DSS Express

Release Notes



ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD. V8.8.0

Table of Contents

1 Basic Version Information 1
2 Function Description 2
2.1 Functions 2
2.2 Fixed Bugs 6
3 Function Details 7
3.1 Device Management 7
3.2 User Management 7
3.3 Person and Vehicle Information 10
3.4 Monitoring Center 12
3.5 Event 17
3.6 Arming List 19
3.7 DeepXplore 20
3.8 Video Intercom 21
3.9 Access Control 23
3.10 System Parameters 28
3.11 Backup and Restore 31
3.12 Management 31
3.13 Web Client 33
4 Operating System Compatibility Description 35

1 Basic Version Information

Product name	DSS Express
Version	V8.008.0000000.0
Software package information	General_DSS-Express_Server_Win64_IS_V8.008.0000000.0.R.20260326.exe
OS requirements	• CPU: Intel® Core™ i7-13700K CPU@3.40 GHz • RAM: 16 GB • Network card: 4 × Ethernet ports@1000 Mbps • Hard drive type: 7200 RPM Enterprise Class HDD • DSS installation directory space: at least 500 GB
Release date	April 2026

2 Function Description

2.1 Functions

Function	Description
Device Management	• Supports modifying the SIP information of video intercom devices and access control recognition terminals.
User Management	• Improves the password strength, mainly including: ◇ Users must change their password upon first login. ◇ The password cannot be the same as the last 5 passwords. • Supports selecting the binding type from **IP** , **MAC**, and **IP+MAC** when adding a user. • Supports controlling the recording playback duration and downloading of recording streams through **Resource Operation** permissions. • Supports enabling two-factor authentication when adding or editing a user. After enabling it, if you want to log in to the DSS client, you must enter your login password, the verification code received in your email (if email authentication is selected), or a random verification code (if authenticator authentication is selected). • If you fail to log in twice consecutively, the system will display a random verification code, which is required for subsequent logins. If you fail to log in 5 times consecutively, your account will be locked. • You can add self-service users in batches, facilitating the rapid generation of app accounts. It also supports allocating users to servers for efficient resource allocation.
Person and Vehicle Information	• When adding the person, supports configuring the function of short password access. • Supports generating a Bluetooth card number for door access verification. • If the person has one or more vehicles, you can set the person to the owner or linked person of the vehicle. A vehicle can be linked to maximum 10 people, including vehicle owner and linked person. **Owner Vehicle** means that the vehicle belongs to this person. **Linked Vehicle** means that the vehicle is linked to this person, for example, when a family share a vehicle. • When adding a person, in the **OnePass App** area, after enabling **Generate App Account**, an account will be automatically created. Upon first login to the OnePass App, the account and initial password will be automatically sent to their email address for logging in to the app. You can select the service application scope of the account, that is, the services that the account can use. By default, it includes access and visitor services. • Supports searching for people by email.

Function	Description
Monitoring Center	• Users can quickly identify whether a device is solar-powered by the device icon on the map, and view the battery information.
	• Improves the video playback functions, including playback speed adjustment, timeline zooming, and thumbnail. ◇ Playback speed adjustment: Supports adjusting playback speed while pausing playing back the video. ◇ Timeline zooming ○ Click + or -, or use your mouse wheel to conveniently zoom in and out of the timeline. ○ Hold your mouse and quickly release while scrolling to accelerate timeline scrolling for faster location of recordings across different time periods. ◇ Thumbnail ○ Click a thumbnail to quickly locate a recording moment. ○ Quickly access thumbnail search via the thumbnails button above the timeline. ○ Thumbnail search span increased to a maximum of one week. ○ Click a search result to play the recording. • In the video playback window, supports search by tripwire, area, thumbnail and smart motion detection; supports switching the stream through the right-click menu; and supports searching for recordings of a specific type.
	• Improves the event panel function. Supports viewing event details, filtering events by criteria, and viewing event recordings (automatically linking to the 10 seconds of recording before the event, or automatically linking to the recording closest to the event if there is no recording in the previous 10 seconds). • AI overlay supports rule overlay, area overlay, bounding box overlay, and SMD bounding box overlay. • If the device to which the channel belongs (for example, NVR, IVSS) supports the AcuPick object recognition function, the platform can use the AcuPick capability of devices to automatically recognize the objects. • Video wall: Brand new layout, and it supports public and private video wall tasks and plans. ◇ Public tasks or plans: Tasks or plans that can be viewed by all authorized users. ◇ Private tasks or plans: Tasks or plans that can only be viewed by the current user.
Event	• Supports configuring alarm conditions. Alarms will be generated only when the event source generates an event and the defined conditions are met. • Add events such as user login and logout, 4G camera battery anomaly alarms, and more.

Function	Description
Arming List	• When adding face to the arming list, it supports automatic image scaling and adding to the arming list. • Adds text-defined alarms. The server sends text-defined alarm tasks to the device. When the device triggers an event, the server will send the alerts to the event center.
DeepXplore	Improves the WizSeek function. • Supports fast arming on the WizSeek page. • Supports exporting personnel and vehicle search archives. • Supports displaying the search progress during the search.
Video Intercom	• Call group ◇ For fence VTO, point to the group name, and then you can click  to select app users for the group by person group or room; for unit VTO and villa station, you can only select app users for the group by person group; for second confirmation stations, you cannot edit the group. ◇ Supports adding call groups. • Call center: Supports clicking **By Room** to call different devices, or clicking **By User** to call app users. • Information release: Supports selecting receivers by resource or by person group. • Video intercom records: Supports searching for records by resource or by user.
Access Control	• Supports enabling the short password access function for the access control devices. After it is enabled, the person can unlock the door by entering the short password only. • Access records support accurate search by card number. • For **Analysis of People Entering and Exiting**, supports batch removal of people who did not exit after entering, up to 10,000 people at a time. • On the access control panel page, supports operations for all or selected access control devices, including normally open, restore, normally closed and more. Supports filtering the devices by status. • Supports filtering the devices by status on the access control panel page. • Supports viewing and exporting specific events. • Supports viewing and exporting analysis of people entering and exiting. • Visitor ◇ Supports customizing fields for the visitor appointment page, the email template, and the WhatsApp message template. ◇ Improves the function of visitor appointment, including adding visitor appointment on the platform, visitor self-service appointment, and inviting visitors through the host. ◇ Update the appointment approval feature.

Function	Description
System Parameters	• In **General**, you can set the date and number formats based on your country or region. The settings will take effect after you open the page again or log in to the client again. • In **Security Config**, you can enable two-factor authentication. After enabling it, you can combine password authentication with email, Microsoft Authenticator, or Google Authenticator to improve your account security. • In **Email Server**, supports selecting Outlook (default) and Gmail mail service providers when using OAuth 2.0 authentication; supports setting the email language. The system's built-in email templates or fixed email content will be sent in the defined language (English by default). • In **WhatsApp Integration Config**, supports API integration with the system to enable automated message sending, configuring template, and more. • Adds device information retrieval timeout configuration.
Backup and Restore	Add the backup and restoration of the function data.
Management	• Add the integrity check function. • In **Local Settings** > **Video** > **General**, for **Switches to Main Stream when Window Maximized** and **Stream Switching Rule**, you can select the settings are **Effective for Live Video** or **Effective for Live Video and Playback**. • In **Local Settings** > **Video** > **Video Playback**, supports enabling **Auto Play Videos**. After enabling this function, the system will automatically play the recordings after you search and find recordings, enable synchronization play, drag the timeline to a specific time to play the recording, and search for recordings of a specific time through the calendar on the **Playback** page. • In **Local Settings** > **Shortcut Keys**, when selecting **PC Keyboard**, you can view the video wall operation shortcuts, facilitating smooth operation when there are many windows on the video wall, and easily resizing windows when alarms are displayed on the video wall. • In **Video Download** > **Download Video** > **File**, when downloading files in batches, you can enable the transcode function.
Web Client	A brand-new web client allows for quick and easy access to the platform. • The web client mainly provides functions such as monitoring center, event center, DeepXplore, access control, parking lot, and intelligent analysis. For differences between the web client and the PC client, see *System Performance and Comparison List*. • After logging in to the web client, you need to create or import a CA certificate according to the on-screen prompts. Otherwise, services such as live view, playback, and record image display on the web client will malfunction. Failure to download and install the root certificate will also affect these services. Please download and install it according to the on-screen prompts.
Others	Only TLS1.3 and TLS1.2 protocols are supported.

2.2 Fixed Bugs

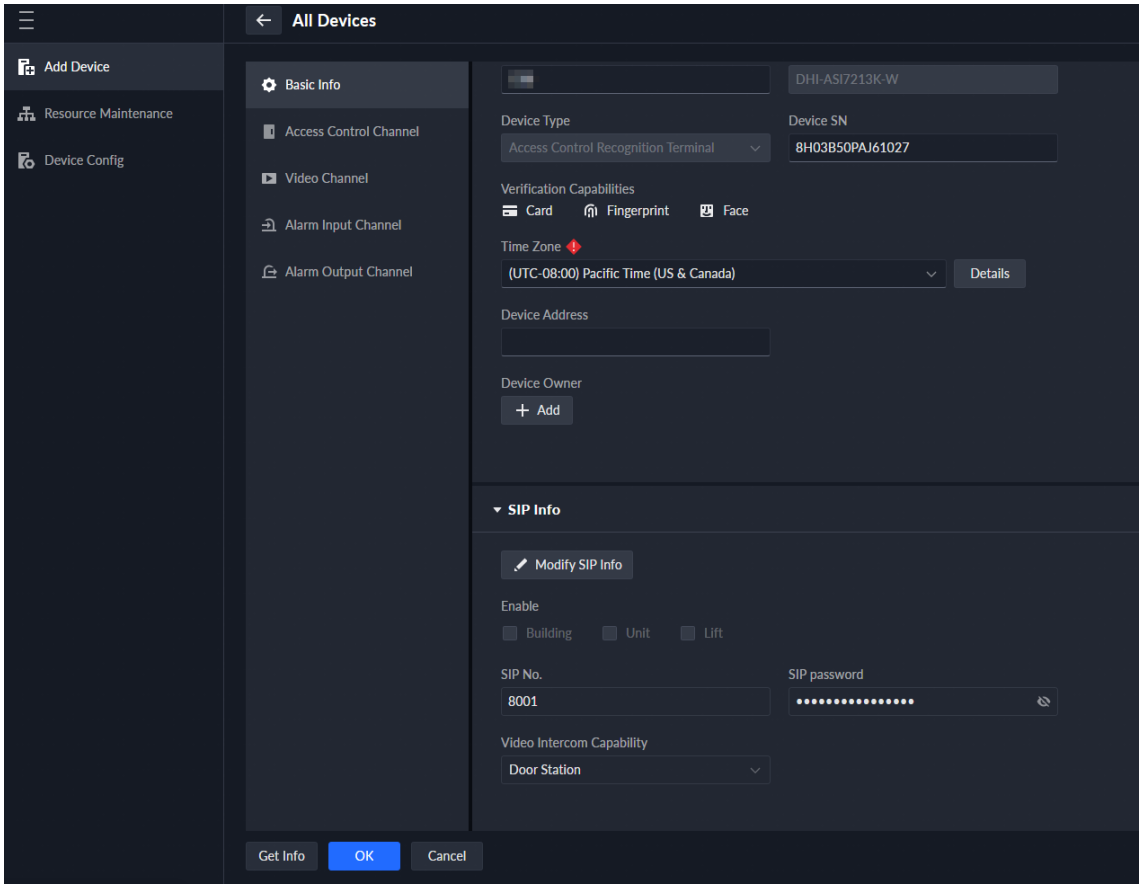
- In the alarm linkage pop-up window, when double-clicking an image to enlarge it, the client cannot be unlocked after locking it.
- The alarm linkage snapshot in the event center does not display the rule lines.
- When the disk is full, and you view the linkage recordings from event details for the first time, the cover frame of the recording might be incorrect.

3 Function Details

3.1 Device Management

- Supports modifying the SIP information of the video intercom devices and access control recognition terminals, such as SIP number, SIP password and more.

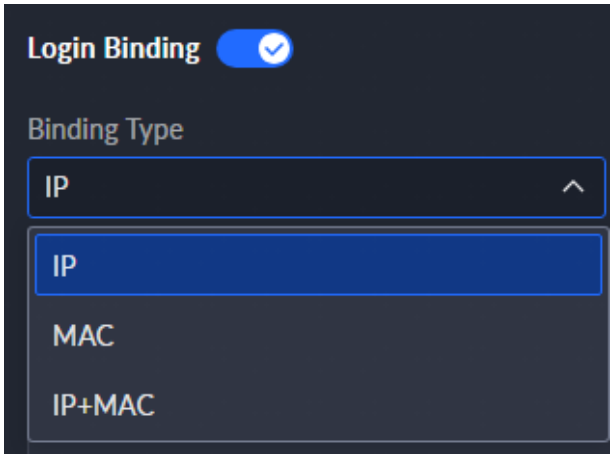
Figure 3-1 Modify the SIP information



3.2 User Management

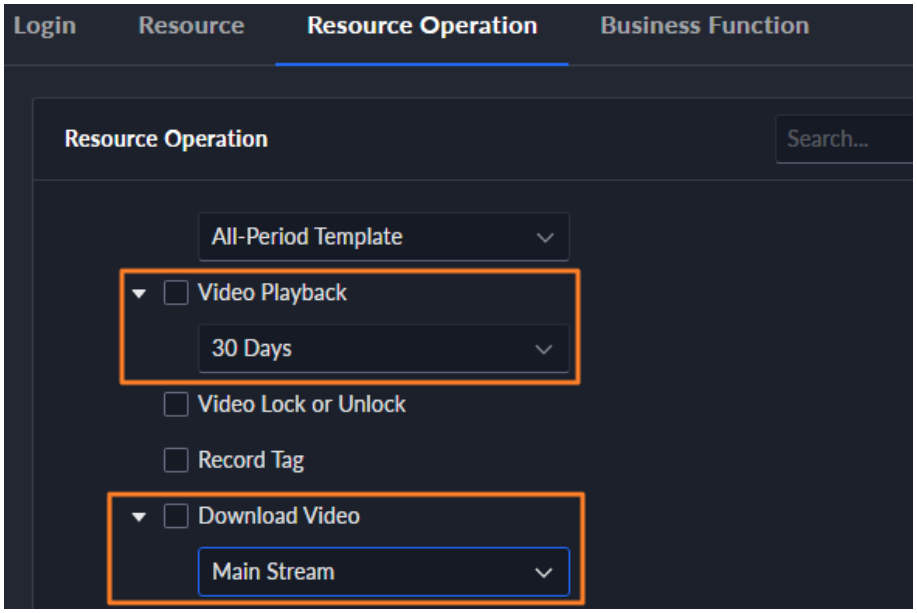
- Add the login binding type. When adding a user, users can select the binding type from **IP** , **MAC**, and **IP+MAC**.

Figure 3-2 Select binding type



- Supports controlling the recording playback duration and downloading of recording streams through **Resource Operation** permissions.

