DSS Express

Release Notes

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD. V8.5.0

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1 Basic Version Information

Product name	DSS Express
Version	V8.005.0000000.0.R
Software package information	General_DSS-Express_Server_Win64_IS_V8.005.0000000.0.R.20240717.exe
OS requirements	• CPU: Intel® Core(TM) I7-9700K CPU@3.60 GHz • Memory: 8 GB • Network adapter: 1000 Mbps • Hard disk type: Enterprise-level HDD 1 TB • Free space: No less than 500 GB
Release date	July 2024

2 New and Optimized Functions

2.1 New Functions

Function	Description
Device management	• Dahua devices for China cannot be accessed to overseas DSS platforms through ONVIF protocol. • Imou devices cannot be accessed to DSS platform. • Access of third-party devices through RTSP, and these devices support functions such as live view, video on wall, map, storage and playback of central recordings, event source of soft trigger when configuring events.
User management	• Supports PTZ operation and configuration permission, and PTZ operation permission. • Supports video sound permission. Users without the permission cannot turn on video sound. • Add user group. Supports configuring user group to receive events.
Event	• Supports configuring generic events received from third-party devices or systems through HTTP/HTTPS/TCP/UDP protocols. You can configure the IP address allowlist. Only addresses in the allowlist can receive generic events. • Added alarm controller subsystem event. • Supports configuring and receiving arming and disarming status change events of alarm controllers in event center; supports recovery events for alarm controllers and zones, so that you can know whether the exceptions are solved in time. • Enable client sound linkage when configuring events, and the system plays the defined sound when alarms are triggered. • Add map and linkage control information in alarm pop-ups. Supports manual control of linkage alarm outputs, and more. • Add event notification to user groups. Supports configuring user groups to receive events, and the notification recipients will automatically update with the change of group users. • When searching for history events, you can search for events by entering remarks that are defined when processing or forwarding the event. • For alarm controller zone alarms, you can upload PIRCAM images and videos.
Person and vehicle management	• When importing personnel from access control devices, if the person already exists, you can choose whether to keep the existing data. If not, the existing data will be overwritten by the new one. • Supports searching for records by company name on the **Person and Vehicle Info** page. • Supports canceling the access permissions of personnel. • Supports DESFire cards for access.

Function	Description
DeepXplore	• Add the image of license plate and business group information in the motor vehicle snapshot details when searching for the vehicle. • The snapshots of searching results can be viewed in slideshow-style in the details.
Parking lot	• Support resetting available parking space. • Support allocating parking spaces according to vehicle groups, which is generally used for allocating company parking spaces. • Add the event of parking lot full and alarm for vehicles of unknown plates. • Pass-through of parking event images captured by vehicle detectors from IVSS/EVS to the platform.
Access control	• You can extract person images when acquiring access records. • You can search the records of people entering and exiting by selecting **Person**, **ID**, **Access Point**, **Company**, or **Department**, and then entering the keywords.
Visitor management	• The platform can automatically fill in the information of host and visitor when making visitor appointment or registering visitors. • You can import the visitor appointment information in batches, and view the records. • The visitor can configure the appointment information or invited by the host. After approval, the visitor will receive an access credential for visit. • Check out visitors that are overstayed in batches and send notifications to them.
License	• Added the license maintenance function. Supports displaying the maintenance information of licenses and maintenance renewal. • Added visitor license.
Other	Supports resetting the password for system users through management tool.

2.2 Optimized Functions

Function	Description
Device management	• When adding a device, click **Get Info**, the alarm output channels of the decoders can be obtained. • Add an option to include sub-organizations. When selecting the option, devices from sub-organizations are displayed; if not selected, only devices from the current organization will be displayed. • When editing a device, the features cannot be obtained if the number of video channel features is insufficient. • Supports ONVIF profile T authentication.

Function	Description
Event	• HTTP URL command can be customized or copied from existing command when configuring HTTP URL command linkage. • Optimized sudden sound intensity change events. Supports receiving sudden sound intensity change events detected by IPCs and reported through NVR, including audio types. • Optimized alarm video opening method. When an alarm is triggered, you can configure not automatically switching to the monitoring center (if you have opened the alarm window in the monitoring center menu). Supports setting the duration for which the alarm linkage video opens in the monitoring center, after which it will automatically close. • The duration that the device flashes on the map can be set when an alarm is triggered. You can select from **20 s**, **40 s**, **1 min**, **5 min**, **10 min**, **Always**, or click **Custom** to customize the duration. • Supports processing alarms in batches. • Optimized email content and menus in event configuration. • Alarm storm can be configured by alarm source and alarm type. • Displays vehicle information such as plate number, speed, and more in alarm pop-ups, and details of real-time events and history events. • You can disarm an event for a period, or disarm until the defined time.
Person and vehicle info	• Displays the user information after swiping the card on the card reader. • Removed visitor from access type when configuring access permissions for a person.
DeepXplore	• UI interface refactoring for the DeepXplore. You can search for person, vehicle and records in integrated retrieval. • Optimizes the function of person searching. The person searching includes searching by feature, searching by image and searching by archives. For the searching by feature and by image, you can set the search target, face or human body. • Optimizes the function of vehicle searching. The vehicle searching includes searching by feature, searching by image and searching by archives. For the searching by feature, you can set the search target, motor vehicle or non-motor vehicle. • Optimizes the function of records searching. You can select the search mode from multiple or single. For multiple searching mode, you can configure the record type including metadata records, file records and other records. • Supports the new and old devices for result comparison when searching by image.

Function	Description
Access management	• Access control ◇ On the **Access Control Panel** page, the face information can be automatically refreshed. ◇ The reset time of anti-passback can be between 1 minute and 24 hours. ◇ When exporting access records, you can select the fields to be exported. ◇ Optimized admin configuration of local device when configuring access control device. • Visitor management ◇ When searching for visit records, the appointment arrival time or visit time can be set to 60 days before at most. ◇ Number of visits when making visitor appointment or registering the visitor.
Parking lot	• Optimized reports of entered and exited vehicles including search conditions and list display. • Optimized the linked video of parking lot record including the display of the entrance, exit and parking records, the detailed information display including snapshot and video. • Adds the plate snapshots to the entrance and exit records. • Optimized strings of vehicle type selection of parking overtime that changes from **Allow All Vehicles to Pass** to **All Vehicles**.
Intelligent analysis	The chart displays the total of the statistics.
Arming list	Supports adding one person to different face arming groups.
Others	• New UI design. • When searching for recordings in the map module, dragging the timeline allows for normal search and playback of corresponding recordings. Removed the previous limitation of only being able to search for videos of one day. • Standardizes the error prompt and reduce the unknown cause prompt. • Combines OSS and SubOSS services into OSS service.

2.3 Fixed Bugs

- Device
  - ◇ The personnel who are configured as administrators of the access control device cannot log in to the device webpage. For access control devices without screens, this setting is meaningless for administrators.
  - ◇ adm_dev_chn_alarm_info exception, device deletion fails, mandatory deletion also fails, and only unknown error is prompted.
- Event
  - ◇ Alarm linkage snapshots (the linkage channel is an encrypted device) are displayed as a black image.
  - ◇ Only one channel can obtain the snapshot for alarm linkage snapshot.

- When the channel is greater than 10, if a custom alarm is configured, alarms are not reported.
- In email linkage configuration, the email body cannot be selected to delete all.
- The email body cannot be wrapped.
- When the user enters the event configuration page for the first time, no default items are displayed in the event.
- All event sources from customized alarms display channel 1.

- Storage
  - Inconsistent configuration of video disk size causes loss of recorded video.
  - After adding NVR to the disk group, the NVR device node can still be seen when adding other disk groups.
- Monitoring center
  - While keeping acquiring stream of ONVIF device, if you change the device time zone, the timeline of ONVIF recorded video and play timestamp do not match.
  - For wall mount fisheye camera (1P+8), the box position is not displayed accurately when rolling the video image of the camera.
  - Video of display devices and encoders failed to display on video wall in local area network (LAN).
  - After opening the video, click the voice talk icon in the upper part of the window, and then turn it off. When it is turned on again, it prompts failed to start voice talk.
  - The client is blocked when the client is minimized.
  - On the video playback page, when playing back the video, fast play is invalid.
- Video wall
  - Modifying video wall occasionally crashes.
  - Icon is abnormal in client restore state.
  - The icon size of save and save as are inconsistent.
  - After adding 32 video walls, the one-click display on wall is not attractive.
- Intelligent analysis
  - In people counting group configuration, the rule tree on the page of adding people counting group does not update in real time.
  - In people counting group configuration, on the page of adding people counting group, the font of the input character in the rule tree search box is inconsistent with the font displayed on the rule tree.
- Access control
  - After cleaning up the access control records, the statistics of the number are not updated in real time.
  - When extracting records, the reported information of invalid password overtime alarms is inconsistent with and the extract ones.
  - When extracting records, the records of anti-passback events are extracted to the platform, but the direction is displayed empty.
  - When setting user permissions, the Chinese prompt that the user pass record cannot generate a trajectory without the map menu permission is unreasonable.
  - When a user with access control menu, zone and person group permissions view the general rule details page, it prompts limited permissions, you cannot access the page.
  - If the visitor entered an item wrong in the email template, the remarks of visitor pass cannot be saved successfully.
  - On the **Access Control > Access Rule > All Rules** page, when editing the access points to cancel authorization of points with exception, the settings are not sent again.
  - When starting intercom with VTO/VTH and the platform, the platform's voice cannot be heard.

- When turning page of the visitor records and searching for visitor records are manually canceled or automatically canceled because of timeout, a redundant pop-up box "no related records" is displayed.
- There is a problem with the video intercom record forward page.
- In the restore state, when registering visitors, the border of the remarks that remind no special characters is blocked.
- The person type belongs to blocklist. Through swiping card, you can see that there are 2 card swiping messages from the person in the blocklist.

- Parking lot
  - In the restore state, when the left menu bar shows less, the LED display border of the last vehicle group in the horizontal direction of the vehicle group is incomplete.
  - The custom user has no permissions. In event configuration, the event source type is set as parking lot, and it prompts failed to search the parking lot.
  - After expanding the menu navigation bar and snapshot details, the record does not display the vertical roller.
  - When searching the entrance and exit monitoring records, if all expandable pages are expanded, the page turning control is connected and displayed together.
- Person and vehicle information
  - When modifying a person, if you bind the 5001st vehicle, the modification failed, and the reason for the failure is not specific.
  - The added person has default access rules.
  - After the person in the person list is bound to a vehicle, the vehicle cannot be unbound in the person details. You have to delete the vehicle from the platform.
  - The system user failed to import the vehicle list because it has no vehicle group permissions.
- DeepXplore
  - When a user with device and DeepXplore permissions searches access records, it prompts no permissions.
  - Occasionally, when switching from central intelligence to edge intelligence, the device tree for searching images by human body or vehicle images is not cleared.
  - When adding a person to face arming group, if you select person groups without permissions, it prompts it is incorrect.
  - When new and used IVSS are added to the same platform, the search by image function of the new IVSS is not available.
  - For resolution of 1080 × 1024, the buttons on the DeepXplore details page overlap.
- Download center
  - Click the downloading tab, it shows the record video waiting to be downloaded.
  - After downloading the recorded video, there is still recording video being downloaded.
  - When downloading, you cannot select multiple channels.
- Log
  - The alarm configuration log type is displayed unreasonably.
  - In the Chinese client, the logs of modifying the pre-recording mode are displayed in English.
  - There are problems with the face arming group control logs.
- Others
  - The backup and restore has not been successful for more than 3 hours, and the client has been spinning.
  - When starting the weak network tool, after modifying the MySQL port, the SMC has not been able to start.
  - After entering the password and clicking **OK** in backup and restore, the client suddenly went offline, and then immediately recovered, and the restore did not proceed.

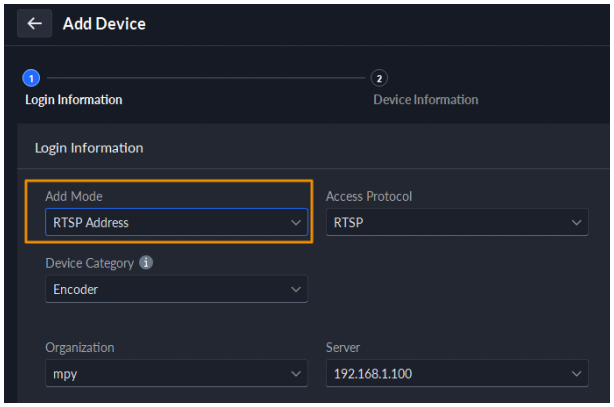
- The database was successfully restored with one click, the service was restarted, and VMS occasionally failed to start.
- When allocating resources in system deployment, it does not display alarm controllers.
- When Hikvision device transitions from the first 2:59 to the second 2 o'clock in daylight saving time (DST), it will go to 3 o'clock.
- When Hikvision platform records video from the first 2:59 to the second 2 o'clock, it will go to 3 o'clock and then go back.
- In touring environment, client dump is generated.
- After the service is restarted, and the client is disconnected and reconnected, the channel originally acquiring stream displays "service offline".
- The configuration tool restarts the service, and all services are started normally, but when logging in to the client, it prompts login failed.
- When restarting the server after modifying the server time, the firewall script execution is stuck, and CMS is not successfully started, resulting in multiple service operation exceptions.
- When restoring the database with one click, 2 pop-up windows appear, showing the configuration tool is already running.
- During the client backup and restore process, the client suddenly went offline, and the client kept prompting timeout when logging in.
- Request to delete persons under high concurrency timed out.
- The names of adding map entry in different levels of maps cannot be repeated (different level names should support duplication).
- Prompt of the last value of the image size exception in the face arming sending exception shows %1.
- Failed to redirect device acquiring stream.
- The interface display is unreasonable after the list is stretched or shrunk, and the interface will overflow after the filter box is stretched, involving all modules.
- The concurrency request database of the login page has duplicate data, resulting in failure to log in to the client.

3 Description of New and Optimized Functions

3.1 Device Management

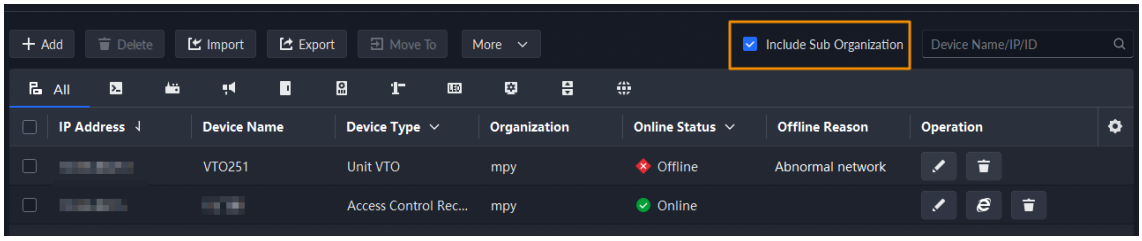
- Supports adding third-party device through RTSP.

Figure 3-1 Adding devices through RTSP



- Supports filtering devices by organization: when **Include Sub Organization** is selected, the devices of sub organizations will be displayed.

