

DSS Express

User's Manual



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



Foreword

General

This user's manual introduces the functions and operations of DSS Express (hereinafter referred to as "the system" or "the platform").

You can get the user's manual from https://software.dahuasecurity.com/en/download.

Safety Instructions

The following signal words might appear in the manual.

| Signal Words | Meaning |
|------------------|--|
| Anger Danger | Indicates a high potential hazard which, if not avoided, will result in death or serious injury. |
| | Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury. |
| | Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results. |
| © <u>∽∿</u> TIPS | Provides methods to help you solve a problem or save time. |
| | Provides additional information as a supplement to the text. |

Frequently Used Functions

| Icon/Parameter | Description |
|-------------------|---|
| ۲ | View the details of an item. |
| | Clear all selected options. |
| Search Q | Search for items by keywords or specified content. |
| or Delete | Delete items one by one or in batches. |
| or Edit | Edit the parameters of an item. |
| Disable , or | Enable or disable items one by one or in batches. |
| or Export | Exported the selected content to your local computer. |
| or Refresh | Refresh the content. |
| * | A parameter that must be configured. |

Ι



Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.



Table of Contents

| ForewordI |
|---|
| 1 Overview1 |
| 1.1 Introduction 1 |
| 1.2 Highlights1 |
| 2 Installation and Deployment |
| 2.1 Standalone Deployment |
| 2.1.1 Server Requirements3 |
| 2.1.2 Installing Management Tool 3 |
| 2.1.3 Configuring Server IP Address 4 |
| 2.1.4 Management Tool 5 |
| 2.1.5 Installing and Logging into DSS Client7 |
| 2.1.6 Licensing |
| 2.2 Configuring LAN or WAN13 |
| 2.2.1 Configuring Router13 |
| 2.2.2 Mapping IP or Domain Name13 |
| 2.3 Virtualization Deployment |
| 3 Basic Configurations |
| 3.1 Managing Resources |
| 3.1.1 Adding Organization15 |
| 3.1.2 Managing Device16 |
| 3.1.3 Binding Resources29 |
| 3.1.4 Adding Recording Plan |
| 3.1.5 Adding Time Template35 |
| 3.1.6 Configuring Video Retention Period35 |
| 3.1.7 Configuring Events |
| 3.1.8 Synchronizing People Counting Rules |
| 3.2 Adding Role and User |
| 3.2.1 Adding User Role |
| 3.2.2 Adding User |
| 3.2.3 Adding User Group40 |
| 3.2.4 Importing Domain User |
| 3.2.5 Syncing Domain User42 |
| 3.2.6 Password Maintenance42 |
| 3.3 Configuring Storage |
| 3.3.1 Configuring Server Disk45 |
| 3.3.2 Configuring Device Storage |
| 4 Businesses Configuration |



| 4.1 | Configuring Events | 47 |
|---------|--|------|
| | 4.1.1 Configuring Event Linkage | 47 |
| | 4.1.2 Configuring Combined Event | 51 |
| | 4.1.3 Configuring Alarm Parameter | 52 |
| | 4.1.4 Configuring Generic Event | . 54 |
| 4.2 | Configuring Map | 56 |
| | 4.2.1 Preparations | 56 |
| | 4.2.2 Adding Map | . 56 |
| | 4.2.3 Marking Devices | 58 |
| 4.3 | Personnel and Vehicle Management | . 59 |
| | 4.3.1 Adding Person and Vehicle Groups | 59 |
| | 4.3.2 Configuring Personnel Information | 60 |
| | 4.3.3 Vehicle Management | 75 |
| 4.4 | Watch List Configuration | . 77 |
| | 4.4.1 Face Arming List | 77 |
| | 4.4.2 Vehicle Watch List | . 80 |
| 4.5 | Access Control | 81 |
| | 4.5.1 Preparations | 81 |
| | 4.5.2 Configuring Zone | . 82 |
| | 4.5.3 Configuring Access Rule | . 89 |
| | 4.5.4 Configuring Public Passwords | 94 |
| | 4.5.5 Configuring Access Control Devices | 95 |
| 4.6 | Video Intercom | 95 |
| | 4.6.1 Preparations | . 95 |
| | 4.6.2 Call Management | . 95 |
| | 4.6.3 Configuring Building/Unit | 98 |
| | 4.6.4 Synchronizing Contacts | 99 |
| | 4.6.5 Setting Private Password | 99 |
| | 4.6.6 App User | 100 |
| 4.7 | Visitor Management | 100 |
| | 4.7.1 Preparations | 100 |
| | 4.7.2 Configuring Visit Settings | 101 |
| 4.8 | Parking Lot | 102 |
| | 4.8.1 Preparations | 102 |
| | 4.8.2 Configuring Parking Lot | 103 |
| | 4.8.3 Managing Vehicle Group | 110 |
| 4.9 | Intelligent Analysis | 110 |
| | 4.9.1 People Counting Group | 110 |
| | 4.9.2 Scheduled Report | 112 |
| 5 Busir | nesses Operation | 113 |



| 5.1 | Monitoring Center | 113 |
|--------|--|------|
| | 5.1.1 Main Page | 113 |
| | 5.1.2 Video Monitoring | 115 |
| | 5.1.3 Playback | 139 |
| | 5.1.4 Map Applications | 149 |
| | 5.1.5 Video Wall | 151 |
| 5.2 | Event Center | .159 |
| | 5.2.1 Real-time Event | 160 |
| | 5.2.2 History Alarms | 162 |
| | 5.2.3 Alarm Controller | .162 |
| | 5.2.4 Temporarily Disarm | 165 |
| 5.3 | DeepXplore | 166 |
| | 5.3.1 Searching for Records | |
| | 5.3.2 Searching for People | |
| | 5.3.3 Searching for Vehicles | 169 |
| 5.4 | Access Management | .171 |
| | 5.4.1 Access Control | 171 |
| | 5.4.2 Video Intercom Application | 179 |
| | 5.4.3 Visitor Application | 181 |
| 5.5 | Parking Lot | 193 |
| | 5.5.1 Entrance and Exit Monitoring | 193 |
| | 5.5.2 Searching for Records | 194 |
| 5.6 | Intelligent Analysis | 202 |
| | 5.6.1 People Counting | .202 |
| | 5.6.2 Heat Maps | 204 |
| | 5.6.3 In-area People Counting | 205 |
| 6 Gene | eral Application | 207 |
| 6.1 | Target Detection | 207 |
| | 6.1.1 Typical Topology | 207 |
| | 6.1.2 Preparations | 207 |
| | 6.1.3 Live Target Detection | .208 |
| | 6.1.4 Searching for Metadata Snapshots | .208 |
| 6.2 | ANPR | 209 |
| | 6.2.1 Typical Topology | 209 |
| | 6.2.2 Preparations | 209 |
| | 6.2.3 Live ANPR | .210 |
| | 6.2.4 Searching for Vehicle Snapshot Records | |
| 6.3 | Face Recognition | 211 |
| | 6.3.1 Typical Topology | 211 |
| | 6.3.2 Preparations | 212 |



| | 6.3.3 | Arming Faces | 212 |
|---------|--------|---|-----|
| | 6.3.4 | Live Face Recognition | 212 |
| | 6.3.5 | Searching for Face Snapshots | 213 |
| 7 Syste | em Con | nfigurations | 214 |
| 7.1 | Licen | se Information | 214 |
| 7.2 | Licens | se | 214 |
| | 7.2.1 | Activating License | 215 |
| | 7.2.2 | Deactivating License | 215 |
| | 7.2.3 | Maintenance Renewal | 217 |
| 7.3 | Syste | m Parameters | 219 |
| | 7.3.1 | Configuring Security Parameters | 219 |
| | 7.3.2 | Configuring Retention Period of System Data | 220 |
| | 7.3.3 | Time Synchronization | 221 |
| | 7.3.4 | Configuring Email Server | 222 |
| | 7.3.5 | Configure Device Access Parameters | 223 |
| | 7.3.6 | Remote Log | 223 |
| | 7.3.7 | Configuring Push Notification for App | 223 |
| | 7.3.8 | Configuring Access Card | 224 |
| 7.4 | Backu | up and Restore | 224 |
| | 7.4.1 | System Backup | 224 |
| | 7.4.2 | System Restore | 225 |
| 8 Mana | ageme | nt | 227 |
| 8.1 | Mana | ging Logs | 227 |
| | 8.1.1 | Operation Log | 227 |
| | 8.1.2 | Device Log | 227 |
| | 8.1.3 | System Log | 227 |
| | 8.1.4 | Service Log | 228 |
| 8.2 | Down | nload Center | 228 |
| | 8.2.1 | By Timeline or File | 228 |
| | 8.2.2 | By Tagging Record | 229 |
| | 8.2.3 | By Locking Record | 230 |
| 8.3 | Config | guring Local Settings | 231 |
| | 8.3.1 | Configuring General Settings | 231 |
| | 8.3.2 | Configuring Video Settings | 232 |
| | 8.3.3 | Configuring Video Wall Settings | 234 |
| | 8.3.4 | Configuring Alarm Settings | 235 |
| | 8.3.5 | Configure File Storage Settings | 237 |
| | 8.3.6 | Viewing Shortcut Keys | 237 |
| | 8.3.7 | Exporting and Importing Configurations | 238 |
| 8.4 | Playir | ng Local Videos | 238 |



| 8.5 Qui | ck Commands | 240 |
|------------|--|-----|
| Appendix 1 | Service Module Introduction | 242 |
| Appendix 2 | Security Commitment and Recommendation | 244 |



1 Overview

1.1 Introduction

DSS Express can be used with 64 cameras for free and supports up to 256 cameras with license. In addition, it is easy to be integrated with access control, video intercoms and AI features such as facial recognition, ANPR, and video metadata. It is suitable for retail stores, vehicle entrance management, and office buildings.

1.2 Highlights

Lower investment

The free version of DSS Express provides 64 video channels and requires more affordable hardware. As your needs increase, you only need to pay for a new license and get extra performance.

• Pay-as-you-go

DSS Express is flexibly scalable. You can purchase different licenses to increase the number of devices you can connect to the platform. DSS Express supports up to 256 video channels, 64 doors, and 256 video intercoms.

• Easy upgrade

For more functions and capacity, simply upgrade to the professional version with just a license and a few simple steps.

• Unified platform

All your needs can be addressed directly in DSS Express with the comprehensive applications it can provide, including video surveillance, access control, video intercom, face recognition, and ANPR.



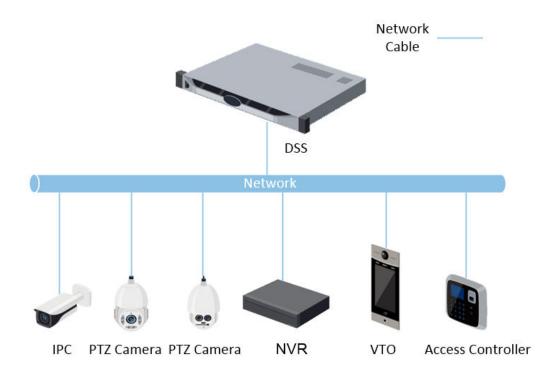
2 Installation and Deployment

DSS platform supports standalone deployment, and LAN to WAN mapping.

Standalone Deployment

For projects with a small number of devices, only one DSS server is required.

Figure 2-1 Standalone deployment



LAN to WAN Mapping

Perform port mapping when:

- The server of the platform and devices are on a local area network, and the DSS client in on the internet. To make sure that the DSS client can access the platform server, you need to map the platform IP to the Internet.
- The platform is on a local area network, and the devices are on the Internet. If you want to add devices to the platform through automatic registration, you need to map the IP address and ports of the platform to the Internet. For devices on the Internet, the platform can add them by their IP addresses and ports.



The management tool does not differentiate service LAN ports and WAN ports. Make sure that the WAN ports and LAN ports are the same.



2.1 Standalone Deployment

2.1.1 Server Requirements

| Table 2-1 DSS Ex | oress hardware | requirements |
|------------------|----------------|--------------|
| | oress naraware | requirements |

| Parameter | Hardware Requirement | Operating System |
|-----------------------------|--|--|
| Recommended requirements | CPU: Intel[®] Core(TM) I7-9700K CPU@3.60 GHZ RAM: 8 GB Network card: 1 × Ethernet port @ 1000 Mbps Hard drive type: 7200 RPM Enterprise Class HDD 1 TB DSS installation directory space: 500 GB | Microsoft[®] Windows 10 20H2 Pro (32-bit) Microsoft[®] Windows 10 |
| | CPU: Intel[®] Core(TM) 15-9400 CPU@2.90 GHZ RAM: 8 GB | 20H2 Pro (64-bit) • Microsoft [®] Windows 11 21H2 Pro (64-bit) |
| Minimum requirements | Network card: 1 × Ethernet port @ 1000 Mbps Hard drive type: 7200 RPM Enterprise Class HDD 1 TB DSS installation directory space: 200 GB | |

- Face recognition images, videos, and files cannot be stored on the system disk and DSS installation disk. We recommend you store these files on a separate local disk.
- For best performance, we recommend adding additional hard drives to store pictures.

2.1.2 Installing Management Tool

Prerequisites

- You have downloaded the installation package from the official website or received it from our sales or technical support.
- You have prepared a server that meets the hardware requirements described in "2.1.1 Server Requirements".

Procedure

<u>Step 1</u> Double-click the DSS installer

The name of the installer includes version number and date, confirm before installation.

- <u>Step 2</u> Click **the software license agreement**, and then read the agreement.
- <u>Step 3</u> Select the check box to accept the agreement, and then click **Next**.
- <u>Step 4</u> Click **Browse**, and then select an installation path.



If the **Install** button is gray, check whether the installation path and space required meet the requirements. The total space required is displayed on the page.

Ш

We do not recommend installing the management tool on disk C, because features such as face recognition require higher disk performance.

Step 5 Click Install.



The installation process takes about 4 to 8 minutes. Do not cut off the power or close the program.

- <u>Step 6</u> Click **Run** after the installation completes.
- <u>Step 7</u> Configure the network parameters.
 - 1. Configure the IP address of the network card.

Our

- **Dual NIC** will be available if the server has 2 network cards. This is useful when you need to access devices on 2 different network segments.
- The platform supports using a maximum of 2 network cards at the same time. You can either use 1 network card for accessing devices on a local area network, and 1 network card for services on the Internet; or use both network cards for accessing devices on a local area network, and then map one of them to the Internet.
- 2. (Optional) Enable **WAN Mode**, enter a WAN IP address or a domain name, and then click **Next**.

<u>_~~</u>

If the platform is in a local network, use this function to connect it to the Internet so that you can access it from outside the local network.

3. Configure the TLS version, and then click **Finish**.

TLS1.2 is selected by default and cannot be changed. We do not recommend using TLS1.0 and TLS1.1 because they have serious security vulnerabilities.

\square

If the available RAM of the server is less than 2 GB, you can only use basic functions related to video. If it is less than 1.5 GB, you cannot use any function.

Related Operations

- To uninstall the platform, log in to the server, go to "..\DSS\DSS Server\Uninstall", double-click uninst.exe, and then follow the on-screen instructions to uninstall the program.
- To update the system, directly install the new program. The system supports in-place update. Follow the steps above to install the program.

2.1.3 Configuring Server IP Address

Change the server IP address as you planned. Make sure that the server IP can access the devices in your system. For details, see the manual of the server.

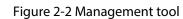
After changing the IP address of the server, you need to update it in the management tool. See the following section.



2.1.4 Management Tool

The management tool allows you to view status of services, start or stop services, change service ports, and more.

On the server, double-click



| D DSS | Express Managemer | 2 It Tool | | | 3 4 5 |
|--------------|----------------------|-----------------------------------|--------------------------------|-------------------|--|
| Main Pla | atform | Running | | 也 Restart All 🛛 🚺 | Stop All 🖸 Refresh 🦰 6 |
| | Service | Description | Port | Status | Operation |
| ▼ Ge | neral Standa | ard Service (4) | | | |
| | NGINX | NGINX Proxy Service | HTTP:80; HTTPS:443(Login Port) | 🥺 Running | • |
| | REDIS | Redis Data Cache Service | 6379 | 😪 Running | • |
| | MySQL | MySQL Database Service | 3306 | 🥺 Running | • • • |
| | MQ | MQ Push Notifications Service | OPENWIRE:61616; MQTT:1883; A | 🔗 Running | ● ● ● |
| ▼ Pla | atform Mana | agement Service (7) | | | |
| | SMC | System Management Service | HTTP:8000; HTTPS:8443; CMS:90 | 🤗 Running | • |
| | DAMS | DA Management Service | RESTOUT:6556; RESTINNER:6555; | 🤗 Running | o |
| | ACDG | Access Control Management Service | 8888 | 🤗 Running | 0 |
| | VMS | Video Decoding to Wall Service | | 🤗 Running | 0 |

| No. | Function | Description |
|-----|---------------------------------|--|
| 1 | Server information | Displays the IP address and type of the platform. |
| | Status of services | There are 5 statuses of services, including starting, unavailable, stopping, running, and stopped. |
| 2 | | The unavailable status only depends on the status of the SMC service. If the SMC service is not properly running, the overall status will be unavailable. Running means that all services are running normally. |
| 3 | Information for port mapping | Displays the ports that you need to map for various functions. Select one or more functions, the ports you must map will be displayed on the right. Click to export them to your computer so that you can check on them easily. |
| 4 | Download clients and logs | Client: Displays how to download the PC client and App. Logs: Download the operation logs of the management tool. |





| No. | Function | Description |
|-----|---|---|
| 5 | Configurations and view information of the platform | Network: Configure the network card mode, IP address, and the WAN mode. If the server has two network cards, you can select Dual NIC mode, configure two IP addresses, and then the platform will be able to connect to two networks and access the devices on each one. If the platform is in a local network and the devices are on the internet, or you need to access the platform that is in a local network from the Internet, you can enable WAN Mode and map the IP address of the platform to a WAN IP address or a domain name. Security: Select a TLS protocol version when you access the webpage of the platform through a browser. TLS1.2 is selected by default and cannot be disabled. There are security vulnerabilities to TLS1.0 and 1.1. We strongly recommend you disable it to avoid security risks. After configuration, follow the on-screen instructions to configure the TLS protocol version in the IE browser so that you can access the webpage of the platform normally. Language: Select the language of the management tool. Multiple languages are supported. Port Self-adaption: If a port is occupied, the platform will change it automatically. After turning on or off this function, you must restart the server for it to be effective. User manual: View the user manual of the platform. About: View the software version information, software license agreement, and more. |
| 6 | Service management | Click Restart All to restart all services. When starting the platform, if the available memory of the server does not reach 2 GB, only the basic video services can be enabled. If the server has less than 1.5 GB of available memory, no services are available. Click Stop All to stop all services. |
| 7 | Services | Click Refresh to refresh services. Displays all services, and their status and port numbers. Click to change the port number of a service, and then the services will restart automatically after modification. |



| No. | Function | Description |
|-----|-----------------|--|
| | Database repair | If you cannot log in to the client because the database is abnormal, you can try to repair it manually. Click of the MySQL service, and follow the instructions. Based on the items checked, the platform will determine whether repair or restoration is needed. If repair fails, you can try restoring the database. During restoration, the platform will back up the database. Please make sure that there is enough space. Otherwise, restoration will fail. Click to view all backup files. You can delete them as needed. |
| | | To restore the database, the platform needs to use port 3306. If a process is using the port, you need to terminate it first. |

2.1.5 Installing and Logging into DSS Client

Install the DSS client before licensing it.