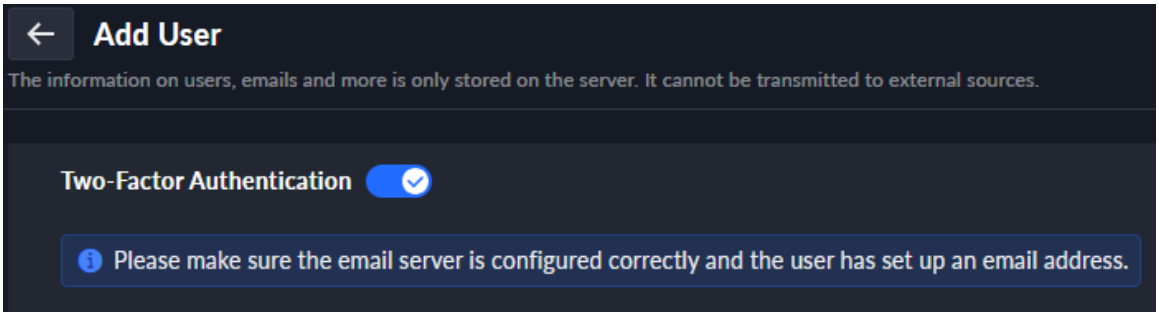
Figure 3-3 Control permissions



- Supports enabling two-factor authentication when adding or editing a user. After enabling it, if you want to log in to the DSS client, you must enter your login password, the verification code received in your email (if email authentication is selected), or a random verification code (if authenticator authentication is selected).

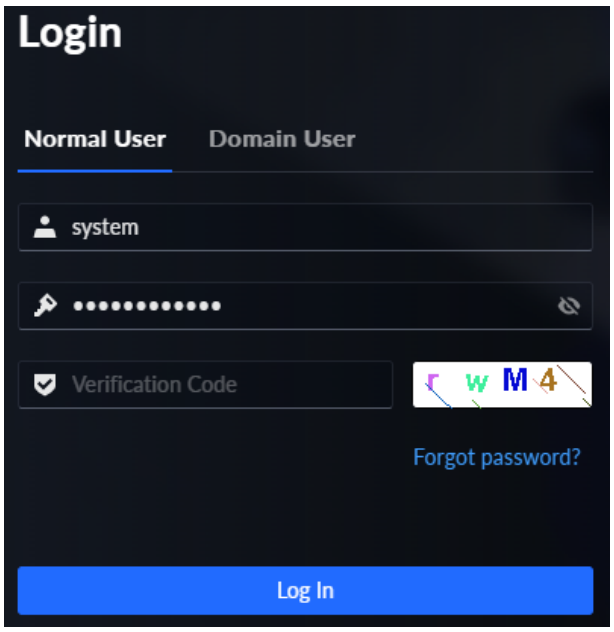
  ◇ You need to enable two-factor authentication from **System Parameters** > **Security Config** first.
  ◇ If authentication fails, you can log in by answering security questions or by resetting your system password to disable two-factor authentication.
  ◇ We recommend that users of the added site (in multi-site deployment) or the sub platform (in cascade deployment) disable the two-factor authentication function; otherwise, they will need to authenticate every time they log in to the client.

Figure 3-4 Two-factor authentication



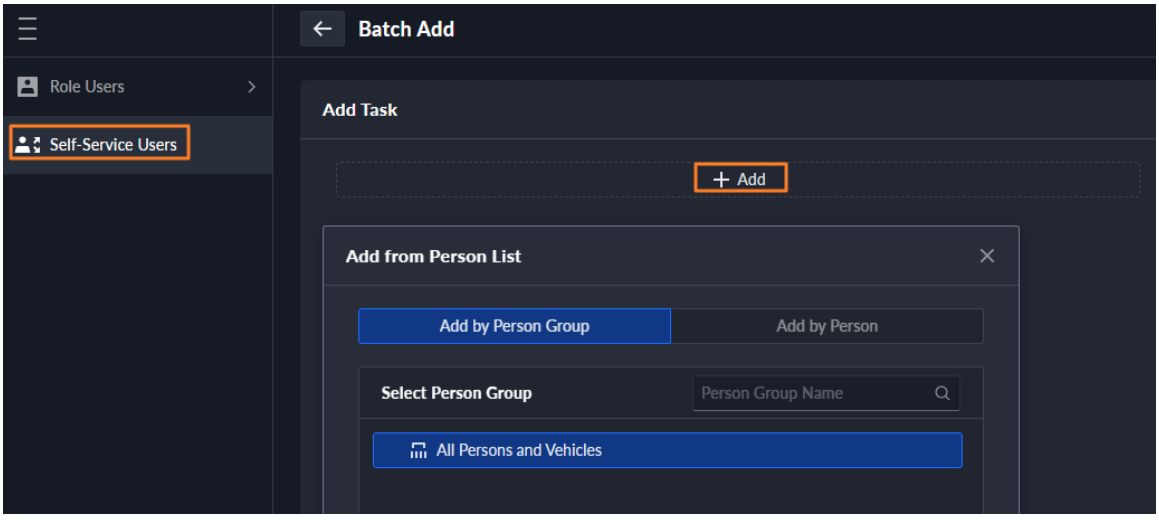
- If you fail to log in twice consecutively, the system will display a random verification code, which is required for subsequent logins. If you fail to log in 5 times consecutively, your account will be locked.

Figure 3-5 Login verification



- You can add self-service users in batches, facilitating the rapid generation of app accounts. It also supports allocating users to servers for efficient resource allocation.

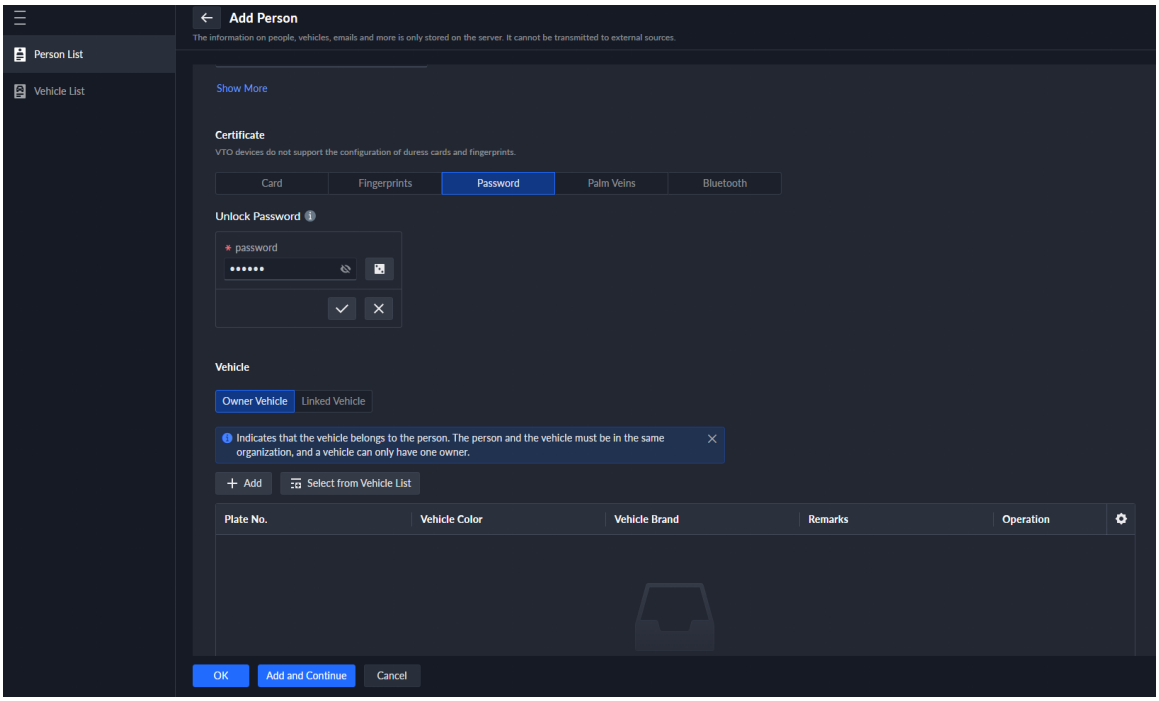
Figure 3-6 Add self-service users in batches



3.3 Person and Vehicle Information

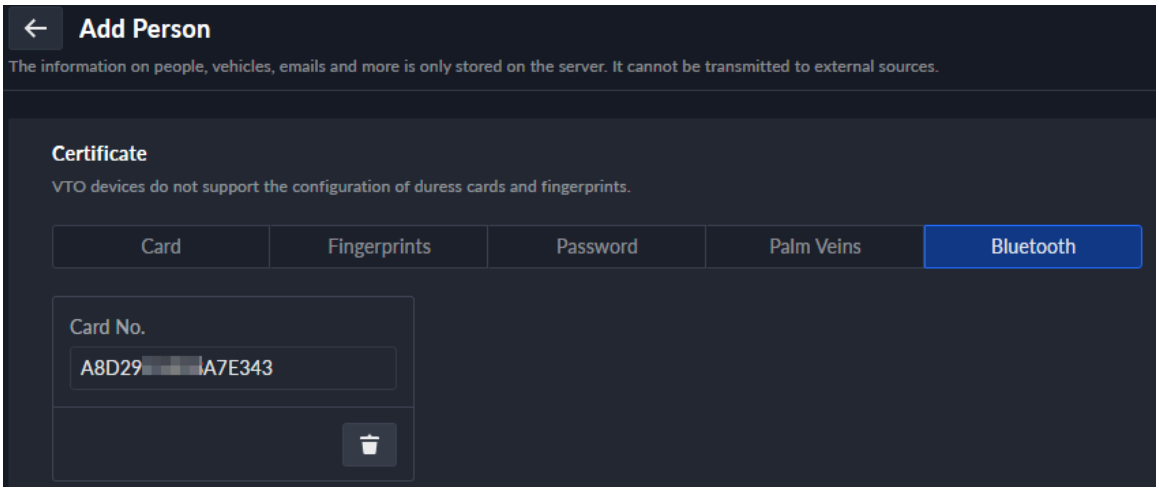
- During the process of adding the person, when setting the password for unlocking the door, after enabling the short password access feature, the person can enter the short password to unlock the door.

Figure 3-7 Setting the password for access control



- Supports generating a Bluetooth card number for door access verification.

Figure 3-8 Add Bluetooth card

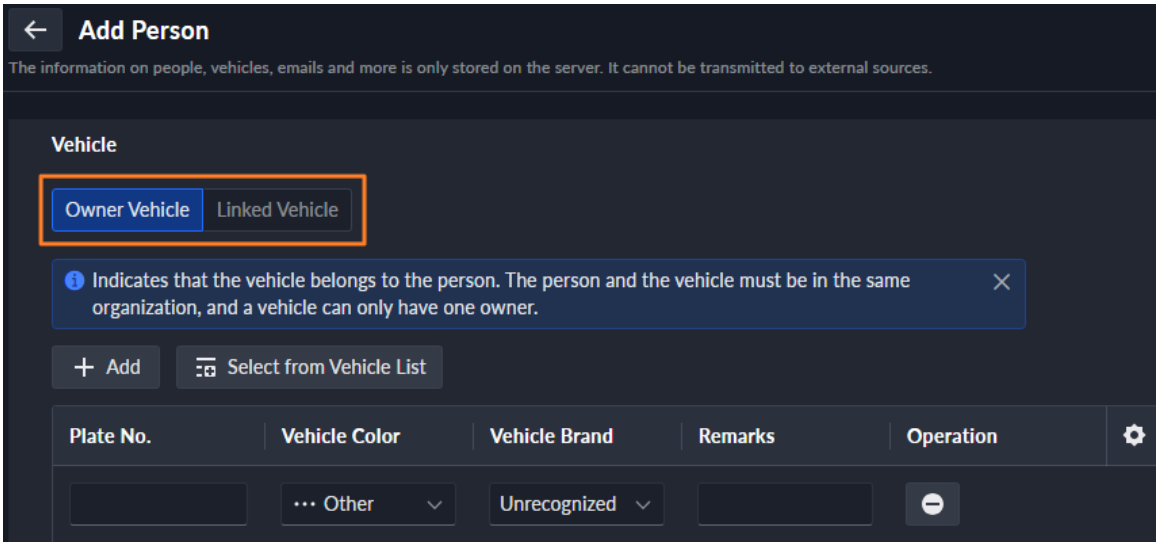


- If the person has one or more vehicles, you can set the person to the owner or linked person of the vehicle.

  A vehicle can be linked to maximum 10 people, including vehicle owner and linked person.

  Owner Vehicle means that the vehicle belongs to this person. **Linked Vehicle** means that the vehicle is linked to this person, for example, when a family share a vehicle.

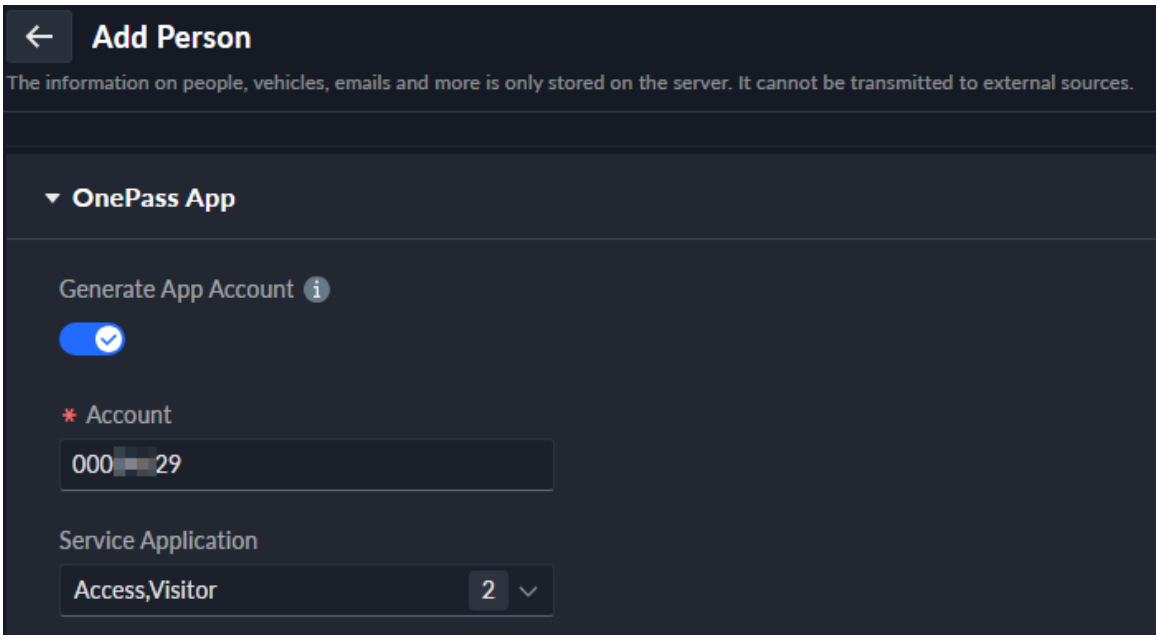
Figure 3-9 Add owner vehicle and linked vehicle



- When adding a person, in the **OnePass App** area, after enabling **Generate App Account**, an account will be automatically created. Upon first login to the OnePass App, the account and initial password will be automatically sent to their email address for logging in to the app.

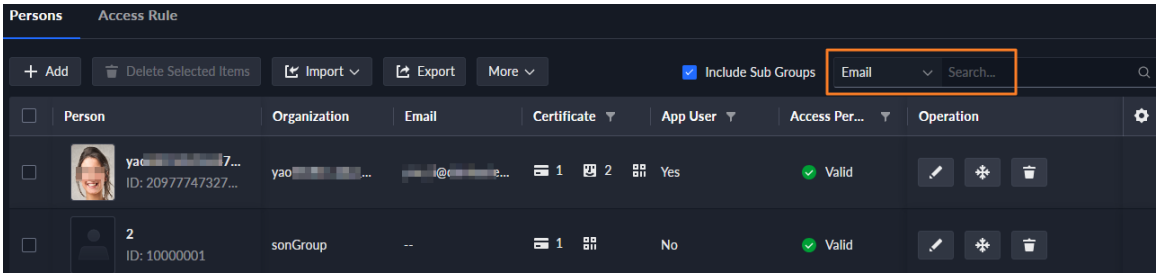
  You can select the service application scope of the account, that is, the services that the account can use. By default, it includes access and visitor services.