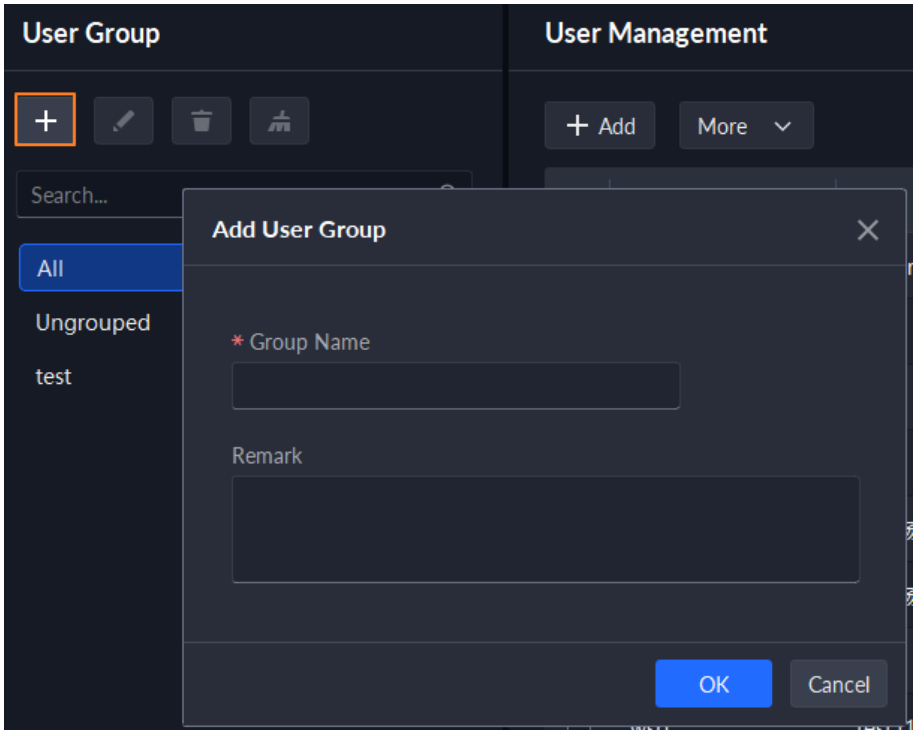
Figure 3-2 Displaying device of sub organization



3.2 User Management

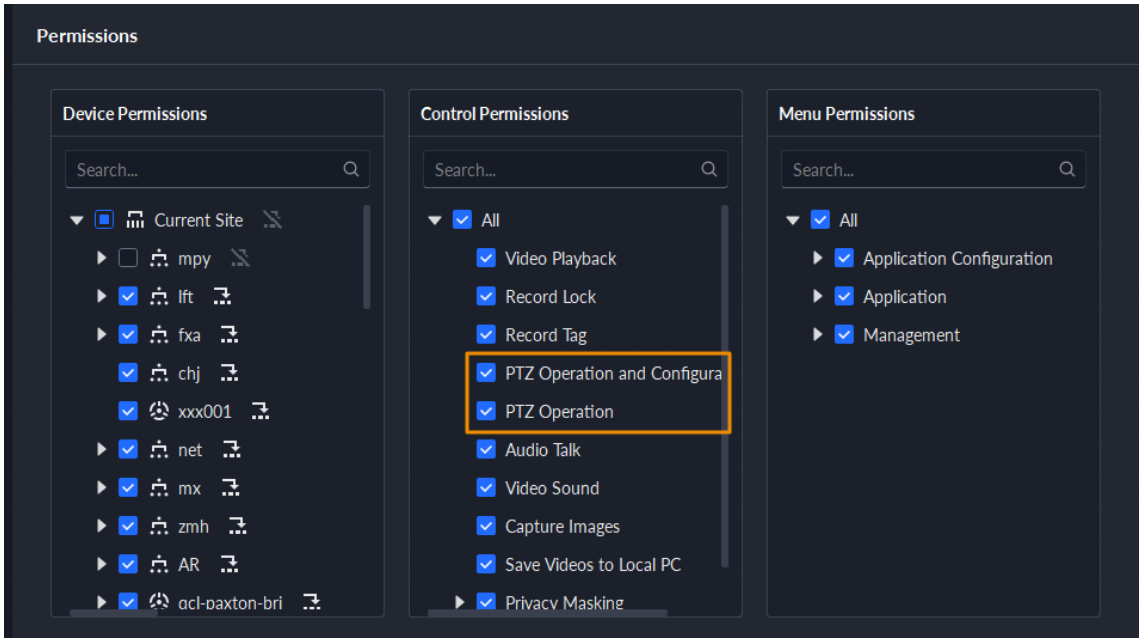
- Add user group to facilitate user management.

Figure 3-3 Add user group



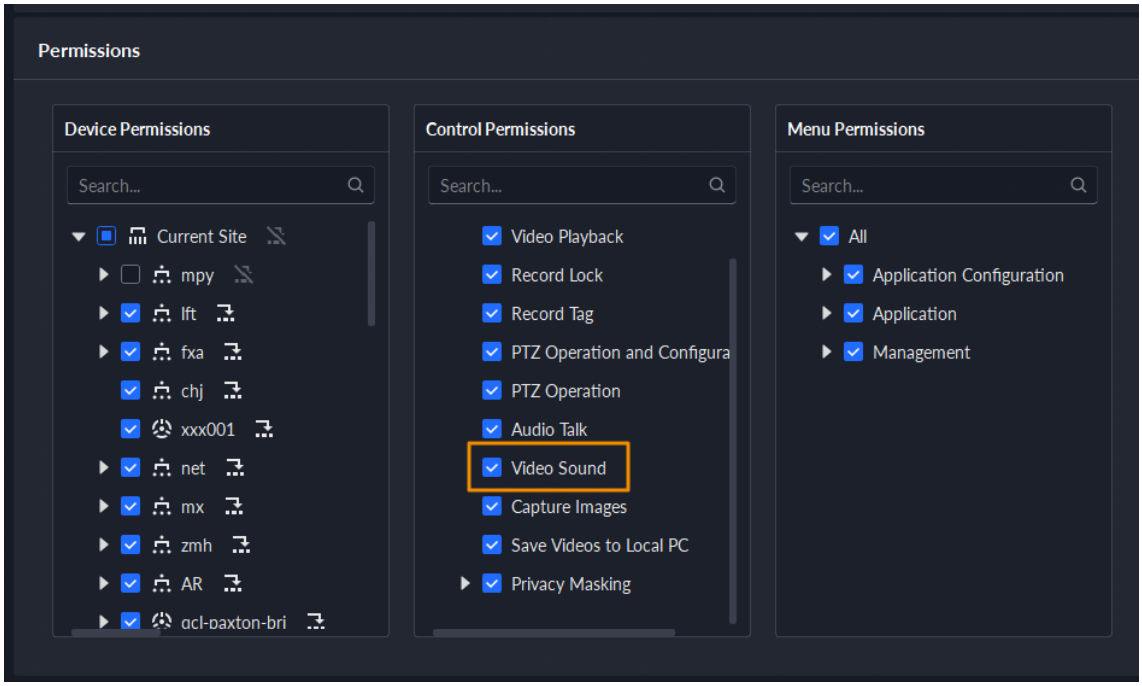
- When configuring the permission of a role, select PTZ operation and configuration or PTZ operation according to actual needs.

Figure 3-4 Configuring PTZ permissions



- When configuring the permissions of a role, select the video sound permission according to actual needs. If video sound permission is not granted, you cannot enable the audio function on the monitoring center, live view and playback.

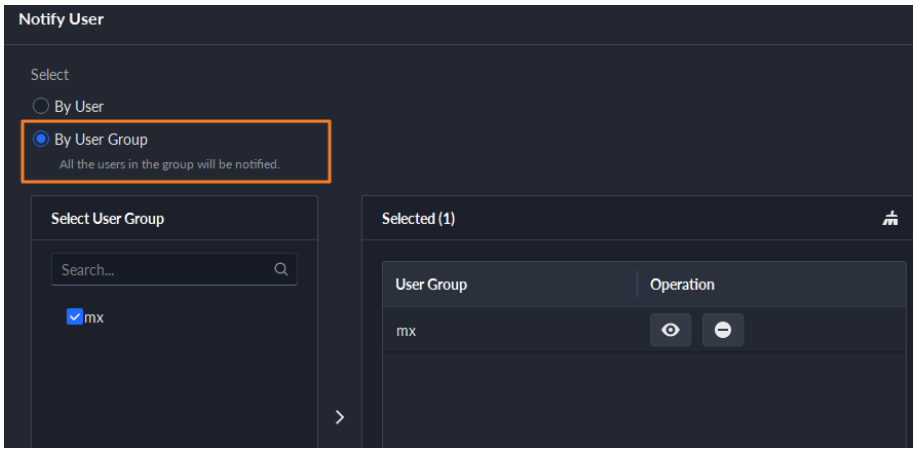
Figure 3-5 Video sound



3.3 Event

- Event configuration
  - ◇ Add event notification to user groups. Supports configuring user groups to receive events, and the notification recipients will automatically update with the change of group users.

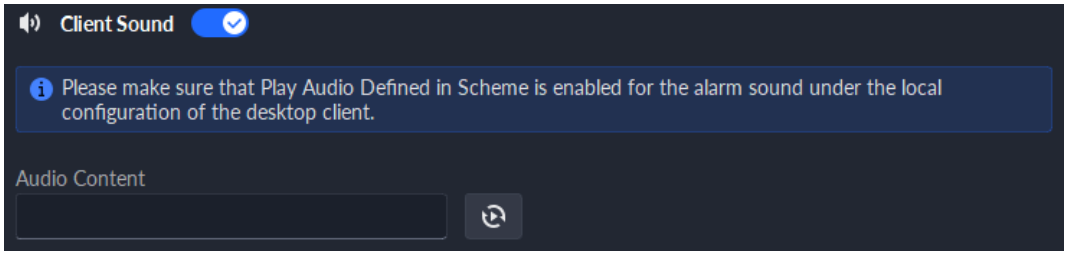
Figure 3-6 User group linkage



  - ◇ Customized client sound when an alarm is triggered. When an alarm is triggered, the client will play the defined audio content.

    Make sure that **Play Audio Defined in Scheme** is selected from **Local Settings** > **Alarm** > **Alarm Sound**.

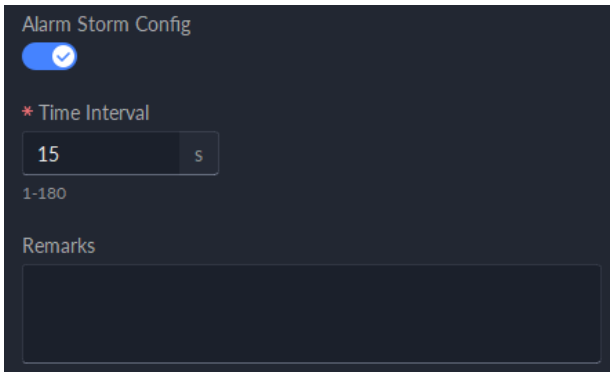
Figure 3-7 Client sound



- Enabling alarm storm, and if certain alarms are frequently triggered, you can configure an interval during which they can only be triggered once.

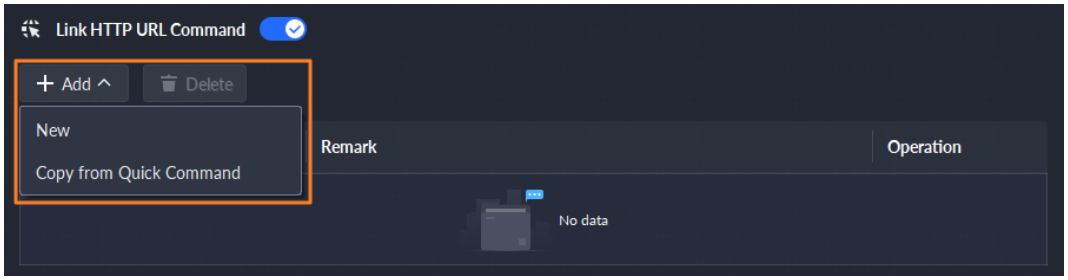
  This function is only available to the selected event sources. The configurations here enjoy higher priority if alarm storm for the same event is configured from **Event** > **Alarm Config** > **Alarm Storm Config**.

Figure 3-8 Configure alarm storm



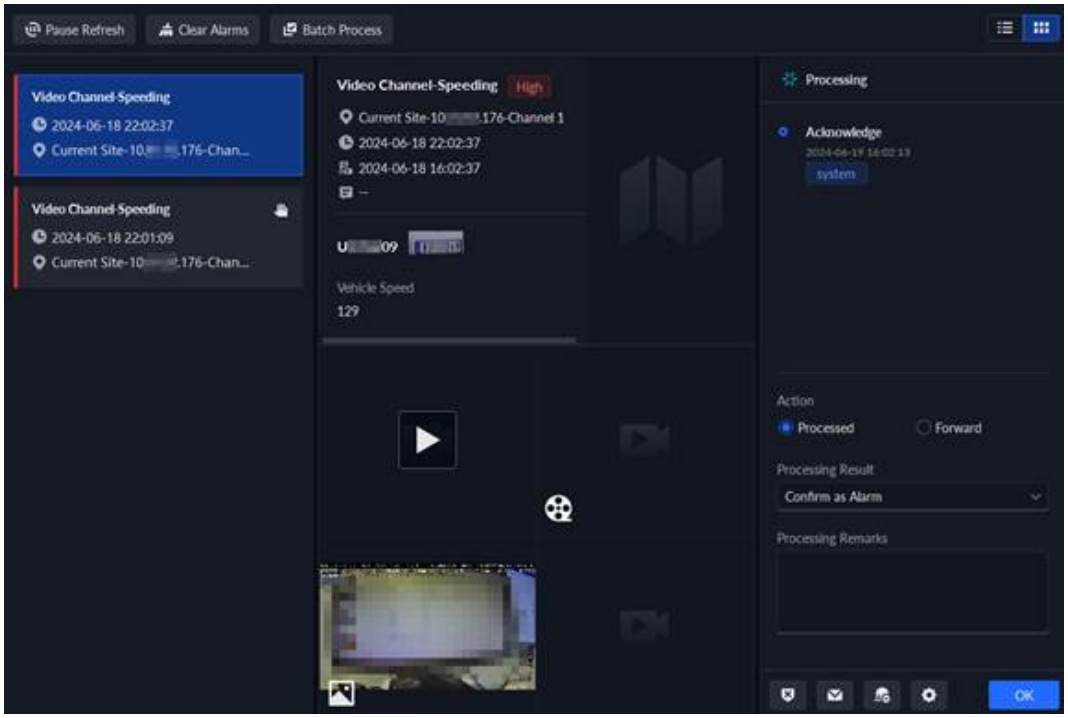
- HTTP URL command can be customized or copied from existing command when configuring HTTP URL command linkage.