2.1.5.1 Installing DSS Client

You can visit the system through the DSS Client for remote monitoring.

2.1.5.1.1 DSS Client Requirements

Press the Windows key, and type **dxdiag**, and then click discussed. On the **System** page, the information of your computer is displayed.

To install DSS Client, prepare a computer in accordance with the following requirements.

| Parameters | Description | | | |
|------------------------------------|--|--|--|--|
| Recommended system requirements | CPU: Intel[®] Core i7-11700 @ 2.50 GHz Memory: 16 GB and above Graphics: NVIDIA[®] GeForce[®] RTX 3060 Network Card: 1000 Mbps HDD: Make sure that at least 100 GB is reserved for the client. | | | |
| Minimum system requirements | CPU: Intel[®] Core i5-9500 @ 3.00 GHz Memory: 16 GB Graphics: Intel[®] UHD Graphics 630 Network Card: 1000 Mbps DSS client installation space: Make sure that at least 50 GB is reserved for DSS client. | | | |

8



2.1.5.1.2 Downloading and Installing DSS Client

Procedure

- Go to https://IP address of the platform in the browser. Step 1
- Step 2 Click PC, and then Download.

\square

The platform also supports installation by MSI package. Visit https:// software.dahuasecurity.com/en/download/ and download the MSI package of the platform version you need. Please be advised that you cannot overwrite the PC client installed with an exe package, and vice versa. Also, the PC client installed with an MSI package does not support automatic update. You must download the package of the new version an install it manually.

If you save the program, go to Step 3.

If you run the program, go to Step 4.



| DSS | NØ User Manual |
|--|----------------|
| DSS Clients V8.50 Application based Scalable Secure Open Download Client | |

- Step 3 Double-click the DSS Client program.
- Step 4 Select the checkbox of I have read and agree to the DSS agreement and then click Next.
- Step 5 Select a path for installation, and then click Install.

The installation progress is displayed. It takes about 5 minutes to complete.

2.1.5.2 Logging in to DSS Client

Procedure

- Double-click on the desktop. Step 1
- Step 2 Select a language.
- Enter the IP address or domain name, and port number of the platform. Step 3

On the drop-down list, platforms that are in the same network as your computer will be shown.



\square

- If you want to log in to the platform using a domain name, you must link its IP address to a domain name first. For details, see "2.2.2 Mapping IP or Domain Name".
- If you log in by localhost, the platform will automatically change it to 127.0.0.1.
 - Figure 2-4 Automatically discovered platform

| DSS 🚺 | | | English V X |
|-------|------------------------------------|------------------|-------------|
| | Normal User Domain User | | |
| | B 30441384 ^ | | |
| | Previously Used Servers | | |
| | | | |
| | Auto Discovered Servers No Servers | Forgot password? | |
| | Auto Login | | |
| | Log In | | |
| | | | |
| | | | |

<u>Step 4</u> Click anywhere else on the page to start initializing the platform.

For first-time login, you will be automatically directed to the initialization process.

If you are not logging in for the first time, enter the IP address or domain name, port number of the platform, username, and password, and then click **Login**.

1. The default user is system. Enter and confirm the password, and then click **Next**.

The password must consist of 8 to 32 non-blank characters and contain at least two types of characters: Uppercase, lowercase, number, and special character (excluding ' ";: &).

2. Select your security questions and enter their answers, and then click OK.

The client will automatically log in to the platform by using the password you just set.



Please keep the security questions and answers properly. Otherwise, your password cannot be recovered if you forget it.



2.1.5.3 Homepage of DSS Client

| DSS 1 | | | | | _ | 5 | 3 Overview | | ₽ - ♂ × |
|--|---|---|-------------|-------------|----------------|---------------|---|---------------------------------|---|
| E Basic Cor Device II App Cort Storage Pi Viator II System C License | ver ver m Event Parking Lot | Storage Wap Intelligent Analysis Eacturg and Restore | Person Info | Arming List | Access Control | Vdeo Intercom | Device Total 0 Event Total 0 Client Network CRU RAM 2 Manageme 2 Manageme 2 Down 2 Local 2 Down 2 Local 2 Down 2 Local 3 2 Down 2 Set Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set 2 Set Set Set 2 Set Set Set Set Set Set Set Set Set Set | load Center images Videos | Offlixe 0 9 9% 9% 9% 8% |

Figure 2-5 Homepage

| No. | Name | Function |
|-----|-----------------|--|
| 1 | Tab | Displays the names of all tabs that are opened. |
| 2 | System settings | Enable or disable alarm audio. Displays number of alarms. Click the icon to go to Event Center. Click to view system messages, such as the information of a device was edited or deleted. The permissions of a user will determine what messages can be seen. For example, if user A does not have the permission of device A, then user A will not get the message when device A is deleted. Luser information: Click the icon, and then you can log in to the web page by clicking system IP address, change password, lock client and log out. Click platform IP address to go to the Web page. Click About to view version information. Click Sign Out to exit client. |
| 3 | Overview | The number of devices in total, offline and online. The number of total, processed and pending events. The client network, CPU and RAM usage. |



| No. | Name | Function |
|-----|--------------|---|
| 4 | Management | Download videos. Check local pictures and videos. Settings for video, snapshot, video wall, alarm, security and shortcut keys. View and manage logs. View user manual. Customize quick HTTP commands. For details, see "8.5 Quick Commands". |
| 5 | Applications | Application options including monitoring center, access management, intelligent analysis and vehicle entrance control. Configuration options. |

2.1.6 Licensing

You can upgrade your license for more features and increased capacity.

This section introduces license capacity, how to apply for a license, how to use the license to activate the platform, and how to renew your license.

2.1.6.1 Applying for a License

A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, scroll to the bottom, click **Apply**, and then follow the instructions. You can only use a trial license on a server once.

2.1.6.2 Activating License

 \square

The following images of the page might slightly differ from the actual pages.

2.1.6.2.1 Online Activation

Prerequisites

• You have received your license. If not, see "2.1.6.1 Applying for a License".

A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, and then follow the application instructions.

• The platform server can access the Internet.

Procedure

- Step 1 On the Home page, click **S**, and then in System Config, select License.
- <u>Step 2</u> Click Activate License, Select Online Activate License, then click OK.
- <u>Step 3</u> Enter your new Activation Code.
- Step 4 Click Activate Now.
- <u>Step 5</u> On the **License** page, view your license details.



2.1.6.2.2 Offline Activation

Prerequisites

You have received your license. If not, see "2.1.6.1 Applying for a License".

A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, and then follow the application instructions.

Procedure

- <u>Step 1</u> On the **Home** page, click **N**, and then in **System Config**, select **License**.
- <u>Step 2</u> Click Offline Activate License , select Offline Activate License, then click OK.
- <u>Step 3</u> Enter your new **Activation Code**.
- <u>Step 4</u> Click **Export** to export the license request file.
- <u>Step 5</u> Generate license file.
 - 1. Move the request file to a computer with Internet access.
 - 2. On that computer, open the system email that contains your license, and then click the attached web page address or **Click to go to DSS License Management** to go to the license management page.

Figure 2-6

- 3. Click Activate License.
- 4. Click **Upload**, select the license request file, and then when you are prompted **uploaded successfully**, click **Activate**.

The success page is displayed, where a download prompt is displayed asking you to save the license activation file.

Figure 2-7 Upload license request file

| Demust File | |
|--|--|
| Request File: Upload Only Support ZIP, file size less than 2MB | |
| The license request file can be exported in DSS software. | |
| License Key: 2000-2000-2000-2000 | |
| Activate | |
| | |

5. On the success page, click **Save** to save the file, and then move the file back to the computer where you exported the license request file.



6. On the **Offline Activate License** page, click **Import**, and then follow the on-screen instructions to import the license activation file.

<u>Step 6</u> On the **License** page, view your license details.

2.2 Configuring LAN or WAN

2.2.1 Configuring Router

For the list of the ports that need to be mapped, see "Appendix 1 Service Module Introduction".

Make sure that the WAN ports are consistent with LAN ports.

2.2.2 Mapping IP or Domain Name

If the platform is deployed in a local network, you can map the IP address of the server to a fixed WAN IP or a domain name, and then log in to the server using the WAN IP or domain name.

The page might vary between the main server and the sub server. This section uses the main server page as an example.

Procedure

<u>Step 1</u> Log in to DSS server, and then double-click **D**.

- <u>Step 2</u> Click the On the upper-right corner, and then select **Network**.
- <u>Step 3</u> Enable WAN mode, enter a WAN IP address or a domain name, and then click **OK**.

If you want to use a domain name, you need to make corresponding configurations on the domain name server.

<u>Step 4</u> Click **OK**, and then the services will restart.

2.3 Virtualization Deployment

We usually apply virtualization deployment to better utilize hardware resources. In virtualization deployment, physical servers usually do not load virtual servers with all their allocated resources, and do not load virtual servers and the resources they need at the same time. However, the DSS platform frequently acquires the video streams from cameras for live view and storage, which puts high pressure on the CPU, memory, network, and storage. The benefits of virtualization deployment disappear when the DSS platform is running on a virtual server. Therefore, we do not recommend that you deploy the DSS platform on a virtual server. We recommend that you install an operating system on a physical server and directly deploy the DSS platform on the server to achieve optimal and reliable performance.

If you have to deploy the DSS server on a virtual server, pay attention to the following content during deployment.

Operating System for Virtual Server

● VMware[®]ESXi[™] 7.x



• Microsoft[®] Hyper-V with Windows Server 2019

PC Client

When the PC client is running on a virtual server, the biggest issue is that the PC client cannot use the GPU to decode videos. Therefore, we do not recommend installing and running the PC client on a virtual server.

DSS Server

- If the resources, such as CPU and memory, allocated to the virtual server are more than a physical server required to run the DSS server, there should not be a problem for the DSS server to run on the virtual server.
- If the resources, such as CPU and memory, allocated to the virtual server are just the same as a physical server required to run the DSS server, you must consider that certain resources will be used to run the virtualized environment.
- When multiple virtual servers and other applications are running on the same physical server, there might be performance issues. For a virtual server, it cannot make sure that certain resources will always be used by a process. If this can be addressed, performance issues can be minimized or avoided.
- The DSS server will continuously store videos and other data to disks. We recommend that the DSS server should exclusively use the disks allocated to it by the virtual server, so that the DSS server can use all of the disks' read and write capability.
- The DSS server will continuously occupy certain bandwidth to acquire video and audio streams. We recommend that the DSS server should exclusively use the network cards allocated to it by the virtual server, so that the DSS server can use all of the network cards' performance.
- In virtualization deployment, the license might become invalid due to change of hardware information.



3 Basic Configurations

Configure basic settings of the system functions before using them, including system activation, organization and device management, user creation, storage and recording planning, and event rules configuration.

3.1 Managing Resources

Manage system resources such as devices, users, and storage space. You can add organizations and devices, configure recording plans, bind resources, and more.

3.1.1 Adding Organization

Classify devices by logical organization for the ease of management. The default organization is **Root**. If the parent organization is not specified, newly added devices are attached to **Root**.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪
- <u>Step 3</u> Add an organization.
 - 1. Select a parent organization.
 - 2. Click +.

Figure 3-1 Add an organization

| Organization |
|---------------------------|
| + 2 Search |
| Search 1 ✓ Ⅲ Current Site |
| n. lft |
| .ṁ. Imy |
| 렀 znn |
| ∴ zy |

3. Enter the name of the organization, and then click **OK**.



| | Organization | | | |
|------------|----------------|--------|--------|--|
| Basic Info | | | | |
| Parent Or | ganization | | | |
| Current | Site | | | |
| * Organiz | ation Name | | | |
| | | | | |
| Remarks | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| OK | Save and Add E | Device | Cancel | |

You can also right-click the root organization, and then click **Add Organization** to add an organization.

Related Operations

• Change organization name

 \square

Right-click the organization, and then click **Rename**.

Delete an organization

Organization with devices cannot be deleted.

Select the organization, click , or right-click an organization and select **Delete**.

• Change the organization of devices

Select one or more devices, and then click **Move To** to move them to another organization.

3.1.2 Managing Device

Add devices before you can use them for video monitoring. This section introduces how to add, initialize, and edit devices and how to change device IP address.



3.1.2.1 Searching for Online Devices

Search for devices on the same network with the platform before you can add them to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click **b**.
- Step 3 Click **Discover Device**.

- When using the platform for the first time, the platform automatically searches for devices on the same network segment.
- If not the first time, the platform automatically searches for the devices in the network segment you configured last time.

<u>Step 4</u> Specify **IP Segment**, and then click **Search**.

Figure 3-3 IP segment search

| • | Discover Device | List o | f Abnormally Adde | d D | | | | | | |
|---|----------------------|--------|-------------------|-----------------|--------------|------|--------------------|---------|---------------|--------|
| | | ට Refr | esh 🔇 Initialize | | | IP S | egment 192.168.1.1 | _ | 192.168.1.210 | Search |
| | Initialization Statu | 15 \ | ✓ IP Address ↓ | Access Protocol | Device Model | Port | MAC | Address | Operation | |
| | | | | | | | | | | |

The devices have been added to the platform will not be displayed in the search results.

3.1.2.2 Initializing Devices

You need to initialize the uninitialized devices before you can add them to the platform.

Procedure

- <u>Step 1</u> Search for devices. For details, see "3.1.2.1 Searching for Online Devices".
- <u>Step 2</u> Select an uninitialized device, and then click **Initialize**.

<u>0-47</u>

- You can select multiple devices to initialize them in batches. Make sure that the selected devices have the same username, password and email information. The information of these devices will be the same after initialization, such as password and email address.
- Click Initialization Status to quickly display devices that are initialized or not.
- <u>Step 3</u> Enter the password, and then click **Password Security**.
- <u>Step 4</u> Enter the email address, and then click **Change IP**.

 \square

The email is used to receive security code for resetting password.

<u>Step 5</u> Enter the IP address, and then click **OK**.

When setting IP addresses in batches, the IP addresses increase in an ascending order.



3.1.2.3 Changing Device IP Address

You can change IP addresses of the devices that have not been added to the platform.

Procedure

- <u>Step 1</u> Search for devices. For details, see "3.1.2.1 Searching for Online Devices".
- <u>Step 2</u> Select a device, and then click **Change IP**.
 - \square

For devices that have the same username and password, you can select and modify their IP addresses in batches.

| Figure 3-4 Change IP addres | s |
|-----------------------------|---|
|-----------------------------|---|

| Discover Device List | st of Abnormally Added D | | Change Device IP | × | | |
|-----------------------|--------------------------|-----------------|------------------|--------|-------------|-----------|
| Add to Device List | Refresh 🛞 Initialize | 🖍 Change IP | | | 7.1.1 - | Search |
| Initialization Status | V IP Address 🕴 | Access Protocol | | | MAC Address | Operation |
| 🔽 😔 Initialized | | Dahua | * Subnet Mask | | fc dc | |
| 🗌 🥪 Initialized | | Dahua | * Gateway | | fc 93 | |
| 🗌 😔 Initialized | | Dahua | | | 3(| |
| 📄 😔 Initialized | | Dahua | | | f4 14 | |
| | | | Save | Cancel | | |

<u>Step 3</u> Enter **New IP**, **Subnet Mask** and **Gateway**, and then click **Save**.

When setting IP addresses in batches, the IP addresses increase in sequence.

<u>Step 4</u> Enter the username and password used to log in to the devices, and then click **OK**.

3.1.2.4 Adding Devices

You can add different types of devices, such as encoder, decoder, ANPR device, access control, and video intercom. This section takes adding an encoder as an example. The configuration pages shown here might be different from the ones you see for other types of devices.

When you add devices by using automatic registration, IP segment, or importing, some devices will fail to be added if they exceed the number of devices or channels allowed to be added to the platform. These devices will be displayed in **Devices without License**.

3.1.2.4.1 Adding Devices One by One

There are multiple ways you can add devices to the platform, including using domain names, serial numbers, IP addresses, IP segments, and automatic registration.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 6
- Step 3 Click Add.
- <u>Step 4</u> Enter device login information, and then click **Add**.

Select a mode to add the device.



• IP Address : We recommend selecting this option when you know the IP address of the device.

 \square

Only **Encoder** devices support IPv6. If you want to add devices to the platform through IPv6 addresses, you must first configure an IPv6 address for the platform. Contact technical support for help.

- **IP segment** : Add multiple devices in the same segment. We recommend selecting this option when the login username and password of the multiple devices in the same segment are the same.
- **Domain Name** : We recommend selecting this option when the IP address of the device changes frequently and a domain name is configured for the device.
- Auto Registration : We recommend this method when the IP address of a device might change. The ID of auto register has to be in accordance with the registered ID configured on the device you want to add. The port number must be the same on the platform and on the device. The auto register port is 9500 on the platform by default. To change the auto register port number, open the configuration tool to change the port number of ARS service.
 - After a device is added through auto registration, hover the mouse over its IP address on the device list, and then you can see its local IP address and the IP address it uses to connect to the platform.
 - Sleep function is supported for IPCs that use 4G mobile network to communicate and are solar-powered only when they are added to the platform through automatic registration.
- **P2P** : Add devices under a P2P account to the platform. The platform must be able to access the P2P server. There is no need to apply for the dynamic domain name of the device, perform port mapping or deploy a transit server when using it.
- **RTSP Address** : We recommend this method when adding third-party devices.
 - Device Category only supports Encoder and the Access Protocol only supports RTSP.
 - Only live view and playback of central recordings are supported if devices are added through this way. For details of configuring central storage plan, see "3.1.4.1 Adding Recording Plan One by One".

\square

- The parameters vary with the selected protocols.
- When you set **Device Category** to **Video Wall Control**, and you are using the **Dual NIC Mode**, **WAN Mode**, or both modes, you need to select the network in which the device works according to the actual situation.



Figure 3-5 Add an encoder

| 1.Login Information | |
|-----------------------------|-------------------------|
| Add Mode: | Access Protocol: |
| IP Address 🔹 | Dahua 🔻 |
| Device Category: Encoder | IP Type: IPv4 IPv6 |
| IP Address: | Device Port: • 37777 |
| Username: * admin | Password: * ●●●●● |
| Organization: Root 🔹 | Server: |

<u>Step 5</u> Enter the information.

When setting **Device Category** to **Alarm Controller**, you need to set the number of subsystem and zone.

Step 6 Click OK.

- To add more devices, click **Continue to add**.
- To go to the web manager of a device, click 🦲.

Related Operations

It is select by default. If selected, the system will display the devices of sub organization. If not selected, the system will only display the devices of the current organization.

3.1.2.4.2 Adding Devices through Searching

Devices on the same network with the platform server can be added using the automatic search function.

Procedure

<u>Step 1</u> Search for devices.

<u>Step 2</u> Select a device, and then click **Add to Device List** or **a**.

<u>_---</u>

If devices have the same username and password, you can select and add them in batches.