Figure 3-10 Generate app account



- Supports searching for people by email.

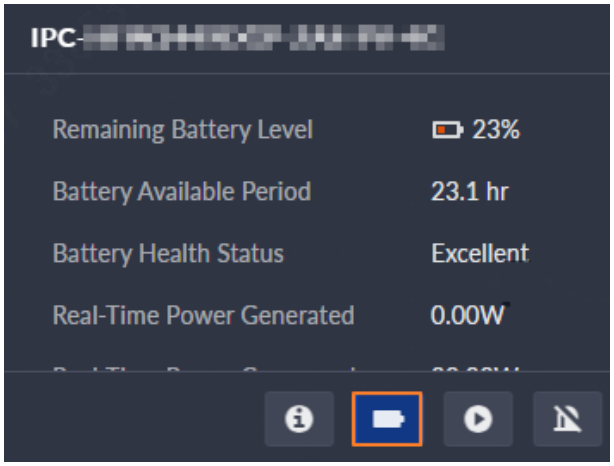
Figure 3-11 Search for people by email



3.4 Monitoring Center

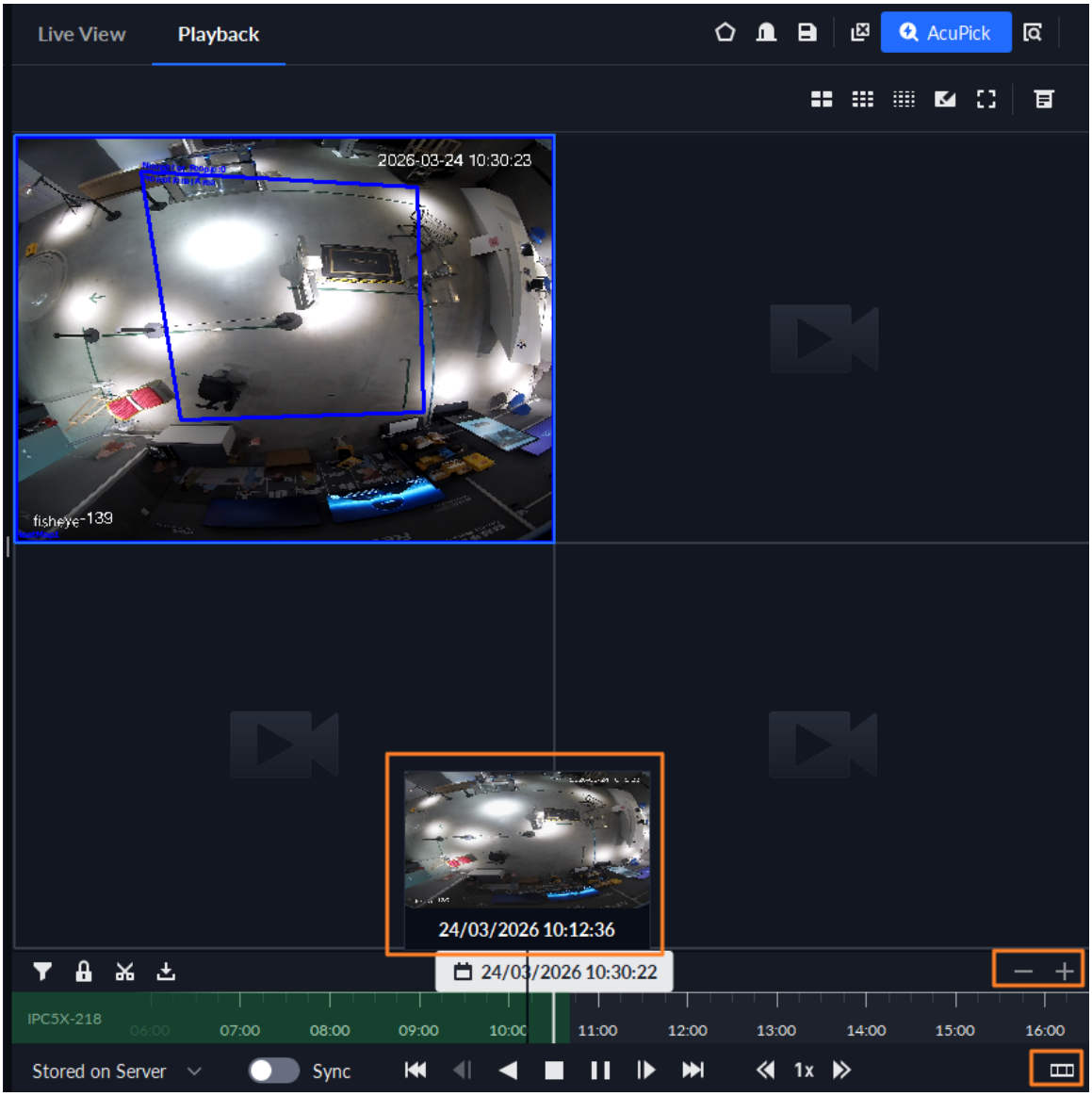
- Users can quickly identify whether a device is solar-powered by the device icon on the map, and view the battery information, including battery level, battery health, and more.

Figure 3-12 View battery information



- Improves the video playback functions, including playback speed adjustment, timeline zooming, and thumbnail.
  - ◇ Playback speed adjustment: Supports adjusting playback speed while pausing playing back the video.
  - ◇ Timeline zooming
    - ○ Click + or -, or use your mouse wheel to conveniently zoom in and out of the timeline.
    - ○ Hold your mouse and quickly release while scrolling to accelerate timeline scrolling for faster location of recordings across different time periods.
  - ◇ Thumbnail
    - ○ Click a thumbnail to quickly locate a recording moment.
    - ○ Quickly access thumbnail search via the thumbnails button above the timeline.
    - ○ Thumbnail search span increased to a maximum of one week.
    - ○ Click a search result to play the recording.

Figure 3-13 Video playback function optimization



- In the video playback window, supports search by tripwire, area, thumbnail and smart motion detection; supports switching the stream through the right-click menu; and supports searching for recordings of a specific type.

Figure 3-14 Smart search

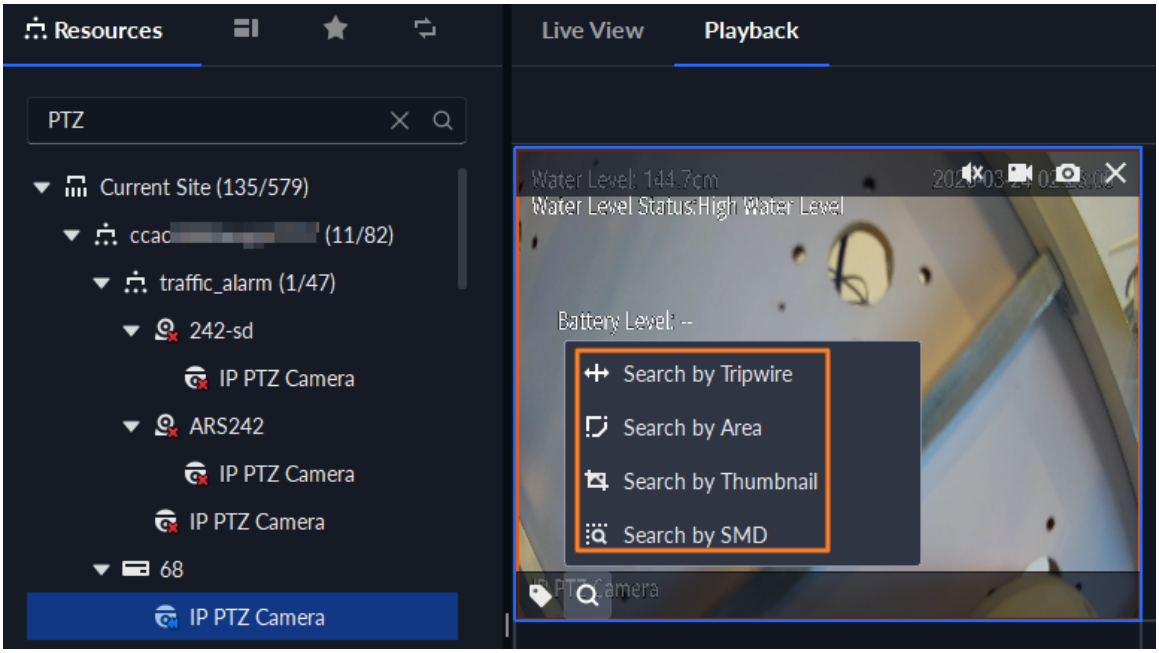


Figure 3-15 Switch stream type

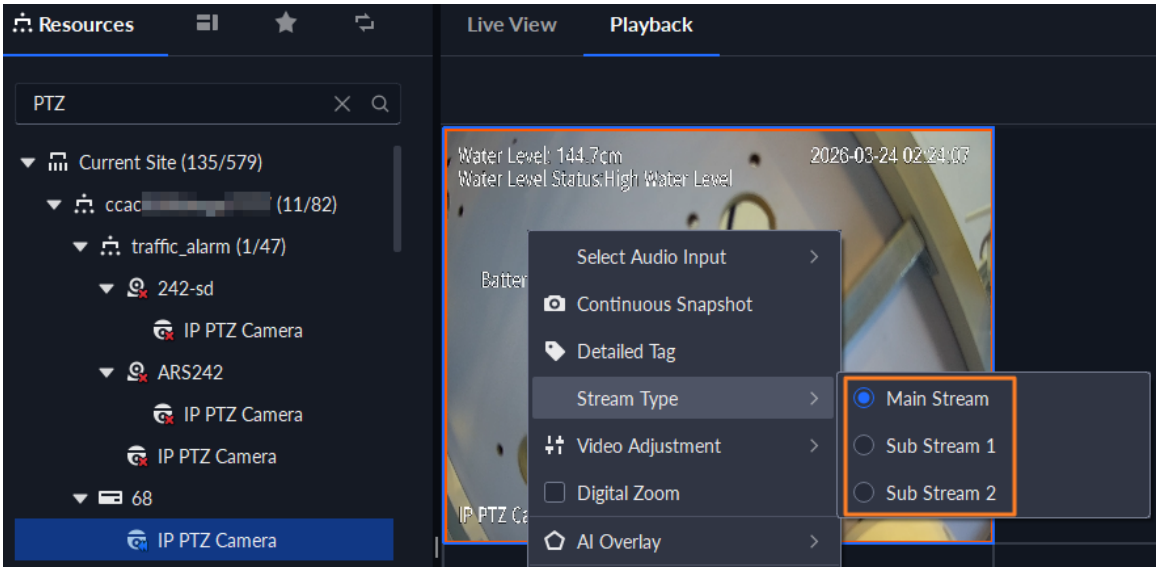
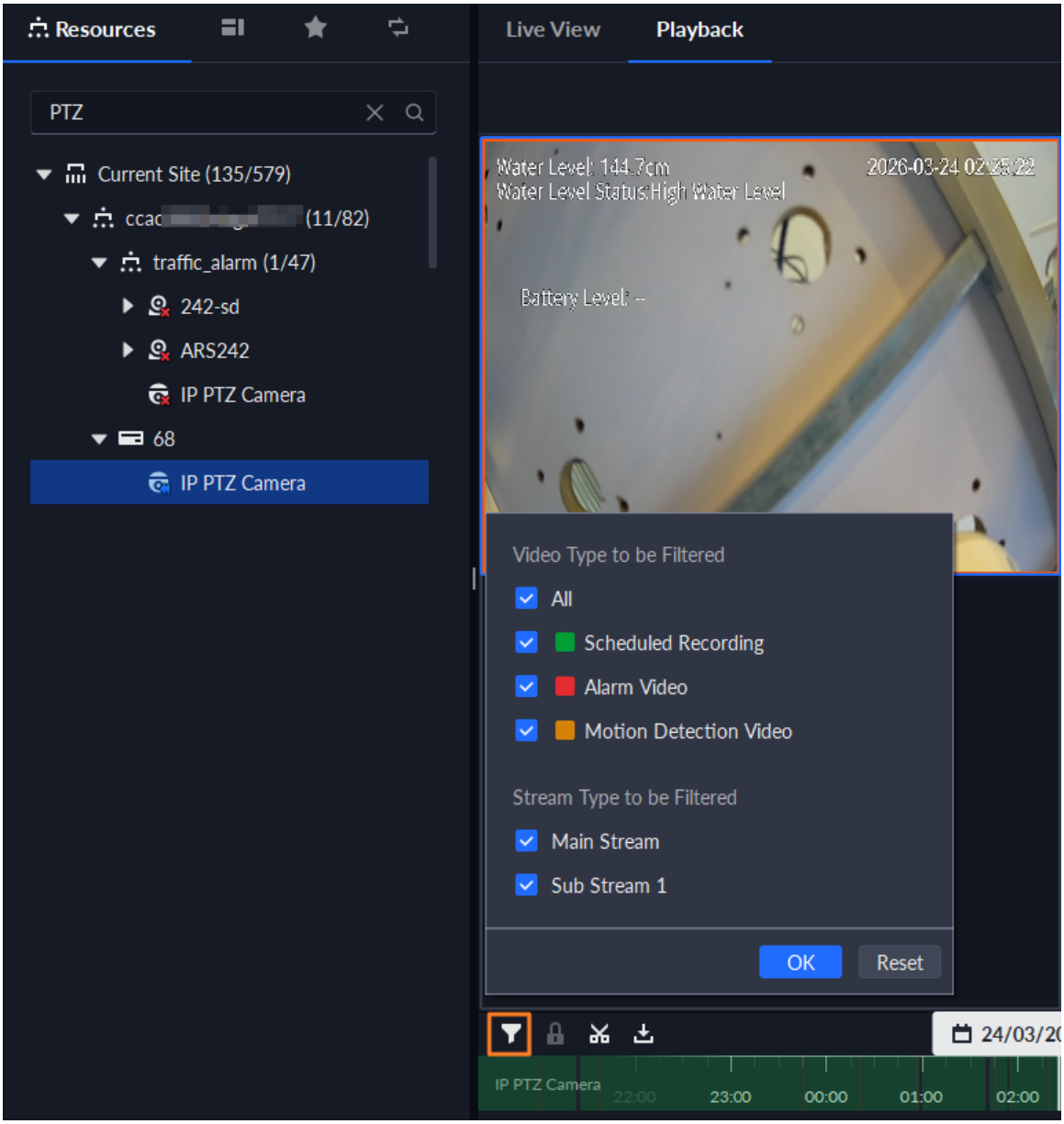
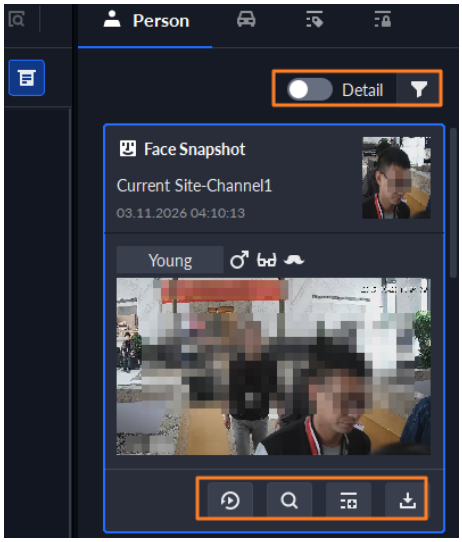