Figure 3-9 Link HTTP URL command



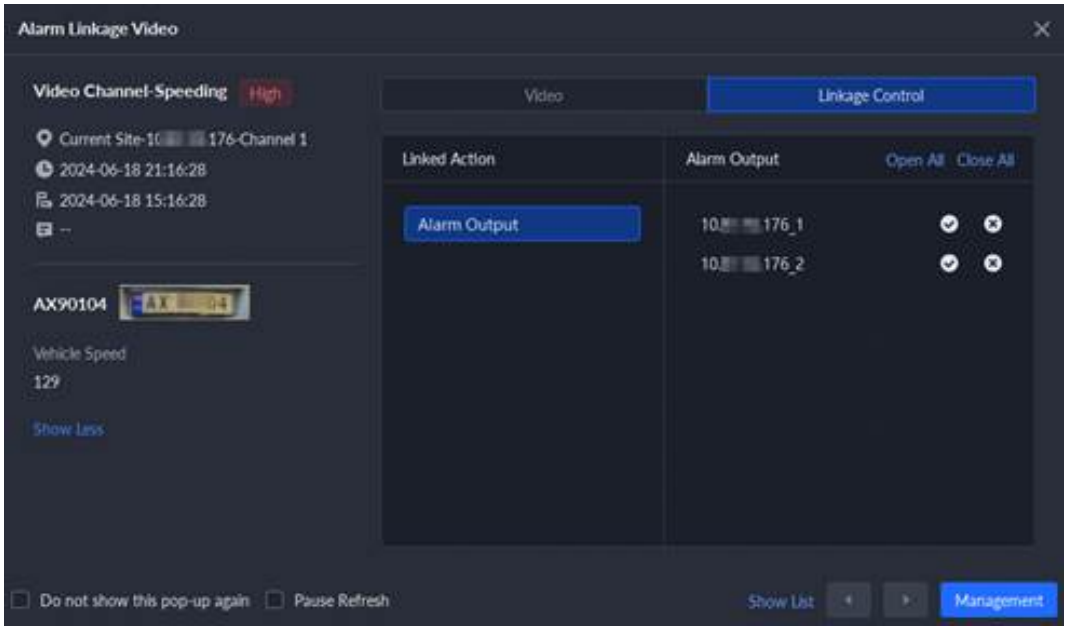
- Event center
  - Displays vehicle information such as plate number, speed, and more in alarm pop-ups.

Figure 3-10 Vehicle information in alarm pop-up



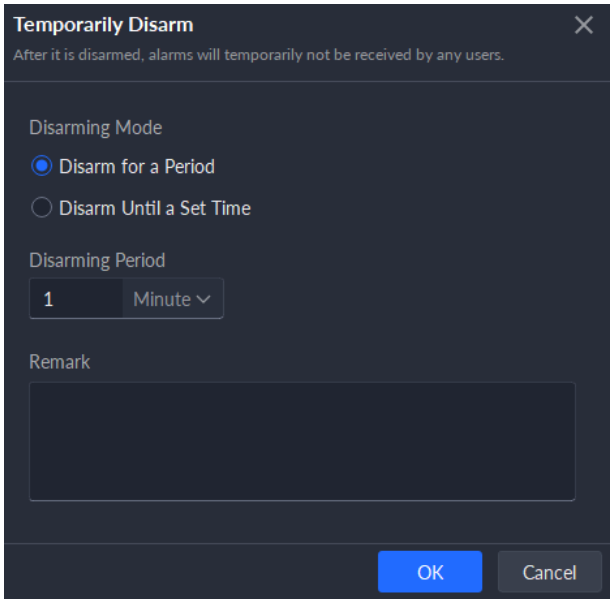
◇ Alarm linkage control for alarm controllers, IP speaker, sound and light alarm in alarm pop-ups.

Figure 3-11 Alarm linkage control



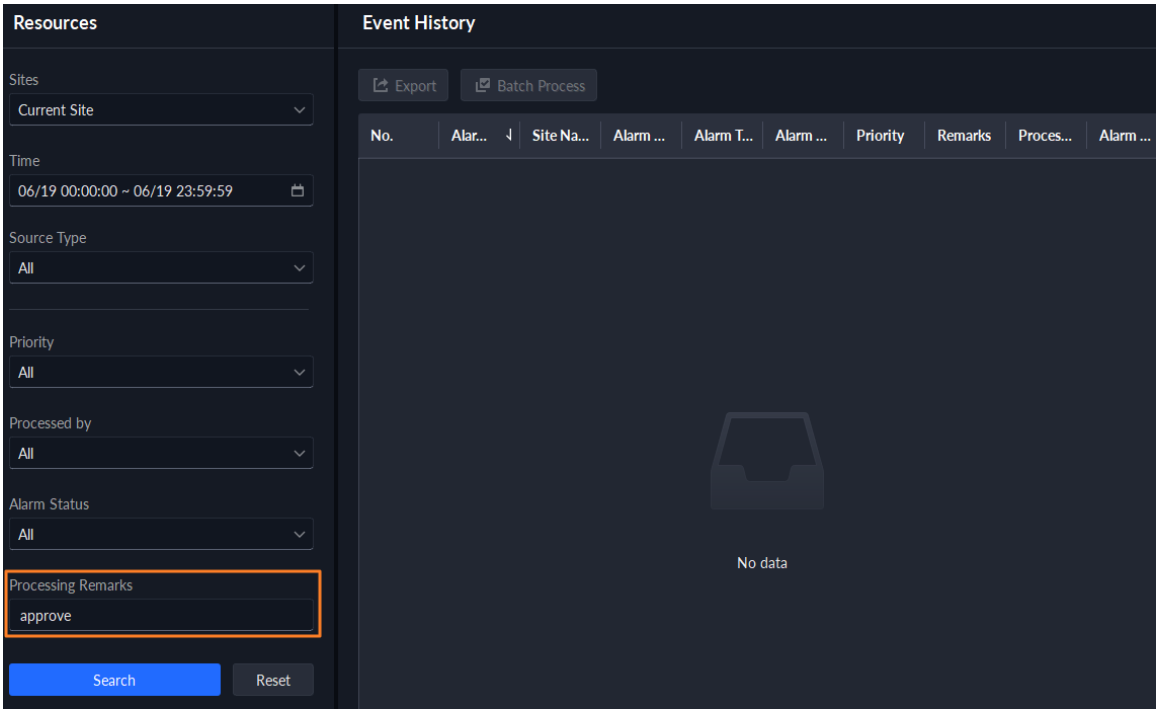
◇ You can disarm an event for a period, or disarm until the defined time.

Figure 3-12 Temporary disarm



◇ When searching for history events, you can search for events by entering remarks that are defined when processing or forwarding the event.

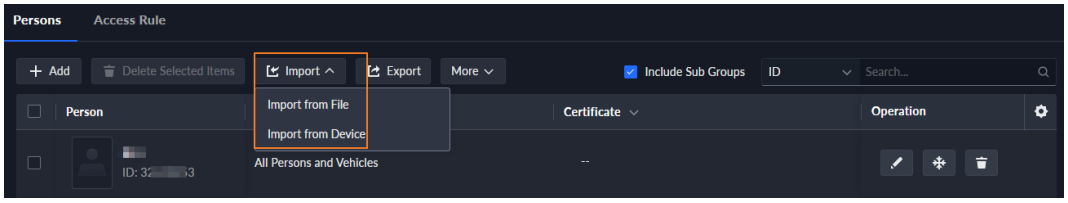
Figure 3-13 Search results by processing remarks



3.4 Person and Vehicle Management

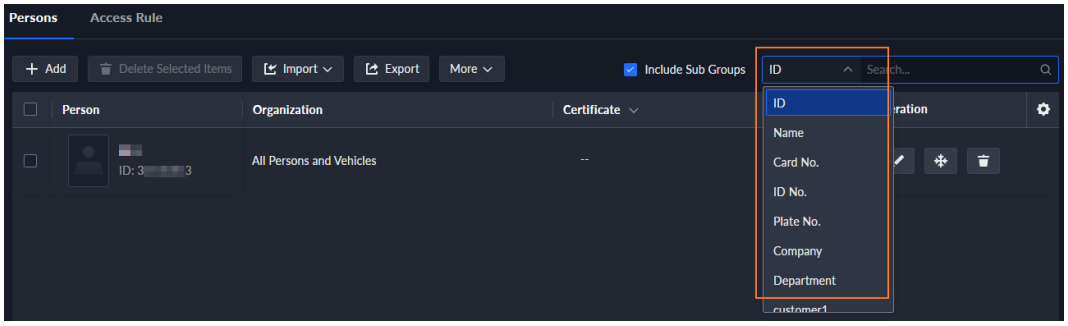
- When importing personnel from access control devices, if the person already exists, you can choose whether to keep the existing data. If not, the existing data will be overwritten by the new one.

Figure 3-14 Import persons



- Supports searching for records by company name on the **Person and Vehicle Info** page.

Figure 3-15 Search for records

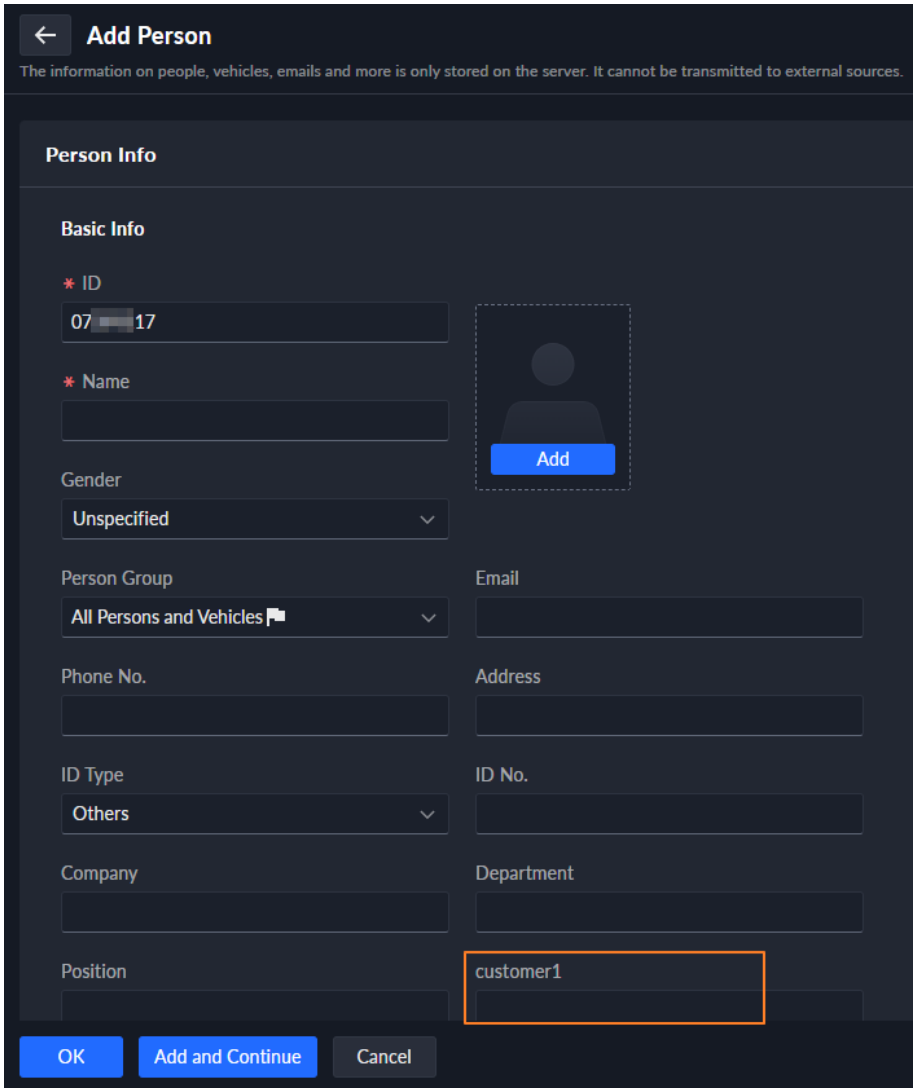


- Supports customizing person extended information, and displays the extended information in the person list.

  1. On the **Person and Vehicle Info** page, select **Person List** > **More** > **Enable More Info**, and then add the extended information.

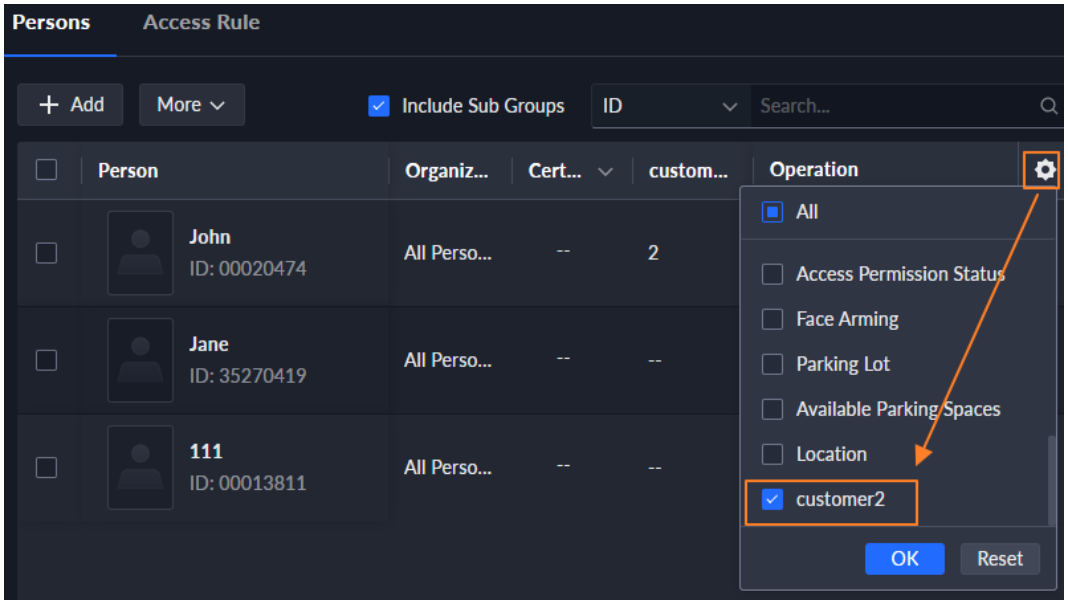
     The information will be displayed in the **Basic Info** section of a person's information.

Figure 3-16 More information



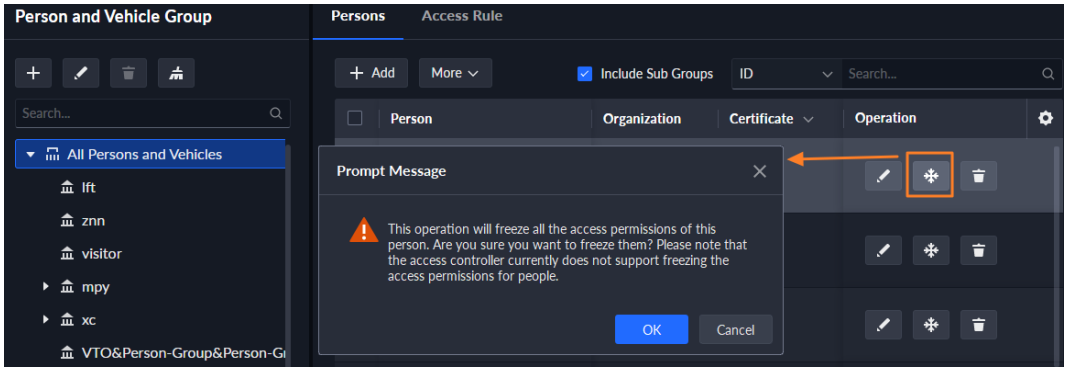
2. Click , and then select the extended information that you defined to display it on the person list.