Figure 3-6 Add in batches

| • | Discover Device | List of Al | bnormally Added D | | | | | | |
|---|--------------------|------------|-------------------|-----------------|---------------------|------------|-------------|-----------|--------|
| | Add to Device List | C Refresh | | 🖍 Change IP | | IP Segment | | 11.11.00 | Search |
| | Initialization St | atus 🗸 | IP Address 🕔 | Access Protocol | Device Model | Port | MAC Address | Operation | |
| | 🖌 😔 Initialized | | | Dahua | LE202 | 37777 | | | |
| | 🖌 😔 Initialized | | | Dahua | 10.00 -0.000 cm. | 9901 | | | |
| | 🖌 😔 Initialized | | | Dahua | in summary. | 37777 | 10000 | | |
| | 🖌 😔 Initialized | | | Dahua | 11. artista 11. d., | 37777 | | | |
| | | | | | | | | | |

<u>Step 3</u> Select the server and organization, enter username and password, and then click **OK**.

3.1.2.4.3 Importing Devices

Enter the device information in the template, and then you can add devices in batches.

Prerequisites

You have downloaded the template, and then enter device information in the template.

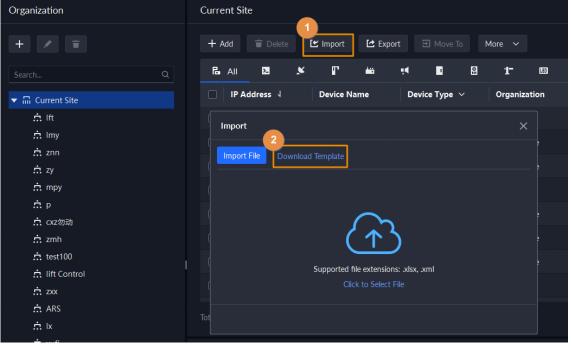


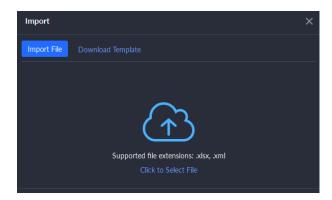
Figure 3-7 Download template

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪
- Step 3 Click Import.



Figure 3-8 Import devices



Step 4Click Import File, and then select the completed template.Step 5Click OK.

3.1.2.5 Editing Devices

Edit the information of devices.

3.1.2.5.1 Changing IP Address

For the devices that have been added to the platform, and their IP addresses have been changed, you can edit their IP addresses directly on the platform so that they can connect to the platform normally.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click **Device Config**.
- <u>Step 3</u> Click **∠** of a device.
- <u>Step 4</u> Edit the IP address, and then click **OK**.

3.1.2.5.2 Modifying Device Information

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪.
- <u>Step 3</u> Click **C** of a device, and then edit device information.

Click **Get Info** and the system will synchronize device information.



Figure 3-9 Basic information

| ← Al | l Devices | | | | | | |
|-----------------|--|--|-------|--------------------------------------|--|--|--|
| | | | | | | | |
| 🗭 Basi | ic Info | ▼ Basic Info | | | | | |
| ► Vide | eo Channel | Access Protocol | | Manufacturer | | | |
| <u>–</u> ি Alar | m Input Channel | | | Dahua 🗸 | | | |
| | m Output Channel | Organization | | Server | | | |
| | | Current Site | | × | | | |
| | | * IP Address | | * Device Port 37777 | | | |
| | | | | | | | |
| | | Modify Device Login Info | | | | | |
| | | | | | | | |
| | | ▼ Device Details | | | | | |
| | | * Device Name | | Device Model | | | |
| | | CONTRACTOR | | | | | |
| | | Device Type | | | | | |
| | | IVSS/IVD | | | | | |
| | | Device SN | | | | | |
| | | | | | | | |
| | | Time Zone 🔶 (UTC-12:00) International Date Line West | | ✓ Details | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Get Info | OK Cancel | | | | | | |
| <u>Step 4</u> | Click Video Chan name and channe | | nann | nel information, such as the channel | | | |
| | The features that you can set for channels vary with the types of devices. If the device is added through the ONVIF protocol, you can configure the stream type of it video channels. | | | | | | |
| <u>Step 5</u> | Click the Alarm II of the alarm inpur | - | onfi | gure number, names, and alarm types | | | |
| | Skip the step whe | en the device does not suppor | t ala | rm input. | | | |
| | | | | ect, zone disarm, PIR, gas sensor, | | | |

- smoke sensor, glass sensor, emergency button, stolen alarm, perimeter and preventer move.
- Alarm type supports custom. Select **Customize Alarm Type** in the **Alarm Type** dropdown list. Click **Add** to add new alarm type. It supports up to 30 custom alarm types.



- <u>Step 6</u> Click the **Alarm Output Channel** tab and then edit the number and names of alarm output channels.
- <u>Step 7</u> Click the **Audio and Light Channel** tab, and then edit the number and names of the audio and light channels.
 - \square

This tab will only appear if the device has audio and light channels.

Step 8 Click OK.

3.1.2.5.3 Getting Device Information in Batches

This function allows you to get information from device in batches to reduce repeated operations. For example, if the platform fails to get information from certain devices after you add them in batches, you can use this function to get the information from them at the same time.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device** > **Add Device**.
- <u>Step 2</u> Select an organization, and then the devices in this organization and its sub organizations will be displayed on the right.
- <u>Step 3</u> Select multiple devices.
- <u>Step 4</u> Select **More** > **Get Info**, and then click **OK**.

Wait for the platform to finish the process.

Related Operations

If the platform still cannot get information from certain devices, click 🔤 to see the reasons.

3.1.2.5.4 Configuring Channel Features in Batches

Configure the channel features in batches so that devices can work normally. The platform also displays the number of each type of channels features allowed to be configured to help you plan the types and number of devices you will use.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> On the top of the page, select **More** > **Capability Set Management**.
- <u>Step 3</u> In the **Capability Set Type** drop-down list, select a type, and then the platform will only display devices and channels that are configured with that type of capability set.
- <u>Step 4</u> Select the channels you want to configure.
- <u>Step 5</u> Click the area below the **Features** column, and then select one or more features.

Figure 3-10 Select capability sets

| Channel Name | Device Name | Organization | Features |
|--------------|-------------|--------------|--|
| Channel0 | n5Mpy | mpy | Intelligent Alarm,Electric Focus,IR Tem~ |
| | | | Intelligent Alarm |
| | | | ✓ Electric Focus |

<u>Step 6</u> Complete configuration.

• If configuration is complete, click **Complete** to save the settings and exit the page.



• If you want to configure more channels, click **Save** to save your current settings, and then continue your configuration. When it is complete, click **Complete** to save the settings and exit the page.

3.1.2.5.5 Modifying Device Organization

You can move a device from an organization node to another one.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🛅.
- <u>Step 3</u> Select a device to be moved, click **Move To**, select the target organization, and then click **OK**.

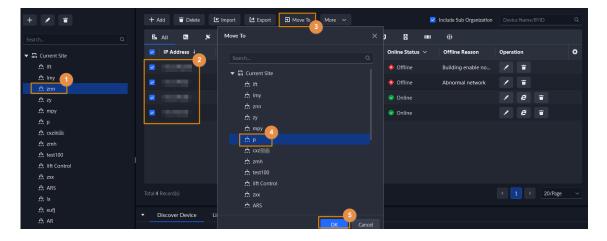


Figure 3-11 Move a device

3.1.2.5.6 Changing Device Password

You can change device usernames and passwords in batches.

Procedure

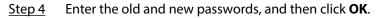
- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪
- Step 3 Select a device, click **More** , and then click **Change Password**.

You can select multiple devices and change their passwords at the same time.



Figure 3-12 Change device password

| + 🖍 👕 | + Add 👕 Delete | 🖆 Import 🖆 Export 🔁 Move | e To More 3 | | Include Sub Organization | |
|------------------|---------------------|--------------------------|------------------|------------------|--------------------------|---------------|
| | | K 🛛 🖮 🖻 🖬 | a 1- w | 8 88 | | |
| 🗸 🖬 Current Site | ■ IP Address ↓ | Device Name Device Type | e 🗸 Organization | Online Status $$ | Offline Reason | Operation 🗘 |
| ∴ lft | | Set Passwords in Batches | × P | 💠 Offline | Abnormal network | / = |
| .ṁ Imy | | | n | 🚸 Offline | Abnormal network | |
| 🛱 znn | | * Old Password | | | | |
| ∴ zy | | ••••• | <u>©</u> 0 | 💠 Offline | Building enable no | 1 |
| .ṁ mpy | | * New Password | p | 💠 Offline | Abnormal network | / = |
| | | ••••• | 8 | 🚸 Offline | Login timed out | |
| n cxz勿动 | | | P | V Onne | Login timed out | |
| 📩 zmh | | * Confirm Password | p | 💠 Offline | Logging in | 1 |
| 📩 test100 | | •••••• | 8 | Online | | . e 🕯 |
| 🚊 lift Control | | | | | | |
| | | ок | Cancel | 🚸 Offline | Abnormal network | |
| 📩 ARS | | | 2 | | | |
| .∴ Ix | Total 9 Record(s) | | | | | 4 1 ▶ 20/Page |



3.1.2.6 Logging in to Device Webpage

After a device is added to the platform, you can click e to go to the webpage of a device.

If you cannot go to the webpages of devices normally, you can follow the steps below to complete related settings. For procedures on the device webpage, see the user manual of the device.

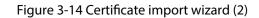
- 1. Log in to the webpage of the device, and then download the trusted CA root certificate.
- 2. Double-click the certificate, and then click Install Certificate.
- 3. Select Current User , and then click Next.

Figure 3-13 Certificate import wizard (1)

| ~ | 🚰 Certificate Import Wizard | ~ |
|---|---|---|
| | Welcome to the Certificate Import Wizard | |
| | This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store. | |
| | A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept. | |
| | Store Location | |
| | | |
| | To continue, dick Next. | |
| | | |
| | | |
| | Next Cancel | |

4. Store the certificate to Trusted Root Certification Authorities , and then click Next.





| ÷ | Certificate Import Wizard | × | | | | | |
|---|---|----|--|--|--|--|--|
| | Certificate Store Certificate stores are system areas where certificates are kept. | | | | | | |
| | Windows can automatically select a certificate store, or you can specify a location for the certificate. O Automatically select the certificate store based on the type of certificate Place all certificates in the following store | | | | | | |
| | Certificate store: Trusted Root Certification Authorities Browse | | | | | | |
| | | | | | | | |
| | Next Cance | el | | | | | |

5. Click Finish.

6. On the webpage of the device, create a device certificate, and then apply it.

For the IP address in the certificate, you must enter the IP address of the computer that visits the webpage.

3.1.2.7 Exporting Devices

You can export the information of devices to your computer. This is useful when you need to switch or configure a new platform, you can quickly add them all by importing them. You can export up to 100,000 devices at a time. Only administrators are allowed to export the login passwords of devices.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.

Step 2 Click 🛅.

- <u>Step 3</u> (Optional) Select only the devices that you need.
- Step 4 Click **Export**.
- <u>Step 5</u> Enter the login password, encryption password, select whether to export the passwords of devices and the export range, and then click **OK**.

 \square

You can configure whether to verify the login password. For details, see "7.3.1 Configuring Security Parameters".

• The encryption password is used to protect the export file. It consists of 6 uppercase or lower case letters, numbers, or their combination. You need to enter it when using the export file.



• You can select **All** to export all the devices, or **Selected** to export the devices you selected.

<u>Step 6</u> Select a path on your PC, and then click **Save**.

3.1.2.8 Modifying Device Time Zone

Configure device time zone correctly. Otherwise you might fail to search for recorded video.

 \square

If a device is accessed through ONVIF and the ONVIF version is earlier than 18.12, the device DST cannot be edited on the platform. You can only edit it manually on the device.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪.

<u>Step 3</u> Select a device, click **More**, and then click **Time Zone Settings**.

Figure 3-15 Modify device time zone

Step 4Select a time zone.Step 5Click **OK**.

⁺ Add 👕 Delete 🗠 Import 🗠 Export ➔ Move To More 品 Encoder × Г ÷ . I 0 1-LED × ÷ IP Address ↓ Online Status × Time Zone Settings 🚸 Offline 홚 Offline (UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi 🕸 Offline 🕗 Online The time zone does not observe daylight saving time. Online Online Cancel EVS23181 EVS EVS Online 11.80 NVR 🕸 Offline Current Site Total 211 Record(s)



3.1.3 Binding Resources

You can bind different types of channels, such as an ANPR channel or door channel, to a video channel. You can view real-time videos of the bound channels in different functions, or linked them for certain actions in an event, such as recording a video.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 6.

<u>Step 3</u> Select a channel, and then click **Modify**.

Figure 3-16 Bind one or more channel

| Config | | | | |
|------------------|----------------------------|------------------------|-------------------------|---------------------|
| Search Q | 12 E | ixternal Alarm | | |
| BSC2 | | | | |
| <u>-</u> 귀 | Event Info Event Config | | | |
| <u>-</u> ①12_2 | Associated Sche Event Type | Priority Time Template | Holiday Template Action | Remarks Operation |
| Door1 | Associated sche Event Type | Phoney Time Templace | Holiday Template Action | Centarion Operation |
| 🖙 wate | | | | |
| ▶ 点 Imy | | | | |
| ▶ 点 znn | | | No data | |
| ▶ ∴ zy | | | | |
| ▶ 📩 mpy | | | | |
| ▶ m p | | | | |
| ▶ 点 cxz勿动 | Bind Video Channel Modify | | | |
| ▶ 📩 zmh | | | | |
| ► ④ q-inte | Channel Name | Device Name | | Operation |
| ▶ 📩 test100 | | EVS35 | | • |
| ▶ 📩 lift Control | | 20355 | | |

<u>Step 4</u> Select one or more channels, and then click **OK**.



| Select Channels (0-16) | | Selected (3) | | |
|-------------------------|----------|--------------|-------------|-----------|
| | <u>α</u> | Channel Name | Device Name | Operation |
| ▼ 🔲 🖬 Current Site | | | EVS35 | • |
| ▼ 🗹 🚊 lft ▼ 🔽 😫 🛑 12 | | BSC1 | 12 | • |
| 🗹 📑 BSC1 | > | BSC2 | 12 | • |
| ✓ ■ BSC2 | | | | |
| ▶ □ ☆ Imy ▶ □ ☆ znn | | | | |
| ► □ zy | | | | |
| ▶ □ . mpy | | | | |
| p | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| | | | | |

Figure 3-17 Select the channels you want to bind

Step 5 Click **OK**.

3.1.4 Adding Recording Plan

Configure recording plans for video channels so that they can record videos accordingly.

You can configure 2 types of recording plans for a channel. One is general recording plan, and a device will continuously record videos during the defined period. The other is motion detection recording plan, and a device will only continuously record videos when motion is detected.

3.1.4.1 Adding Recording Plan One by One

Add a center recording plan or device recording plan for a channel, so that it can make general or motion detection videos within the defined period.

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 6.
- <u>Step 3</u> Select a channel, and then configure a recording plan.



- Configure a center recording plan.
- 1. Click Add Recording Plan next to Center Recording Plan.

Figure 3-18 Add a center recording plan (1)

| Config | Channel0 | | | | | | |
|------------------|---|-------------------------------------|-----------------------------|---------|---------|-----------|-----|
| | Device Name n5Mpy | Video Channel Type Bullet Camera | | | | | |
| ▼ 🖬 Current Site | | | | | | | |
| ▶ 点 lft | Event Info Event Config | | | | | | |
| ► 🛱 Imy | Associated Sche Event Type | Priority Time | e Template Holiday Template | Action | Remarks | Operation | |
| ► 🚊 znn | Proventient Strict | | remplate fromady remplate | | | operation | |
| ► ch. zy | | | | | | | |
| ▼ ṁ mpy | | | | | | | |
| ▶ 🗄 15-mpy | | | No data | | | | |
| E | | | | | | | |
| ▼ 💁 n5Mpy | | | | | | | |
| 📑 Channel0 | | | | | | | |
| -∰ n5Mpy_1 | Center Recording Plan Add Reco | rding Plan | | | | | |
| 251 | Before the storage plan is enabled, check the | | | | | | |
| > B. | excessive bandwidth. | | | | | | |
| ▶ 点 p | Recording Type | Recording Time | Stream Type | Remarks | | Operation | |
| ★ coz | | All Darlad Terralate | Main Stream | | | <u>-</u> | / = |
| ► 🚊 zmh | General Recording Plan | All-Period Template | main stream | | | | |
| ► 🕸 q-inte | | | | | | | |
| ▶ | | | | | | | |
| 🕨 🚊 lift Control | | | | | | | |
| | | | | | | | |

2. Configure the parameters, and then click **OK**.

Table 3-1 Parameter description

| Parameter | Description |
|----------------|--|
| Enable | Turn on or off the recording plan. |
| Position | Videos will be stored on the server by default. It cannot be changed. |
| Recording Type | General recording: The device will continuously record videos within the defined periods. Motion detection recording: The device will continuously record videos within the defined periods on motion detections. |
| Stream Type | Select Main Stream , Sub Stream 1 or Sub Stream 2 . Videos recorded on the main stream will have the best quality, but they require more storage. |
| Remarks | Customizable description for the recording plan. |
| Recording Time | Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template". |

3. Click **OK**.

• Configure a device recording plan.

The platform can obtain and display the recording plan that has been configured on EVS of the latest versions. You can check if recording plan are obtained and displayed on the page to know if your EVS is of the latest version.

1. Click Add Recording Plan next to Device Recording Plan.



Figure 3-19 Add a device recording plan (1)

| Config | Channel0 | | | | |
|------------------|--|---------------------|-------------|---------|--------------|
| | Device Name | | | | |
| | n5Mpy | Bullet Camera | | | |
| ▼ 🖬 Current Site | | | | | |
| ▶点面 | Center Recording Plan Add I | | | | |
| ▶ m lmy | Before the storage plan is enabled, check excessive bandwidth. | | | | |
| ▶ 📩 znn | | | | | |
| ▶ m. zy | Recording Type | Recording Time | Stream Type | Remarks | Operation |
| ▼ .m. mpy | General Recording Plan | All-Period Template | Main Stream | | C C Z |
| 🕨 🗄 15-mpy | | | | | |
| ► 🖳 🔲 1 | | | | | |
| 🔻 🧟 n5Mpy | | | | | |
| 📑 Channel0 | | | | | |
| - n5Mpy_1 | | | | | |
| 🕨 🛃 251 | Device Recording Plan Add F | | | | |
| • 5. | | | | | |
| ▶ 击 p | Recording Time | Stream Type | Remarks | | Operation |
| ▶ m. cxz | | | | | |
| ▶ 📩 zmh | | | No. | data | |
| 🕨 🕲 q-inte | | | | uata | |
| ▶ 📩 test100 | | | | | |
| ▶ 点 lift Control | | | | | |

2. Configure the parameters, and then click **OK**.

| Parameter | Description |
|----------------|---|
| Enable | Turn on or off the recording plan. |
| Position | Videos will be stored on the device by default. It cannot be changed. |
| Stream Type | The device will make recordings using the main stream by default. It cannot be changed. |
| Remarks | Customizable description for the recording plan. |
| Recording Time | Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template". |

Related Operations

• Enable/disable a recording plan

means that the plan has been enabled. Click the icon and it becomes , and it means that the plan has been disabled.