Figure 3-16 Filter videos



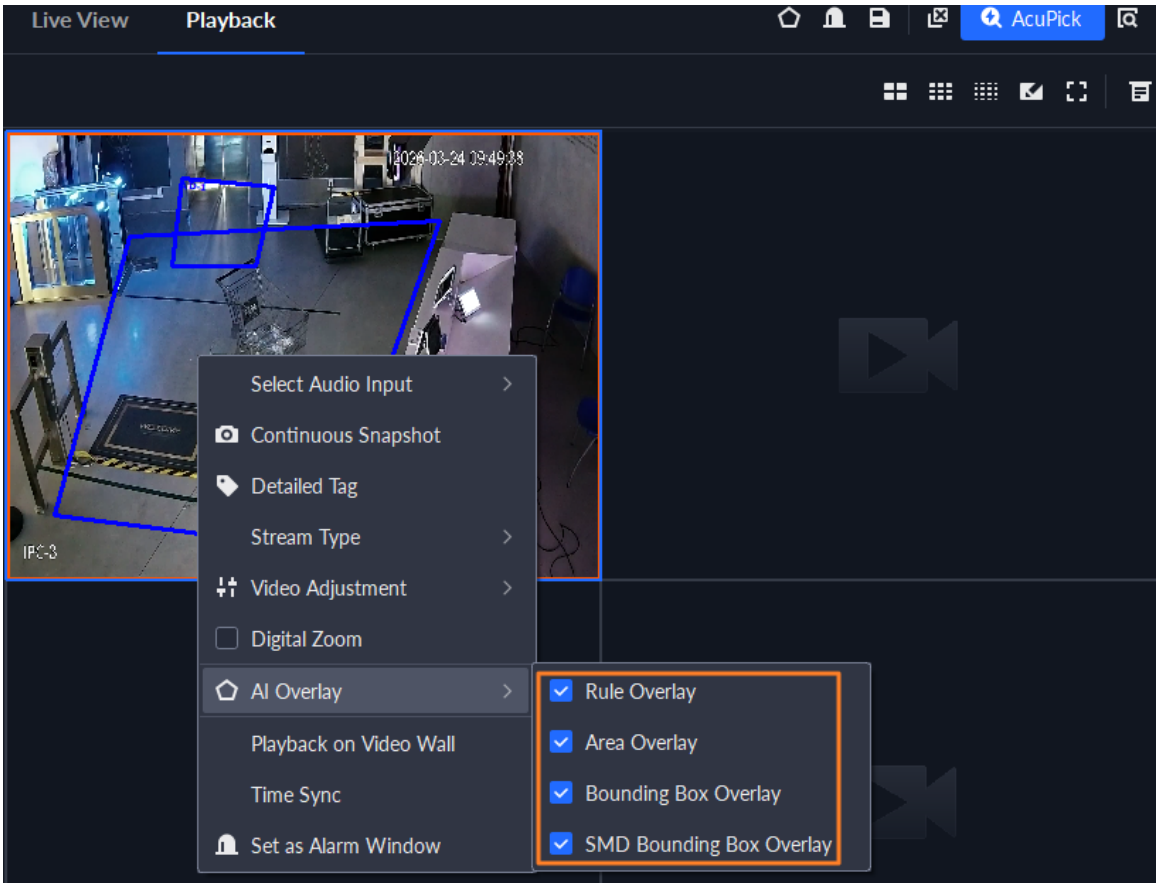
- Improves the event panel function. Supports viewing event details, filtering events by criteria, and viewing event recordings (automatically linking to the 10 seconds of recording before the event, or automatically linking to the recording closest to the event if there is no recording in the previous 10 seconds).

Figure 3-17 Event panel



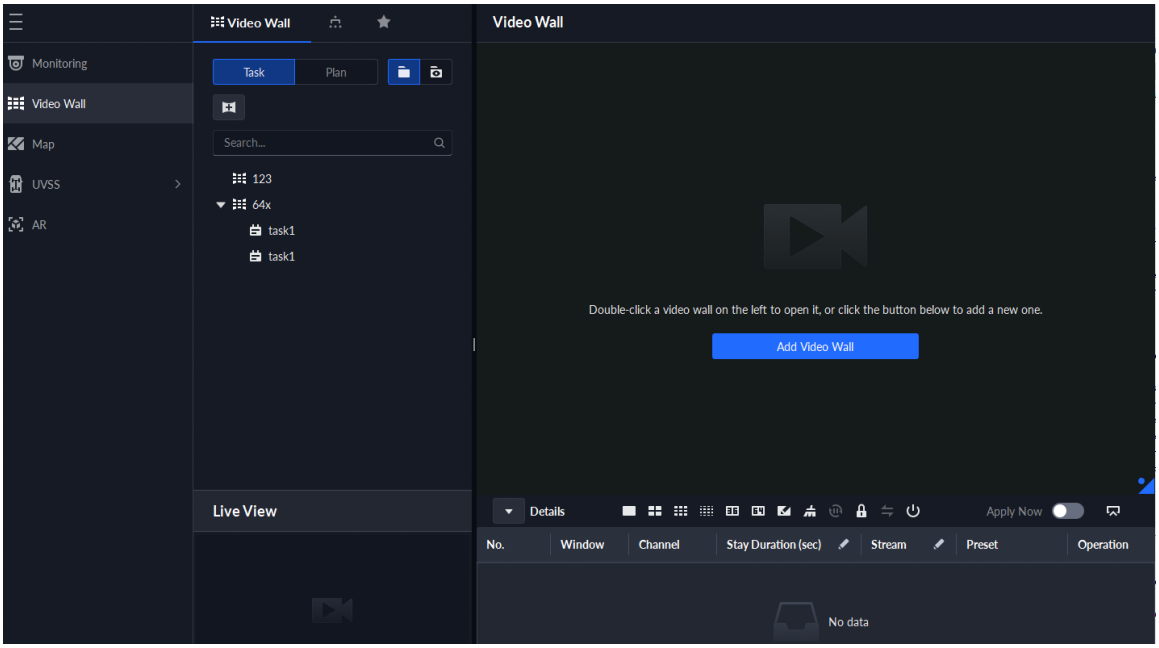
- AI overlay supports rule overlay, area overlay, bounding box overlay, and SMD bounding box overlay.

Figure 3-18 AI overlay



- Video wall: Brand new layout, and it supports public and private video wall tasks and plans.
  - Public tasks or plans: Tasks or plans that can be viewed by all authorized users.
  - Private tasks or plans: Tasks or plans that can only be viewed by the current user.

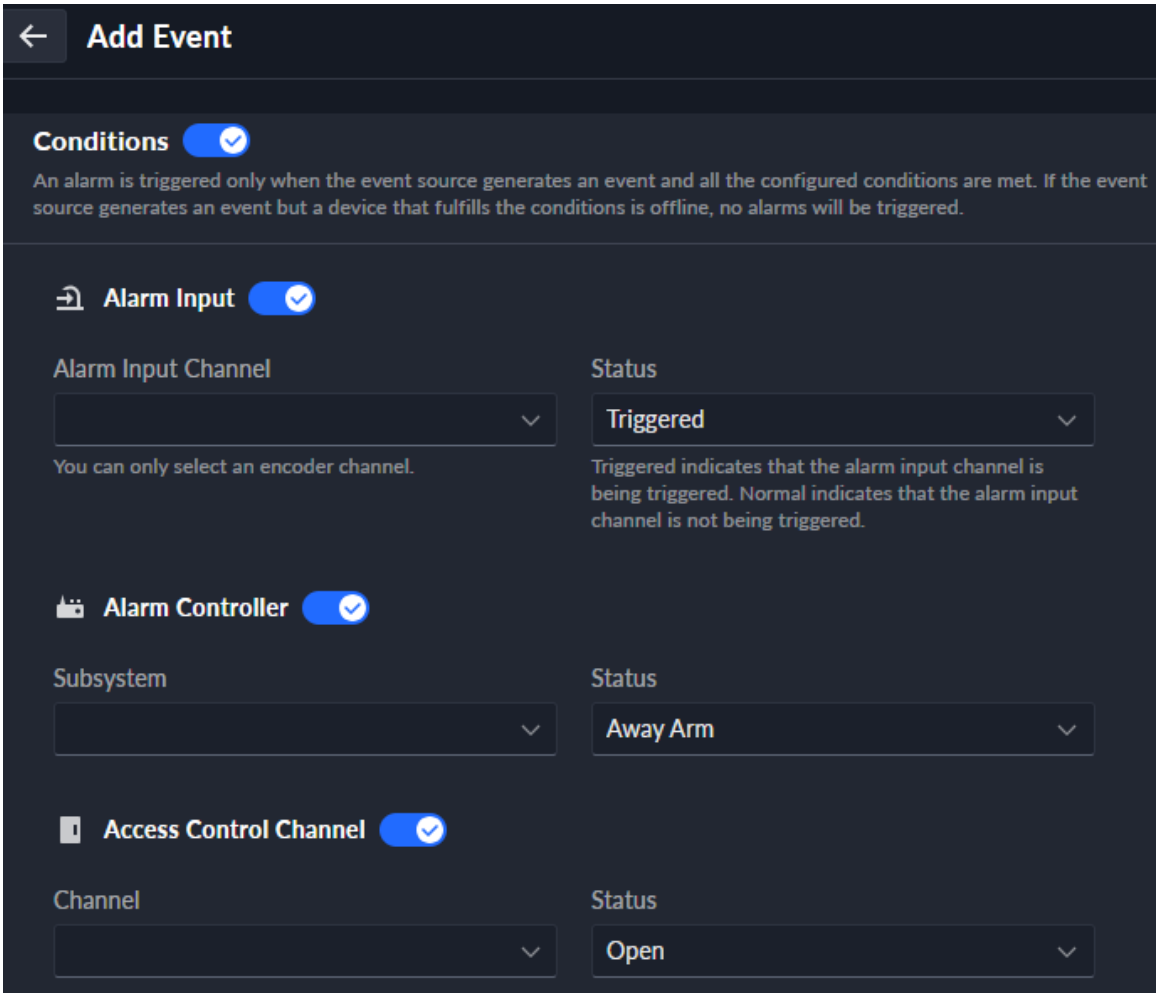
Figure 3-19 Video wall



3.5 Event

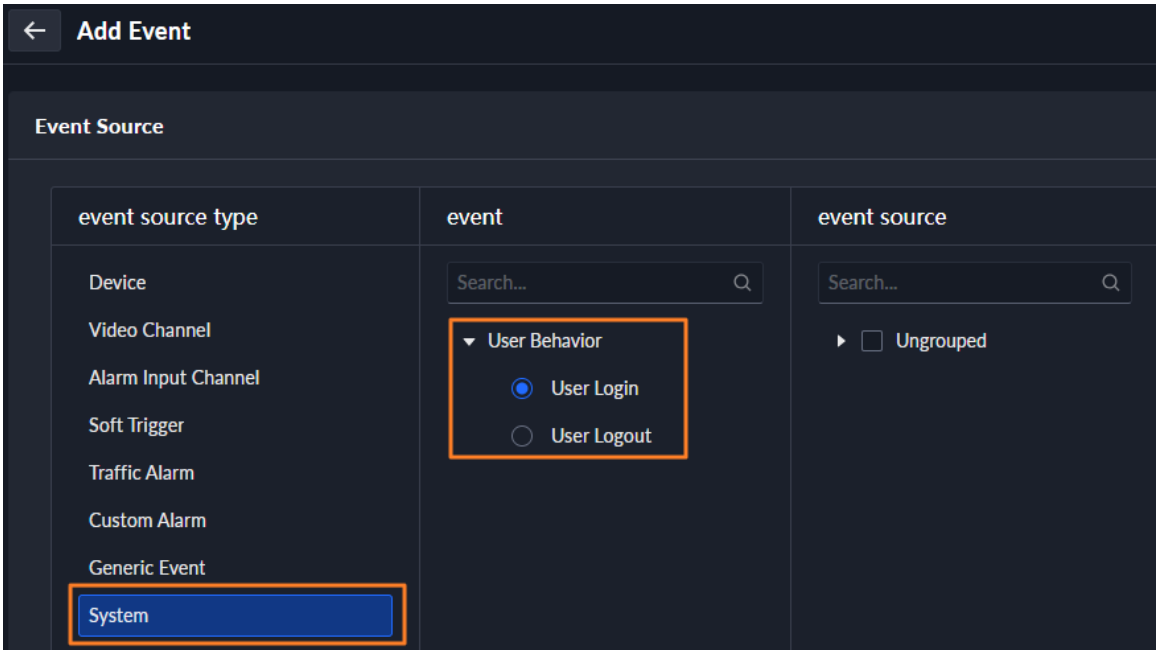
- Supports configuring alarm conditions. Alarms will be generated only when the event source generates an event and the defined conditions are met.

Figure 3-20 Alarm conditions



- Add events such as user login and logout, 4G camera battery anomaly alarms, and more.

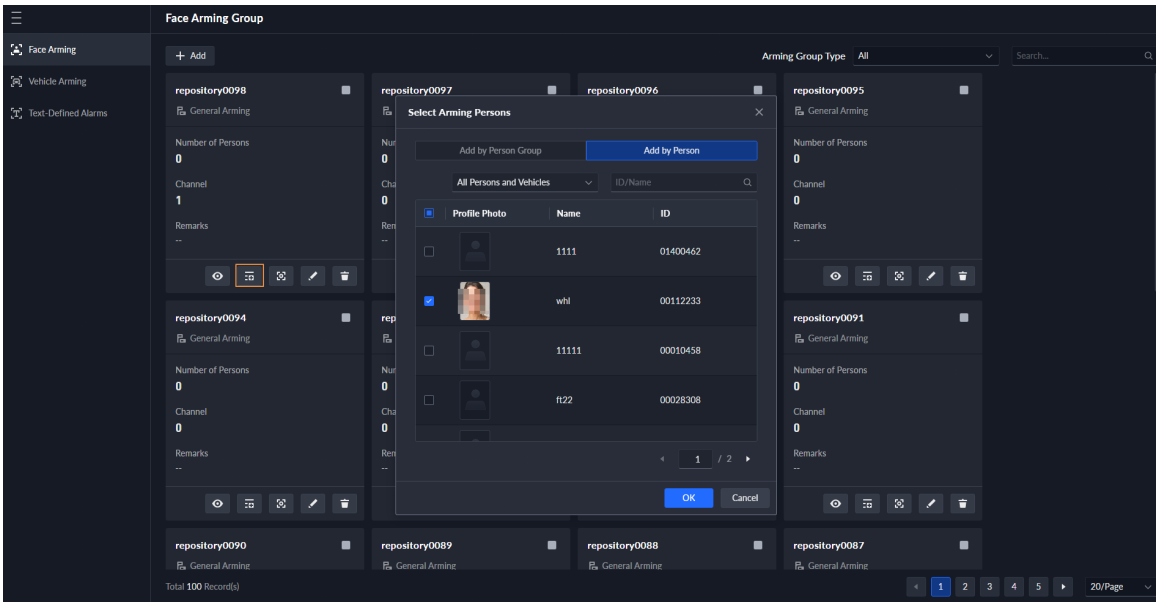
Figure 3-21 Adds events



3.6 Arming List

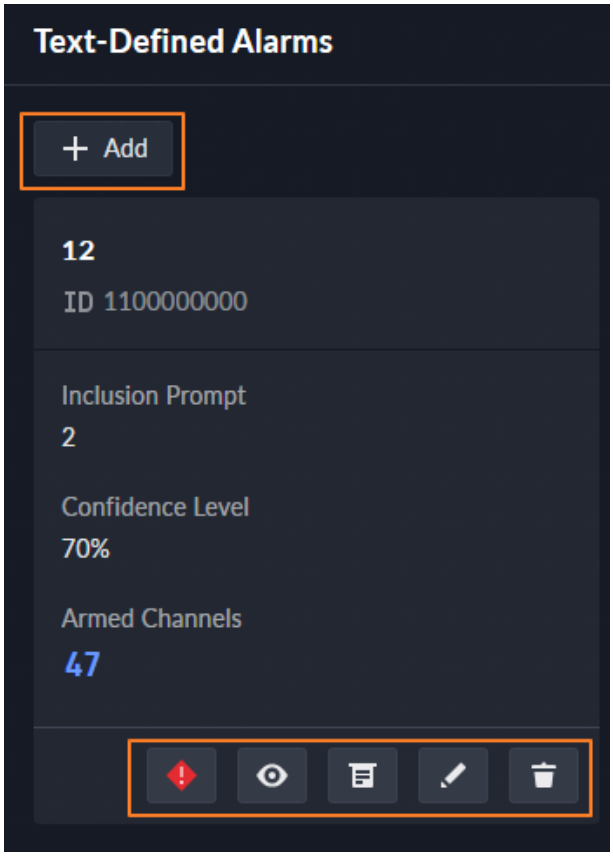
- When adding the person to the arming group, if the uploaded image fails due to resolution issues, the system supports automatically scaling the image and adding it to the group successfully.