Figure 3-17 Display extended information



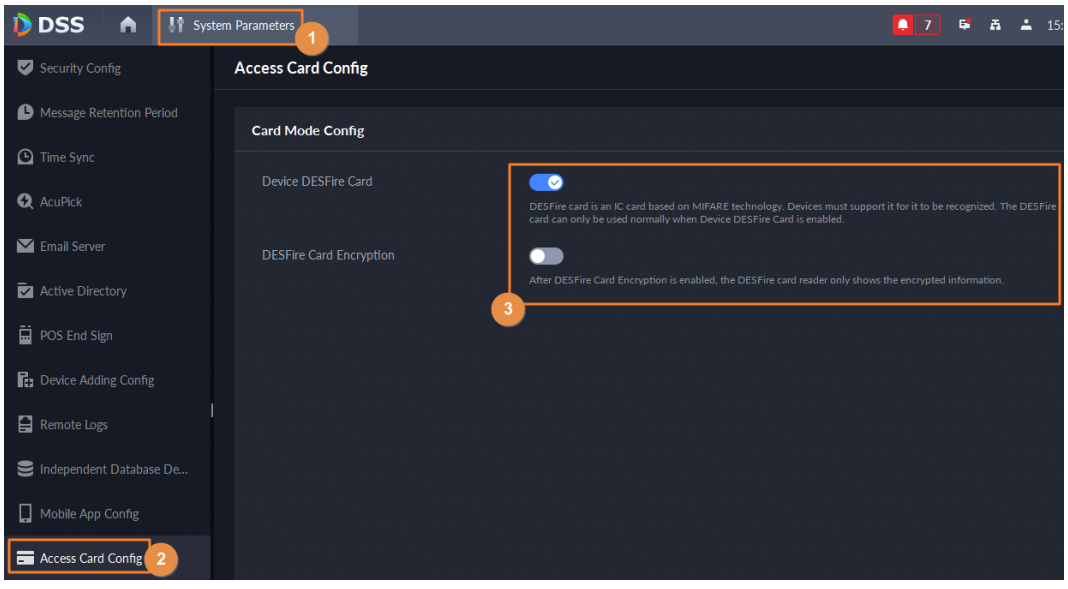
- Supports canceling the access permissions of personnel.

Figure 3-18 Cancel permissions of personnel



- Supports DESFire cards for access.

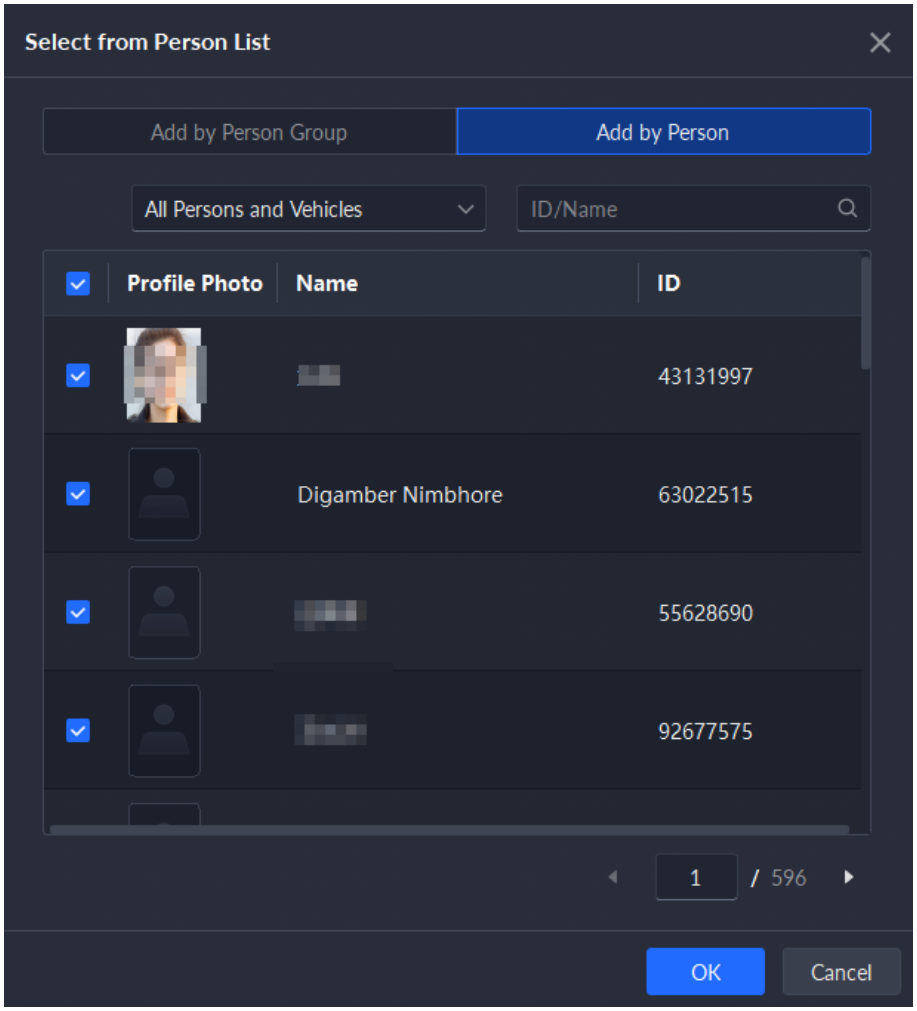
Figure 3-19 Configure DESFire card



3.5 Arming List

When configuring face arming list group, one person can be added to different face arming groups.

Figure 3-20 Add one person to different face arming groups



3.6 DeepXplore

- UI interface refactoring for the DeepXplore. You can search for person, vehicle and records in integrated retrieval.
  - The person retrieval includes searching by feature, searching by image and searching by archives. For the searching by feature and by image, you can set the search target, face or human body.
  - The vehicle retrieval includes searching by feature, searching by image and searching by archives. For the searching by feature, you can set the search target, motor vehicle or non-motor vehicle.
  - For the records retrieval, you can select the search mode from multiple or single. For multiple searching mode, you can configure the record type including metadata records, file records and other records.

Figure 3-21 Person retrieval

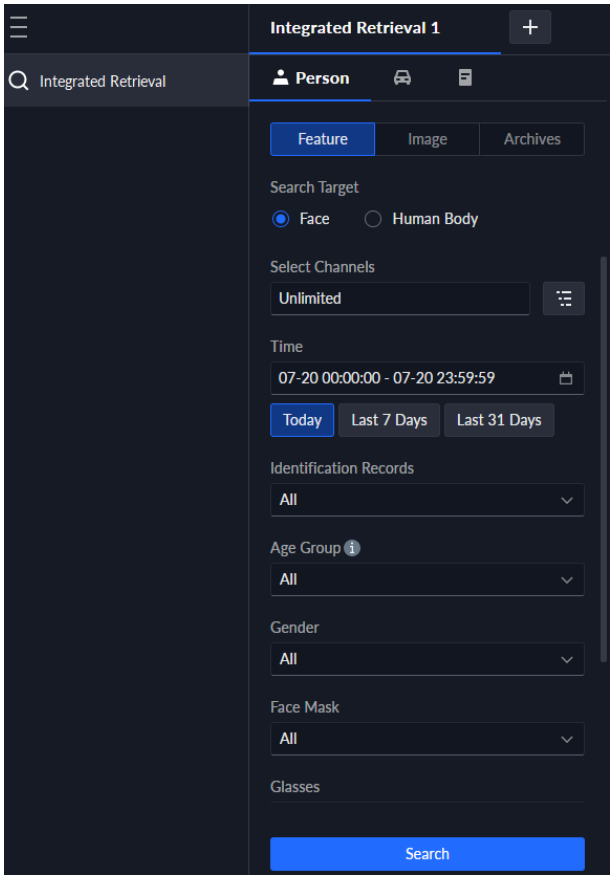


Figure 3-22 Vehicle retrieval

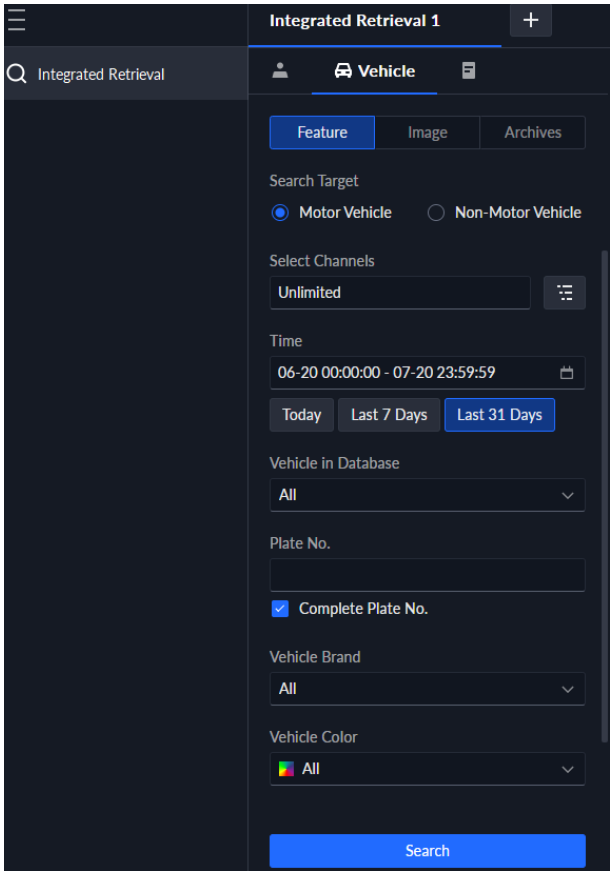
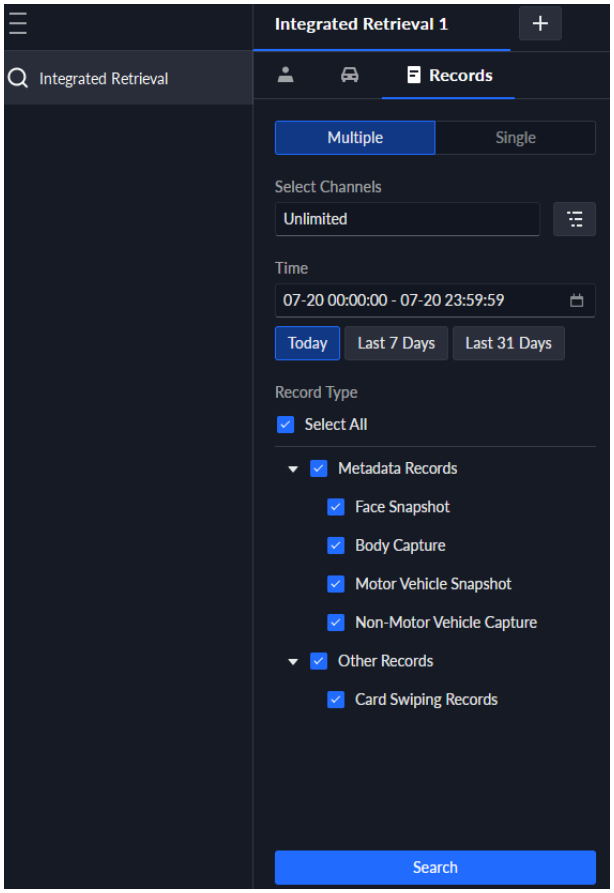
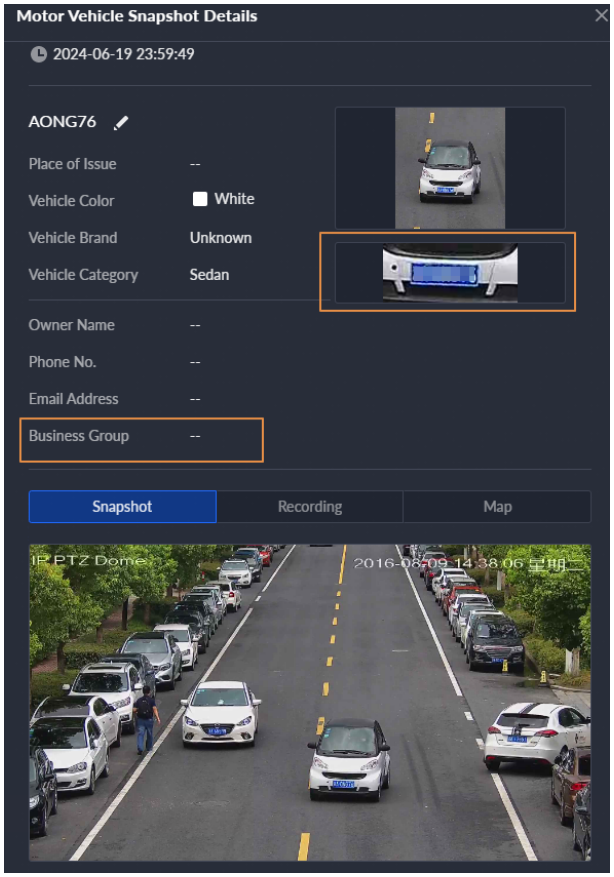


Figure 3-23 Records retrieval



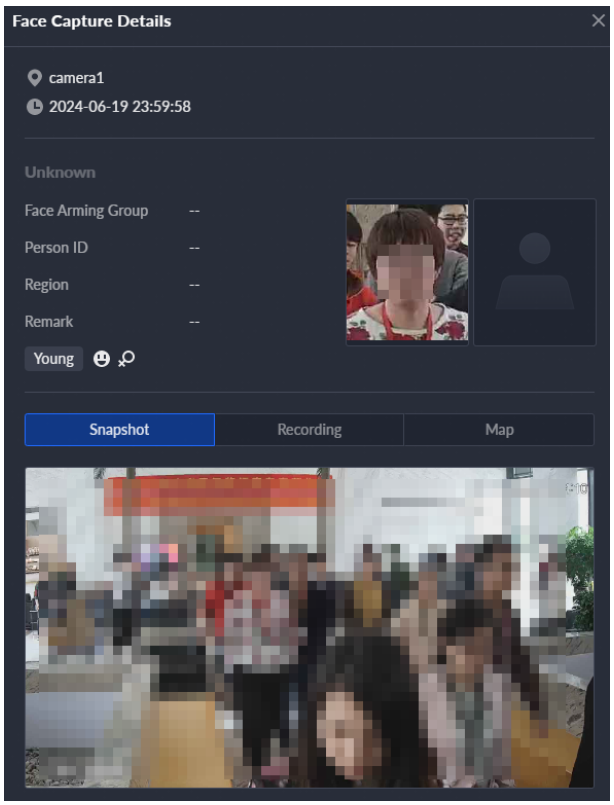
- On the vehicle searching result page, click to view the details. Add the image of license plate and business group information in the motor vehicle snapshot details.

Figure 3-24 Motor vehicle snapshot details



- The snapshots of searching results can be viewed in slideshow-style in the details.