- Click : Copy the recording plan to other channels.
- Edit a recording plan

Click d of corresponding plan to edit the plan.

• Click **t** to delete recording plans one by one.

3.1.4.2 Adding Center Recording Plans in Batches

Add a center recording plan of general or motion detection videos for multiple channels at the same time.

3.1.4.2.1 General Recording Plan

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Storage Plan** > **Recording Plan**.



Figure 3-20 Center recording plan

| A moy 1 oz Stored on Server All-Period Template Main Stream 0 1 A p Channel 1 Current Site Stored on Server All-Period Template Main Stream 0 1 A cor IPC t Current Site Stored on Server All-Period Template Main Stream 0 0 1 A text100 IPC t Current Site Stored on Server All-Period Template Main Stream 0 0 1 A text100 IPC t Current Site Stored on Server All-Period Template Main Stream 0 0 0 1 A text100 IPC t Current Site Stored on Server All-Period Template Main Stream 0 | Ξ | Organization | Current Site | | | | | | | | |
|--|--|---|--|--|--------------------|-------------------------|---------------------|-------------|--------|----------|-----|
| A it it A it it A it it A it it A i | | | Before the storage plan is en and more, caused by excession | abled, check the network ive bandwidth. | bandwidth to avoid | losing data from platfo | orm recordings | | | | |
| A man Oannel Name Organization Storage Freedom Reconding Time Reconditim Reconding Time Reconditim </td <td></td> <td>μ. Ift</td> <td>+ Add General Recording Plan</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | μ. Ift | + Add General Recording Plan | | | | | | | | |
| A may 1 coc Stored on Server All-Period Template Main Stream 0 1 A p Channel 1 Current Site Stored on Server All-Period Template Main Stream 0 1 A cord IPC t Current Site Stored on Server All-Period Template Main Stream 0 2 1 A text100 IPC t Current Site Stored on Server All-Period Template Main Stream 0 2 1 A text100 IPC t Current Site Stored on Server All-Period Template Main Stream 0 2 1 A text100 IPC Total p Stored on Server All-Period Template Main Stream 0 2 1 A text100 IPC Total p Stored on Server All-Period Template Main Stream 0 2 1 A text10 IPC IPC P Stored on Server All-Period Template Main Stream 0 2 1 A text2 IPC IPC P Stored on Server | | | Channel Name | Device Name | Organization | Storage Position | Recording Time | Stream Type | Remark | Operatio | n |
| A p i | | | | | | Stored on Server | All-Period Template | Main Stream | | <u> </u> | / 💼 |
| A cor Inclained Current Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stream Image: Corrent Site Stored on Server All-Period Template Main Stored Site Stored on Server Alll | | | | | CXZ2 | Stored on Server | All-Period Template | Main Stream | | | / 💼 |
| A. test100 Current Site Stored on Server All-Period Template Main Stream Image: Control of C | | | Channel 1 | | | Stored on Server | All-Period Template | Main Stream | | | / |
| A. life Control Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site Image: Current Site Image: Current Site Stored on Serve All-Period Template Main Stream Image: Current Site Image: Current Site <td></td> <td rowspan="4">ch test100 슈 lift Control 슈 zox 슈 ARS</td> <td></td> <td></td> <td></td> <td>Stored on Server</td> <td>All-Period Template</td> <td>Main Stream</td> <td></td> <td><u> </u></td> <td>/ 💼</td> | | ch test100 슈 lift Control 슈 zox 슈 ARS | | | | Stored on Server | All-Period Template | Main Stream | | <u> </u> | / 💼 |
| ARS Channel0 mpy Stored on Server All-Period Template Main Stream > | | | | | | Stored on Server | All-Period Template | Main Stream | | | / |
| A k p Jorde on October Participantel Imanifisateuri A kurj A AR A face A tore | | | Channel0 | | | Stored on Server | All-Period Template | Main Stream | | | / |
| 点、xufj 点、AR 点 Insce 点 INS 点 IPC ONVIF 点 eby 点 eby 点 et 1 | | | | | | Stored on Server | All-Period Template | Main Stream | | <u> </u> | / 💼 |
| A tra | ☆ xuŋ ☆ AR ☆ BAS ☆ BVS ☆ BY ☆ By ☆ Dy ☆ ONUF ☆ Dy ☆ D | దీ xuñj దీ AR దీ కెండ దీ IPC ONVIF దీ dbj దీ py దీ at దీ chj | | | | | | | | | |

<u>Step 2</u> Select General Recording Plan > Add General Recording Plan.

<u>Step 3</u> Configure the parameters, and then click **OK**.

Table 3-3 Parameter description

| Parameter | Description |
|-------------------|--|
| Enable | Turn on or off the recording plan. |
| Position | Videos will be stored on the server by default. It cannot be changed. |
| Stream Type | Select Main Stream , Sub Stream 1 or Sub Stream 2 . Videos recorded on the main stream will have the best quality, but they require more storage. |
| Remarks | Customizable description for the recording plan. |
| Recording Time | Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template". |
| Recording Channel | Select the channels you want to add the recording plan for. |

3.1.4.2.2 Motion Detection Recording Plan

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Storage Plan** > **Recording Plan**.





| Ξ | Organization | Current Site | | | |
|---------------------------|---|---|---|---------------------------------|-------------------------------------|
| Recording Plan ~ | | Before the storage plan is enabled, check the network and more, caused by excessive bandwidth. | bandwidth to avoid losing data from platt | form recordings | |
| Motion Detection Recordin | ▼ 屇 Current Site 点 Ift 点 Imy | | | | Channel/Device Q |
| | 点 znn 点 zy | Channel Name Device Name | Organization Storage Position | All-Period Template Main Stream | Operation |
| | th mpy | behind 46.24 | Current Site Stored on Server | All-Period Template Main Stream | |
| | 슈 po 슈 zoni 슈 test100 슈 titl Control 슈 ARS 슈 Na 슈 Na | | | | |
| | | | | | ▲ 1 ▶ 20/Page ∨ |

Step 2Select Motion Detection Recording Plan > Add Motion Detection Recording Plan.Step 3Configure the parameters, and then click OK.

| Parameter | Description |
|-------------------|--|
| Enable | Turn on or off the recording plan. |
| Position | Videos will be stored on the server by default. It cannot be changed. |
| Recording Type | General recording: The device will continuously record videos within the defined periods. Motion detection recording: The device will continuously record videos within the defined periods on motion detections. |
| Stream Type | Select Main Stream , Sub Stream 1 or Sub Stream 2 . Videos recorded on the main stream will have the best quality, but they require more storage. |
| Remarks | Customizable description for the recording plan. |
| Recording Time | Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template". |
| Recording Channel | Select the channels you want to add the recording plan for. |

Related Operations

• Enable/disable a recording plan

means that the plan has been enabled. Click the icon and it becomes , and it means that the plan has been disabled.

• Edit a recording plan

Click 🗹 of corresponding plan to edit the plan.

• Edit a recording plan

Click d of corresponding plan to edit the plan.



- **Deter**: Select multiple channels, and then delete them at the same time.
- **Crable** and **Crable**: Select multiple channels, and then enable or disable them at the same time.

3.1.5 Adding Time Template

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🖪
- <u>Step 3</u> Select a channel, and then add a recording plan.
- <u>Step 4</u> In the **Recording Time** drop-down list, select **Create Time Template**.

Creating time template in other pages is the same. This chapter takes creating time template in **Record Plan** page as an example.

Time Template × Time Template Details Time Template Name * Time Template Name All-Period Template Weekday Template Ó Weekend Template Ó ٥ ø fww-6个时间段 ø ٥ & Satur 🗞 Sunday Ó + Create Time Template Cancel

Figure 3-22 Create time template

<u>Step 5</u> Configure name and periods. You can set up to 6 periods in one day.

Select the Copy From check box, and then you can select a template to copy from.

- On the time bar, click and drag to draw the periods. You can also click 🔄, and then draw the periods for multiple days.
- You can also click 🔯 to configure periods.
- Step 6 Click OK.

3.1.6 Configuring Video Retention Period

For videos stored on the platform, you can configure video retention period. When the storage space runs out, new recorded videos will cover the oldest videos automatically.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device** > **Device Config**.
- <u>Step 2</u> Select a camera, and then click **Modify**.



Figure 3-23 Go to recording storage configuration page

| Config | A 103.001 | | |
|--|--|-------------------------------------|-----------|
| | Device Name | Video Channel Type Bullet Camera | |
| ▼ 🖬 Current Site | | | |
| ▶ <u>市</u> Ift | Central Recording Storage Config Mod | | |
| ▶ m lmy | The video retention period configuration only applie video will be automatically overwritten. | | |
| ▼ ∴ znn | | | |
| ▼ ■ 104.04.0 | Recording Type | Retention Period (Days) | Operation |
| * (100-000) | General Video | 30 | |
| ਜ | | | |
| | Alarm Video | | |
| Image: A state of the state | | | |

<u>Step 3</u> Enable one or more video types, set the retention period for each one, and then click **OK**.

For the free version of Express, the retention period cannot be more than 7 days. If you need more than 7 days, you need to purchase an official version.

<u>Step 4</u> (Optional) Configure retention period for multiple channels.

- 1. Click OK and Copy.
- 2. Select which channels to apply the configuration.

 \square

Only administrators can select All Channels.

3. Click **OK**.

3.1.7 Configuring Events

You need to set up the event configuration on a device or its channels to receive alarms on the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device** > **Device Config**.
- <u>Step 2</u> Select a channel or a device, and then click **Event Config**.

Events that can be configured are different for different types of devices. If you select **Device**, you can only configure general events. If you select **Channels**, various events supported by different types of channels will be displayed.

Figure 3-24 Go to the event configuration

| Config | | 1000 | | | | | | |
|---|----------------------|----------------|-------------------------------------|---------------------|------------------|-------------------------|---------|-----------|
| SearchQ | | | Video Channel Type Bullet Camera | | | | | |
| ✓ III Current Site ▶ ∴ Ift | Event Info Event Cor | ıfig | | | | | | |
| ▶ ∴ Imy ▼ ∴ znn | Associated Sche | Event Type | Priority | Time Template | Holiday Template | Action | Remarks | Operation |
| | | Soft Trigger_1 | | All-Period Template | | Link User Link Video | | • • • |
| ਤਾ ਹੈ। ਜੁ | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Step 3 Configure events. For details, see "4.1 Configuring Events".



3.1.8 Synchronizing People Counting Rules

If you create, edit or delete people counting rules on a device, you have to manually synchronize them to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- Step 2 Click 6.
- <u>Step 3</u> Select a channel, and then click **Sync People Counting Rules**.

Figure 3-25 Synchronize people counting rules from the device

| Config | | | | | | Sync People Counting Rules |
|---|------------------------------|-------------------------------------|-------------------------|---------|---------|----------------------------|
| | Device Name | Video Channel Type Bullet Camera | | | | |
| ▶ ■ 99999 ▶ □ 3 | Event Info Event Config | | | | | |
| ▶ S www.test1 ▶ I 14 | Associated Scheme Event Typ | e Priority Time Te | mplate Holiday Template | Action | Remarks | Operation |
| | | | | | | |
| GWQSHUANG GWQSHUANG | | | No dat | | | |
| ► B | | | | | | |
| 🖙 12 🖳 99.16 | | | | | | |
| ► R MMM | | | | | | |
| | excessive bandwidth. | Recording Time | Stream Type | Remarks | | Operation |
| | Hereitang Tipe | recording time | | Tentano | | |
| <u>e</u> . | | | No dat | | | |
| ▼ @ =================================== | | | | | | |
| Ð | | | | | | |
| -ਜ | Device Recording Plan Add Re | | | | | |

<u>Step 4</u> Click **Sync Rules**, and then the system prompts **Synchronization complete**.

Figure 3-26 Synchronize people counting rules from the device

| ÷ | Sync People Counting Rules | |
|---|----------------------------|-------------------------------|
| | | |
| | 🗘 Sync Rules | |
| | Rule Name | Rule Type |
| | StereoNumberStat | Tripwire People Counting Rule |
| | | |
| | | |
| | | |
| | | |
| | | |

3.2 Adding Role and User

Users of different roles have different menus and permissions of device access and operation. When creating a user, assign a role to it to give the corresponding permissions.



3.2.1 Adding User Role

A role is a set of permission. Classify users of the platform into different roles so that they can have different permissions for operating the devices, functions and other system resources.

- Super administrator: A default role that has the highest priority and all the permissions. This role cannot be modified. A super administrator can create common administrator and common operator roles. The system supports 3 super administrators at most.
- Administrator: A default role that cannot be modified and has no permissions of storage, license, backup and restoring. An administrator can create common administrator and common operator roles. The number of administrators that can be created is not limited.
- Common administrator: This role has no permissions of user, storage, license, and backup and restoring.

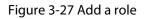
The device and control permissions of this role cannot be edited, but its menu permissions can be edited.

• Common operator: This role has no permissions of basic configuration, storage, license, system parameters, and backup and restoring.

The device, control and menu permissions of this role can be edited.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **User**.
- Step 2 Click
- <u>Step 3</u> Click **Add**, set role information, and then select device and control permissions and assign the rule to users.





| ← Add Role | | |
|--------------------------|--------------------------------|---------------------------|
| ← Add Role | | |
| | | |
| Basic Info | | |
| | | |
| * Role Name | | |
| | | |
| Role Type | | |
| Operator | | |
| Remarks | | |
| | | |
| | | |
| | | |
| | | |
| Permissions | | |
| | | |
| Copy from Specified Role | | |
| | | |
| Device Permissions | Control Permissions | Menu Permissions |
| | | |
| Search Q | Search Q | Search Q |
| 🗹 🖬 Current Site 📑 | 🔻 🗹 All | 🔻 🗹 All |
| | 🗹 Video Playback | Application Configuration |
| | Record Lock | 🕨 🗹 Application |
| | Record Tag | 🕨 🗹 Management |
| | PTZ Operation and Configuesity | |
| | PTZ Operation | |
| | 🗹 Audio Talk | |
| | Video Sound | |
| | | |
| OK Cancel | | |

- If a device is not selected under **Device Permissions** or a menu not selected under Menu Permissions, all users assigned with this role will not be able to see the device or menu.
- Click a selected organization. All permissions of subsequently added devices under this organization will also be assigned to users of this role.
- When the **Role Type** is set to **Operator**, you can copy the permissions from specified role.

Step 4 Click **OK**.

3.2.2 Adding User

Create a user account for logging in to the platform.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **User**.
- <u>Step 2</u> Select **User Management**, click **Add**, and then configure the user parameters.



Table 3-5 Parameter description

| Parameter | Description | |
|---|---|--|
| Username | Used to log in to the client. | |
| Multi-client Login | Allow the user to log in to multiple clients at the same time. | |
| Password | Used to log in to the client. | |
| Confirm Password | | |
| Enable Forced Password Change at First Login | The user is required to change the password at first-time login. | |
| Enable Password Change Interval | Force the user to change the password regularly. | |
| Enable Password Expiry Time | logged in the user will be forced to log out. The user must reset the | |
| PTZ ControlThe PTZ control priority of the user. The larger the value, the hig priority. For example, User A has a priority of 2 and User B has a When they operate on the same PTZ camera, which is locked, a time, the PTZ camera will only respond to the operations from I | | |
| Email Address | Used to receive emails in various situations, such as password reset, alarm messages, and visitor registration. | |
| Bind MAC Address | Limit the user to log in from specific computers. One user can be bound to 5 MAC addresses at most. | |
| Role | Select one or more roles to assign the user permissions, such as which devices are allowed to be operated. | |

Step 3 Click **OK**.

Related Operations

- Click 🗋 to lock user. The locked user cannot log in to the DSS Client and App.
- Click Z to modify information of a user except the username. Users with a higher level of permissions can change the passwords of users with a lower level of permissions. Super administrators can change the passwords of administrators and common roles. Administrators can change the passwords of common roles.
- Click to delete a user.

3.2.3 Adding User Group

Add users to a specified user group for easier management of users.

Prerequisites

You need to add users first.

| <u>Step 1</u> | Log in to the DSS Client. On the Home page, click 🔍, and then in the Basic Config section, select User . |
|---------------|---|
| . | |

- <u>Step 2</u> Select **User Management**, and then in the **User Group** section, click **1**.
- <u>Step 3</u> Define the group name, set the remark, and then click **OK**.

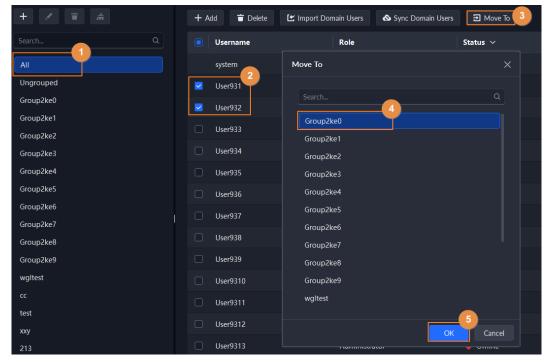


<u>Step 4</u> Select users, and then click **Move To** to move the users to the added user group.

 \square

One user can be only added to one user group.

Figure 3-28 Move users to a user group



Step 5 Click OK.

Click the user group, and you will see the users of the group.

Related Operations

In the User Group section, you can:

- Click do edit user group name and remarks.
- Click 🗊 to delete the user group. After this operation, the users in the group will become ungrouped.
- Click 📠 to clear the user group. After this operation, the users in the group will become ungrouped.

3.2.4 Importing Domain User

When the users in a domain can be used as users on the platform, you can use this function to import quickly them to the platform.

Procedure

<u>Step 1</u> Configure the domain information.

- 1. Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter** > **Active Directory**.
- 2. Click **Least** to enable the function, and then configure the parameters of the domain.
- 3. Click **Get DN** to automatically get the basic DN information.
- 4. Click Test to check whether the domain information is correct.



5. (Optional) Enable the automatic synchronization function and set a time. Then, the platform will automatically synchronize news users in domain groups that you have imported previously, and update the information of the users imported by manual selection at the defined time every day.

For example, you have imported the entire domain group A. The platform will

synchronize new users in domain group A every day at the defined time. Click 🗔 to remove a group on the list, and then it will not be synchronized. For users imported by manual selection, the platform will check their information, and update if anything changes.

- 6. Click Save.
- <u>Step 2</u> Import domain users.
 - 1. Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **User** > **User Management**.
 - 2. Click Import Domain Users.
 - 3. Select how you want to import users, and then click Next Step.
 - Import by Domain Group : Import all users in the selected group.

If you import an entire domain group and after the automatic synchronization function is enabled, the platform will remember that group and automatically synchronize its new users at the defined time every day, and update the information of the users imported by manual selection at the defined time every day. For details, see the previous steps.

- Import by Domain User : Import selected users in a group.
- 4. Click + to select a role for the users.

All the permissions in the role will be assigned to the users.

5. Click **OK**.

3.2.5 Syncing Domain User

Use this function to delete invalid domain users from the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **User** > **User Management**.
- Step 2 Click Sync Domain Users.

The platform prompts that this operation will delete invalid domain users.

Step 3 Click **OK**.

3.2.6 Password Maintenance

Users can change passwords manually or reset it on the login page. Also, Users with a higher level of permissions can change the passwords of users with a lower level of permissions. Super administrators can change the passwords of administrators and common roles. Administrators can change the passwords of common roles.