Figure 3-22 Add the person to the arming group



- Add text-defined alarms. Supports adding, editing, and deleting text-defined alarms. Users add the text-defined alarms onto the channels of the devices, and then create event plans on the server. Once the prompt rules are triggered, the server will receive the event and then send the alerts to the event center.

Figure 3-23 Add the text-defined alarms

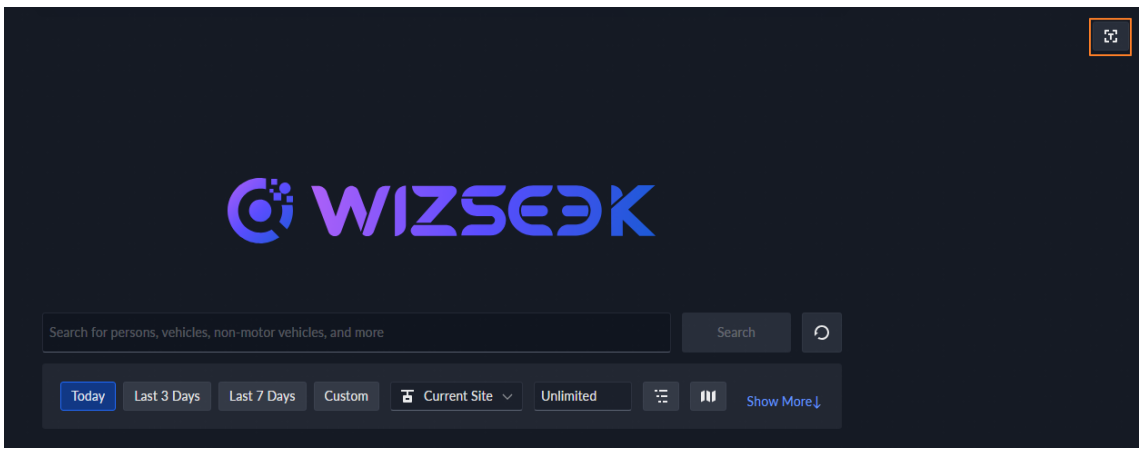


3.7 DeepXplore

Improves the WizSeek functions, mainly including:

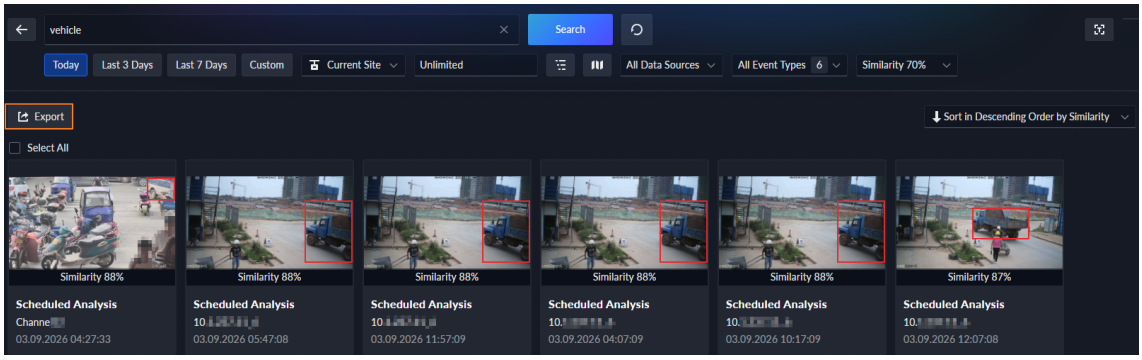
- Supports fast arming on the WizSeek page. Users can complete fast arming settings with one click.

Figure 3-24 Add the text-defined alarms



- Supports exporting people and vehicle archives on the search results.

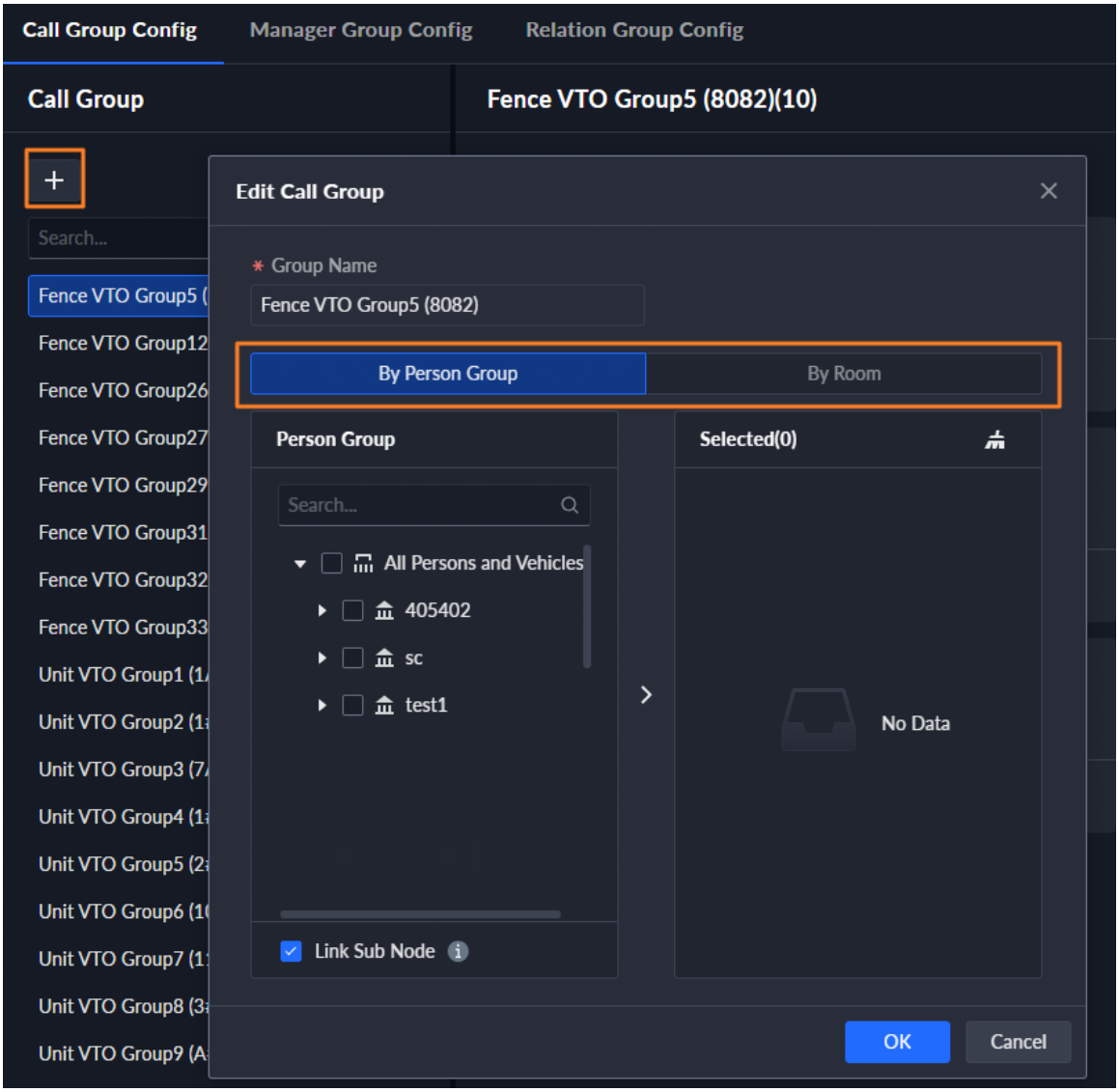
Figure 3-25 Export archives



3.8 Video Intercom

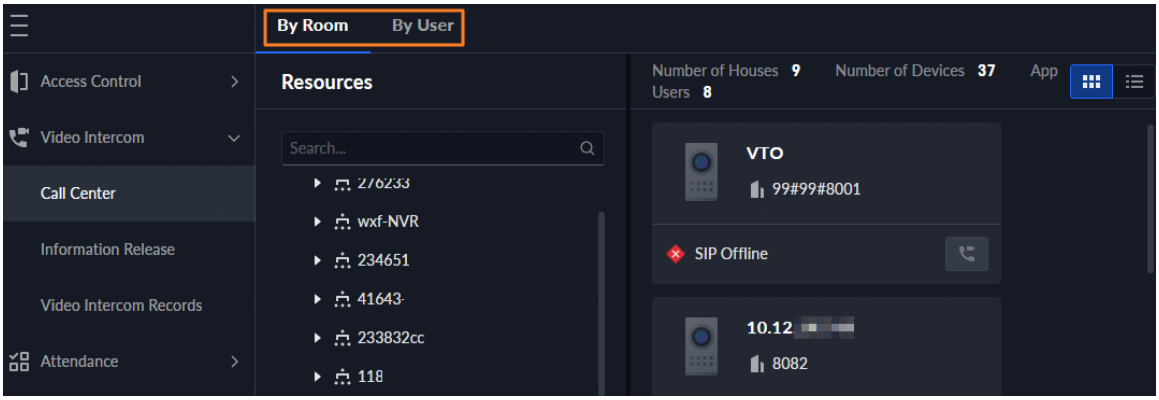
- Call group
  - For fence VTO, point to the group name, and then you can click  to select app users for the group by person group or room; for unit VTO and villa station, you can only select app users for the group by person group; for second confirmation stations, you cannot edit the group.
  - Supports adding call groups.

Figure 3-26 Call group



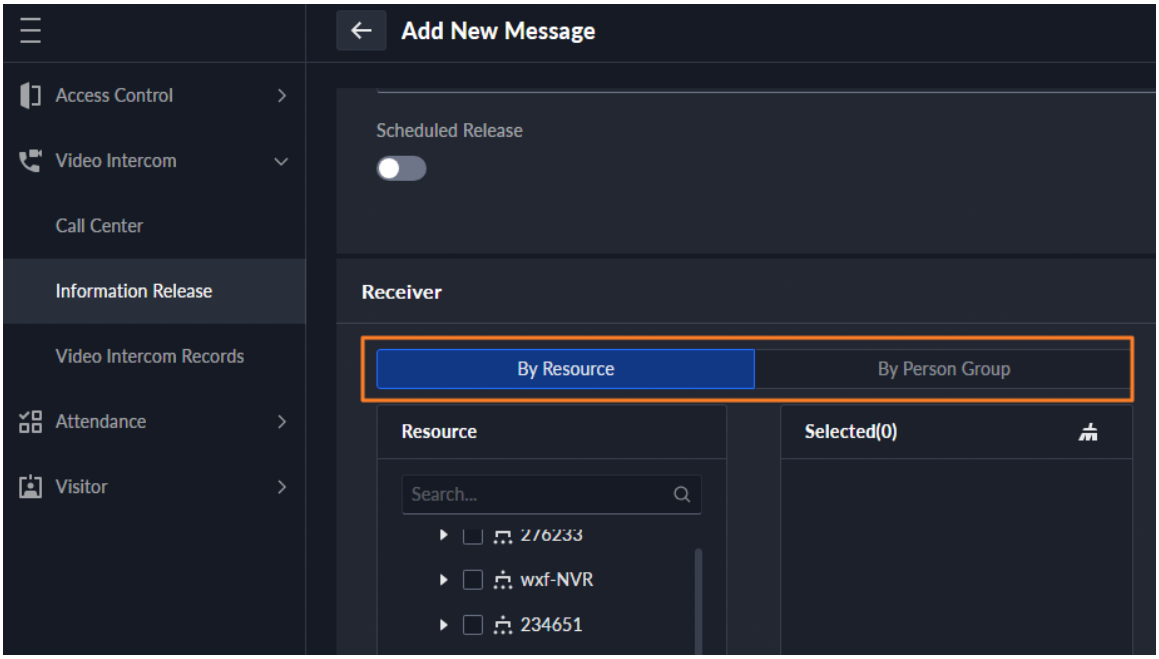
- Call center: Supports clicking **By Room** to call different devices, or clicking **By User** to call app users.

Figure 3-27 Call by room or by user



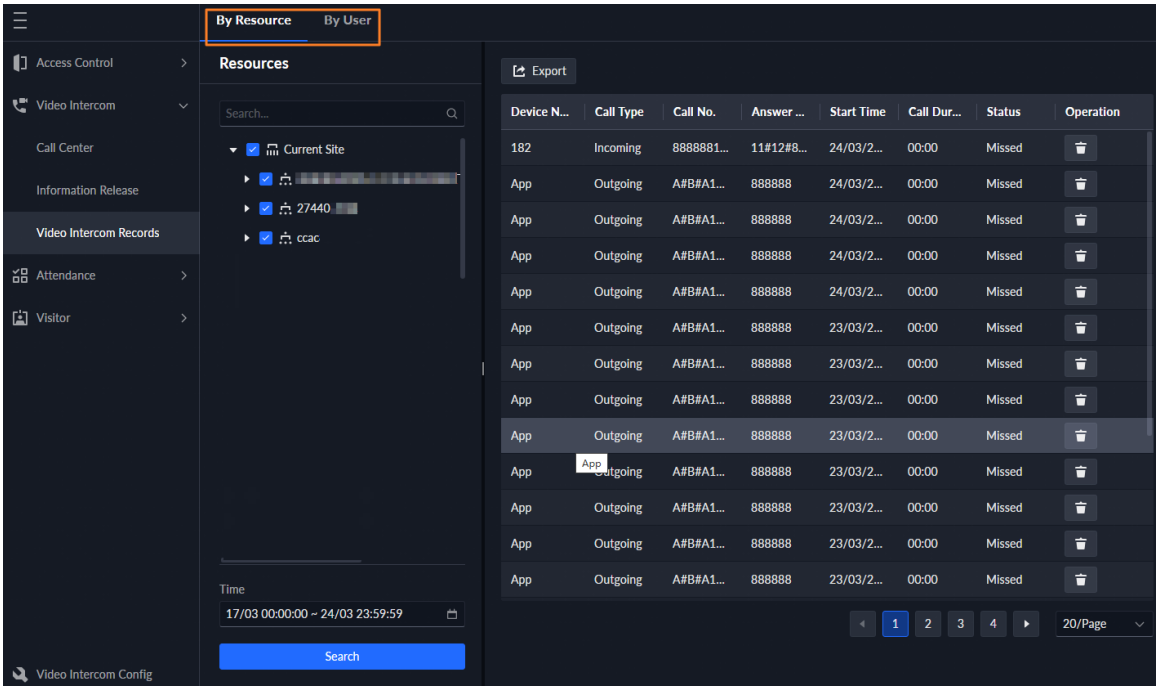
- Information release: Supports selecting receivers by resource or by person group.

