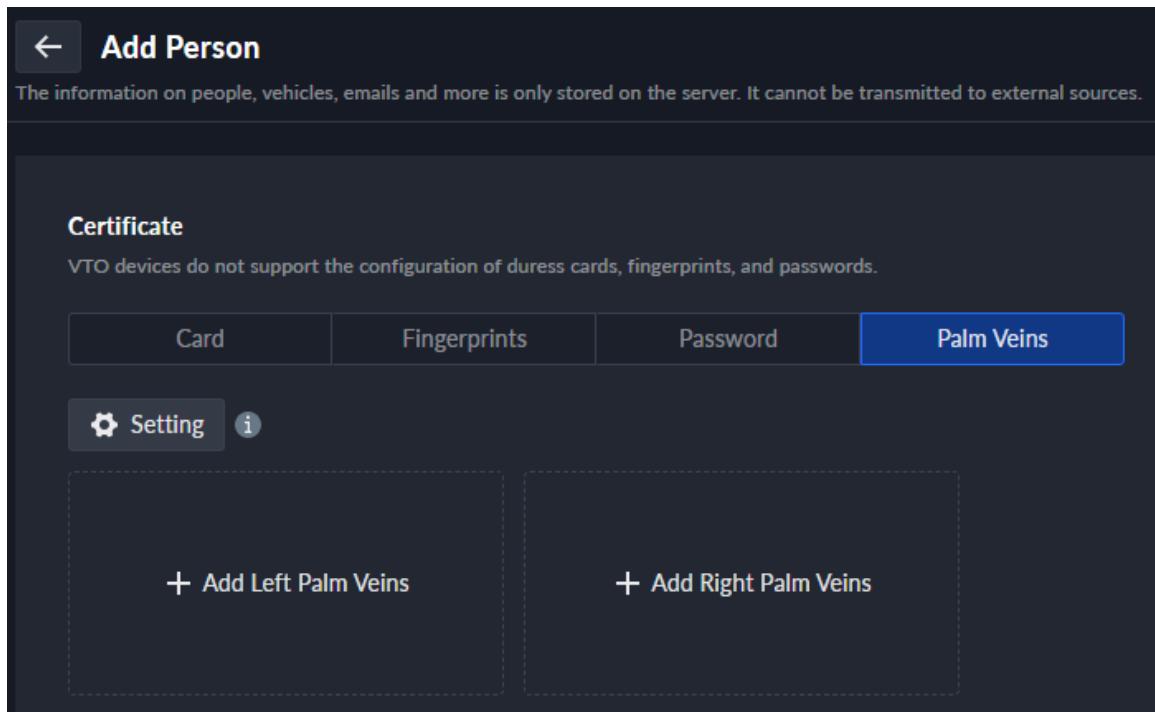
Figure 3-6 Phone number



### 3.3 Person and Vehicle Information

Supports collecting the palm vein information of a person, and then the person can access through non-contact verification on the access control device that supports the palm vein function.

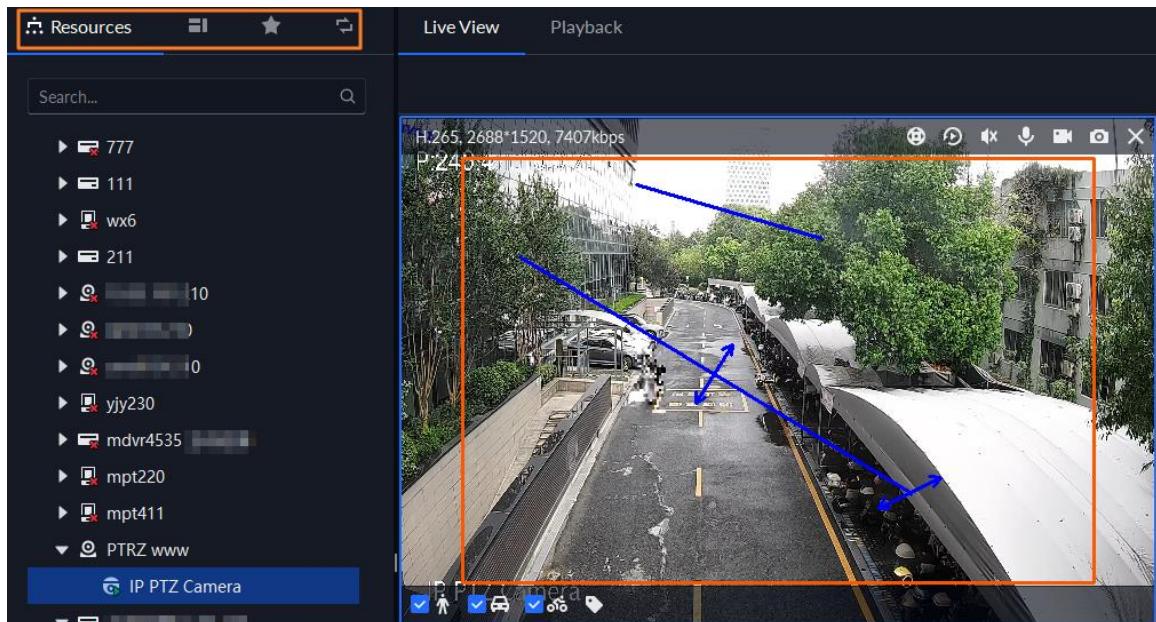
Figure 3-7 Collect palm veins



## 3.4 Monitoring Center

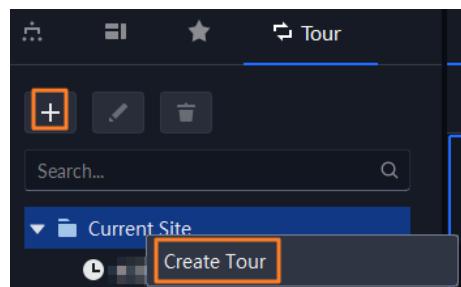
- Adjusted the layout of resources, views, favorites and tour to facilitate resource search and operations.