3.2.6.1 Changing Password for the Current User

We recommend changing your password regularly for account safety.

Procedure

<u>Step 1</u> Log in to the DSS Client, click at the upper-right corner, and then select **Change Password**.

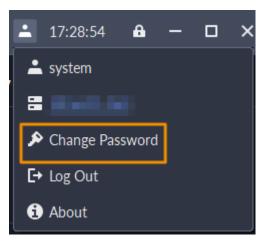
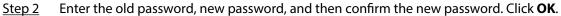


Figure 3-29 Change password



3.2.6.2 Changing Password for Other Users

Users with a higher level of permissions can change the passwords of users with a lower level of permissions without knowing their passwords. Super administrators can change the passwords of administrators and common roles. Administrators can change the passwords of common roles.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **User**.
- Step 2 Click 🚨
- Step 3 Select a user, and then click .
- <u>Step 4</u> Enable **Change Password**, enter the new password and confirm password, and then click **OK**.

Figure 3-30 Change passwords for other users

| ▼ Basic Info | | |
|--------------------|--------------------|---|
| * Username cxz1 | Multi-client Login | |
| Change Password | * Confirm Password | |
| •••••••••• | ••••• | 8 |



3.2.6.3 Resetting User Password

Users can reset passwords through email addresses and security questions. Only the system user can reset the password through security questions.

Procedure

- <u>Step 1</u> On the login page, click **Forgot password?**.
- <u>Step 2</u> Enter the account that you want to reset the password for, and then click **Next Step**.
- <u>Step 3</u> Select how you want to reset the password.
 - By security questions. This is only applicable to the system user.
 - 1. Click Reset Password through Security Questions.
 - 2. Answer the questions, and then click **Next Step**.
 - By reset file. This is only applicable to the system user.
 - 1. Log in to the management tool.
 - 2. Click 💁, and then select **Reset System Password**.
 - 3. Click **Export**, set the encryption password, and then export the request file.
 - 4. Contact the technical support to get the password reset file through the request file.
 - 5. Click **Reset** to import the reset file, and then log in the DSS client to initialize the password.
 - By email address. This is applicable to all accounts, but an email address must be configured first. For details, see "3.2.2 Adding User".
 - 1. Click Reset Password through Email Verification.
 - 2. Click Send Verification Code.
 - 3. Enter the verification code that you received from the email address, and then click **Next Step**.
- <u>Step 4</u> Set a new password and confirm it, and then click **Next Step**.

The password has been reset.

3.2.6.4 Resetting Security Questions for the System User

The system user can reset the security questions that can be used to reset passwords.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **User** > **User Management**.
- <u>Step 2</u> Click **Z** to edit the information of the system user.
- <u>Step 3</u> Click **Reset** to reset the security questions after verifying the login password.

3.3 Configuring Storage

Manage the storage of the platform, including setting storage types to store different types of files, and setting the storage location and retention period of the images and recorded videos from devices.



3.3.1 Configuring Server Disk

Configure local disk to store different types of files, including videos, images, and normal files. In addition to the local disks, you can also connect an external disk to the platform server, but you have to format the external disk before using it.

 \wedge

Do not use a USB drive as a server disk. It usually does not have the performance and stability required by the platform, which might result in data lost.

 \square

- To set up local storage, you need a physical disk with only one volume or any volume of one physical disk. Back up the data of the disk or volume before setting its disk type, which will format and erase all data from it.
- One physical disk with only one volume or any volume of one physical disk can only store one type of files. If you need to store more than one type of files, you need more than one physical disks or volumes, but it cannot be the one where you installed the operating system of the server or the management tool.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Storage**.
- Step 2 Select **Q**.
- <u>Step 3</u> Format a disk to set a storage type.
 - 1. Select user volume, and then click **2**.
 - 2. Select storage type, and then click **OK**.
 - Video : Stores videos.
 - Images and Files : Stores all types of images and temporary files.

If you do not set up one or more disk types, you will not be able to properly use corresponding functions. For example, if you do not set up an **Image and File** disk, you will not see images in all alarms.

| erver Disk Videos, imag to external s | ges and files are only stored jources. | on the local disk of the server. The pla | tform cannot transmit them $~	imes$ | | | | Server All | | |
|---|---|--|---------------------------------------|--------------|---------------|------------------|------------|-------|--|
| - 0 | Server Name | Videos 99.97GB/1 | | | | Images and Files | | | |
| | Disk Name | Capacity | | Storage Type | Health Status | Disk Status | Opera | ition | |
| | | | | | 🤣 Good | Formatted | Ø | | |
| | | | | | | | 0 | | |
| | | | Initialize Disk Disk Type Video | × × | | | | | |

<u>Step 4</u> Manage local disks.

- To configure disk type: Click •.
- To format a disk: Select a disk or user volume, click



3.3.2 Configuring Device Storage

When there are a large number of devices on the platform, it will put too much pressure on the local disks because they might produce a lot of face, video metadata, and event images, and videos that need to be stored. The platform supports setting the storage location and retention period of the images and videos for storage devices, such as an IVSS, to reduce the pressure on the server.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Storage** > **Device Storage Config**.

Only organizations with storage devices are displayed, such as NVR and IVSS.

- <u>Step 2</u> Select an organization, click ^Q of a device on the right.
- <u>Step 3</u> Configure the parameters, and then click **OK**.

Table 3-6 Parameter description

| Parameter | Description |
|--|--|
| Event Image Storage Location | Save to Central Storage : All images produced by the channels connected to this device will be stored on the local disks of the platform. Link to Images on Device : All images produced by the channels connected to this device will be stored on the device itself. The platform will obtain images from the device. |
| Event Video Storage Location | Save to Central Storage : All alarm videos produced by the channels connected to this device will be stored on the local disks of the platform. Link to Videos on Device : All alarm videos produced by the channels connected to this device will be stored on the device itself. The platform will obtain videos from the device. To make sure that alarms videos are complete, we recommend you set a 24-hour recording plan for the device. Otherwise, the platform might not be able to obtain videos. For example, a recording plan of 00:00–14:00 has been configured on the device so that the channels connected to it will record videos during that period. If an alarm is triggered on 14:01, the platform will not be able to obtain videos for this alarm. |
| Retention Time of Images and Videos on Device | This function is applicable to the images and videos stored on the device. After enabled, the platform will obtain the value from the device, and you can change it to 1–255. The images and videos that have been stored longer than this value will be automatically deleted. |



4 Businesses Configuration

This chapter introduces the basic businesses, such as storage plan, video monitoring, access control, video intercom, target detection, face recognition, parking lot, and intelligent analysis.

4.1 Configuring Events

To receive alarms triggered by devices, you need to configure them on the platform.

4.1.1 Configuring Event Linkage

Configure the event source, and the linked actions. When the event is triggered, the platform will perform the actions you defined, such as taking a snapshot recording a video.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Event** > **Event Config**.
- Step 2 Click Add.

<u>Step 3</u> Select the event source type, events, and event sources.

Table 4-1 Parameter description

| Parameter | Description |
|---|--|
| Device, video channel, alarm input channel, zones, access control channel, parking lot, and people counting group, | Select an event source type. |
| | Before configuring the event, check whether the channel features match the event type; otherwise the event type cannot be selected as the alarm source. To configure channel features, see "3.1.2.5.2 Modifying Device Information". If Alarm Input Channel is selected, check whether the Triggered Event that you select matches the channel feature of the alarm input channel you select. Otherwise, the event will not be triggered. |
| Soft Trigger | This is a type of event that is manually triggered. Click Add Soft Trigger Event Type to customize its name and icon. When viewing the live video image of the configured channel in the Monitoring Center , you can click the icon to trigger an alarm manually. |
| Combined Event | When a combined event is triggered, the platform performs the defined linked actions. For how to configure combined events, see "4.1.2 Configuring Combined Event". |



| Parameter | Description |
|---------------|---|
| Custom Alarm | DHOP event: Access events developed through Dahua Hardware Open Platform (DHOP). Extended standard event: This is used for events that devices support, but the platform currently does not. Click Add Extended Event, and then configure the parameters. |
| | Event Protocol : Select the protocol of the event. Alarm Source : Select an event source type based of the event protocol. Event Image : When configuring an event for a video channel, you can choose whether to subscribe to images from the event. When subscribing to pictures, the platform will receive alarm images generated by the alarm source. However, if the alarm source does not generate alarm images, subscribing to the event images will cause the platform to not receive the alarm. Name , Alarm Code, CID Code and DCS Code: Enter the name and code of the event. |
| Generic Event | Receives simple strings sent to the system by third-party hardware or software through the network, and then generates alarms or triggers corresponding linkage actions in the system. When configuring event source, select Generic Event from Event Source Type and Event , and select added generic events from Event Source . For details of add a generic event, see "4.1.4 Configuring Generic Event". |

<u>Step 4</u> Configure the priority, when the event can be triggered, and other information.

| Parameter | Description |
|------------------|---|
| Scheme Name | Enter a name for the scheme. |
| Priority | The priority level is used to quickly know the urgency of the event when it is triggered. |
| Time Template | Select a time template for when the event can be triggered. If you want to create a new template, see "3.1.5 Adding Time Template". |
| Holiday Template | If the time template and holiday template overlap, only the holiday template will be effective. During the defined periods, events will be received by the platform normally. Outside of the defined periods, events will not be received by the platform. To create a new template, follow the steps below. |
| | In the drop-down box, click Create Custom Holiday Template. Enter a name for the template. Click Add, and then add a period and adjust the time. |
| | You can add up to 6 periods. 4. (Optional) If there are other holiday templates, you can select Copy From, and then select a template to copy its periods. 5. Click OK. |

Table 4-2 Parameter description



| Parameter | Description |
|-----------------------|---|
| Alarm Storm Config | After enabled, if certain alarms are frequently triggered, you can configure an interval during which they can only be triggered once. For example, a tripwire alarm can only be triggered once in 10 seconds. |
| | This function is only available to event sources selected in the previous step. The configurations here enjoy higher priority if alarm storm for the same event is configured from Event > Alarm Config > Alarm Storm Config . |
| Remarks | Enter remarks on events. |

<u>Step 5</u> Configure alarm linkage actions.

• To link video, enable Linked Action > Link Video, and then configure the parameters.

Table 4-3 Parameter description

| Parameter | Description |
|--|--|
| Camera | Event source: The camera of the alarm itself is linked when the alarm occurs. Bound camera: If the channel is bound to one or more video channels, you can view the real-time videos of the bound channel when an alarm is triggered. To bind a channel, see "3.1.3 Binding Resources". Select camera: Select a camera so that you can view the camera video when the associated alarm is triggered. |
| When an alarm is triggered, display | Enable this parameter, and then the platform will open the real-time video of the channel where an alarm is triggered, and play it in the defined stream type. |
| camera live view on client | After the event is configured, select Local Settings > Alarm , enable Open Alarm Linkage Video and set how the video will be opened, As Pop-up or Open in Live View . For details, see "8.3.4 Configuring Alarm Settings". |
| Event Recording | The platform will record videos when an alarm is triggered. It will be saved to the video disk of the platform. |
| Stream Type | Define the stream type of the recorded video. If you select main stream, the recorded video will be in higher quality than sub stream, but it requires more storage. |
| Recording Time | The duration of the recorded video. |



| Parameter | Description |
|--|---|
| Parameter | Description |
| | When there is recorded video that is stored on the device or platform before the alarm is triggered, the platform will take the defined duration of that video, and then add it to the alarm video. For example, when the prerecording time is set to 10 s, then the platform will add 10 s of video before the alarm is triggered to the alarm video. |
| Prerecording Time | For how to configure the pre-recording mode for devices in batches, see "4.1.3.3 Configuring Alarm Video Pre-recording". |
| · • • • • • • • • • • • • • • • • • • • | |
| | If the alarm video is stored on the device, we recommend you configure a 24-hour recording plan to make sure that there is prerecorded content to add to the alarm video. If the alarm video is stored on the platform, the platform will record videos and use certain input bandwidth continuously. This parameter is not applicable to alarms in parking lots. |
| To trigger a | a snapshot, enable Trigger Snapshot . The platform takes 1 snapshot, and |
| | to the Image and File disk. |
| linked. Click Alarm channel wil To link audi channels, au Click Link A action. Whe unlocked, n Display the | Z action, click Link PTZ , and then select the PTZ channels and presets to b Output , select an alarm output channel, and then set the duration. The Il send out alarm signal when an alarm is triggered. io and light, click Link Audio and Light , select the audio and light nd then select the action duration. Access Control Device , select door channels, and then select a linked en an alarm is triggered, the door channels you selected will be locked, hormally open or normally closed. Ive video of specified channels on a video wall when alarms are triggered /ideo Wall , and then select the channels and video wall. |
| | dd a video wall and configure its alarm on video wall mode first. For details Configuring Video Wall" and "4.1.3.2 Configuring Alarm on Video Wall". |
| displayed o with the ov can select w To execute then click N adding a ne | amera to Select Camera, you can configure which channels to be on the specified video wall. When the video wall you select is configured rerride mode, you can also select Customize Alarm Window, and then you which channels to be displayed on the specified windows of the video wall. an HTTP URL command, enable Link HTTP URL Command . Click Add, and New to add a new command, or Copy from Quick Command. When ew command, you need to set the name of the command, the request TTP URL, and remarks. You can click Image to test if the command is valid. |
| will be sent | nils, enable Email , and click 🛨 to add the email address, and then an email to the selected email address when an alarm is triggered. You can also nter an email address, but you must press Enter to make it valid. |
| | |



• To link client sound, enable **Client Sound**, and then enter the audio content (up to 50 characters). 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**.

 \square

Click 🔍, and then you can test playing the defined audio content.

<u>Step 6</u> Apply an alarm protocol to help users process alarms when they are triggered.

Click **Alarm Protocol**, and then select a protocol from the **Protocol Template** dropdown list, or you can click **Add protocol template** to create a new protocol.

<u>Step 7</u> Select users or user groups who will receive the notification when an alarm is triggered.

The users will only receive notifications when they are logged in. If you need to add more users, see "3.2 Adding Role and User"; to add more user groups, see "3.2.3 Adding User Group".

<u>0-47</u>

If the page becomes too long because you need to configure many parameters, you can use the pane on the right to quickly go to different positions.

Step 8 Click OK.

4.1.2 Configuring Combined Event

Configure the relation between the time of trigger of 2 events, and then you can configure what actions to performed when the event is triggered.

Procedure

| <u>Step 1</u> | Log in to the DSS Client. On the Home page, click 🔍, and then in the App Config section, select Event > Combined Event Rule Config . |
|---------------|---|
| <u>Step 2</u> | Click Add to add a rule for combined events. |
| <u>Step 3</u> | Enter a name for the rule, and then configure the details. |
| | For example, select Event B occurs and configure the X and Y to be 10 and 50 seconds respectively. If event B occurs during the 10 seconds to 50 seconds after event A occurs, a combined event is triggered, and then the platform will perform defined linked actions. |
| <u>Step 4</u> | Click OK . |
| <u>Step 5</u> | The previous page displays. Click Add , and then configure the parameters of the combined event. |
| | |

Table 4-4 Parameter description

| Parameter | Description |
|--------------------------|--|
| Name | Enter a name for the combined event. |
| Rule | Select a rule. |
| Source of Combined Event | Select the event and event source for event A and B. |

Step 6 Click **OK**.

Related Operations

Configure the linked actions for the combined event. For details, see the previous section.



4.1.3 Configuring Alarm Parameter

4.1.3.1 Filtering Repetitive Alarm

If certain alarms are frequently triggered, you can configure an interval during which they can only be triggered once. For example, a tripwire alarm can only be triggered once in 10 seconds.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Event** > **Alarm Config** > **Alarm Storm Config**.
- Step 2 Click Add.
- <u>Step 3</u> Select event sources and events, and then configure the interval.
- Step 4 Click **OK**.

4.1.3.2 Configuring Alarm on Video Wall

When an alarm is triggered, the live video of a channel can be linked to a window on a video wall. The platform supports override and loop modes.

Prerequisites

You must add a video wall first. For details, see "5.1.5.1 Configuring Video Wall".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Event** > **Alarm Config** > **Alarm on Video Wall**.
- Step 2 Click •

<u>Step 3</u> Select a mode, and configure related parameters.

Table 4-5 Parameter description

| Parameter | Description |
|-----------------------------|---|
| Alarm on Video Wall Mode | Override mode: When an alarm occurs, a live video is opened on the specified window of a video wall. For example, if the live video of channel 1 is opened on window 1, another alarm is triggered. The platform will display the live video of channel 2 on window 1. Loop mode: Linked live videos will be displayed on windows of a video wall according to the order of windows. If there are no available windows, the first window will be used. The number at the end of the name of a window indicates its order. For example, window (2) indicates it is the second window. |



| Parameter | Description |
|---|--|
| Stay Duration | In either mode, if no other alarms are triggered, the current video will be closed after the stay duration. If a new alarm is triggered: |
| | In override mode, the stay duration of the new video start from the time when the alarm is triggered. It will be displayed on the window after the stay duration of the current one ends. For example, the stay duration is set to 30 s. An alarm is triggered when video 1 is being played for 15s. At 30 s, video 1 will be closed, and video 2 will be played. After 15 s, video 2 will be closed. In loop mode, a new video will be displayed immediately even if the |
| | stay duration of the current video does not end. |
| The latest alarm video will immediately override the one that is currently playing on the video wall. | This parameter is only available for override mode. After enabled, the stay duration will not work, and new videos will be displayed immediately. |

<u>Step 4</u> Configure the size, location, and other parameters of a window.

Table 4-6 Parameter description

| Parameter | Description | |
|---------------------------------------|---|--|
| Set the number of windows | There is only 1 window by default. Click it, and then you can set the number of windows to 4, 9, 16, 32, or 64. | |
| Resize a window | Click a window, and then drag its frame near the lower-right corner to resize it. Improve the left margin, width, and height to resize the window. | |
| Adjust the locations of windows | Drag the windows to adjust their locations. This operation will not change the order of the windows. The order is used to determine which window will be used to display videos first in loop mode. The number at the end of the name of a window indicates its order. For example, a window named Window (2) means that it is the second window. | |
| Change the names of windows | Right-click a window, and then select Rename to rename a window. Right-click a window, select Properties, and then rename it in Window Name. | |



Step 5 Click OK.

4.1.3.3 Configuring Alarm Video Pre-recording

You can configure the pre-recording mode for a device. When an alarm is configured to link prerecording from a device, the device will apply the mode you have specified.

Background Information

Pre-recording modes include Platform Cache and Get from Device.

- Platform cache: Alarm videos will be stored on the platform, the platform will record videos and occupy certain input bandwidth continuously.
- Get from device: Alarm videos will be stored on the device. We recommend you configure a 24-hour recording plan to make sure that there is prerecorded content for the time of alarms.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Event** > **Alarm Config** > **Alarm Video Pre-recording**.
- <u>Step 2</u> Click an organization, and then all devices and channels in that organization will be displayed on the right.
- <u>Step 3</u> Configure the pre-recording mode.
 - Click d of a channel, select a mode, and then click **OK**.
 - Select multiple channels, click **Edit** , select a mode, and then click **OK**.