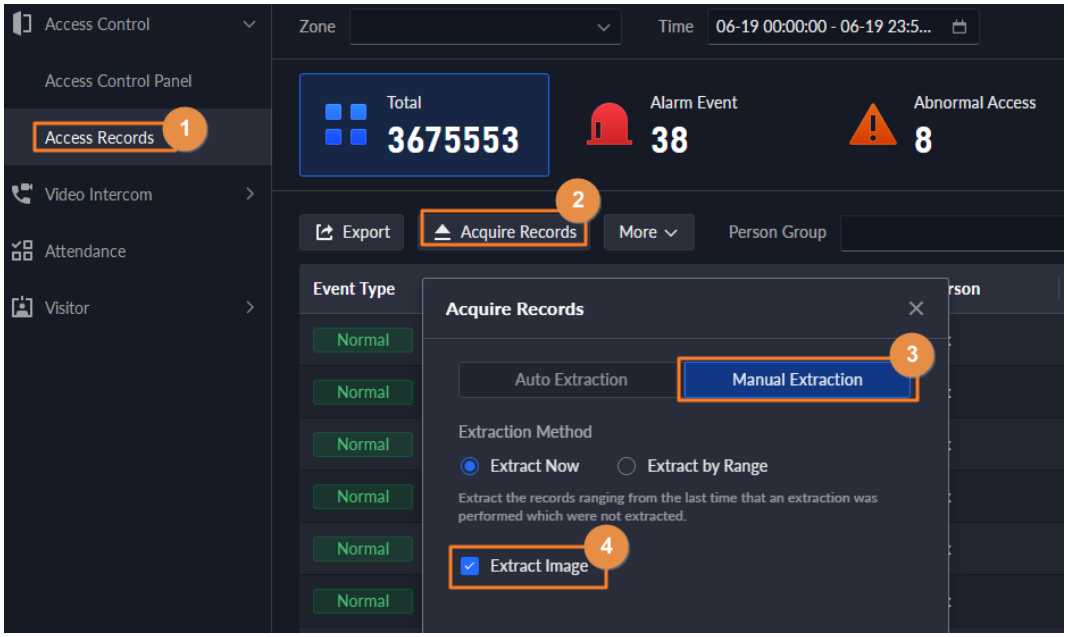
Figure 3-25 Snapshots of searching results



3.7 Access Management

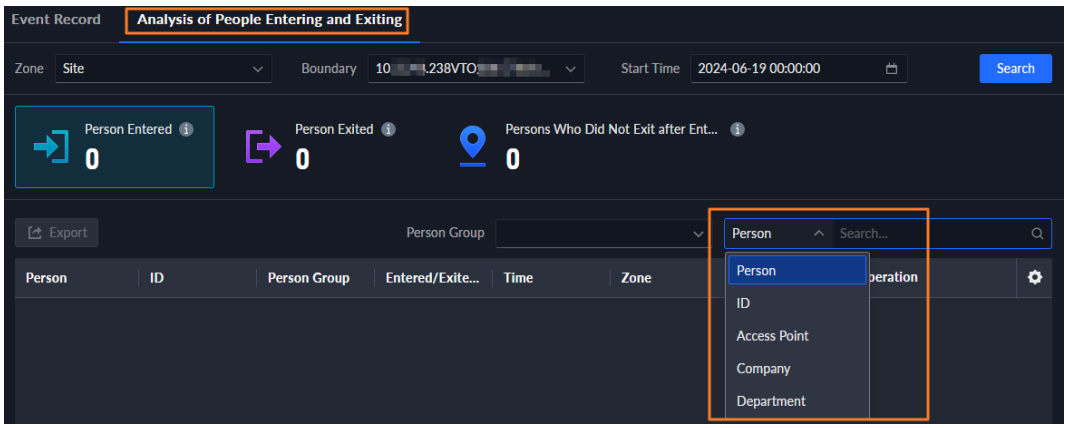
- Access control
  - ◇ You can extract person images when acquiring access records.

Figure 3-26 Extract image



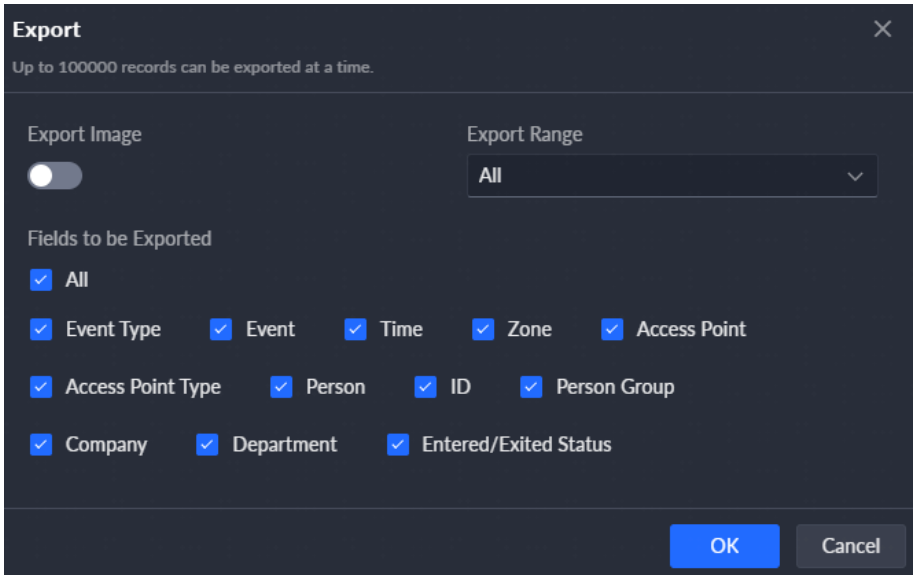
  - ◇ You can search the records of people entering and exiting by selecting **Person**, **ID**, **Access Point**, **Company**, or **Department**, and then entering the keywords.

Figure 3-27 Search entering and exiting records



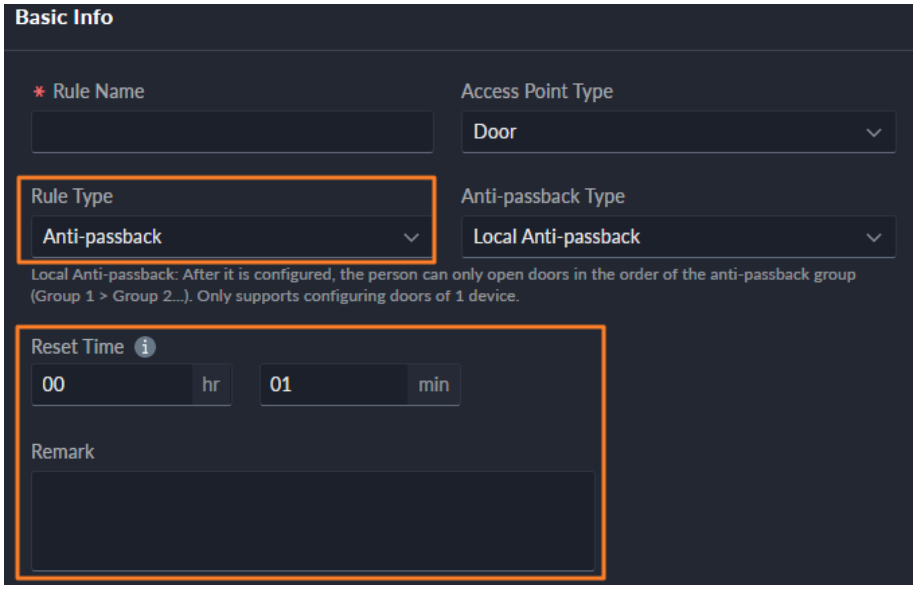
  - ◇ When exporting access records, you can select the fields to be exported.

Figure 3-28 Export access records



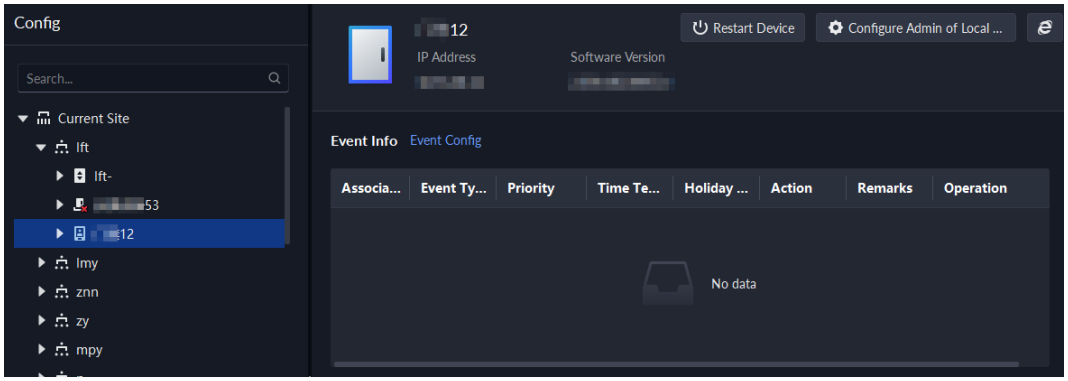
◇ The reset time of anti-passback can be set from 1 minute through 24 hours.

Figure 3-29 Rest time of anti-passback



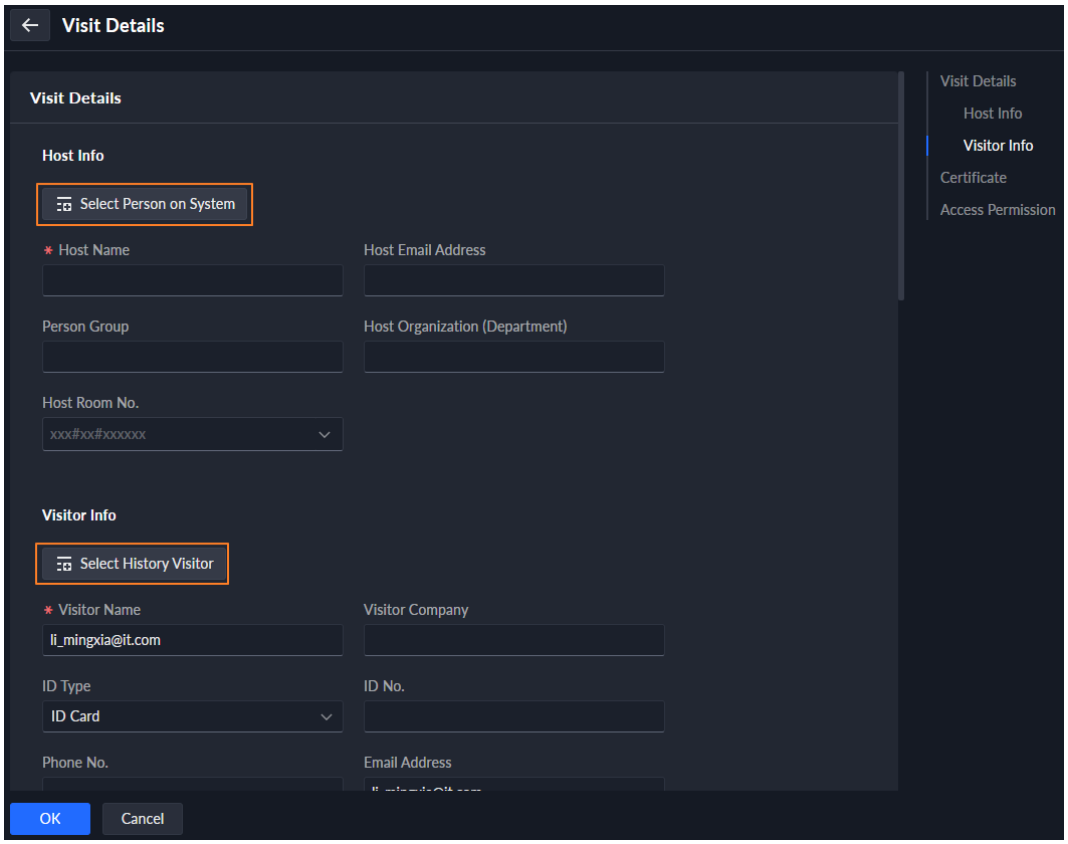
◇ Optimized admin configuration of local device when configuring access control device (select **Device** > **Device Config**, and then select an access control device).

Figure 3-30 Configure admin of local device



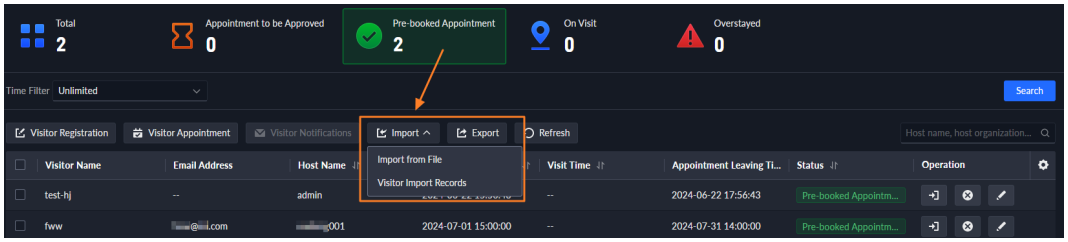
- Visitor management
  - ◇ The platform can automatically fill in the information of the host and the visitor when making visitor appointment or registering visitors.

Figure 3-31 Auto fill in information after selection



  - ◇ You can import the visitor appointment information in batches, and view the records.

Figure 3-32 Import visitor appointment information in batches



◇ The visitor can configure the appointment information or invited by the host. After approval, the visitor will receive an access credential for visit.