Figure 3-8 Live view layout



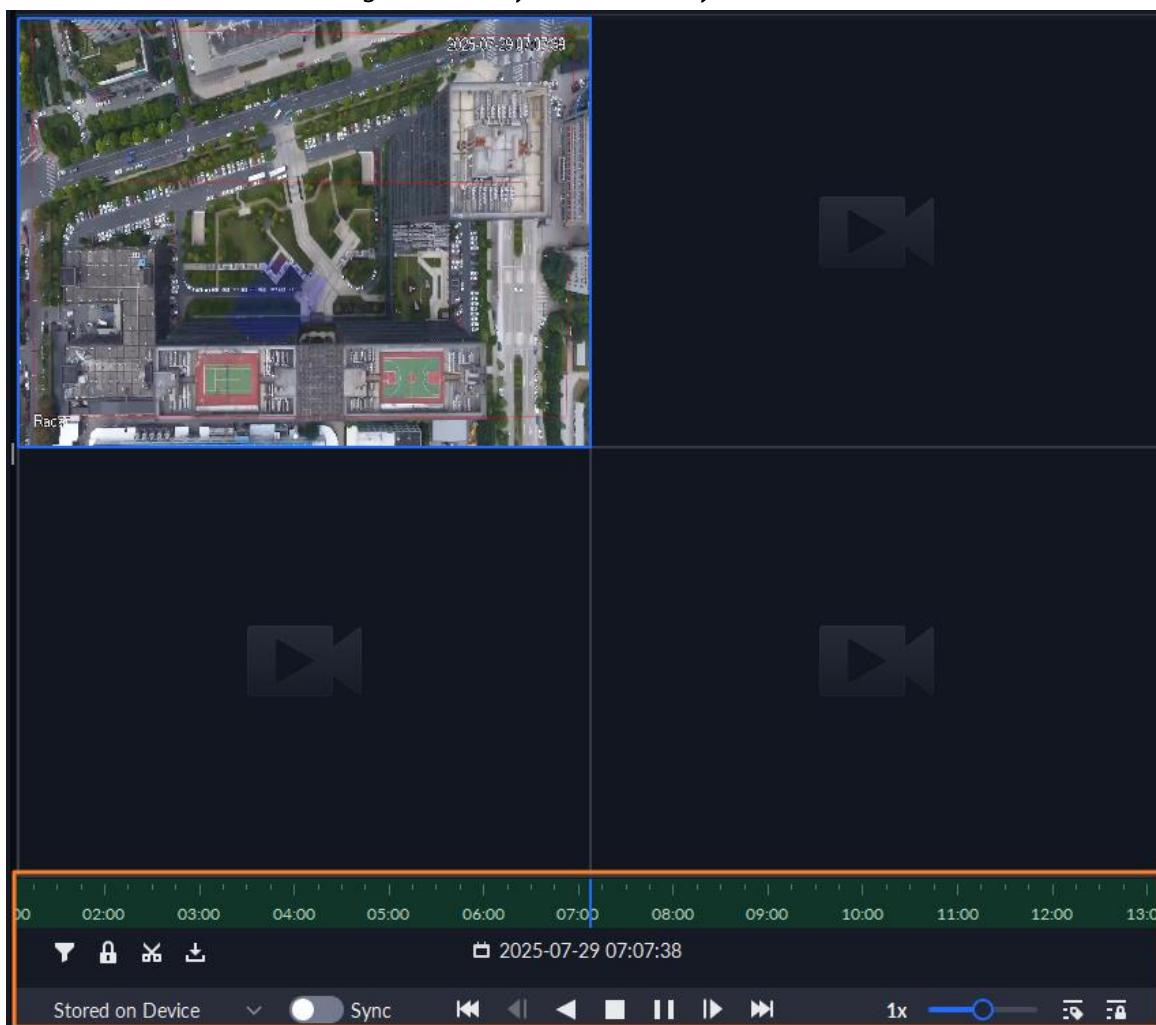
- Added the tour function. After configure the tour, the platform plays the videos of all channels included in the tour plan. You can configure the tour by plan or by plan.

Figure 3-9 Create tour



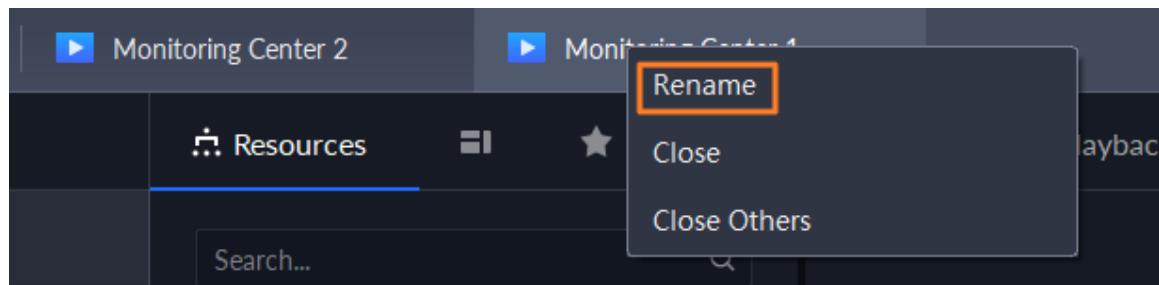
- Optimized playback control layout by separating video playback and timeline operation.

Figure 3-10 Playback control layout



- Supports renaming the monitoring center module, which is valid only for the currently opened client. The maximum number of monitoring center modules is increased to 16.

Figure 3-11 Rename monitoring center



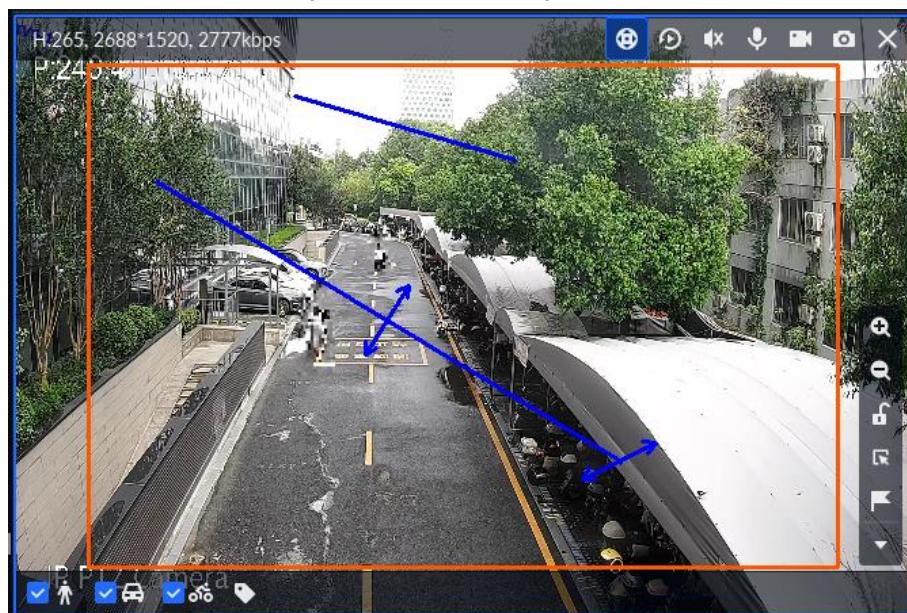
- Supports displaying live view thumbnails when hovering over channels on the device tree, so that you can find channels quickly.