4.1.4 Configuring Generic Event

Defines a generic event where a third-party hardware or software can send simple strings to the system through an IP network, so that alarms or corresponding linkage actions can be triggered in the system.

Prerequisites

To ensure system security, go to 2 > System Parameters > Security Config, add the IP address to the allowlist in the Generic Event Allowlist section.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Event** > **Generic Event Config**.
- <u>Step 2</u> Click **Add**, and then you can start adding the generic event.



Figure 4-1 Add generic event

| Basic Info |
|---|
| • Event Name |
| Generic Event 1 |
| Copy from Other Events |
| Select Event |
| Event Definition |
| |
| Rule Type |
| Transmission Type |
| TCP ~ |
| Match Mode |
| Search |
| The data you receive must contain the content specified in the expression. There might be other required content as well. |
| O Match |
| The data you receive can only contain the content specified in the expression. |
| Rule Content |
| AND OR () |
| AND OK () |
| Rule Expression |
| User001 OR Door053 OR Sunday |
| |
| |
| |
| OK Cancel |

Table 4-7 Parameter description of generic event

| Parameter | Description |
|----------------------|--|
| Event Name | The name that identifies the event. |
| Select Event | Click Select Event , select from the existing generic event, and then the system automatically fills in parameters of the selected event (event name excluded). |
| Transmission Type | TCP, UDP, HTTP, and HTTPS are available. |
| Match Mode | Select Search or Match according to onscreen instructions. |



| Parameter | Description |
|-----------------|--|
| Rule Content | Select AND , OR , (,) rules, and then set the rule expression. The system operates the expression from left to right. |
| Rule Expression | Select AND, OR, and () operations and set the expression. The system operates on expressions from left to right; |
| | AND and OR must be preceded and followed by characters; (and) must appear in pairs. |

Step 3 Click OK.

4.2 Configuring Map

4.2.1 Preparations

- Devices are deployed. For details, see device user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations".
- A map picture is prepared.
- To show device alarms on the map, make sure that **Map flashes when alarm occurs** is enabled in **Home** > **Management** > **Local Settings** > **Alarm**.

4.2.2 Adding Map

A raster map is suitable for places where you want to view their detailed information, such as a parking lot. You can add multiple ones.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Map**.
- <u>Step 2</u> Select **Main Map** , and then click **Add Map**.
- <u>Step 3</u> Enter the map name, select the picture and then click **OK**.



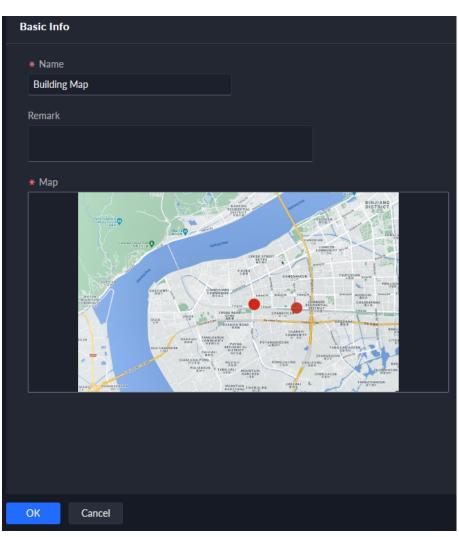
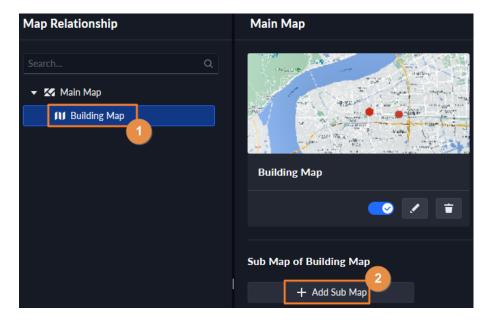


Figure 4-2 Add main map

Step 4 Add a sub map.

1. Click the added raster map, and then click **Add Sub Map**.

Figure 4-3 Add sub map





- 2. Enter the map name, upload the map image, and then click **Next Step**.
- 3. Drag the image to the desired position and click **OK**.

Related Operations

Click the added map, and then you can:

- Hide device name, and then only the icons of devices will be displayed.
- Delete resources

To delete a device from the map, click it and then click **Delete Resource**.

• Show device

Select which type of resources you want to display on the map.

Move

To move a device, click **Move** and then drag the device on the map.

Select

To select one or more devices, click **Selected** > **Checked**, and then click the devices on the map one by one.

• Pane

To select devices in batches, you can click **Selected** > **Rectangle**, and then draw a rectangle on the map to select the devices.

• Clear

To clear all markings on the map, click **Clear**.

Add Sub-map

To add a sub map on the current map, click **Add Sub-map**, click on the map to locate it, enter a name, upload a map picture and then click **OK**.

Map scale

Select **Map Scale** > **Configured the map scale**, draw a line one the map, and then enter its actual distance.

- Add Mark
 - Select **Box** > **Add Mark**, and then mark information on the map.
- Reset

Select **Box** > **Reset** to restore the map to its initial position and zoom level.

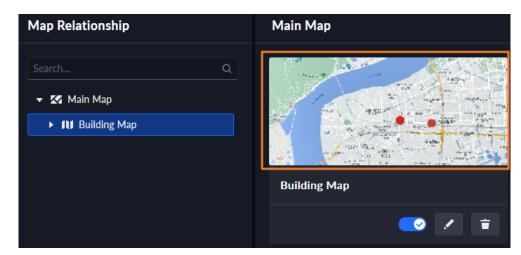
4.2.3 Marking Devices

Link a device to the map by dragging it to the corresponding location on the map according to its geographical location.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Map**.
- <u>Step 2</u> Click the map.



Figure 4-4 Map



<u>Step 3</u> Drag the device channel from the left device tree to the corresponding location of the map.

4.3 Personnel and Vehicle Management

Configure personnel and vehicle information for the applications of access control, vehicle control, and video intercom.

- Personnel information contains card number, password, face picture, and more. People bound with vehicle information will be displayed in the vehicle list.
- Vehicle information helps to confirm the entry of the vehicle into a certain area. Vehicle bound with personnel information will be displayed in the personnel list.

4.3.1 Adding Person and Vehicle Groups

Add person and vehicle groups to easily manage people and vehicles. People and vehicles use the same groups. Only administrators can add, edit, and delete person and vehicle groups.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **S**, and then in the **App Config** section, select **Person and Vehicle Info**.
- Step 2 Click **Person List** or **Vehicle List**.
- <u>Step 3</u> Click +, and then configure the parameters.

Table 4-8 Parameter description

| Parameter | Description |
|---------------|---|
| Parent Group | This is for permission control. For example, if a user cannot access Group A, then the user cannot access all the groups under Group A. |
| Group Name | Enter a name for the group. |
| Roles Allowed | Only the roles and their users can view this group. |
| Access | Click 💁 to see the users assigned with the roles. |





<u>Step 4</u> Complete configuration.

- Click **Add** to add the group and exit the page.
- Click **Save and Add Person** to add people to the group. For details, see "4.3.2 Configuring Personnel Information".

4.3.2 Configuring Personnel Information

Add people to the platform and grant them access to different access control devices, entrance and exits permissions, and more.

 \square

To collect fingerprints or card number, connect a fingerprint collector or card reader to the computer where the PC client is installed.

4.3.2.1 Extending Person Information

You can customize more information you want to configure for persons. If existing information is not enough, you can add more information for a person. This function is available to administrators. Others users can only configure information for attributes that have been added. You can add up to 10 attributes.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info**.
- <u>Step 2</u> Select **Person List** > **More** > **Enable More Info**.
- <u>Step 3</u> Click **Add** , enter a name for the attribute, and then click **OK**.

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



| Figure 4-5 | More | information |
|------------|------|-------------|
|------------|------|-------------|

| Person Info | |
|--------------------------|------------|
| Basic Info | |
| ¥ ID 28162378 | |
| Linked ID 👔 | |
| * Name | |
| 111222333 | Add |
| Gender | |
| Unspecified ~ | |
| Person Group | Email |
| All Persons and Vehicles | |
| Phone No. | Address |
| ID Type | ID No. |
| Others ~ | |
| Company | Department |
| | |
| Position | customer1 |
| | |
| customer2 | |
| | |
| | |

If you change the name of the attribute or click to disable it, the information you have configured will still be on the platform. But if you click to delete the attribute, the information you have configured will also be deleted and cannot be recovered.

4.3.2.2 Adding a Person

Procedure

| <u>Step 1</u> | Log in to the DSS Client. On the Home page, click N , and then in the App Config section, select Person and Vehicle Info . |
|---------------|--|
| <u>Step 2</u> | Select Person List > Persons > Add . |
| <u>Step 3</u> | Click Person Info , and then configure the information of the person. |

• Configure the basic information.



 Hover over the profile, select Add > Select from Local Folder, and then follow the on-screen instructions to upload an image from your computer. Or if your computer is connected to a camera, you can select Add > Snapshot to take an image.

| Basic Info | |
|----------------------------------|------------|
| | |
| * ID | |
| 3 59 | |
| | |
| * Name | |
| | |
| | Add |
| Gender | |
| Unspecified ~ | |
| | |
| Person Group | Email |
| All Persons and Vehicles 🗖 🚽 🗸 🗸 | |
| | |
| Phone No. | Address |
| | |
| | |
| ID Type | ID No. |
| Others ~ | |
| | |
| Company | Department |
| | |
| | |

Figure 4-6 Basic information

- When taking a picture with a camera, click , and then you can select a camera, pixel format, resolution, and image quality. These parameters are only effective on the current PC client.
- You can upload or take 2 images for better recognition results. Only certain devices support this function. The 2 icons under the images indicate the first and second images. If the icon is in blue, it means the corresponding image is selected.

<u>_~~</u>

You can import images for multiple people at the same time. For details, see "4.3.2.6 Importing Images of Persons".

- 2. Enter the information of the person as necessary.
 - The ID is required and must be unique. It can be up to 30 characters, and letternumber combination is also supported.
 - The name of the person can be up to 127 characters.
 - The person can be added to up to 5 person groups. Click P to set one as the main person group.
- 3. (Optional) Click **Show More**, and then enter the information of the person.

 \square

The nickname will be used in the contact information for VTOs.

Configure the verification information for unlocking doors.



Table 4-9 Parameter description

| Parameter | Description |
|--------------|--|
| | 1. Click Setting , select a device to issue cards, and then click OK . |
| | Click +, swipe a card on the device you select, the card number will be recognized and displayed. Or manually enter the card number. |
| | One person can have up to 5 cards. A card number is 8-16 numbers. Only second-generation access control devices support 16-digit card numbers. When a card number is less than 8 numbers, the system will automatically add zeros prior to the number to make it 8 digits. For example, if the provided number is 8004, it will become 00008004. If there are 9-16 numbers, the system will not add zero to it. |
| Card | 3. Click . |
| | 4. (Optional) Click + to add more cards. You can add up to 5 cards for each person. |
| | After adding a card, you can: |
| | Set a card as duress card. When opening door with a duress card, there will be a duress alarm. Click this icon, it turns into a, and is displayed at upper right, which indicates that the card is set as a duress card. To cancel the duress setting, click a. |
| | Update the card number. |
| | \diamond \square : Remove the card, and then it has no access permissions. |
| | Click Setting , select a fingerprint scanner, and then click OK. Click Add, and then follow the on-screen instructions to collect your fingerprint on the scanner. Click Add Fingerprint. (Optional) Click Add to add more fingerprints. You can add up to 3 |
| | fingerprints for each person. |
| F | After adding a fingerprint, you can: |
| Fingerprints | • Set the fingerprint as the duress fingerprint. When opening doors with the duress fingerprint, there will be a duress alarm. Click this icon, it turns into |
| | (find), which indicates that the fingerprint has been set as the duress fingerprint. Click it again to reset the duress fingerprint as a normal one. |
| | Change the name of the fingerprint. |
| | Delete the fingerprint, and then it has no access permissions. |



| Parameter | Description |
|-----------|--|
| Password | The password must be used with a card, person ID, or fingerprint to unlock the door. For details, see the user manual of the access control device you are using. |
| | Click \pm , enter a password, and then click \checkmark . |
| | After adding a password, you can: |
| | ◇ Change the password. |
| | \diamond <math>\boxed{1}</math> : Delete the password, and then it has no access permissions. |
| • | If the person has one or more vehicles, click Vehicle to add their information to the platform, so that you can grant access permissions to this person's vehicles later. |
| | If the vehicles have been added to the platform, click Select from Vehicle List, and then select the vehicles for this person. |
| | $^{\diamond}$ If the vehicles have not been added to the platform, click \pm , enter the plate |

number, and then select a color and brand. <u>Step 4</u> If the person is a resident, click **Video Intercom**, and then configure the room information.

| Parameter | Description |
|-----------|---|
| Room No. | The number of the room this person lives in. It is displayed in the access records and video intercom operation records. |
| Homeowner | When several people live in the same room, you can set one of them as the homeowner. |
| | Only the homeowner can register an account on DSS Agile VDP. |
| | This function is only available for the homeowner. After you select the option, you must enter an email address for the person. It will be used as the username for the person to log in to DSS Agile VDP. |
| | After the person is added, the platform will send the username and password to the email address. |
| | |
| App User | If the person does not receive the email, you can click Send Email to send a new email. |
| | \triangle |
| | If you cancel selecting this option after an App account is created for the person, the App account will be deleted. This person can no longer log in to the App. If this person is a homeowner, all App accounts in the corresponding room will be deleted, and all people in this room can no longer log in to the App. |

Table 4-10 Parameter description

- <u>Step 5</u> Click **Access Control**, and then configure the access permissions for this person.
 - 1. Select an access type.
 - General: When the person uses an access point, a general event is reported.



- VIP: When the person uses an access point, a VIP event is reported.
- Patrol: When the person uses an access point, a patrol event is reported.
- Blocklist: The person cannot use an access point. Also, a blocklist event is reported.
- Extend time: When the person uses an access point, the door will stay unlocked for additional 5 seconds, and an extend time event is reported.
- 2. Configure the access rule validity period. The access rules are only effective within this period.
- 3. Select **Quote** > **Add**, and then configure the access rules.

<u>_~~</u>

If you already added access rules of general verification, this page will display them for you to select.

| General | | |
|-----------------|-------------------|-----------------------|
| + Add | | Rule Name Q |
| Rule Name | Access Point Type | Time Plan |
| 46.39 | Door | All-Period Template |
| ASI6214S-PW | Door | All-Period Template |
| ule_name1786455 | Door | C All-Period Template |

Figure 4-7 Available access rules

Table 4-11 Parameter description

| Parameter | Description |
|-------------------|---|
| Rule Name | Enter a name for the rule. |
| Access Point Type | Only Door is available |
| Time Template | Select a time template to define when the rule will be effective. For how to create a new template, see "3.1.5 Adding Time Template". |



| Parame | ter | Description | | |
|---|-----------|---|--|--|
| Holiday Plan | | Select a holiday plan when the rule will not be effective. You can add up to 4 holiday plans. Follow the steps below to create a holiday plan: a. Select Add Holiday Plan in the drop-down list. b. Enter a name for the holiday plan. c. Click Add to add a holiday. You can add up to 16 holidays. d. Configure the effective periods for each day in the holiday. You can drag on the timeline below, or click to configure the time more accurately. You can add up to 4 periods. e. Click OK. | | |
| | | Holdsry plan 1 Holdsry plan 1 Holdsry plan 2 Holdsry plan 1 Holdsry plan 1 Holdsry plan 1 Holdsry plan 2 Holdsry plan 1 Holdsry plan 3 Holdsry plan 1 Holdsry plan 4 Holdsry plan 2 Holdsry plan 4 Holdsry plan 4 Holdsry plan 5 Holdsry plan 4 Holdsry plan 5 Holdsry plan 4 Holdsry plan 4 Holdsry plan 4 Holdsry plan 5 Holdsry plan 4 Holdsry plan 5 Holdsry plan 5 Holdsry plan 4 Holdsry plan 5 Holdsry plan 4 Holdsry plan 5 Holdsry plan 5 Holdsry plan 5 Holdsry plan 5 Holdsry plan 5 Holdsry plan 6 Holdsry plan 5 Holdsry plan 6 Holdsry plan 5 Holdsry plan 7 Holdsry plan 5 Holdsry plan 7 Holdsry plan 5 Holdsry plan 7 Holdsry pl | | |
| Select b | oy Zone | Select one or more zones. This person will have access permissions to all the access points in these zones. | | |
| | | For how to configure a zone, see "4.5.2 Configuring Zone". | | |
| Select b Point | oy Access | Select one or more access points. This person will have access permissions to all these access points. | | |
| 4. Click OK to finish adding the rule. 5. Select one or more rules for this person, and then click OK. Step 6 If you want to recognize this person by face images, add the person to a face armi group. | | | | |
| | | to create a face arming group first. To add one, select Add Face Arming Group op-down list. For details, see "4.4.1.1 Creating Face Arming Group". | | |
| | | son has one or more vehicles, you can grant parking lot access permissions to | | |
| 1. In the | | Parking Lot Vehicle Group section, click Add to select the license plate | | |

number, and then select which one or more vehicle group it belongs to.



Figure 4-8 Parking lot vehicle group

| Parking Lot Vehicle Group + Add | | | | |
|------------------------------------|-------------|---------------|-----------------|-----------|
| Plate No. | Parking Lot | Vehicle Group | Validity Period | Operation |
| | | | | |
| | | | | |
| | | No Data | | |

Step 8 Click **OK**.

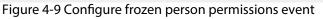
Related Operations

- Click do edit the basic information of a person.
- Cancel the access permissions of a person

Click to cancel the access permissions of a person; click to restore the permissions.

 \square

After canceling, if the access control device is configured with **Frozen Person Permissions** from \square > **Event** > **Event Config**, an alarm will be triggered if the person is detected trying to access.

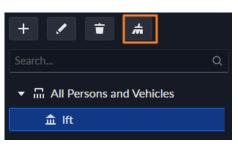


| Event Source Type | Event | Event Source |
|------------------------|-----------------------------------|--------------------|
| Device | Search Q | Search Q |
| Video Channel | The user is not in the a | 🕨 🗹 🔚 Current Site |
| Alarm Input Channel | Repeated entering | |
| Subsystem | O Identity of the same us | |
| Zones | Frozen Person Permissi | |
| EAS Alarm Channel | ○ The visiting times reac | |
| Access Control Channel | O Incorrect Sequence of | |
| | Normal Access | |
| Radar | Valid Password Unlock | |
| Parking Lot | O Valid Fingerprint Unlock | |
| People Counting Group | O Valid Face Unlock | |

- To delete a person:
 - Click to delete a person and associated permissions.
 - Select multiple people, and then click **Delete Selected Items** to delete them and associated permissions. If you delete more than 10 persons, you must verify your login password.
 - Select a person and vehicle group, and then click it to delete all the persons and their permissions in the group. To perform this operation, you must verify your login password.



Figure 4-10 Delete all persons in a group



- Uiew authorization exception of a person.
- To search for a person, enter keywords in the

If you select **Include Sub Groups**, all the persons in the selected group and the sub groups in this group will be displayed.

4.3.2.3 Importing Multiple People

Prepare the information of the people first, and then you can import them to the platform quickly.