Figure 3-33 Configure visitor appointment

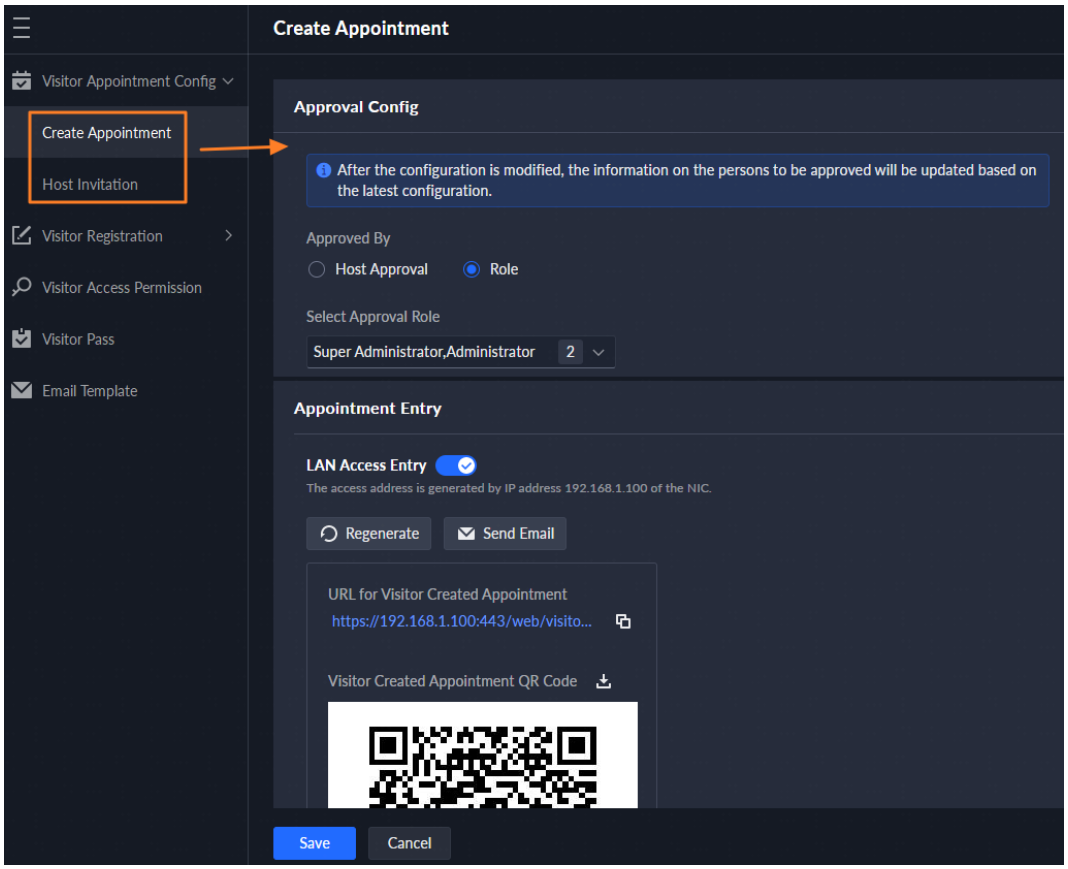


Figure 3-34 Fill in visit information (create appointment by visitor)

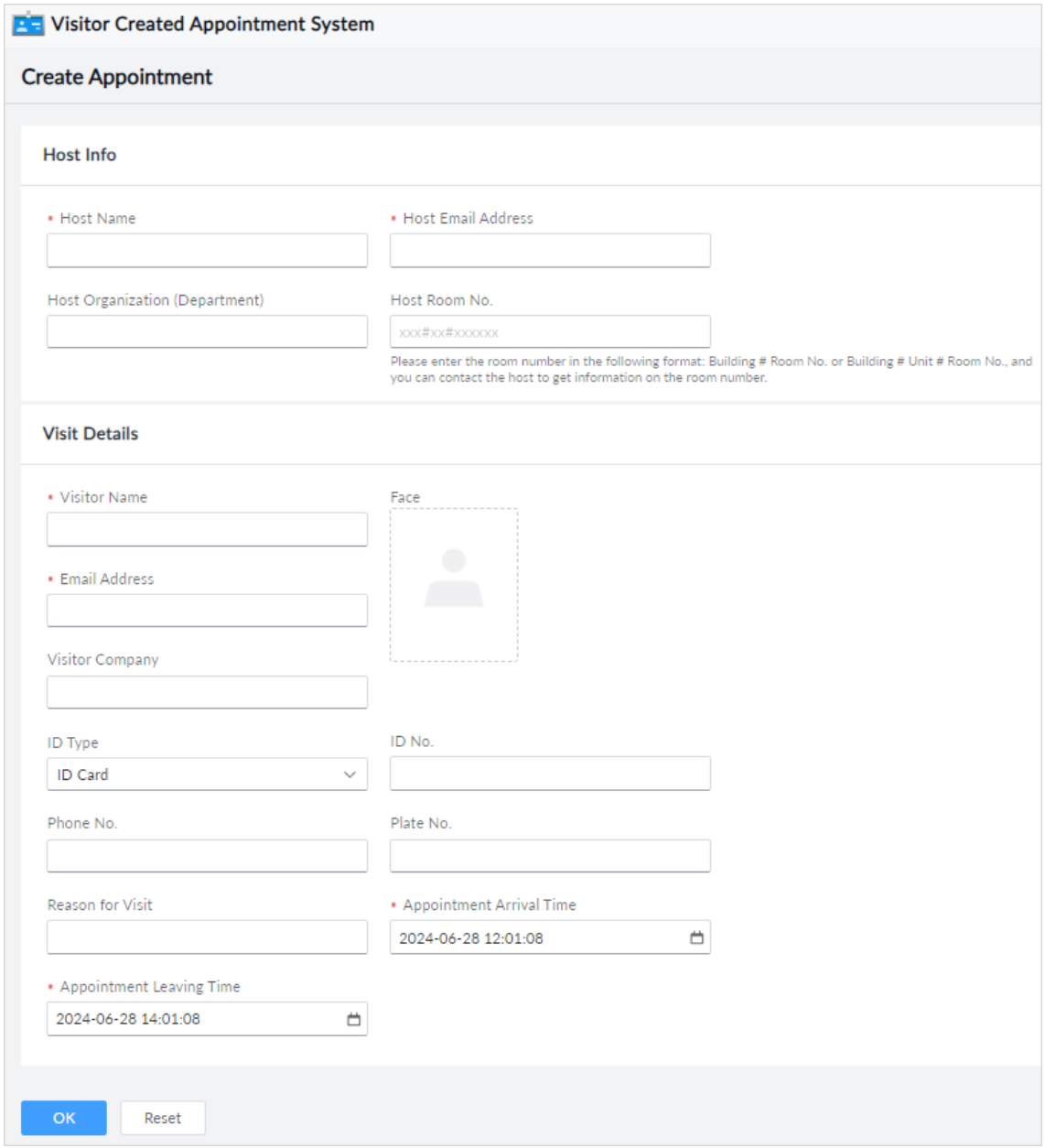
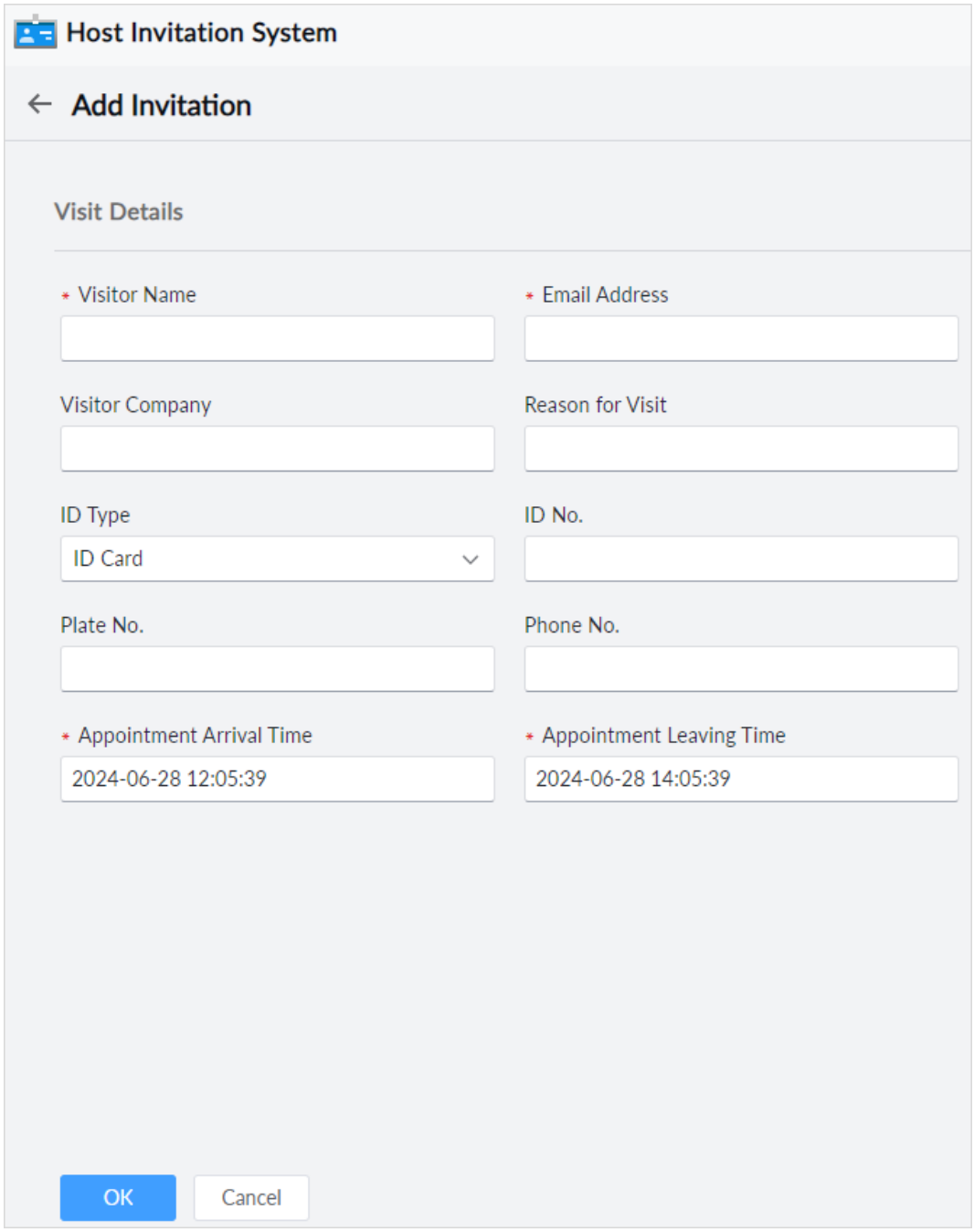
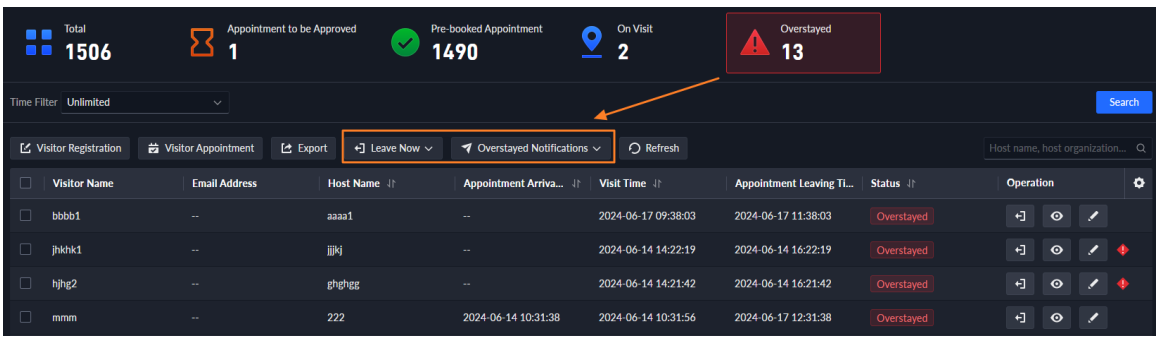


Figure 3-35 Fill in visit information (host invitation)



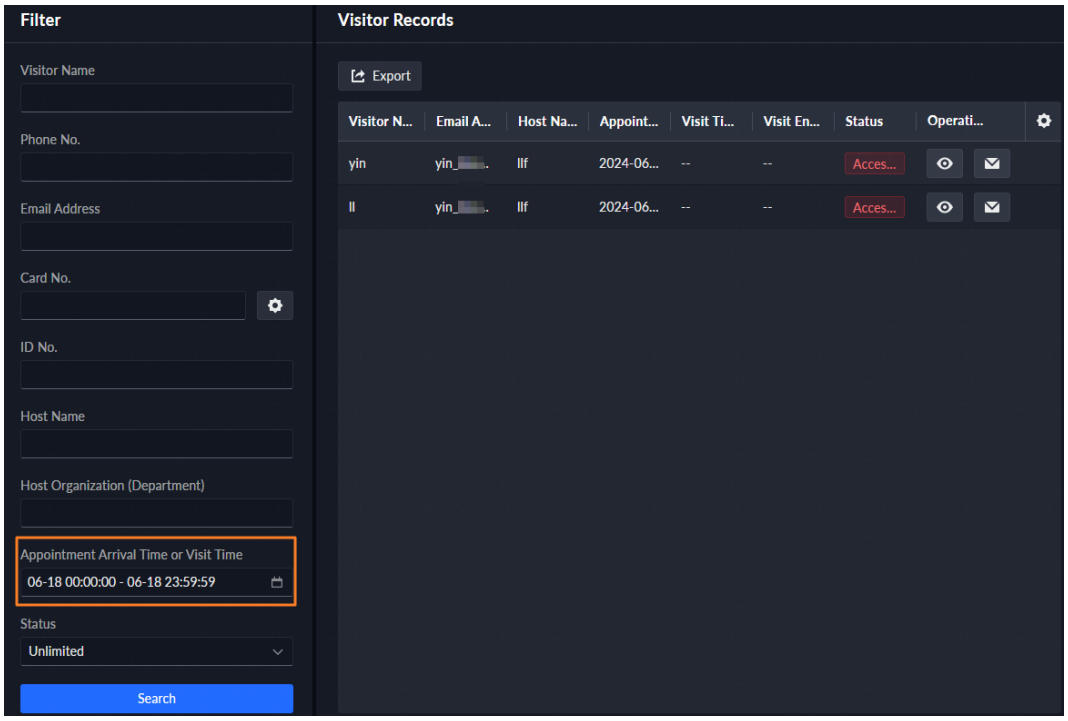
◇ Check out visitors that are overstayed in batches and send notifications to them.

Figure 3-36 Operations related to overstayed visit



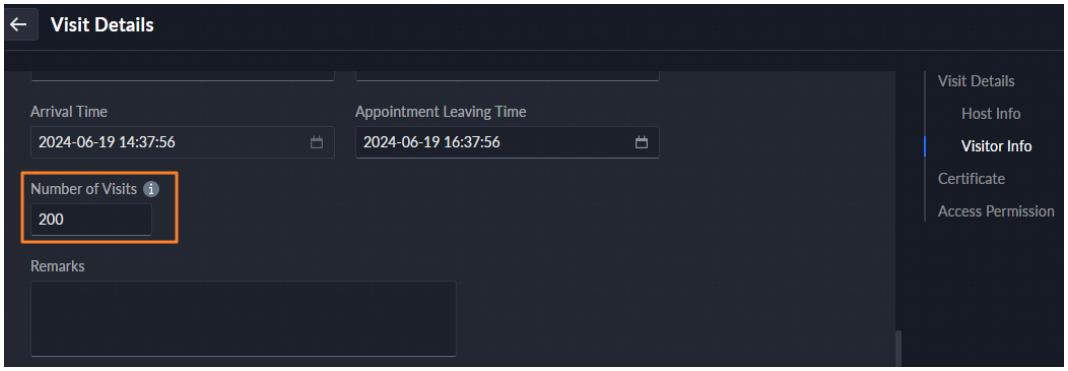
◇ When searching for visit records, the appointment arrival time or visit time can be set to 60 days before at most.

Figure 3-37 Search for visit records



◇ The number of visits when making visitor appointment or registering the visitor can be defined.