Figure 3-12 Channel thumbnail



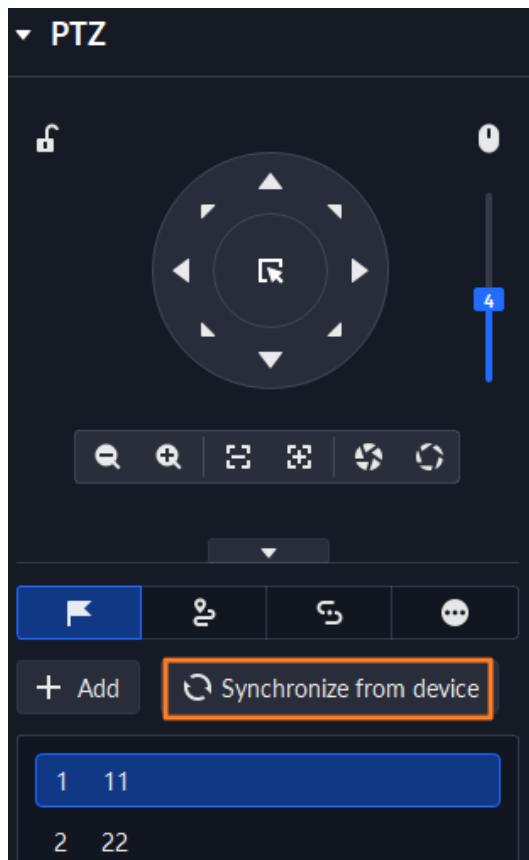
- Click  in the video image of a PTZ channel, and then you can configure the PTZ.

Figure 3-13 PTZ settings



- When configuring PTZ, you can click **Synchronize from device** to obtain presets, tour, and scan data configured on the PTZ device.

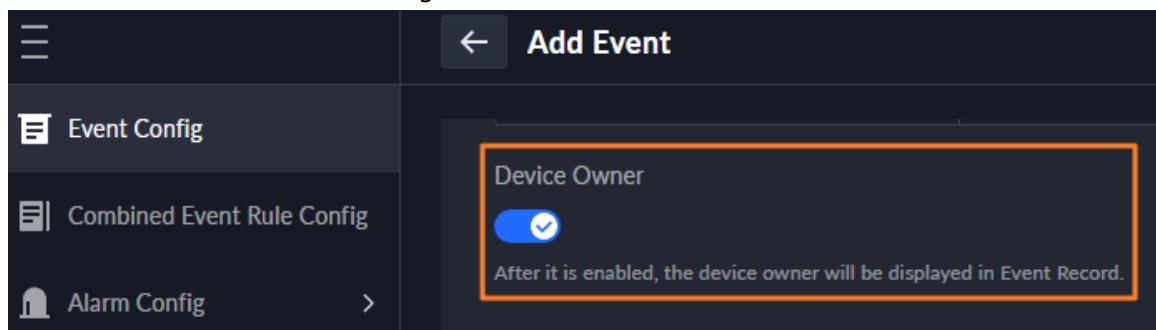
Figure 3-14 Synchronize from device



## 3.5 Event

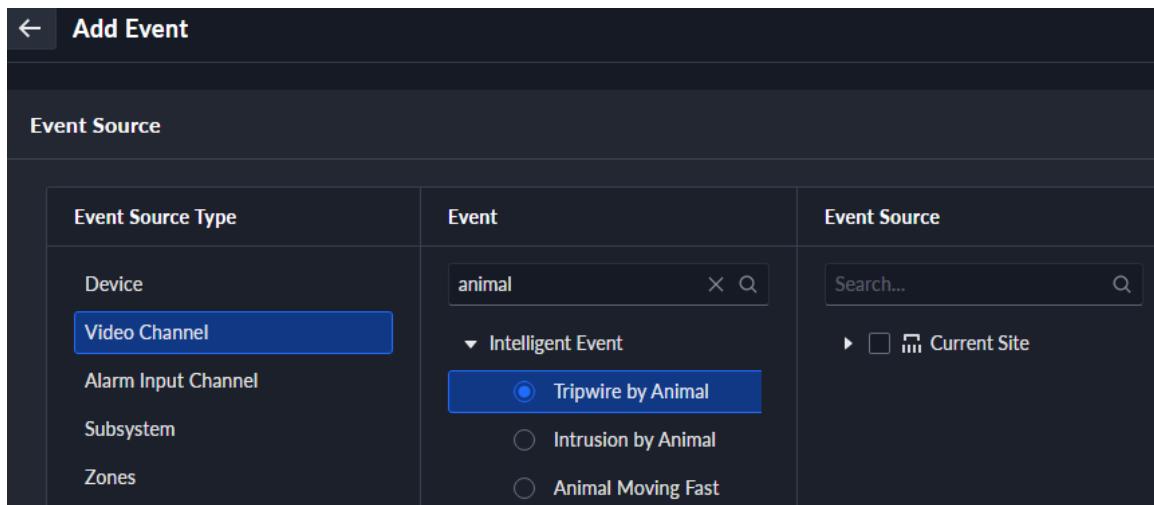
- When configuring an event, you can turn on the device owner. When the event occurs, you can view the device information (device address and device owner), so that you can contact the device owner to handle the event in time through the phone number and e-mail.

Figure 3-15 Device owner



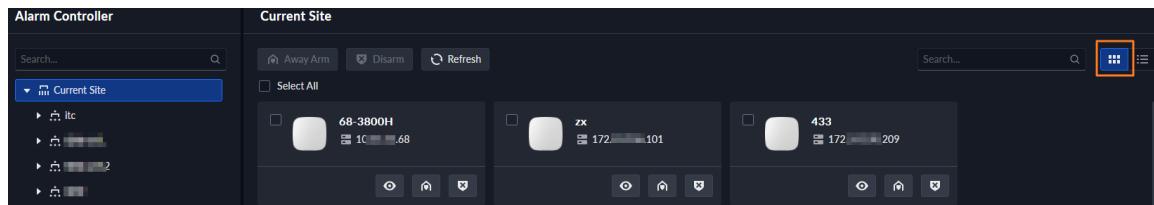
- Added EVS active-standby switching alarm events, open intelligent events, animal intrusion, animal tripwire, and animal rapid moving. Animal-related events support display animal types.

Figure 3-16 Animal events



- Card display is added to the alarm controller. Now you can switch between card and list.