Prerequisites

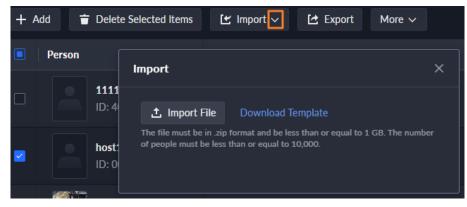
- Prepare an .xlsx file that includes the information of the people you want to import, their face images (optional), and then compress them into a zip file. The .xlsx file can include information of up to 5,000 people. The zip file cannot be larger than 1 GB.
- If a person belongs in a first-person unlock rule, set the access type of the person to **General**.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Person List**.

<u>Step 2</u> Select **Import** > **Import from File**.

Figure 4-11 Import personnel information



<u>Step 3</u> Import the personnel information file.

If there is no personnel information file, click **Download Template** and follow the instructions on the page to create personnel information.

Step 4 Click **OK**.

The following cases might occur during an import:

• 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.



- If there are failures, you can download the failures list to view details.
- Read carefully the instructions in the template to make sure all the information is correct.
- Cannot read the contents with a parsing error reported directly.

Related Operations

• Export personnel information.

Select an organization, click **Export**, and then follow the instructions on the page to save the exported information to a local disk.

- Import people from device: Select **Import** > **Import from Device**. For details, see "4.3.2.5 Extracting Personnel Information".
- Import person image: Select Import > Import Person Image, click Download Template to download the template, prepare the images according to requirements in the template, and then click Import File.

4.3.2.4 Moving People in Batches

Move people ion batches to another person group. This operation will delete the access rules of the current group, and apply those of the target group on the people.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Personal List**.
- Step 2 Select a person group, and then the people in this group are displayed on the right.

Select **Include Sub Groups** to display all the people in this group and all its sub groups.

- <u>Step 3</u> Select multiple people, and then select **More** > **Move To**.
- <u>Step 4</u> Select a target group, and then click **OK**.
- Step 5 Click **OK** again.

4.3.2.5 Extracting Personnel Information

When personnel information has been configured on access control devices or door stations, you can directly synchronize the information to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Personal and Vehicle Info**.
- Step 2 Click **Person List**.
- <u>Step 3</u> Click **Import**, and then select **Import from Device**.

Figure 4-12 Import from device

| + / = # | + Add | [Import ∧ [Export More ∨ |
|--------------------------------|----------|----------------------------|
| Search Q | Person | Import from File |
| ▼ III All Persons and Vehicles | _ 1112 } | Import from Device |
| fft | ID: 2 | Import Person Image |

Step 4 Click +, select a channel from an access control device or door station, and then click **OK**.



<u>Step 5</u> Double-click a result to view the details.

<u>Step 6</u> Synchronize personnel information to the platform, or export information.

Figure 4-13 Personnel extraction results

| yl | | | | | × |
|--------|-----------------|---------------|-------------|--------------------|----------------|
| 🛃 Impo | ort All [🗠 Imp | oort Selected | 2 Export | ID/Name | Q |
| | D | Name | Access Type | Authorization Info | |
| | DO D3 | 2000000000 | General | = 1 | |
| | 23 77777 | yl-Area-test | General | a 1 | |
| | 01 — → 7 | xuzhenwu777 | Blocklist | ■ 1 | |
| | | | | | 1 / 1 → |

- 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.
- To add all the personnel information to the platform, click **Import All**.
- To add part of the information, select the people of interest, and then click **Import Selected**.
- To export information, select the people that you want, and then click **Export**.

4.3.2.6 Importing Images of Persons

If people are added to the platform but their images have not been configured, you can import images for multiple people at the same time.

Prerequisites

You can upload up to 10,000 images in a zip file that can be up to 1 GB. Also, each image should meet the following requirements:

- A person can have up to 2 images, but only certain devices support recognizing people with 2 images.
- The image must be in .jpg format, and has a resolution ranging from 150×300 to 540×1080 . It is preferred that it be 500×500 . The image must not exceed 100 KB.
- Make sure that there is only 1 face in the image, with proportions between 1/3 and 2/3 of the whole image. The aspect ratio of the image must not exceed 1:2.
- Both eyes should be open with a natural expression. Expose the forehead and face, and keep hair away from blocking it. The bear shape should be similar to that of the original image.
- Normal light colors should be used (without whitening, yellowing, and backlight). Items should not block the face (such as hat, face mask, and glasses). The image must be processed by Photoshop.
- Use an image with a white background.



Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Person List** > **Persons**.
- <u>Step 2</u> Select **Import** > **Import Person Image**.
- <u>Step 3</u> Click **Download Template** to save the zip file to your computer. It contains the instructions on how to prepare images, and 2 images for reference.
- <u>Step 4</u> Prepare images according to the requirements, and then rename them in the format of **Person ID-Person Name-1**.

1 means the first image of the person. Change it to 2 to make the second image of the person.

- <u>Step 5</u> Compress the images into a .zip file.
- <u>Step 6</u> Click **Import File**, and then open the .zip file.

The page will display the number of successes and failures. Click **Download Failure List** to see the reasons for the failures.

4.3.2.7 Issuing Cards in Batches

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Person List** > **Persons**.
- <u>Step 2</u> Select the people to issue card to, and then select **More** > **Batch Issue Cards**.

Figure 4-14 Issue card in batches

| Persons | Access Rule | | | | | | |
|---------|---------------------------|---------------------|----------|-------------------------------|-----|--------------------|------|
| + Add | Delete Selected Items | 🛃 Import 🗸 | 🛃 Export | More ^ | | Include Sub Groups | ID ~ |
| Per: | son | Organization | | Batch Issue Cards | | | |
| | 111 33 ID: 2378 | All Persons and Veh | nicles | Sync Person in Dom Move To | ain | | |
| _ | | | | Enable More Info | | | |

- <u>Step 3</u> Set validity period.
- <u>Step 4</u> Issue cards to personnel.

Support issuing cards by entering card number or by using a card reader.

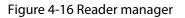
- By entering card number
 - 1. Double-click the **Card No.** input boxes to enter card numbers one by one.
 - 2. Click **OK**.



Figure 4-15 Enter card number

| Validity Period | | | |
|----------------------------|-------------------|----------|-----------|
| 2024-06-20 00:00:00 - 2034 | -06-20 23:59: 📋 | | |
| Issue Cards | | | |
| Card Reader Manager | | | |
| | | | |
| ID | | | |
| | Name | Card No. | Operation |
| 28 78 | Name 111222333 | Card No. | Operation |
| | | Card No. | |

- By using a card reader
 - 1. Click 💁
 - 2. Select a card reader or device, and then click **OK**.
 - 3. Select people one by one and swipe cards respectively until everyone has a card number.
 - 4. Click **OK**.



| Validity Period | | | |
|-----------------------|---------------------|--------|-----------|
| 2024-06-20 00:00:00 - | 2034-06-20 23:59: 📋 | | |
| Issue Cards | Iger | | |
| ID | Card Reader Manager | × | Operation |
| 28162378 | Card Reader | 2 | • |
| 42543763 | Device | | • |
| | Device | ~ | |
| | | | |
| | ок | Cancel | |
| | | | |



4.3.2.8 Viewing People and Their Information

View certain people and their information by searching for keywords or filtering the type of information to be displayed, such as ID, name, card number, ID number, plate number, company, department, and more.

Searching for People

Select a person and vehicle group, enter keywords in the search area on the upper-right corner, and

then click or press Enter to search for people who have that information. If **Include Sub Groups** is selected, the platform will also search for people in the sub groups of the one that you select.

Filtering Person Information

Click on the upper-right corner to select which information to be displayed, such as person, organization, phone number, email, certificate, card number, ID number, vehicle, company, department, room, and more.

For example, when **Email** is selected, the email addresses of the people in the list will be displayed.

Figure 4-17 Display email addresses

| Person | Organization | Email | Certificate 🗸 | Operati | on | | ٥ |
|--------------------|--------------------------|-----------|---------------|---------|----|---|---|
| 11: 33 ID: 2378 | All Persons and Vehicles | [@ | - | | * | Ť | |
| 11 ID: 3763 | All Persons and Vehicles | @ | - | | * | Ť | |

4.3.2.9 Editing Person Information

Modify personnel information including basic information, authentication details, and authorization. Person ID cannot be modified.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Personal and Vehicle Info** > **Person List** > **Persons**.
- <u>Step 2</u> Click **I** to edit information. For details, see "4.3.2.2 Adding a Person".

4.3.2.10 Configuring Access Rule

An access rule defines the permission and effective time of that permission to door channels. Configure an access rule for a person and vehicle group, and then it will be applied to all the people inside the group. Only administrators can configure access rules.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Person List**.
- <u>Step 2</u> Click a group, and then click **Access Rule**.
- <u>Step 3</u> Click **Quote**. This page displays rules that have been added. You can select and use any one of them directly.
- <u>Step 4</u> Click **Add**, and then configure the parameters of the new access rule.



\square

When configuring an access rule for a person and vehicle group, you can only configure general verification rules. If you want to configure other types of rules, see "4.5.3 Configuring Access Rule".

| Parameter | Description | | |
|---------------------------|--|--|--|
| Rule Name | Enter a name for the rule. | | |
| Access Point Type | Only Door is available. | | |
| Rule Type | Only General Verification is available. For this type of rules, doors can be unlocked by cards, fingerprints, and passwords. | | |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". | | |
| | Select when this rule is not effective. You can add up to 4 holiday plans. Follow the steps below to create a new holiday plan: | | |
| Holiday Plan | Select Add Holiday Plan in the drop-down list. Enter a name for the holiday plan. Click Add to add and configure a holiday. You can add up to 16 holidays. Configure the effective periods for each day in the holiday. You can drag on the timeline, or click to configure the periods more precisely. You can configure up to 4 periods. Click OK. | | |
| Select by Zone | People can access all the access points in the selected zones. | | |
| Select by Access Point | People can access the selected access points. | | |

| Table 4-12 Parameter description | |
|----------------------------------|--|
| | |

<u>Step 5</u> Select the access rules, and then click **OK**.



Figure 4-18 Select access rules

| ← Quote Rule | | |
|----------------------|-------------------|---------------------|
| General | | |
| + Add | | Rule Name Q |
| Rule Name | Access Point Type | Time Plan |
| <mark>✓</mark> 46.39 | Door | All-Period Template |
| ASI6214S-PW | Door | All-Period Template |

4.3.3 Vehicle Management

Manage vehicle information including vehicle type, owner, entry and exit permissions and arming groups.

Prerequisites

You need to add parking lot first. For details, see"4.8.2 Configuring Parking Lot".

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Person and Vehicle Info** > **Vehicle List**.

<u>Step 2</u> Add vehicles.

- Add vehicles one by one
- 1. Click Add.
- 2. In the **Owner Info** section, click **Select from Person List** to select the owner of the vehicle.
- 3. Configure the information of the vehicle in the **Vehicle Info** section, such as the vehicle group, plate number (required and unique), vehicle color, brand and more.

If you have selected an owner, you can add multiple vehicles.

4. In the **Parking Lot Vehicle Group** section, click **Add**, and then you can select the plate number (the one added in the previous step) and parking lot, set the vehicle group that the vehicle belongs, to and the validity period of the vehicle's access permissions.

Figure 4-19 Parking lot vehicle group

| Parking Lot Vehicle Group | | | | |
|---|-------------|---------------|------------------------|-----------|
| After selecting the vehicle group, the vehicle has the access to group and non-blocklist groups at the same time, only the veh | | | | |
| + Add 📋 Delete | | | | |
| Plate No. | Parking Lot | Vehicle Group | Validity Period | Operation |
| □ 1234A | 111 | General ~ | Long Term \checkmark | ÷ |

\square

If the owner has more vehicles than the defined parking spaces, once no parking spaces available, the owner cannot access the parking lot.

5. Click **Constitution** to enable **Vehicle Arming Group**, and then click **Add** to arm the vehicles that you have just added.



Figure 4-20 Vehicle arming group

| Vehicle Arming Group <u></u> | according to the rules of the group. | | |
|------------------------------|--------------------------------------|-----------------|-----------|
| + Add | | | |
| Plate No. | Vehicle Arming Group | Validity Period | Operation |
| 1234A | High Risk Vehicle 🗸 🗸 | Long Term | × 🗎 |
| \square | | | |

For arming group details, see "4.4.2.1 Creating Vehicle Arming Group".

- 6. Click **OK**.
- Add vehicles in batches
- 1. Click Import, and then click Download Template.
- 2. Fill in the template, and then select **Import File**. Select the file and import the information to the platform.

 - You can click **Import File** or **Click to Select File** to import the vehicle information if you have already prepared them.
 - The platform supports downloading files that failed to import for you to check and fix.

<u>Step 3</u> (Optional) Export vehicle information to local storage as needed.

Figure 4-21 Export vehicle information

| Export | | | | × |
|---|---|-------|----|--------|
| Up to 100000 records can be exported at a time. | | | | |
| | | | | |
| Username | | | | |
| system | | | | |
| * Login Password | | | | |
| Please enter login password | 8 | | | |
| | | | | |
| Export Range | | | | |
| Select Range | | | | |
| Start From | | Total | | |
| Start From | | IOLAI | | |
| 1 | | 1000 | | |
| | | | | |
| | | | ОК | Cancel |

- Set **Export Range** to **All**, and then enter required information, such as passwords for login and encryption, to export all the items.
- Set **Export Range** to **Select Range**, and then the start record and total records that you want to export.

Related Operations

- You can search vehicles by entering keywords in search box at the upper-right corner.
- Click or double-click the column to edit the vehicle information.



Click to delete vehicles one by one. You can also select multiple vehicles and then click
 Delete at the top to delete in batches.

4.4 Watch List Configuration

Configure face and vehicle watch list for future investigation.

- For face watch list, you can create and arm face comparison groups to recognize faces.
- For vehicle watch list, you can create vehicle comparison groups, add vehicles and then link devices for plate recognition.

4.4.1 Face Arming List

Configure a face arming list and send the it to devices for face recognition and alarms.

4.4.1.1 Creating Face Arming Group

Only administrators can add, edit, and delete person and face arming groups.

Prerequisites

- Make sure that the devices for face recognition have been successfully configured onto the Platform.
- Make sure that the basic configuration of the Platform has completed. For details, see "3 Basic Configurations". During the configuration, you need to pay attention to following parts.
 - When adding devices on the **Device** page, set the **Device Category** to **Encoder**.

Figure 4-22 Device category

| ← Add Device | | | |
|------------------------|------------------------|-----------|---|
| 1 Login Information | (2) Device In | formation | |
| Login Information | | | |
| Add Mode | Access Protocol | | |
| IP Address | Dahua | | |
| Device Category 🛈 | ІР Туре | | |
| Encoder | IPv4 | ◯ IPv6 | |
| * IP Address | * Device Port 37777 | | |
| * Username | * Password | | |
| admin | | | 8 |
| Organization | Server | | |
| Current Site | 192. 100 | | |



When adding devices like NVR or IVSS which support face recognition, set the device feature to Face Recognition. For details, see "3.1.2.5 Editing Devices".

| Figure 4-23 | Feature | configuration |
|-------------|---------|---------------|
| | | |

| Video Channel | | | | | |
|-------------------------------|--------------|---------------|----------------------|---------------|-----------|
| * Number of Channels 2 0-1024 | | | | | |
| Channel No. | Channel Name | Camera Type | Features | Keyboard Code | Operation |
| 1 | * 9D0 | Bullet Camera | Face Recognition ~ | | T |
| 2 | Channel 1 | Bullet Camera | Face Recognition 🗸 🗸 | | T |

Make sure that you have configured at least one disk with the type of **Images and Files** to store face images. Otherwise, the snapshots cannot be displayed.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Arming List** > **Face Arming List**.
- <u>Step 2</u> Click **Add**, and then configure the parameters.

Table 4-13 Parameter description

| Parameter | Description |
|---------------------------|---|
| Face Arming Group Name | Enter a name for the group. |
| Color | You can use colors to quickly differentiate each group. For example, red indicates key targets. |
| Roles Allowed Access | Only the roles and their users can view this group. |
| | Click 💿 to see the users assigned with the roles. |

Step 3 Click Add.

 \square

4.4.1.2 Adding Faces

Add people to face arming groups. Their faces will be used for face comparison.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Arming List** > **Face Arming List**.

Step 2 Click of a group you want to add people to it.

The same person can be added to different face arming groups.

 Add people by person groups. This is the most efficient way, provided that you have created person groups based on the access permissions. For details, see "4.3.2 Configuring Personnel Information".

Click **Add by Person Group**, select one or more groups, and then click **OK**. You can also select **Include Sub Groups** to include the people in the sub groups of the groups you select.



• Select the people you want to add. This is applicable to people in different person groups have the same access permissions.

Click Add by Person, select the people you want to add, and then click OK.

4.4.1.3 Arming Faces

The faces of the people in face arming groups will be sent to devices for real-time face recognition. If the similarity reaches the defined threshold, alarms will be triggered.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Arming List** > **Face Arming List**.
- Step 2 Click of the face arming group you want to arm.
- <u>Step 3</u> Click **Add**, select one or more devices or channels, and then click **OK**.

The platform will send the information of the face arming group to the devices and

channels you selected, and display the progress. If exceptions occur, you can click 💶 to view the reason.

| 1 Send Face Arming Group | | | | |
|---|---|-----------------------------------|----------------|-----------|
| perform face modeling. If the device (such as IVSS) connected device. | device to perform face recognition. Please to the platform has face recognition capa to the platform does not have face recogni ted to the device. | bility, the face comparison group | | |
| 🙃 Add 🕒 Remove | • Exception | Organization | Current Site ~ | ٩ |
| Send to | Type of Object to be Sent | Organization | Sending Status | Operation |
| 46.24 | Device | Current Site | 😔 Finished | • |
| IPC-60 | Device | Current Site | Finished | • |
| | | | | |
| Total 2 Record(s) | | | | 20/Page 🗸 |
| Next Step Finish | | | | |

Figure 4-24 Send face arming group

<u>Step 4</u> After the face arming group is successfully sent, click **Next Step**.

- <u>Step 5</u> Click **Add**, select the channels you want to arm, and then configure the similarity for each channel.
 - When the similarity between the face captured by the channel and a face in the face arming group reaches or is greater than the defined value, it is considered a match.
- Step 6 Click **OK**.

 \square

- <u>Step 7</u> (Optional) View exceptions and arm the face arming group again.
 - 1. Click 💶 to view why arming failed and address the issue.



2. Click **Arm Again** to arm the face arming group again.

4.4.2 Vehicle Watch List

Create a vehicle comparison group and add vehicles to it. After a vehicle comparison group is sent to cameras for recognition, alarms will be triggered if the vehicles in the group are captured and recognized.

4.4.2.1 Creating Vehicle Arming Group

A vehicle arming group contains the information of multiple vehicles. When arming the group, you can arm all the vehicles inside the group at the same time. Only administrators can add, edit, and delete person and face comparison groups. You can add up to 8 vehicle arming groups.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then click **Watch List** > **Vehicle Watch List**.
- <u>Step 2</u> Click **Add**, and then configure the parameters.