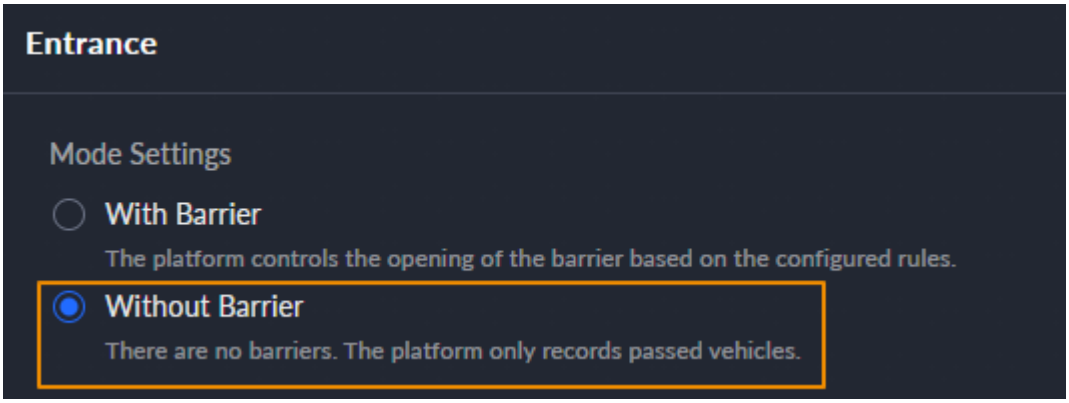
Figure 3-38 Set number of visits



3.8 Parking Lot

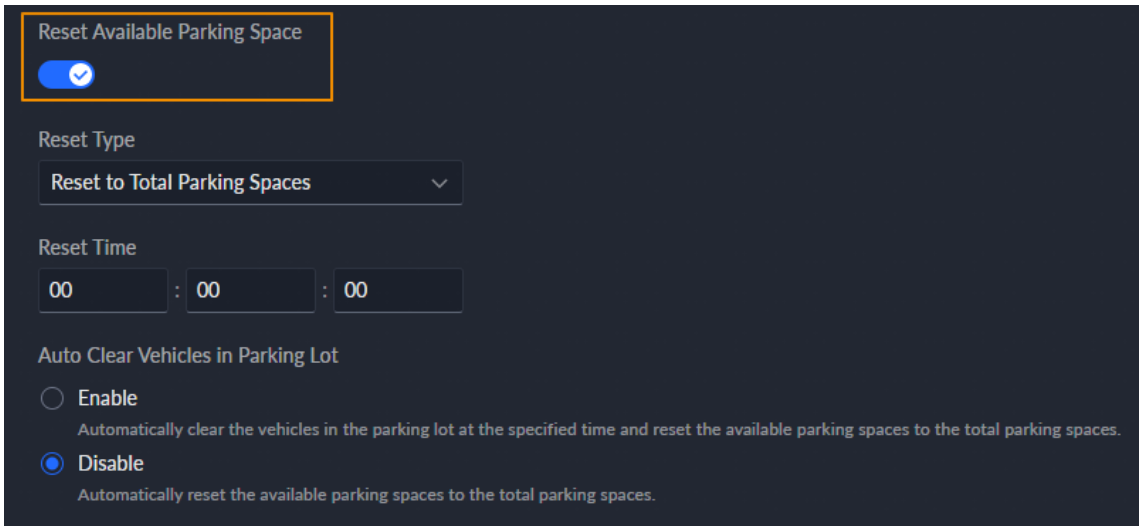
- You can click the search results to view the detailed information including snapshots of vehicles.
- When configure the entrance and exit points, you can select **Without Barrier** mode, and then the platform only records passed vehicles.

Figure 3-39 Without barrier mode



- The entrance and exit points can be added to different parking lots.
- The available parking space can be reset. You can configure the reset time, reset type and whether to enable auto-clearing of vehicle in parking lot.

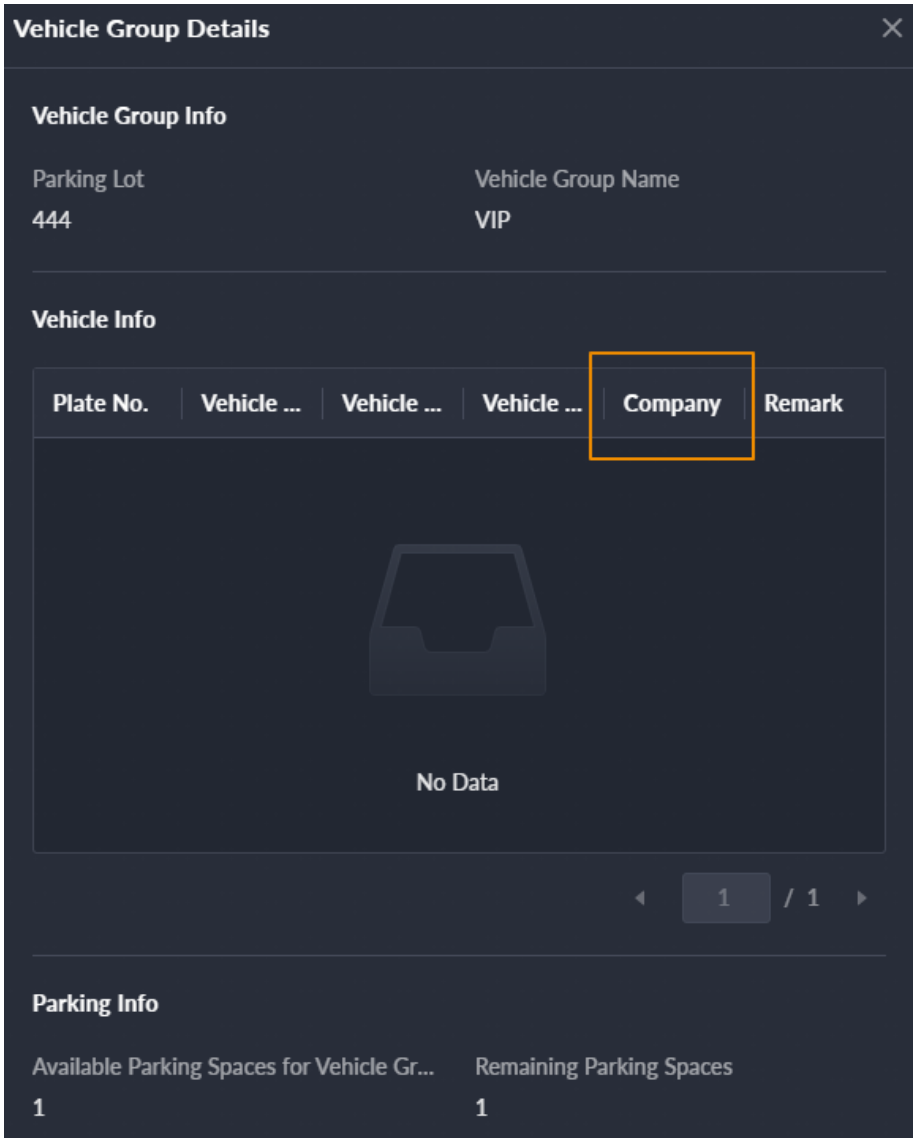
Figure 3-40 Reset available parking space



- You can allocate the parking lots according to company.

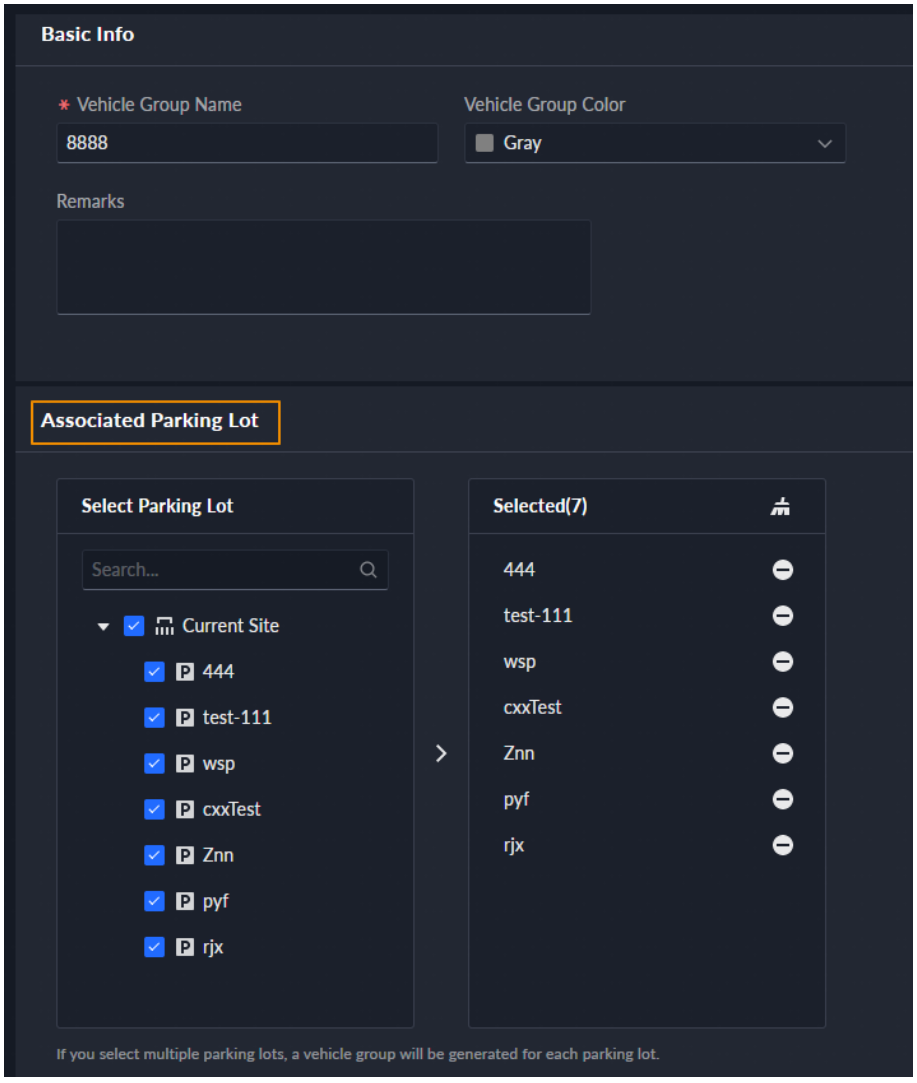
  Manage available parking spaces for vehicle group through vehicle group. and vehicles of the same company can be added to a vehicle group.

Figure 3-41 Allocate available parking spaces for vehicle groups through company



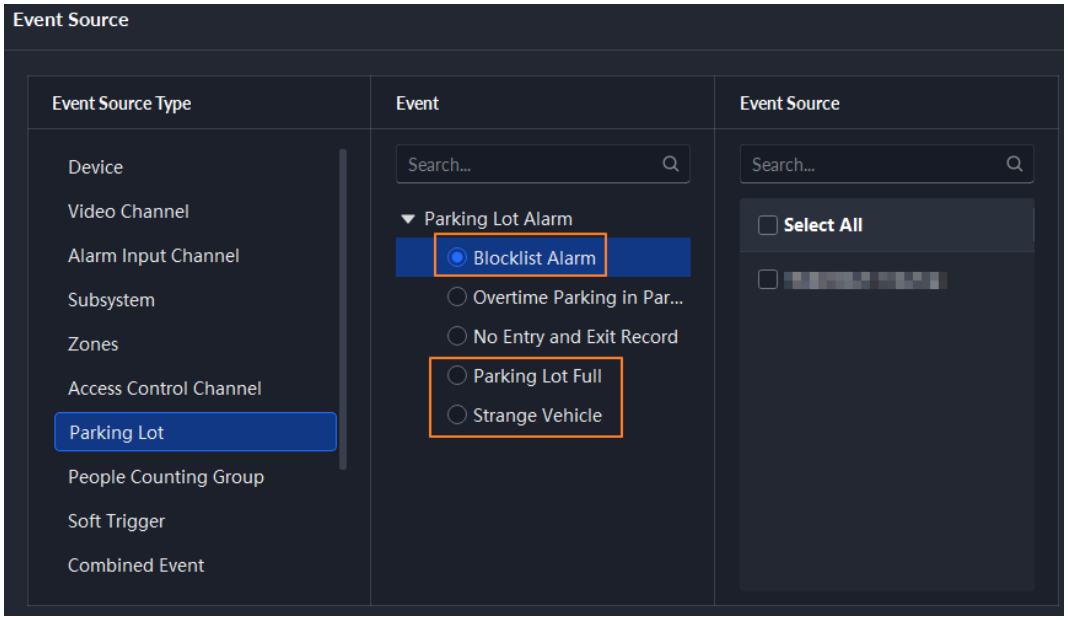
- You can manage vehicle groups according to parking lots.

Figure 3-42 Manage vehicle groups according to parking plots



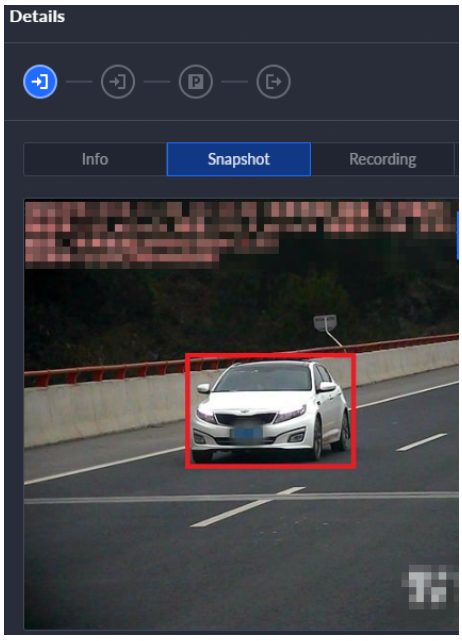
- If parking space counting is enabled, you can configure the event of parking overtime, parking lot full and strange vehicle on the event center configuration page.

Figure 3-43 Configure the events



- Optimized the display of event linkage records.

Figure 3-44 Optimized the display of detailed information



- Pass-through of parking event images captured by vehicle detectors from IVSS/EVS to the platform.
- The snapshots of plate are displayed in the entrance and exit records.