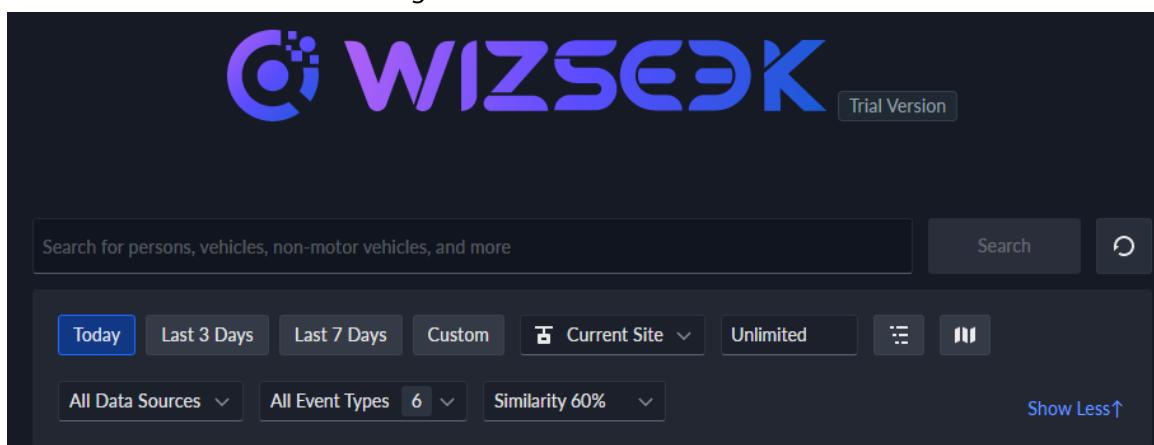
Figure 3-17 Display alarm controllers in card or list mode



## 3.6 DeepXplore

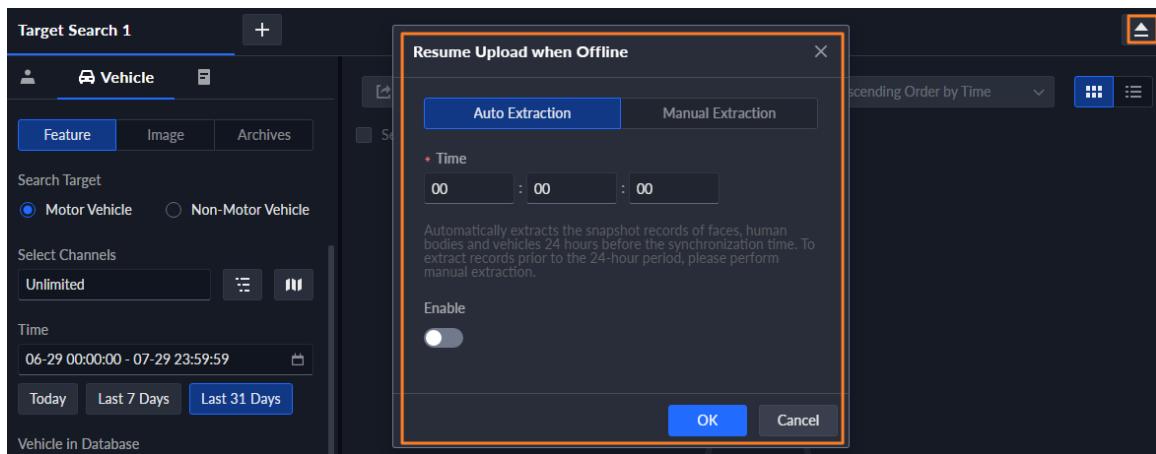
- Added the content search function. Support searching for records by time, channel, data source, event type and similarity, and you can perform operations such as viewing details and adding records to favorites.

Figure 3-18 Content search



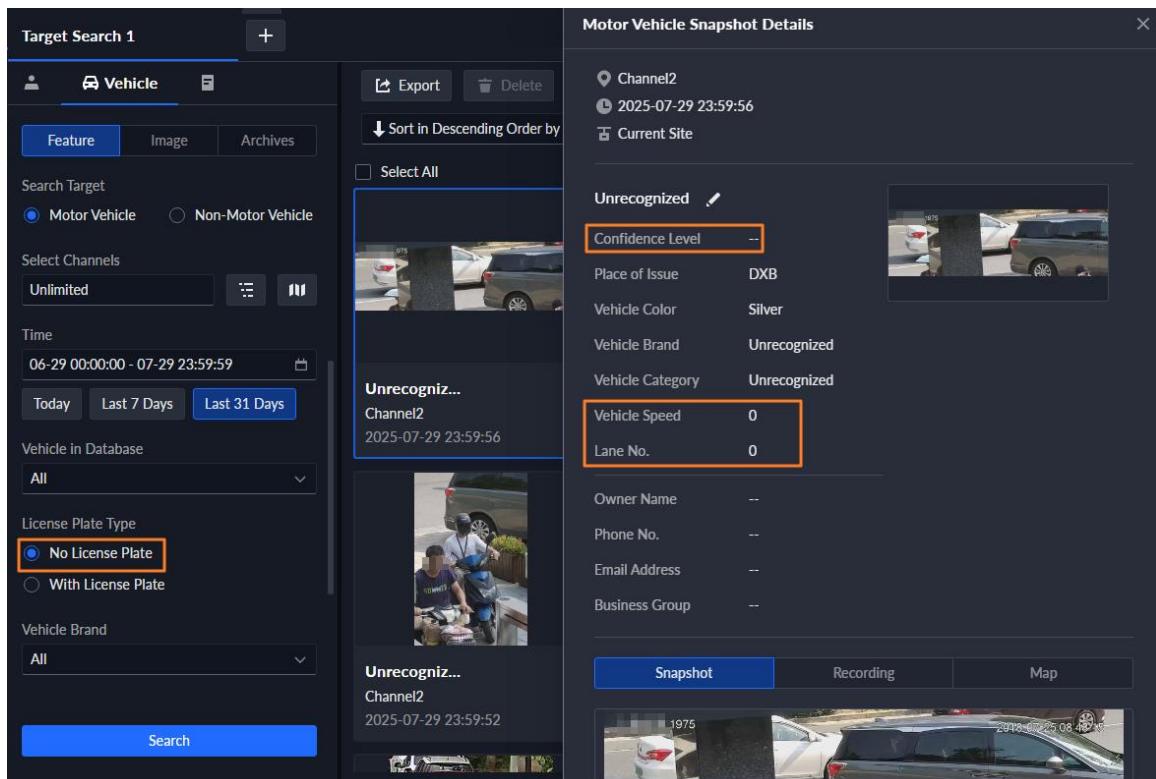
- Added the function of resuming upload when offline. When NVR and IVSS go online again after offline, the records of faces, human bodies, motor vehicles, and non-motor vehicles captured when they are offline can be uploaded to the platform.