Figure 3-28 Select receivers by resource or by person group



- Video intercom records: Supports searching for records by resource or by user.

Figure 3-29 Search for records by resource or by user



3.9 Access Control

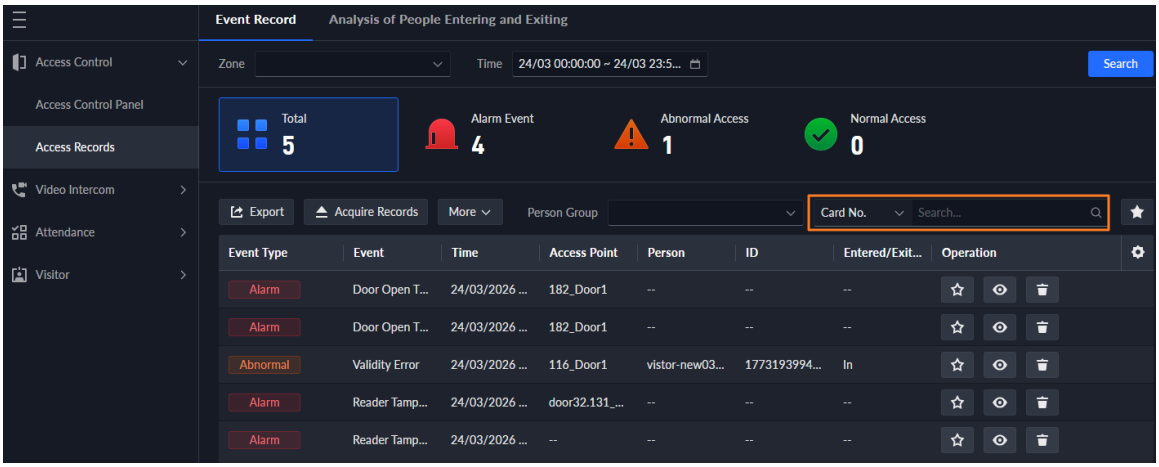
- Supports enabling the short password access function for the access control devices. After it is enabled, the person can unlock the door by entering the short password only.

Figure 3-30 Short password configuration



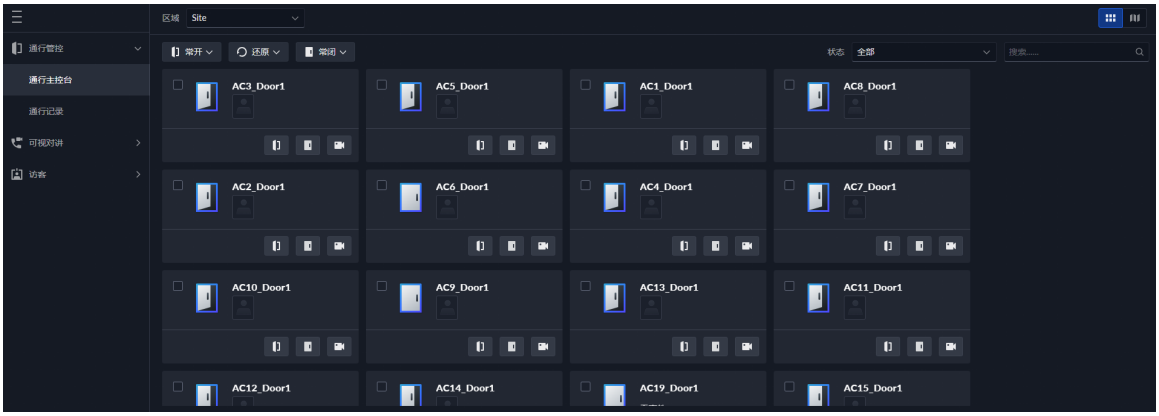
- Access records support accurate search by card number.

Figure 3-31 Search by card number



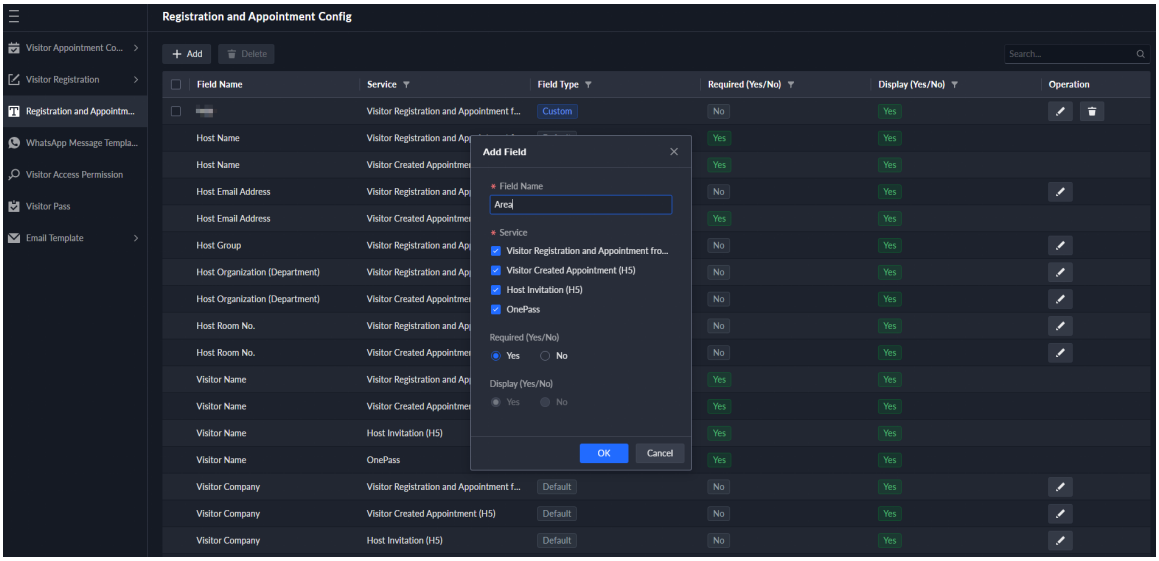
- On the access control panel page, supports operations for all or selected access control devices, including normally open, restore, normally closed and more. Supports filtering the devices by status.

Figure 3-32 Batch operation on access control panel



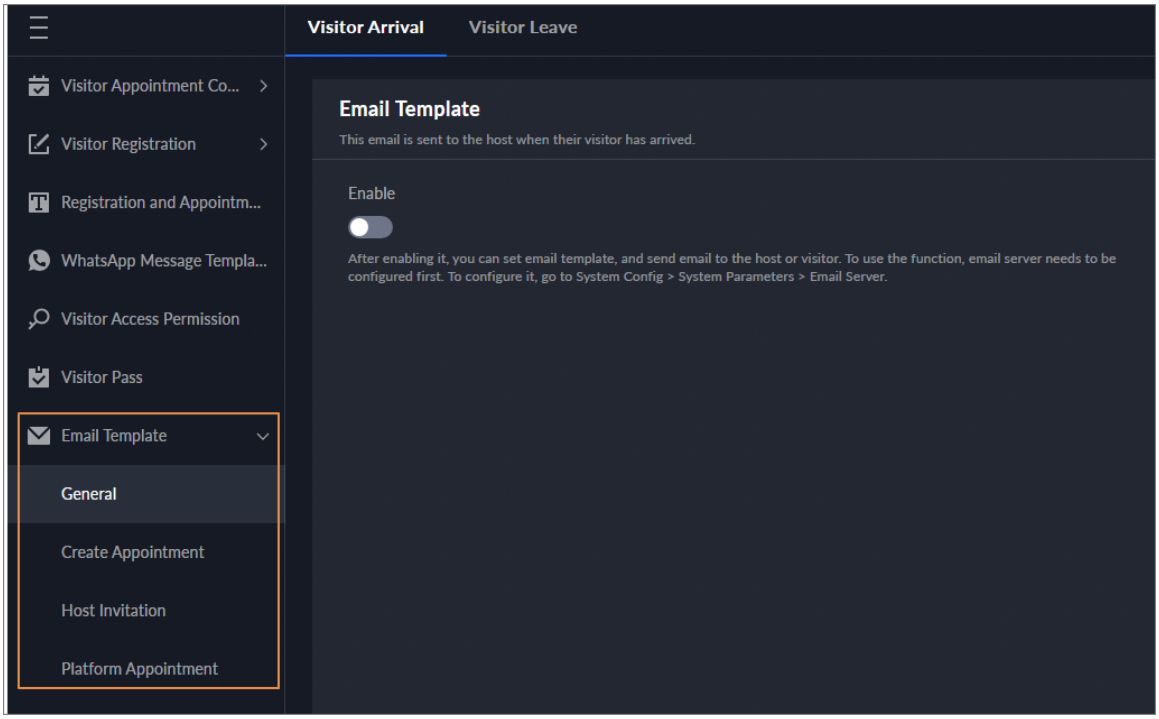
- Add the function of registration and appointment configuration. Supports customizable fields for the visitor appointment page.

Figure 3-33 Registration and appointment configuration



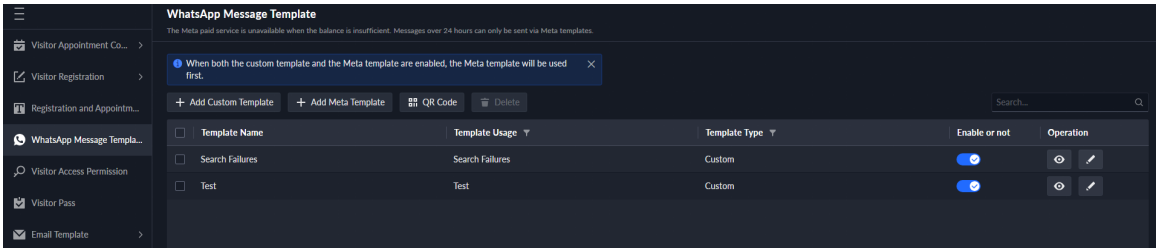
- Supports customizing the email template, visitor appointment self-service template, host invitation template and platform appointment template.

Figure 3-34 Email template configuration



- Add WhatsApp message template configuration. Supports customizing the WhatsApp message template (you need to manually define the template) and Meta template (you can select from existing template), which can be used for visitor appointment and approval.

Figure 3-35 WhatsApp message template configuration



- Updates the visitor appointment application, including visitor appointment on the platform and visitor and self-service for visitor appointment. Supports enabling the function of inherit host permission, and also supports enabling this function during approval process.

Figure 3-36 Visitor appointment on the platform (1)

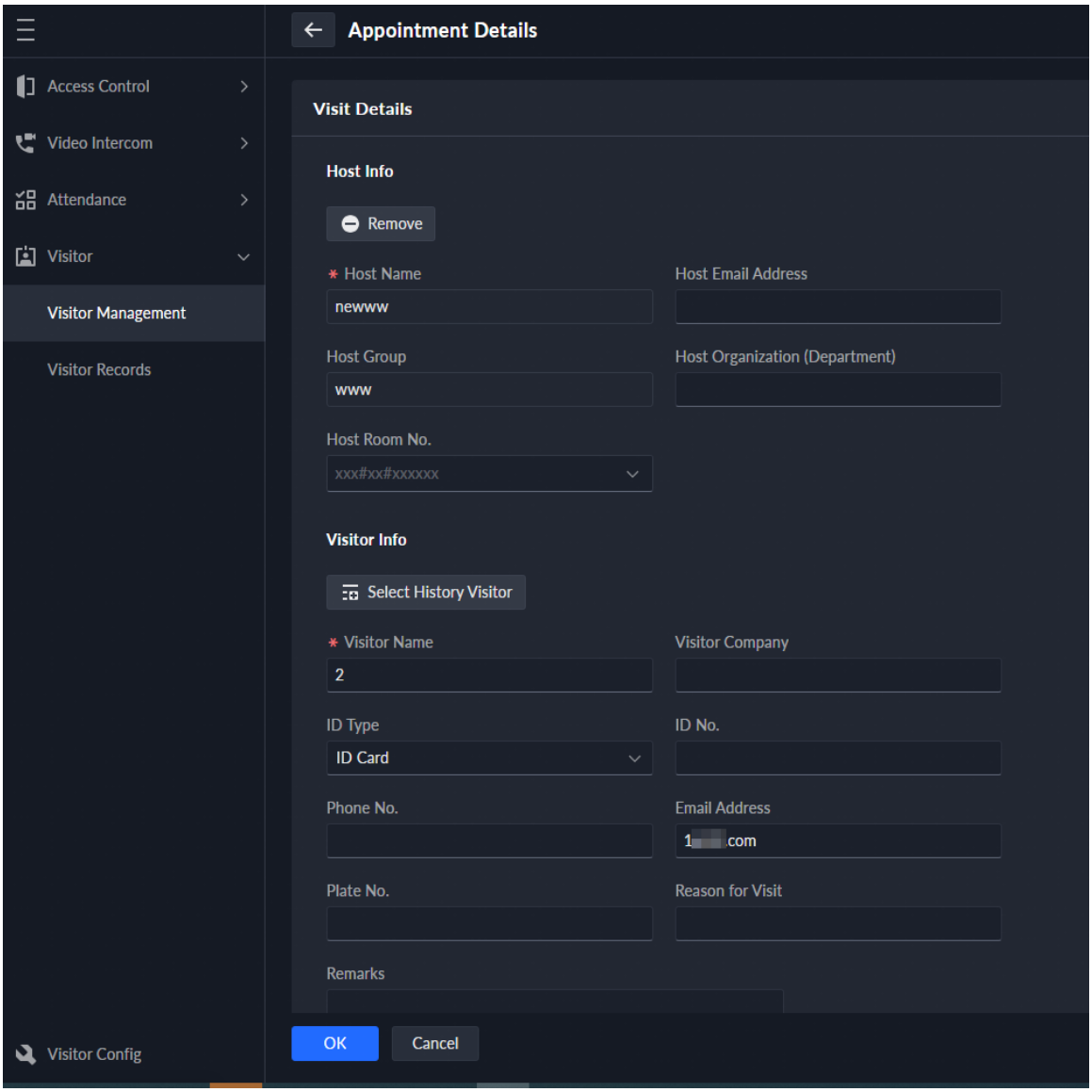


Figure 3-37 Visitor appointment on the platform (2)