Figure 3-45 Entrance records

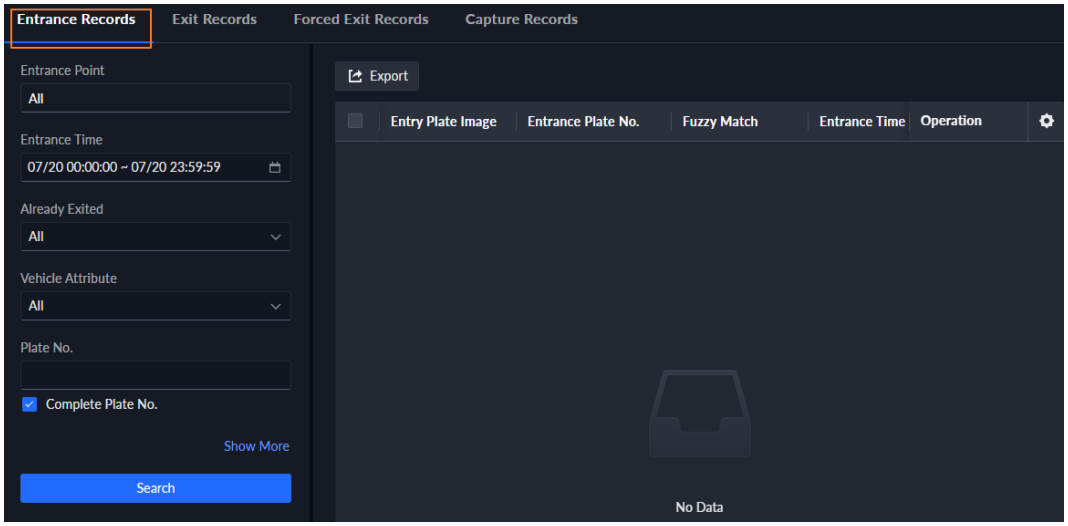
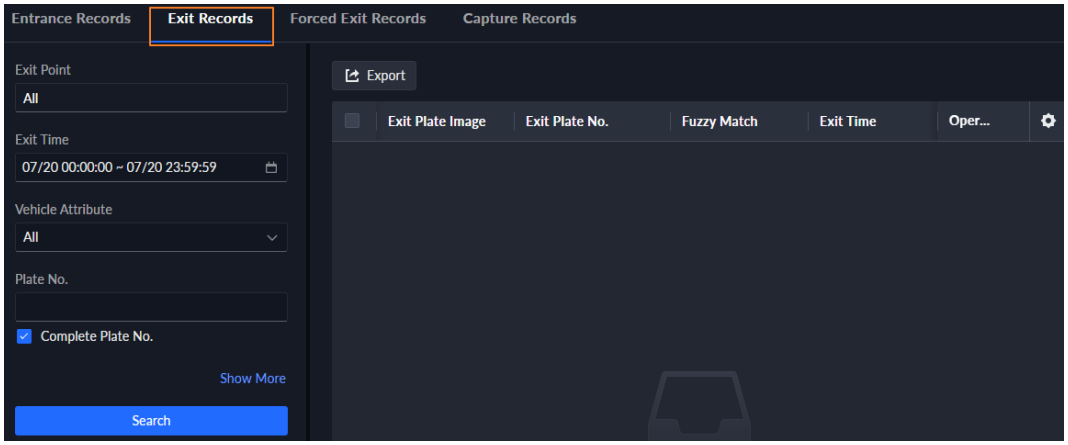


Figure 3-46 Exit records

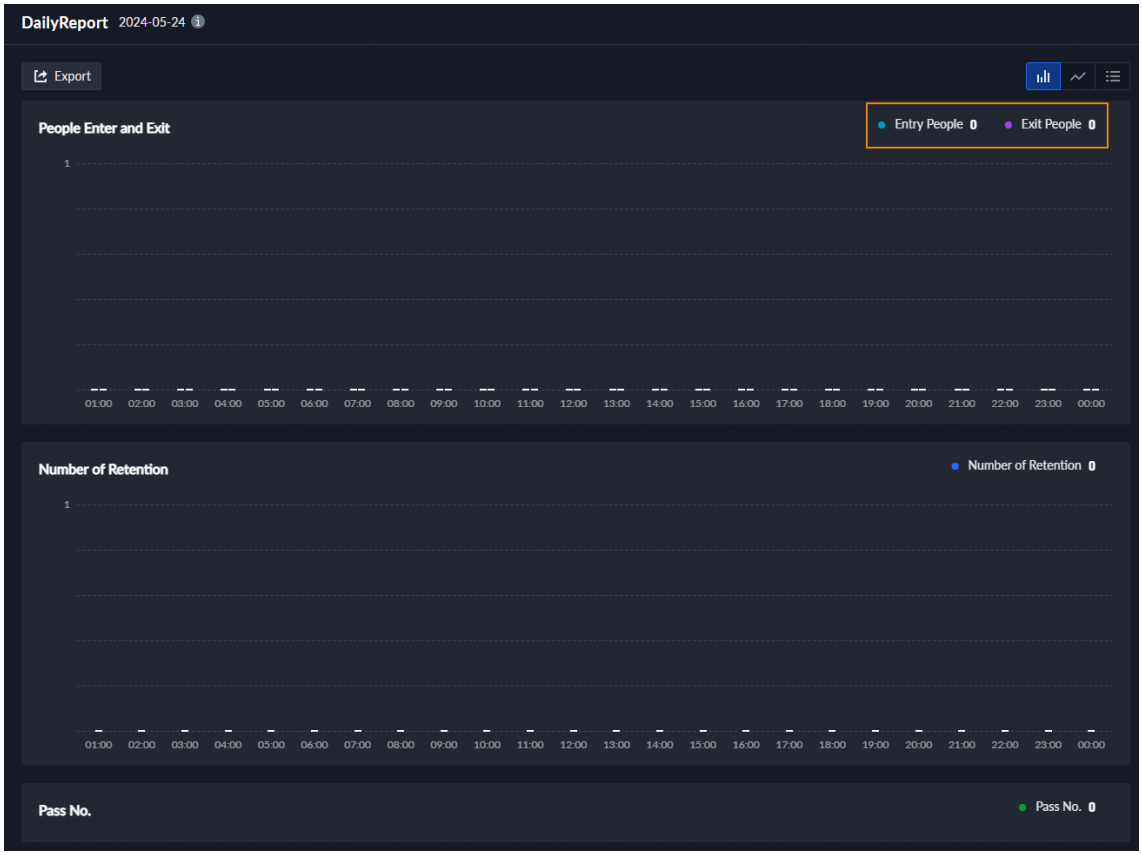


- Optimized record of entrance and exit including information display. You can select the exit point and the exit point and name to display.

3.9 Intelligent Analysis

The chart displays the total of the statistics.

Figure 3-47 The chart displays the total of the statistics

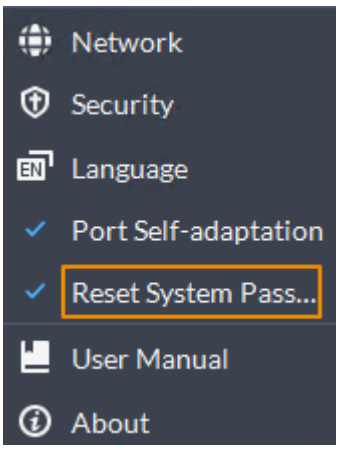


3.10 Platform Management Tool

Supports resetting the password of system users through platform management tool.

1. Export password resetting request file and send the file to the technical support to acquire password resetting file.
2. Import the password resetting file to the platform management tool.
3. Log in to the DSS Pro or DSS Express client to configure the password.

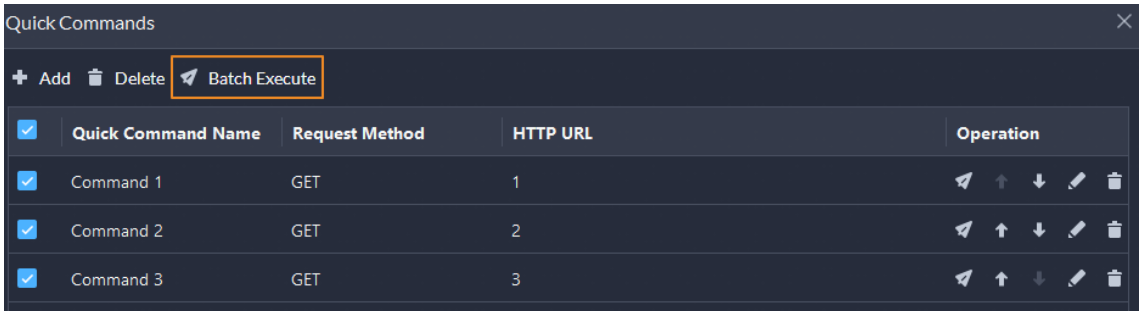
Figure 3-48 Reset system password



3.11 Quick Command

Multiple commands can be executed in batches.

Figure 3-49 Execute commands in batches



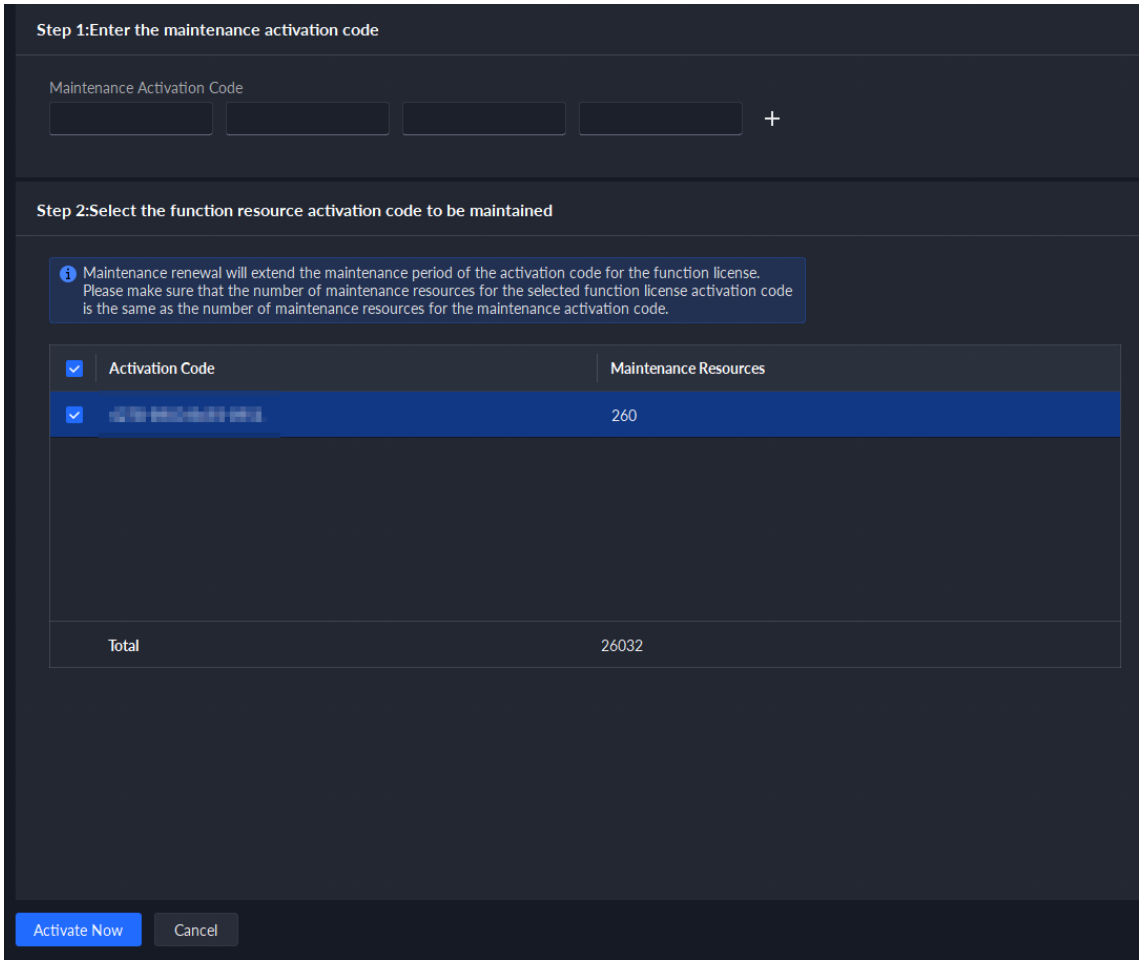
3.12 License

Added the license maintenance function. Supports displaying the maintenance information of licenses and maintenance renewal.

- Online maintenance renewal.

  Supports activate the activation code directly on the platform.

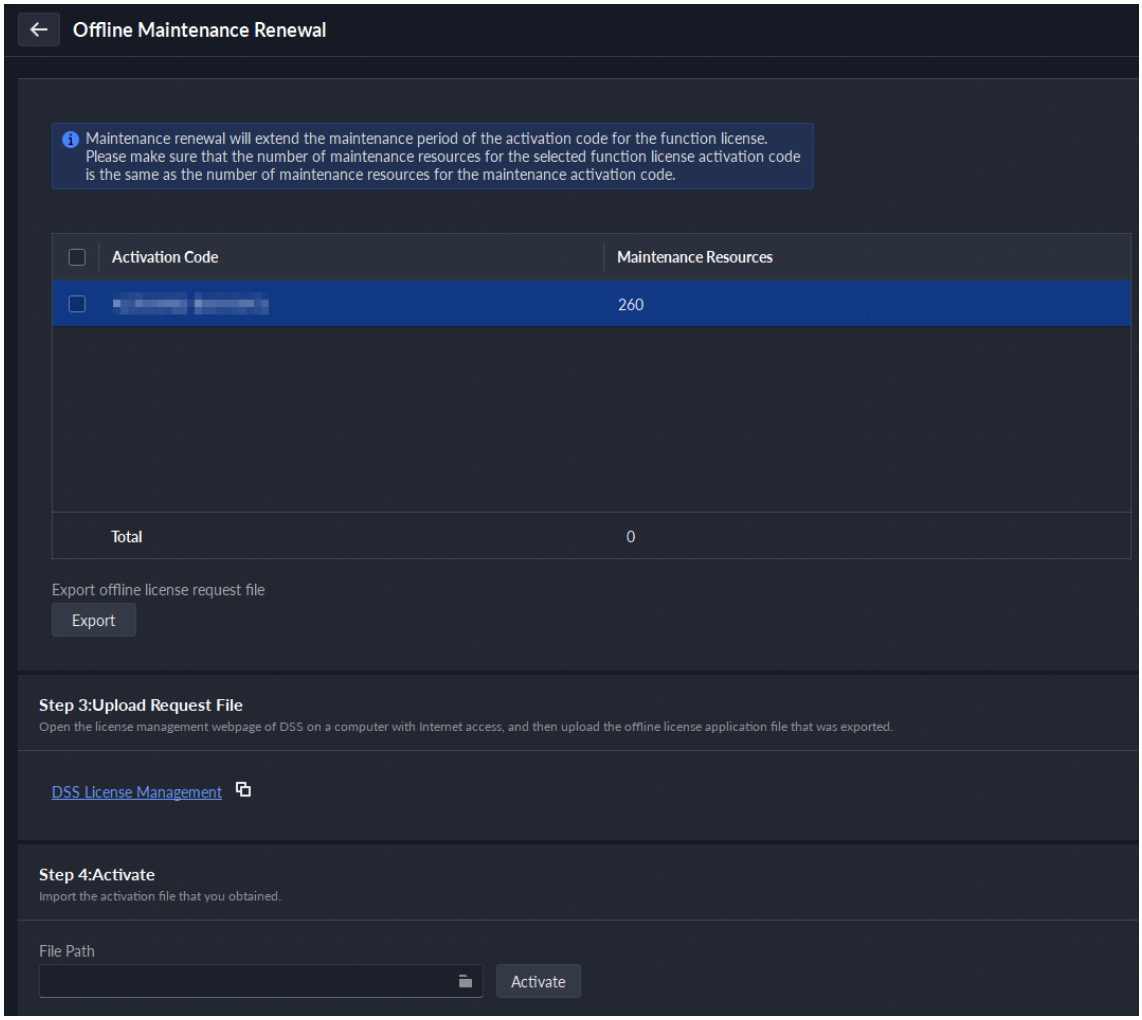
  Figure 3-50 Online maintenance renewal



- Offline maintenance renewal.

  Supports activate the activation code with license request file.

  Figure 3-51 Offline maintenance renewal



4 Operating System Compatibility Description

OS Name	OS Type	Platform Type	Test Result
Windows server 2019 standard (64-bit)	Physical machine	Server	Pass
Windows 10 20H2 Pro (64-bit)	Physical machine		
	Virtual machine		
Windows server 2019 standard (64-bit)	Virtual machine		
Windows 11 21H2 Pro (64-bit)	Physical machine		
Windows server 2022 standard (64-bit)			
Windows 10 20H2 Pro (32-bit)	Physical machine	Client	
Windows 10 20H2 Pro (64-bit)	Physical machine		
	Virtual machine		
Windows server 2019 standard (64-bit)	Physical machine		
Windows 11 21H2 Pro (64-bit)			Pass
Windows server 2022 standard (64-bit)			Pass

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