Figure 3-19 Resume upload when offline



- Supports searching for vehicles without license plates, and in vehicle capture details, you can view confidence level, lane number, and vehicle speed information.

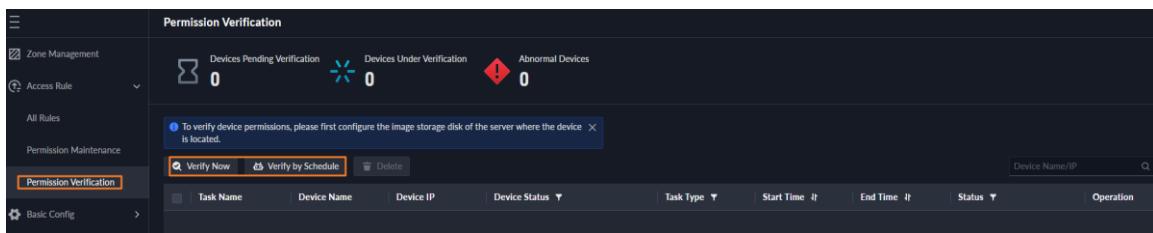
Figure 3-20 Vehicle search



## 3.7 Access Control

Permission verification supports **Verify Now** and **Verify by Schedule**. For abnormal verification results, supports operations such as deleting the person, extracting person information from the device, and resending the person information to the device.

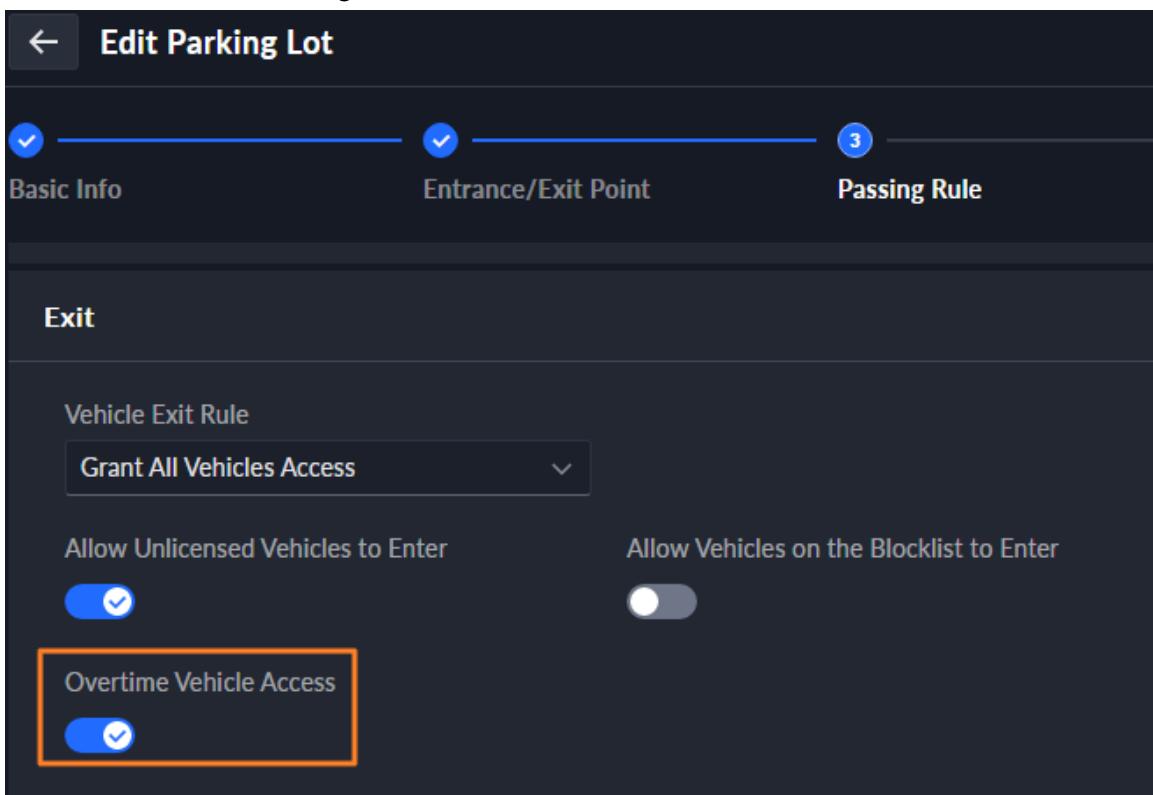
Figure 3-21 Permission verification



## 3.8 Parking Lot

When configuring vehicle exit rules, you can enable **Overtime Vehicle Access**. After it is enabled, vehicles parking overtime are allowed to exit the parking lot.