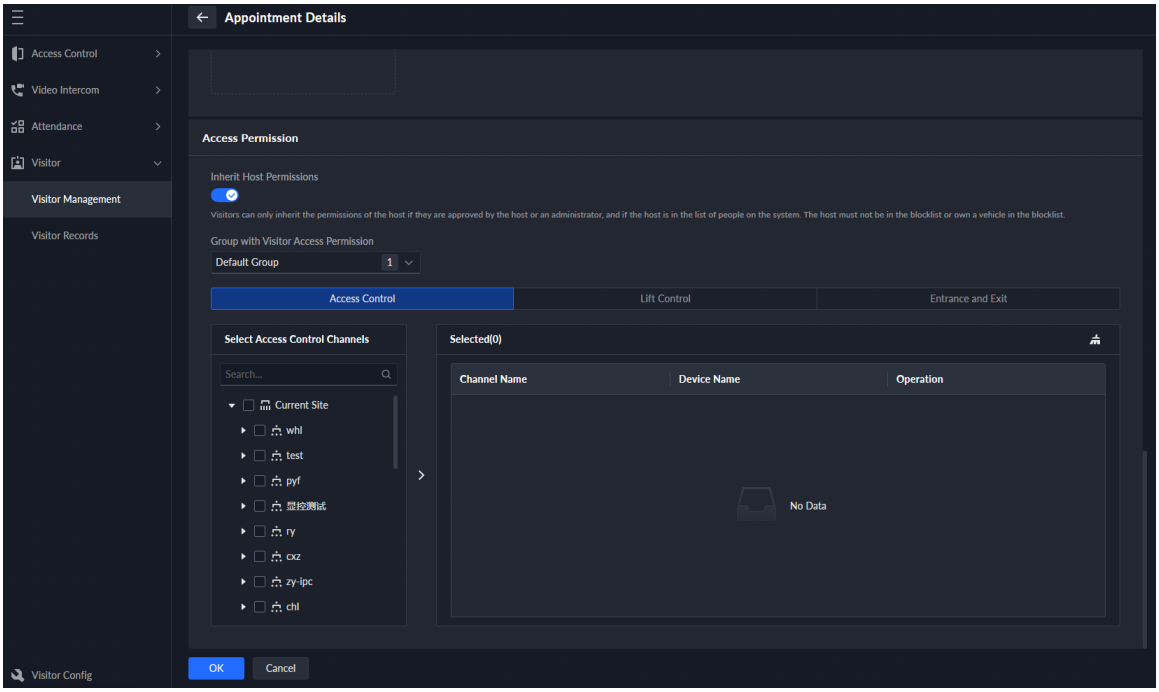
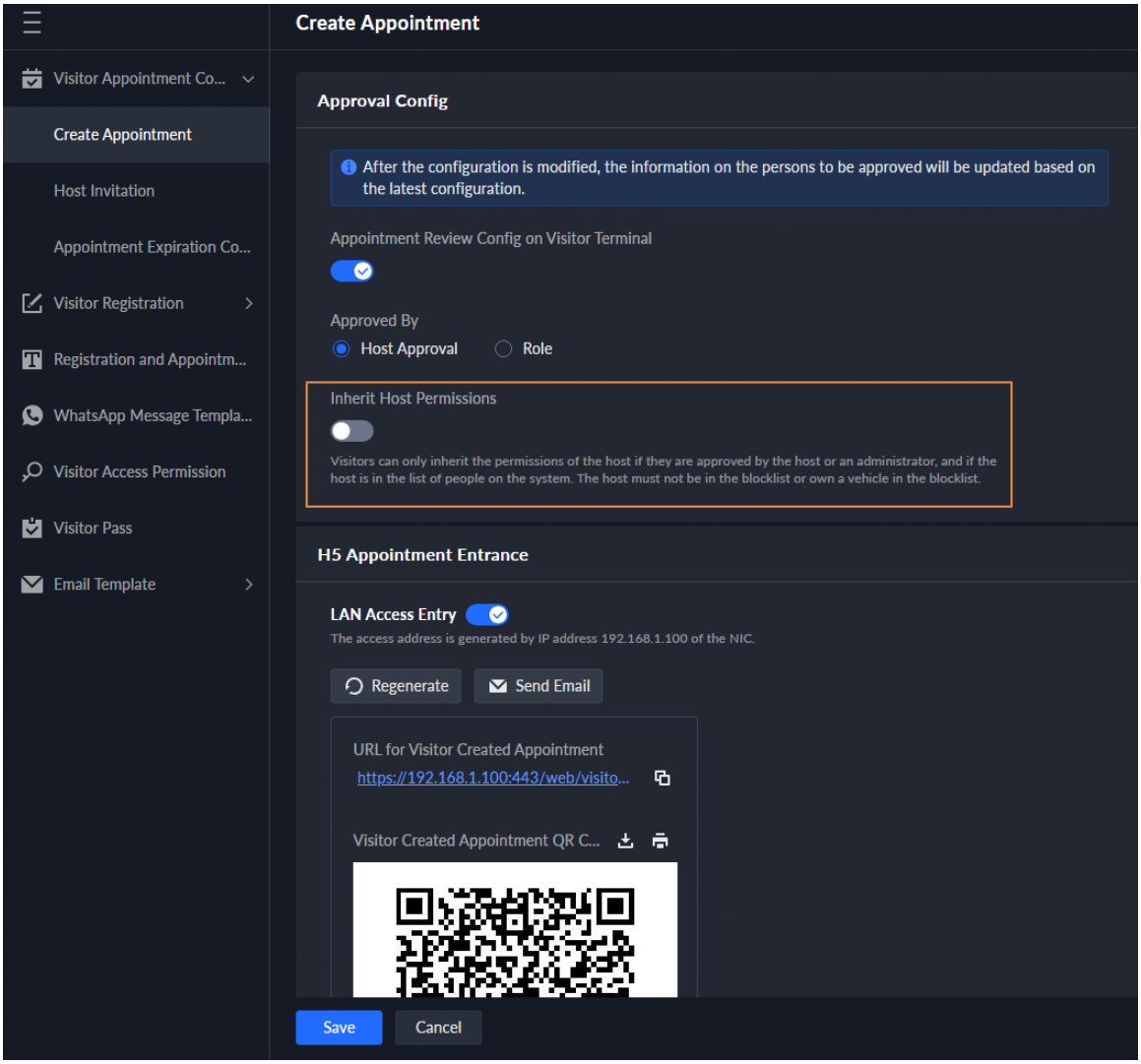


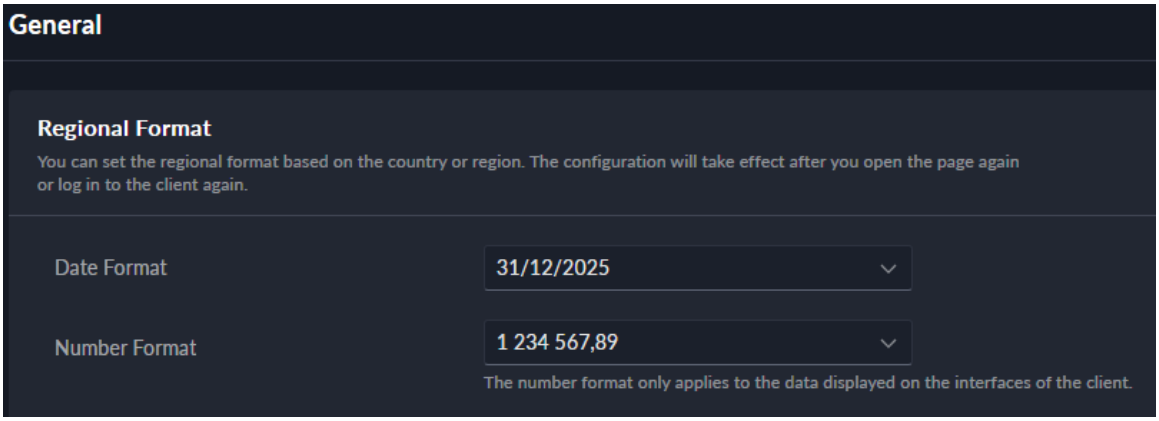
Figure 3-38 Approval configuration for inherit host permissions



3.10 System Parameters

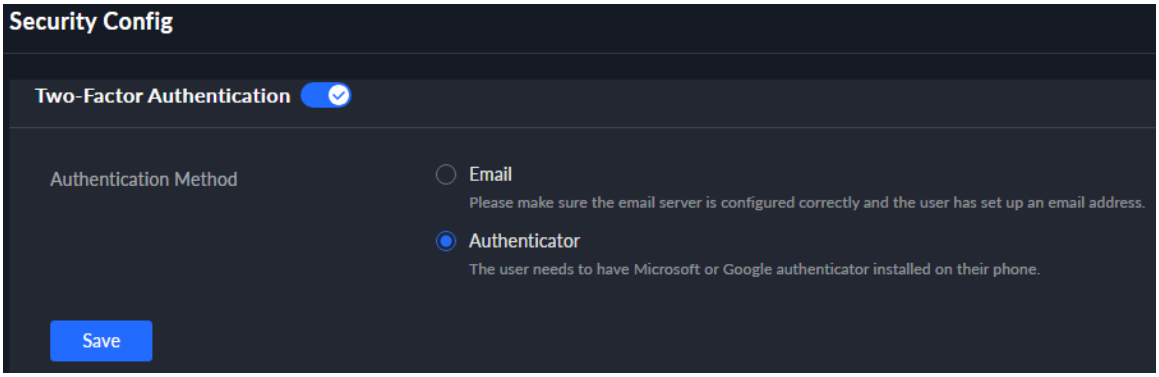
- In **General**, you can set the date and number formats based on your country or region. The settings will take effect after you open the page again or log in to the client again.

Figure 3-39 Set date and number formats



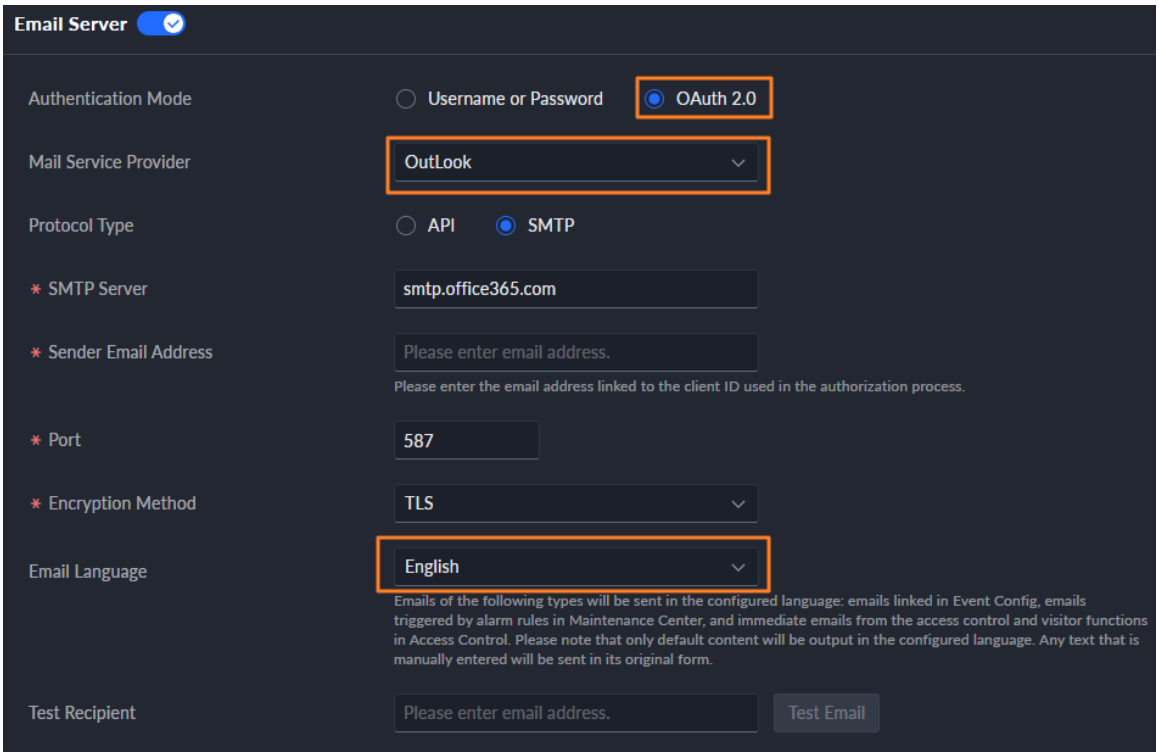
- In **Security Config**, you can enable two-factor authentication. After enabling it, you can combine password authentication with email, Microsoft Authenticator, or Google Authenticator to improve your account security.

Figure 3-40 Two-factor authentication



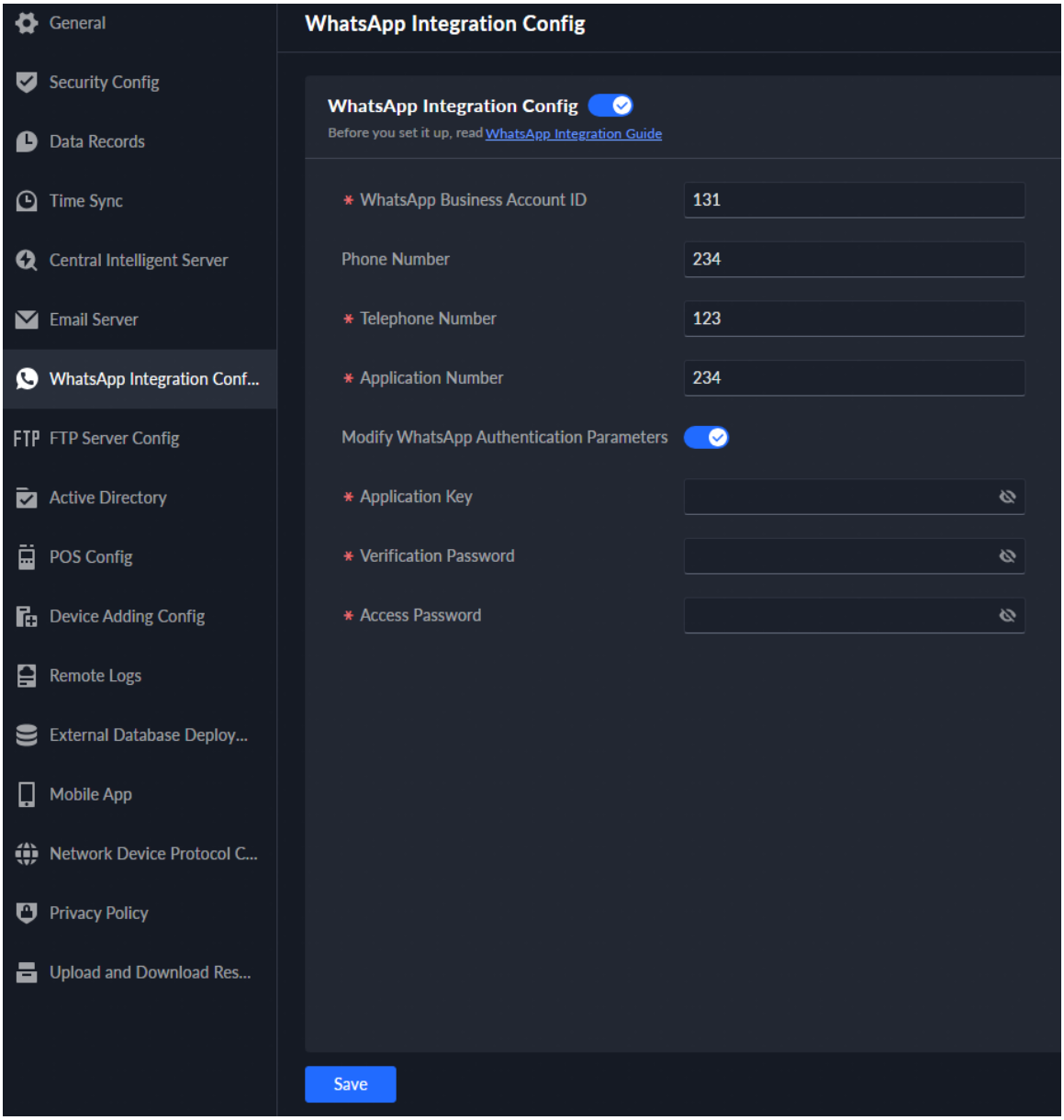
- In **Email Server**, supports selecting Outlook (default) and Gmail mail service providers when using OAuth 2.0 authentication; supports setting the email language. The system's built-in email templates or fixed email content will be sent in the defined language (English by default).