Figure 3-22 Overtime vehicle access



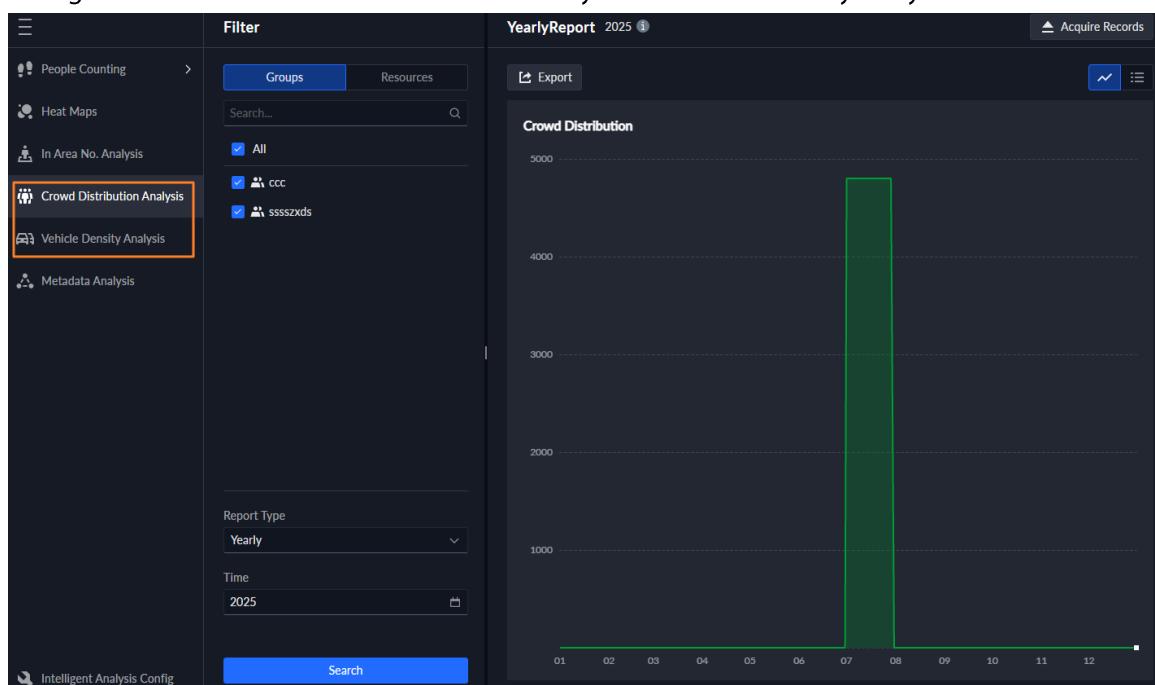
## 3.9 Intelligent Analysis

Supports adding crowd distribution group and vehicle density group, and searching for crowd distribution analysis and vehicle density analysis data.

Figure 3-23 Add crowd distribution group and vehicle density group

Crowd Distribution Group		
+ Add		Delete
Crowd Distribution Group Name	Total Rules	Operation
ccc	10	 
sssszxds	2	 

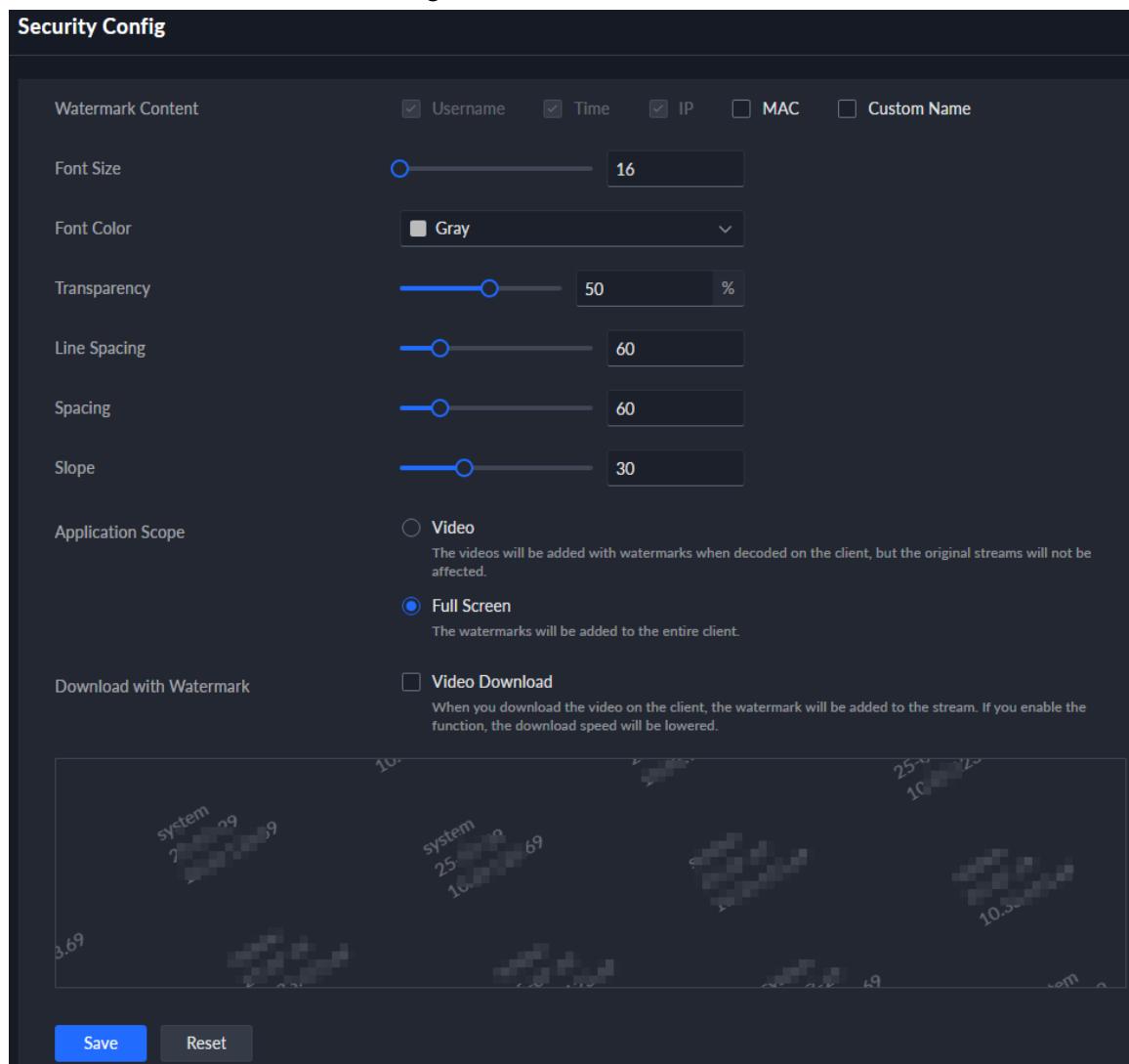
Figure 3-24 Search for crowd distribution analysis and vehicle density analysis data



## 3.10 System Parameters

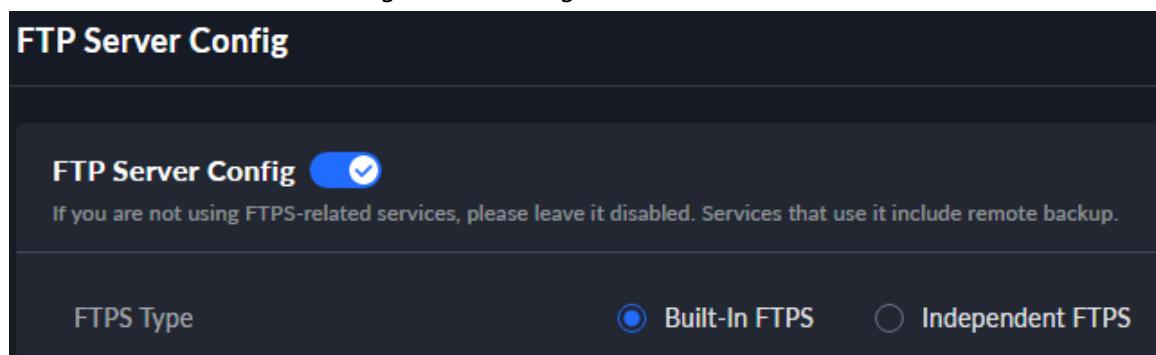
- Supports configuring watermarks for viewing live videos, playing back recorded videos, and downloading videos.

Figure 3-25 Watermark



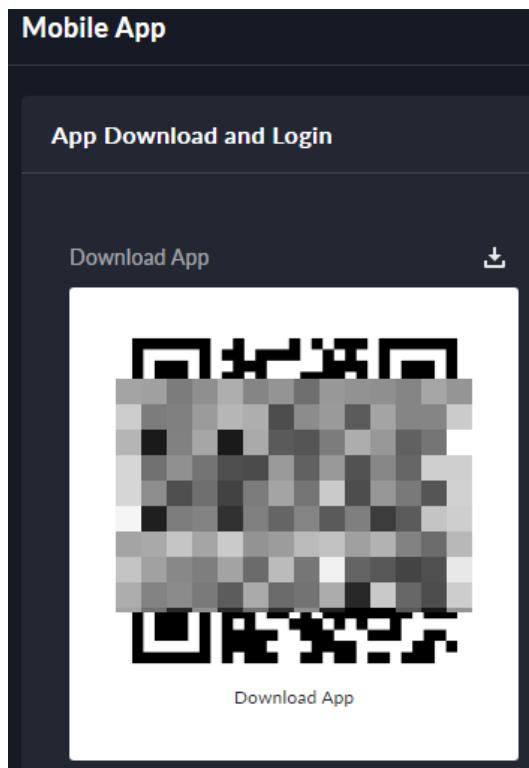
- Supports configuring FTP server for remote backup. The system supports built-in FTPS and independent FTPS.

Figure 3-26 Configure FTP server



- Supports using mobile phone to scan QR code on the DSS client to download the app, without using the configuration tool or browser to download it. When you log in to the app, you can scan the code to obtain the platform IP and port. Only user name and password need to be entered.

Figure 3-27 App download and login



## 3.11 Backup and Restore

Supports enabling FTP server backup in auto backup. By enabling FTP backup and setting the FTP backup path, after local backup, the backup file will be uploaded to the defined path to make another backup.

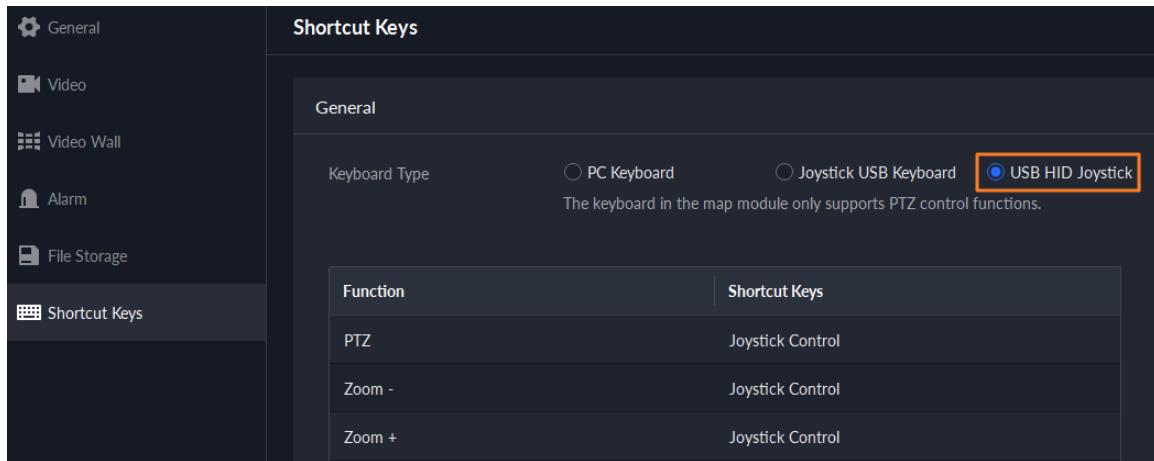
Figure 3-28 FTP server backup

The screenshot shows a configuration page for "Backup". Under the "Auto Backup" section, there are fields for "Max Number of Backup Files" (set to 10) and "Period" (set to "Backup by Day"). Below these are fields for "Time" (set to 00:00:00). A note states: "Considering system load, automatic backup period can only be between 0:00:00 and 2:59:59." At the bottom of this section, there is a checkbox labeled "FTP Server Backup" which is checked and highlighted with an orange border. Next to it is a note: "Please go to System Parameters and FTP Server Config to make sure Independent FTPS is enabled and the connection is functioning properly." Below this is a field for "FTP Backup Path" containing the value "/databackup". At the very bottom is a blue "Save" button.

## 3.12 Management

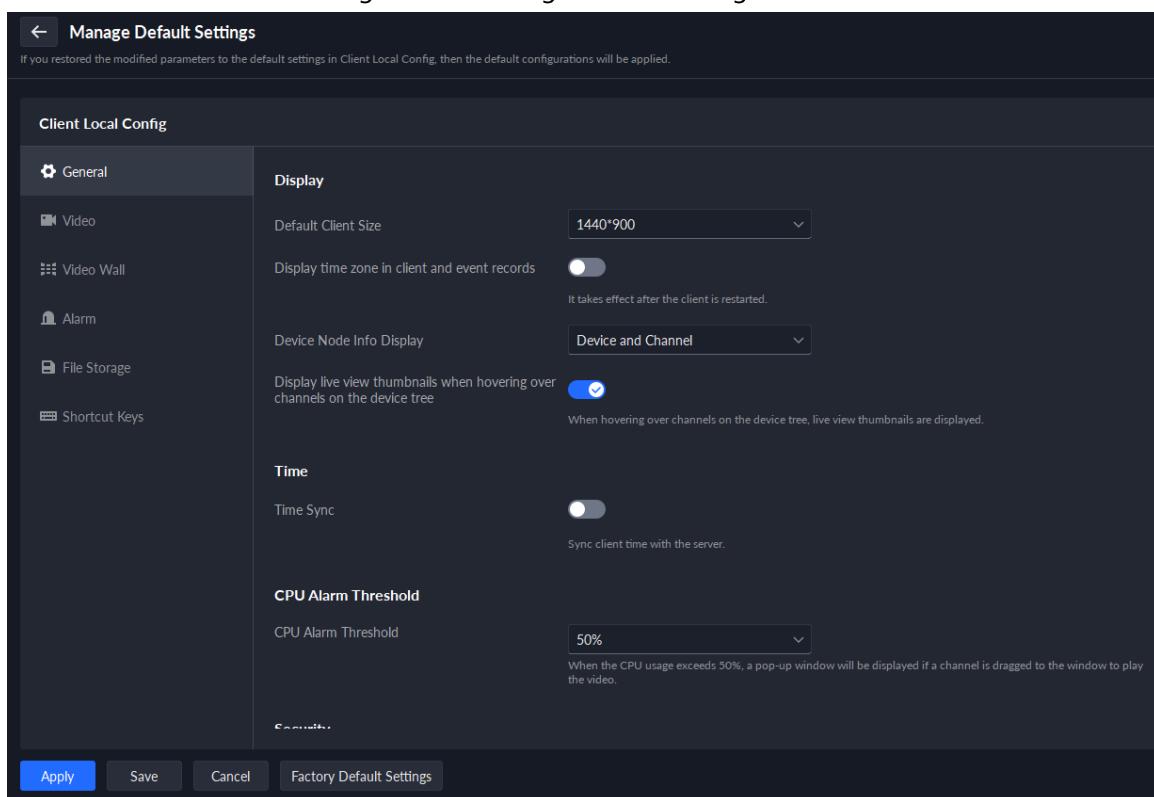
- Supports standard USB HID keyboard.