Figure 3-41 Email server configuration



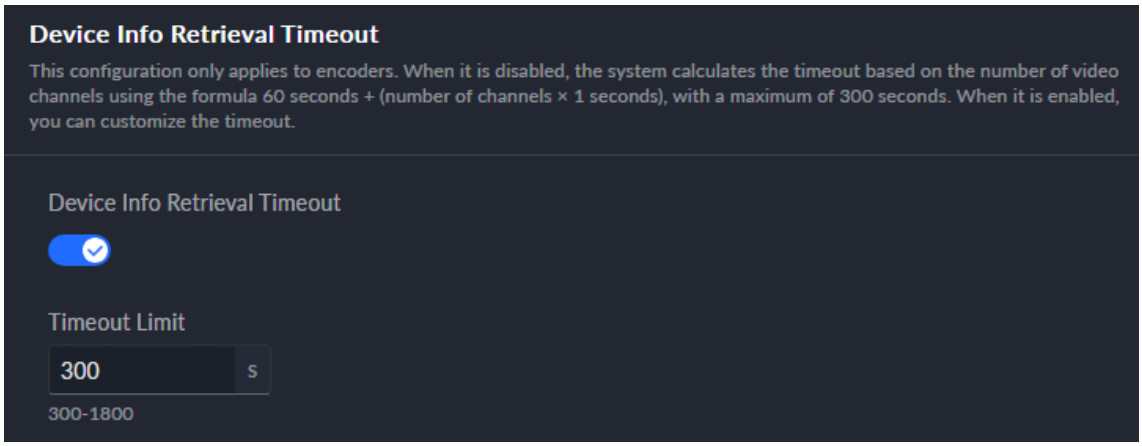
- In **WhatsApp Integration Config**, supports API integration with the system to enable automated message sending, configuring template, and more.

Figure 3-42 WhatsApp integration configuration



- Adds device information retrieval timeout configuration.

Figure 3-43 Device information retrieval timeout configuration



3.11 Backup and Restore

Supports backup and restoring of the function data. The server will save the backup files of the function data.

- Auto and manual backup of the function data.

Figure 3-44 Auto backup of the function data

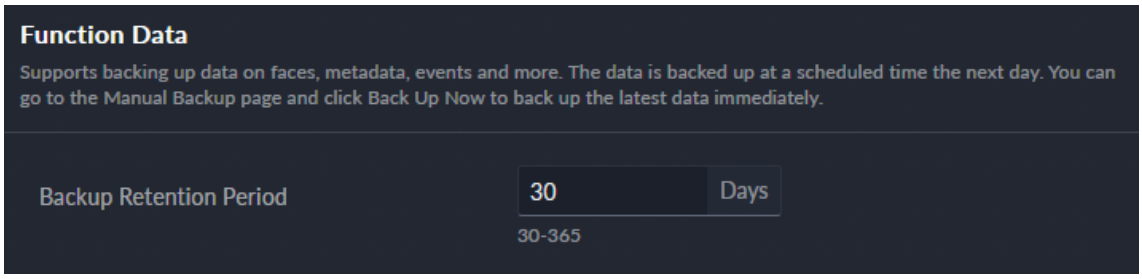
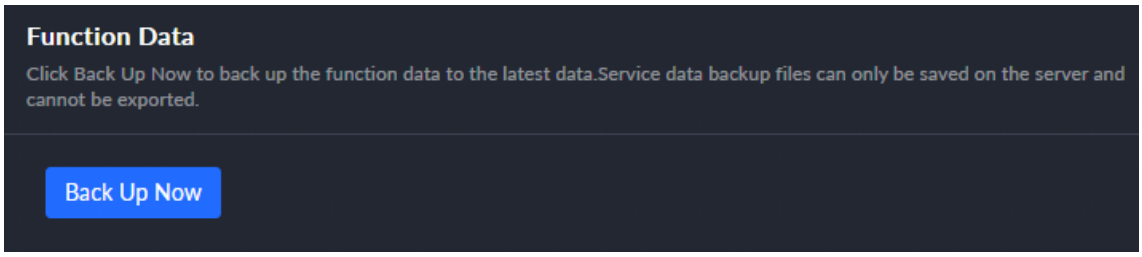
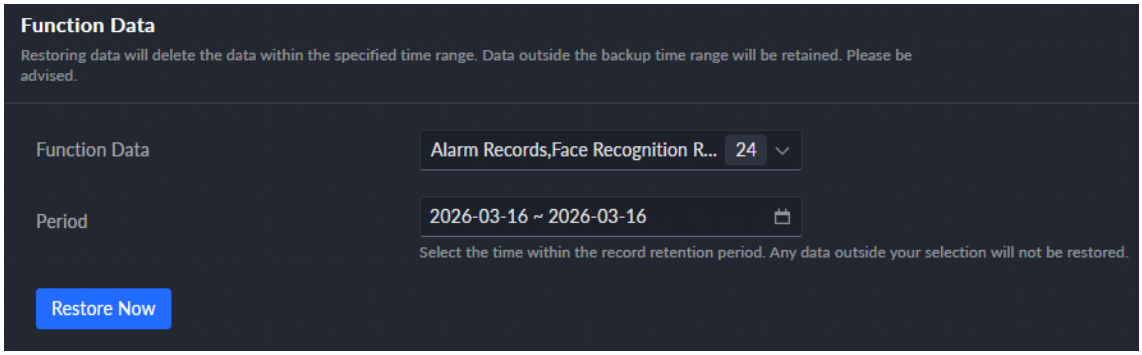


Figure 3-45 Manual backup of the function data



- Restore from backup files on the server.

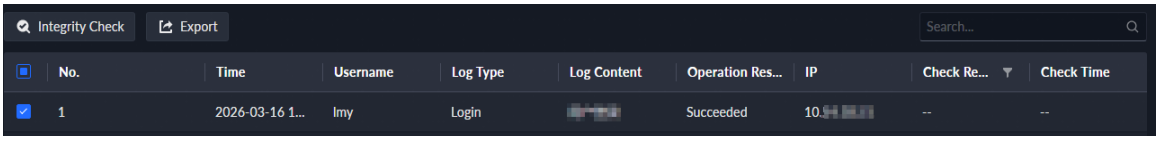
Figure 3-46 Restore function data



3.12 Management

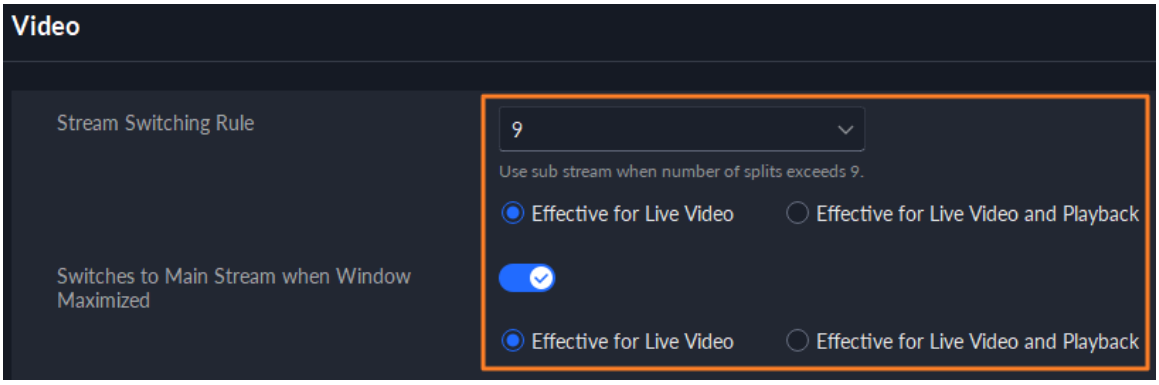
- Adds the integrity check function. In the search results list, select the log checkbox as needed, and then click **Integrity Check**. After the check is completed, both the check results and the time of the last check will be displayed.

Figure 3-47 Integrity check



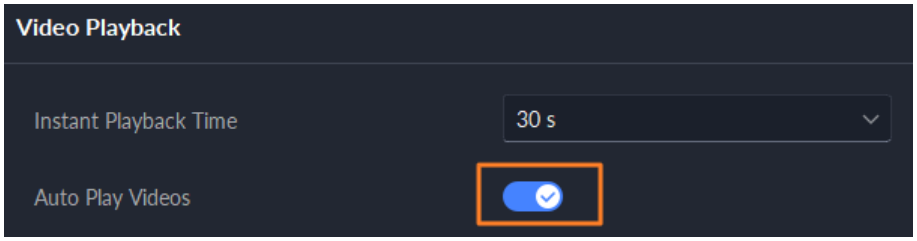
- In **Local Settings** > **Video** > **General**, for **Switches to Main Stream when Window Maximized** and **Stream Switching Rule**, you can select the settings are **Effective for Live Video** or **Effective for Live Video and Playback**.

Figure 3-48 Video switching and main stream rules



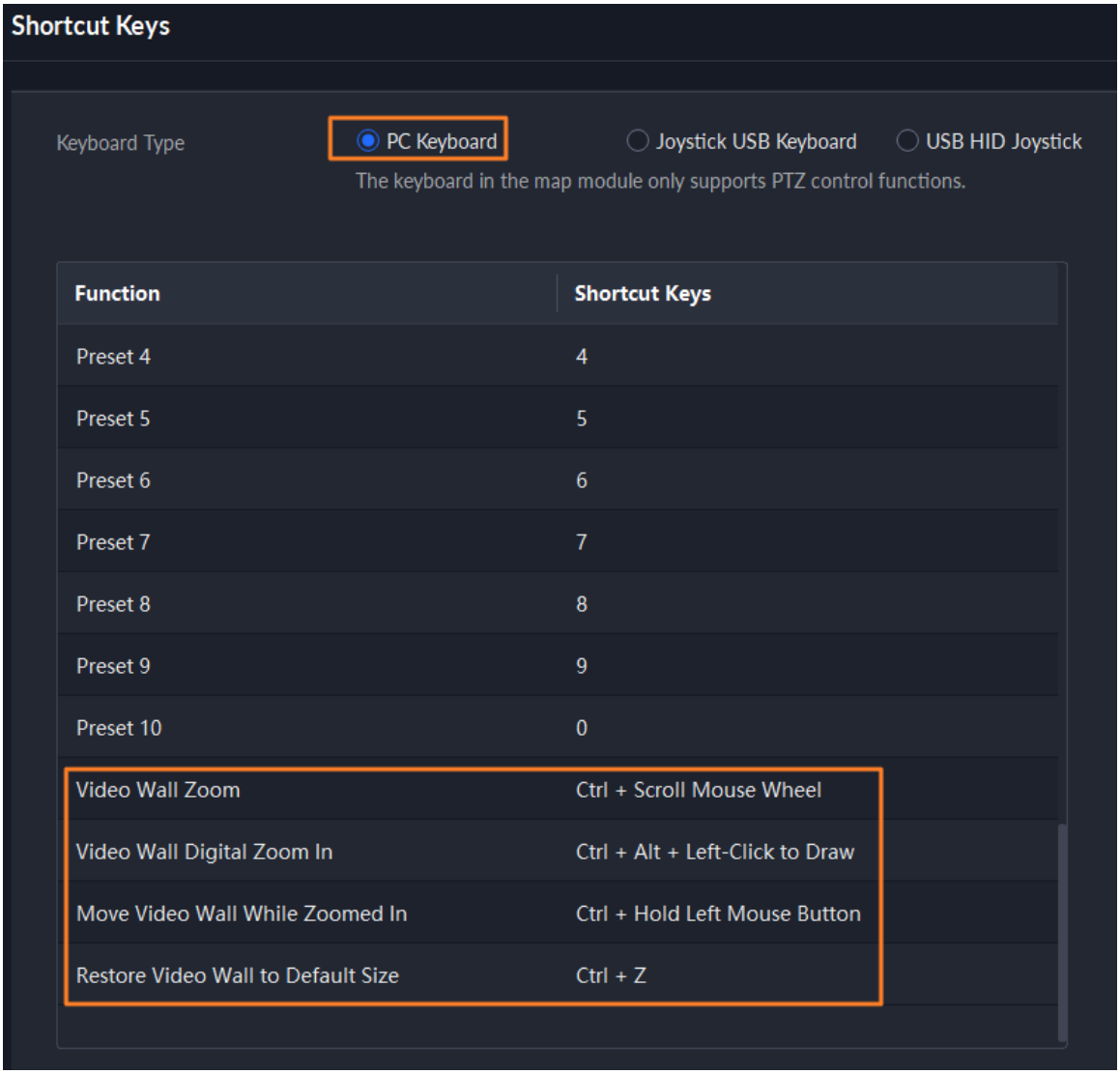
- In **Local Settings** > **Video** > **Video Playback**, supports enabling **Auto Play Videos**. After enabling this function, the system will automatically play the recordings after you search and find recordings, enable synchronization play, drag the timeline to a specific time to play the recording, and search for recordings of a specific time through the calendar on the **Playback** page.

Figure 3-49 Video playback



- In **Local Settings** > **Shortcut Keys**, when selecting **PC Keyboard**, you can view the video wall operation shortcuts, facilitating smooth operation when there are many windows on the video wall, and easily resizing windows when alarms are displayed on the video wall.

Figure 3-50 Shortcut keys for video wall control

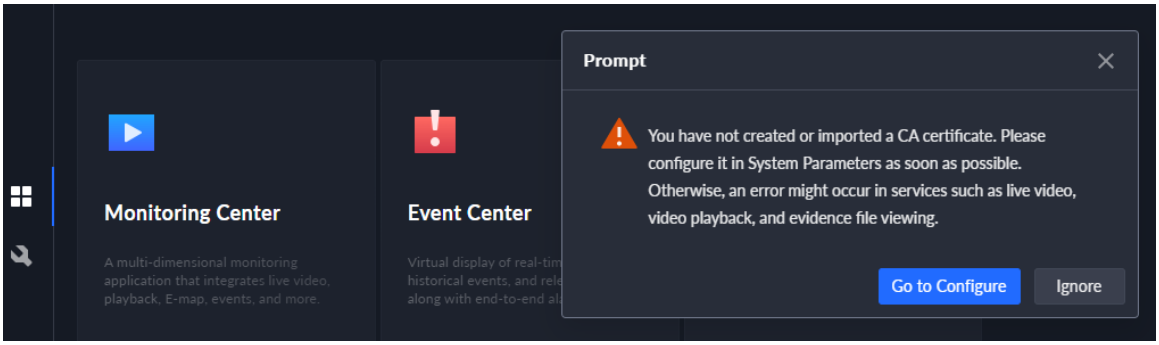


3.13 Web Client

A brand-new web client allows for quick and easy access to the platform.

- The web client mainly provides functions such as monitoring center, event center, DeepXplore, access control, parking lot, and intelligent analysis. For differences between the web client and the PC client, see *System Performance and Comparison List*.
- After logging in to the web client, you need to create or import a CA certificate according to the on-screen prompts. Otherwise, services such as live view, playback, and record image display on the web client will malfunction. Failure to download and install the root certificate will also affect these services. Please download and install it according to the on-screen prompts.

Figure 3-51 Web client prompt



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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