Figure 3-29 USB HID joystick



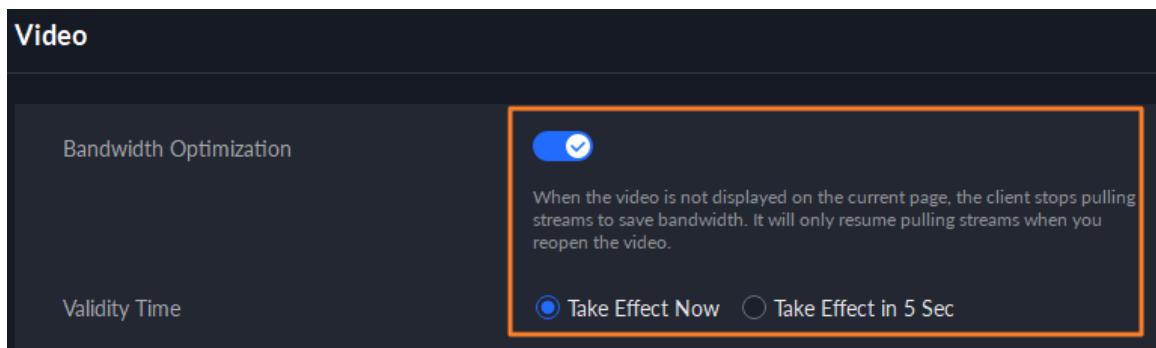
- The super administrator can configure default settings, and then after restoring the parameters of **Local Settings** to default, the settings configured by the super administrator will be applied.

Figure 3-30 Manage default settings



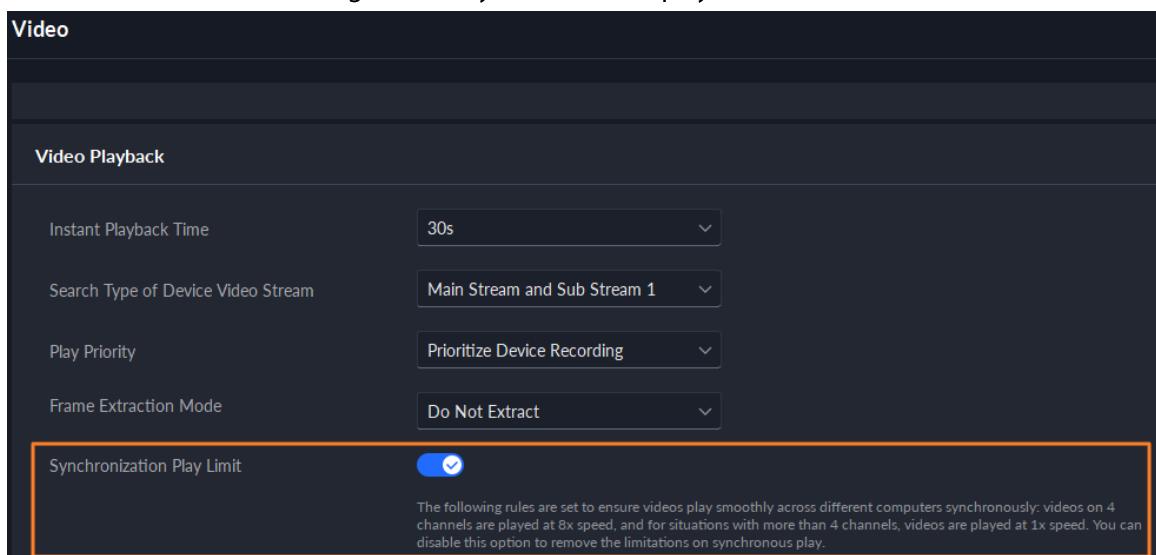
- Supports bandwidth optimization. When the video is not displayed on the current page, the client stops pulling streams after the defined validity time (you can select from **Take Effect Now** or **Take Effect in 5 Sec**) to save bandwidth. It will only resume pulling streams when you reopen the video.

Figure 3-31 Bandwidth optimization



- Supports enabling or disabling synchronization play limit. After enabling this function, when playing back multiple recorded videos from the same time, it supports playing videos of 4 channels at a maximum of 8x speed. When there are more than 4 channels, videos are played at 1x speed.

Figure 3-32 Synchronization play limit



## 4 Operating System Compatibility Description

Operating System Name	Operating System Type	Platform Type	Test Result
Windows Server 2019 Standard (64-bit)	Physical machine	Server	Pass
Windows 10 20H2 Pro (64-bit)	Physical machine	Server	Pass
	Virtual machine	Server	Pass
Windows Server 2019 Standard (64-bit)	Virtual machine	Server	Pass
Windows 11 21H2 Pro (64-bit)	Physical machine	Server	Pass
Windows Server 2022 (64-bit)	Physical machine	Server	Pass
Windows 10 20H2 Pro (32-bit)	Physical machine	Client	Pass
Windows 10 20H2 Pro (64-bit)	Physical machine	Client	Pass
	Virtual machine	Client	Pass
Windows Server 2019 Standard (64-bit)	Physical machine	Client	Pass
Windows 11 21H2 Pro (64-bit)	Physical machine	Client	Pass
Windows Server 2022 (64-bit)	Physical machine	Client	Pass
Windows 11 Version 24H2	Physical machine	Client	Pass
Windows 11 Version 24H2	Virtual machine	Client	Pass

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