Table 4-14 Parameter description

| Parameter | Description |
|------------------------------|---|
| Vehicle Arming Group Name | Enter the name that identifies the group. |
| Color | You can use colors to quickly differentiate each group. For example, red indicates key targets. |
| Roles Allowed | Only the roles and their users can view this group. |
| Access | Click 💿 to see the users assigned with the roles. |

Step 3 Click Add.

4.4.2.2 Adding Vehicles

Add vehicles to vehicle arming groups. After armed, devices will recognize their plate numbers and trigger alarms.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Watch List** > **Vehicle Watch List**.
- Step 2 Click of a group, or double-click a group, and then click Select from Vehicle List.
 - Add vehicles by vehicle groups. This is the most efficient way, provided that you have created vehicle groups. For details, see "4.3.2 Configuring Personnel Information".

Click **Add by Vehicle Group**, select one or more groups, and then click **OK**. You can also select **Include Sub Groups** to include the vehicles in the sub groups of the groups you select.

• Select the vehicles you want to add. This is applicable to vehicles that you want to add are in different vehicle groups.

Click Add by Vehicle, select the vehicles you want to add, and then click OK.

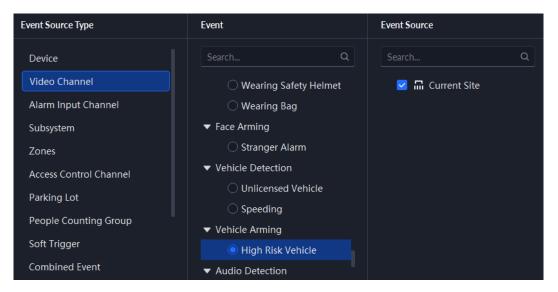


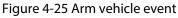
4.4.2.3 Arming Vehicles

The plate numbers of the vehicles in comparison groups will be sent to devices for real-time recognition and trigger alarms.

Log in to the DSS Client. On the **Home** page, click **S**, and then arm the vehicle on the **Event** page.

Click **Add** to add an event to arm a vehicle watch list. For how to configure events, see "4.1 Configuring Events".





4.5 Access Control

Issue cards, collect fingerprints and face data, and apply permissions, so that the authorized people can open door by using card, face or fingerprint.

4.5.1 Preparations

Make sure that the following preparations have been made:

- Access control devices are correctly deployed. For details, see the user manual of the device you are adding to the platform.
- Basic configurations of the platform have been finished. See "3 Basic Configurations" for details.
 - When adding access control devices, select **Access Control** from **Device Category**.
 - Optional) You can bind video channels to access control channels, so that you can monitor the area near access control devices. For details, see "3.1.3 Binding Resources".
 - ◇ Add persons to the platform For details, see "4.3 Personnel and Vehicle Management".



4.5.2 Configuring Zone

A zone is a collection of access permissions to doors. Create zones to quickly define security control areas with different permissions. Only the administrator can add, edit and delete zones.

4.5.2.1 Adding a Zone

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- Step 2 Click +.
- <u>Step 3</u> Configure the information, and then click **OK**.

Table 4-15 Parameter description

| Parameter | Description |
|---------------|--|
| Parent Zone | Select a parent zone for permission management. For example, if a user has permissions for zone A, the user also has permissions for all sub zones under zone A by default. Additional permissions can be set for the sub zones. |
| Zone Name | Enter a name for the zone. |
| lcon | Select an icon for the zone. Icons are used for users to quickly identify different zones. |
| Roles Allowed | Only the selected roles and their users can access this zone. |
| Access | Click 💁 to see the users assigned with the roles. |

4.5.2.2 Adding Zones in Batches

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click And then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click \neq .

All zones will be added as sub zones of the one you select.

Step 3 Click Add to add more levels.

There is only 1 level by default. There can be up to 8 levels of zones. For example, if the zone you select is a level 3 zone, you can only add 5 levels of zones under it.

<u>Step 4</u> Configure the parameters for each level, and then click **OK**.

You can check the results for your current configurations.



Figure 4-26 Add zones in batches

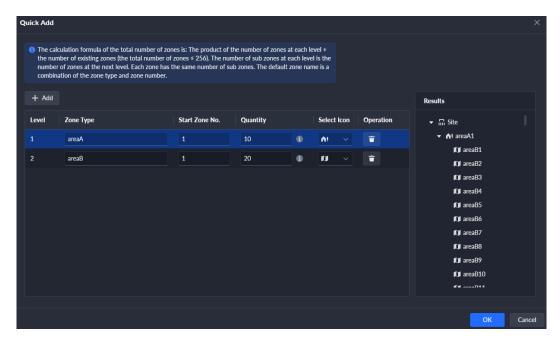


Table 4-16 Parameter description

| Parameter | Description |
|----------------|---|
| Level | The number indicates the level of the zone. The region with a larger number is a sub zone of the region with the smaller number. For example, the level 2 zone is a sub zone of the level 1 zone. |
| Zone Type | Enter a name for the zone. |
| Start Zone No. | Enter a start number and then all the zones of this level will be automatically numbered. For example, if the start number is 1 and the quantity of zones is 3, then zones will be numbered as zone 1, zone 2, and zone 3. |
| Quantity | Enter a number for each zone. The number of each level of zones = upper levels × the current level. For example, the numbers of level 1, 2 and 3 are 1, 2, and 3. Then, the number of level 3 zones = $1 \times 2 \times 3 = 6$. |
| Select Icon | Select an icon for the zone. Icons are used for users to quickly identify different zones. |

Step 5 Click OK.

The roles that are allowed to access the parent zone will be automatically applied to the sub zones.

4.5.2.3 Editing and Deleting Zone

Only administrators can edit and delete zones.

Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.

• Click a zone and then click it to edit the information of the zone, including the name, icon, and roles allowed access.



Click a zone and then click to delete it. After deleting the zone, all information related to the zone will also be deleted, including sub zones, access rules, and maps. Access points in this zone and its sub zones will be moved to the root zone.

4.5.2.4 Moving Access Point

The access points in a zone can be moved to other zones. After you add access control devices and video intercom devices with access control functions, access points of door channels will be generated and added to the root zone by default. You need to allocate them to other zones.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Access Point**.

All access points and sub zones will be displayed.

<u>Step 3</u> Move the access points.

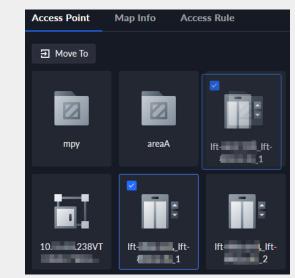
After moving the access points, access rules of the current zones will not be applied to them, and their information on the map will also be deleted. The access rules of the target zone will apply to them.

\square

Access points that have been configured with access rules cannot be moved.

- Move an access point.
 - Drag an access point to a sub zone.
 - Right-click an access point, select **Move To**, and then select a zone.

Figure 4-27 Move an access point



• Move multiple access points.

You cannot move the access points in batches if the current or target access points have been configured with access rules.



- 1. Drag to select multiple access points. Or hover the mouse over an access point, click the checkbox to select it, and then repeat the operations to select multiple access points.
- 2. Drag the access points to a sub zone. Or click **Move To** and then select a zone. Or right-click any selected access point, click **Move To** and then select a zone.

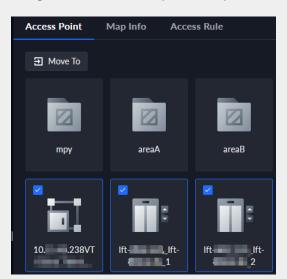


Figure 4-28 Move multiple access points

4.5.2.5 Configuring Access Point

4.5.2.5.1 Viewing Access Point Details

View the information of an access point, including the name, type, zone it belongs to, linked resources, and access rules.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Access Point**.
- <u>Step 3</u> Double-click an access point to view its details.
 - Access Point Name : The name of the access point.
 - Access Point Type : Displays the type of the access point.
 - **Zone Name** : Displays the name of the zone the access point belongs to.
 - Linked Resources : Displays the channel name and type of the access point, the name and type of the intercom device it belongs to, and video channels that are bound to it. If you want to bind resources to this access point, you can click **Channel Binding** to quickly go to the page. For details on channel binding, see "3.1.3 Binding Resources".
 - Access Rule : Displays the access rules applied to this access point itself, and from the zone it belongs to. Double-click a rule to view its details. You can click **Quote** or **Remove** to add or delete the rules, but the rules from the zone cannot be deleted.



4.5.2.5.2 Setting Boundary

Setting access points as boundaries to count people that entered, exited, or entered but did not exit.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Access Point**.
- <u>Step 3</u> Right-click an access point and select **Set as Boundary**.

The icon of the access point changes to

4.5.2.6 Configuring Access Rule for a Zone

An access rule defines the permission and effective time of that permission to door channels. Configure an access rule for a zone, and then it will be applied to all the access points inside. Only administrators can configure access rules.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Access Rule**.
- <u>Step 3</u> Click **Quote**. This page displays rules that have been added. You can select and use any one of them directly.
- <u>Step 4</u> Click **Add**, and then configure the parameters of the new access rule.

 \square

When configuring an access rule for a zone, you can only configure general verification rules. If you want to configure other types of rules, see "4.5.3 Configuring Access Rule".

| Parameter | Description |
|-------------------|---|
| Rule Name | Enter a name for the rule. |
| Access Point Type | Only Door is available. |
| Rule Type | Only General Verification is available. For this type of rules, doors can be unlocked by cards, fingerprints, and passwords. |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". |



| Parameter | Description |
|------------------|---|
| | Select when this rule is not effective. You can add up to 4 holiday plans. Follow the steps below to create a new holiday plan: |
| | Select Add Holiday Plan in the drop-down list. Enter a name for the holiday plan. Click Add to add and configure a holiday. |
| | You can add up to 16 holidays. 4. Configure the effective periods for each day in the holiday. |
| Holiday Plan | You can drag on the timeline, or click to configure the periods more precisely. You can configure up to 4 periods. 5. Click OK. |
| | Holiday Plan Name plan2 + Add Holiday Time Operation 2024 06 13 - 2024 06 03 |
| Select by Person | Select one or more person groups, and then all the persons in the groups will have permissions to access all the door channels in the zone. |
| Group | Select Link Sub Node , and then you can select a zone and all its sub zones at the same time. |
| Select by Person | Select one or more persons, and then they will have permissions to access all the door channels in the zone. |
| | Select Include Sub Groups to display all the persons in the selected group and its sub groups. |

<u>Step 5</u> Select the access rules, and then click **OK**.

Figure 4-29 Select access rules

| ら Quo | ote Rule | | |
|-------|-----------|------------------------|-------------|
| | + Add | | Rule Name Q |
| | | | |
| | Rule Name | Access Point Type | Time Plan |
| | | Access Point Type Door | |

4.5.2.7 Configuring Map

On the map of a zone, you can mark access points and sub zones so that you can better manage them and quickly locate events. You can configure a map for each zone. Besides administrators, any



user can configure maps for zones if they have permissions to access the zones. But if a user does not have access to the map function, the user will not be able to configure the map for any zone.

4.5.2.7.1 Adding Map

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Map Info**.
- <u>Step 3</u> Click **Configure Map** to add a map for the zone.
 - Select a map that has been added to the platform.
 - Upload an image as the map. After added, the map will be added to the platform as a main map. To know more about maps, see "4.2.2 Adding Map".

Step 4 Click **OK**.

4.5.2.7.2 Marking Access Point and Sub Zone

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Zone Management**.
- <u>Step 2</u> Click a zone, and then click **Map Info**.
- <u>Step 3</u> Drag a sub zone or access point to the map.

When marking a sub zone, you need to configure a map for it.

- If a map was added as the sub map of the current map, you can select it directly as the map for the sub zone.
- If no map was added for the sub zone, you can add a new map for it. The new map will be added as the sub map of the current one.
- If you added a map for the sub zone, but it is not a sub map of the current one, you cannot mark the sub zone on the map.

<u>_~r</u>

If you want to configure maps first, see "4.2 Configuring Map".

Related Operations

- Hide access point name
 - Only displays the icon of access points.
- Show access point

Select which types of access points to be displayed on the map.

Move

Click **Move**, and then you can adjust the locations of the sub zones and access points on the map.

• Reset

Restore the map to its initial position and zoom level.

Remove map

Remove the map from this zone. This operation will not delete the map from the platform.



4.5.3 Configuring Access Rule

An access rule defines the permission and effective time of that permission to door channels. Only administrators can configure access rules.

4.5.3.1 Viewing Access Rule Details

This page displays all access rules on the platform, including those configured for a person, person group, zone, and access point.

Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **All Rules**.

- Double-click a rule to view its details.
- Click I of a rule to view its authorization progress. If exceptions occur, click I to view their details. Follow the reason and prompt to handle the exception, and then click **Send Again** to send the rule again, but it only applies to **General Verification** rules. For other types of rules, you can only send them again manually.

4.5.3.2 Configuring General Verification

Grant permissions to persons so that they can verify their identifications and access doors within the effective periods.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **All Rules**.

Step 2 Click Add.

<u>Step 3</u> Configure the parameters, and then click **OK**.

Table 4-18 Parameter description

| Parameter | Description |
|-------------------|--|
| Rule Name | Enter a name for the rule. |
| Access Point Type | Select Door . |
| Rule Type | Select General Verification. |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". |





| Parameter | Description |
|------------------------|--|
| | Select when this rule is not effective. You can add up to 4 holiday plans. Follow the steps below to create a new holiday plan: |
| | Select Add Holiday Plan in the drop-down list. Enter a name for the holiday plan. Click Add to add and configure a holiday. You can add up to 16 holidays. Configure the effective periods for each day in the holiday. |
| Holiday Plan | You can drag on the timeline, or click to configure the periods more precisely. You can configure up to 4 periods. 5. Click OK. |
| | Holiday Plan Dactals # Holiday Plan Name pin2 # Add D024 06-03 - 2024 06-13 Coperation 2024 06-18 - 2024 06-18 Image: Coperation 2024 06-18 - 2024 06-18 Image: Coperation 00 01 02 09 06 09 06 07 08 09 10 11 12 13 16 13 16 17 18 19 20 21 22 23 56 Image: Coperation of the coperation of |
| Select by Zone | Select one or more zones, and then this rule will be applied to all access points in the zones. |
| | Select Link Sub Node , and then you can select a zone and all its sub zones at the same time. |
| | Select one or more access points. |
| Select by Access Point | Select Include Sub Zone to display all the access points in the selected zone and its sub zones. |
| Select by Person Group | Select one or more person groups, and then all the persons in the groups will have permissions to access the selected access points. |
| | Select Link Sub Node , and then you can select a zone and all its sub zones at the same time. |
| Select by Person | Select one or more persons, and then they will have permissions to access the selected access points. |
| | Select Include Sub Groups to display all the persons in the selected group and its sub groups. |



4.5.3.3 Configuring Normally Open

Within the effective periods, all people can pass access points without verifying their identifications. Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **All Rules**.
- Step 2 Click Add.
- <u>Step 3</u> Configure the parameters, and then click **OK**.

| Parameter | Description | |
|--------------------------------|--|--|
| Rule Name | Enter a name for the rule. | |
| Access Point Type | Only Door is available. | |
| Rule Type | Select Remains Open during Period . | |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". | |
| | Select when this rule is not effective. You can add up to 4 holiday plans. Follow the steps below to create a new holiday plan: | |
| Holiday Plan | Select Add Holiday Plan in the drop-down list. Enter a name for the holiday plan. Click Add to add and configure a holiday. | |
| | You can add up to 16 holidays. 4. Configure the effective periods for each day in the holiday. | |
| | You can drag on the timeline, or click to configure the periods more precisely. You can configure up to 4 periods. 5. Click OK. | |
| | Holday Plan Details + Holday Plan Name plan2 + Add Folday Time Operation 2024 66 18 - 2024 66 03 2024 66 18 - 2024 66 18 2024 66 18 - 2024 66 18 2024 66 18 - 2024 66 18 0 0 0 | |
| | After defining the period in holiday plan authentication, authentication is required for access within the defined period on the holiday. | |
| Holiday Plan Authentication | The operations are similar to those of adding holiday plan. | |
| | You can add up to 4 plans. | |

Table 4-19 Parameter description



| Parameter | Description |
|--------------|---|
| | Select one or more doors. |
| Access Point | Select Include Sub Zone to display all the access points in the selected zone and its sub zones. |

4.5.3.4 Configuring Normally Closed

All people are not allowed to pass access points.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **All Rules**.
- Step 2 Click Add.
- <u>Step 3</u> Configure the parameters, and then click **OK**.

Table 4-20 Parameter description

| Parameter | Description |
|-------------------|--|
| Rule Name | Enter a name for the rule. |
| Access Point Type | Only Door is available. |
| Rule Type | Select Remains Closed during Period. |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". |
| | Select when this rule is not effective. You can add up to 4 holiday plans. Follow the steps below to create a new holiday plan: |
| Holiday Plan | Select Add Holiday Plan in the drop-down list. Enter a name for the holiday plan. Click Add to add and configure a holiday. You can add up to 16 holidays. Configure the effective periods for each day in the holiday. You can drag on the timeline, or click to configure the periods more precisely. You can configure up to 4 periods. Click OK. |



| Parameter | Description |
|----------------|---|
| | After defining the period in holiday plan authentication, authentication is required for access within the defined period on the holiday. |
| Holiday Plan | The operations are similar to those of adding holiday plan. |
| Authentication | |
| | You can add up to 4 plans. |
| Access Point | Select one or more doors. @프또 |
| | Select Include Sub Zone to display all the access points in the selected zone and its sub zones. |

4.5.3.5 Configuring Anti-passback

People can only pass in the defined order. For example, if people want to go to building D, they must go through building A, B, and C. They cannot enter building D directly.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **All Rules**.
- Step 2 Click Add.
- <u>Step 3</u> Configure the parameters, and then click **OK**.

Table 4-21 Parameter description

| Parameter | Description |
|------------------------|---|
| Rule Name | Enter a name for the rule. |
| Access Point Type | Only Door is available. |
| Rule Type | Select Anti-passback. |
| Anti-passback Type | Only local anti-passback is supported. You can select the door channels of an access control device. |
| Reset Time | If people do not pass in the defined order, they will not be allowed to pass any door within the reset time. After the reset time, they must follow the order from the beginning. The reset time can be between 1 minute and 24 hours. |
| Time Template | Select when this rule is effective. If you want to create a new time template, see "3.1.5 Adding Time Template". |
| Anti-passback Group | Add doors to different groups, and then people must pass in the group order to access the doors in the last group. |

4.5.3.6 Viewing Rule Exception

After adding rules, exceptions might happen when they are being applied to access points. The platform displays all exceptions on this page and provides reasons and prompts for each one. You can handle the exceptions accordingly and then quickly send the rules again in one click, but it only



applies to **General Verification** rules. For other types of rules, you can only send them again manually.

Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **Rule Maintenance** > **All Abnormalities**.

Click the name of a person or access point to quickly go to the corresponding page for configurations. Handle the exceptions according to the reasons and prompts, and then click **Send Again** to send the rules again.

4.5.3.7 Verifying Consistency of Person Information

Rules will not be applied successfully if the people on the devices and the platform are not the same. You can use this function to check the people on a device against those on the platform, and quickly address issues if any occurs.

Prerequisites

Before using this function, you must configure an **Image and File** disk for the server where the device is added to. For details, see "3.3 Configuring Storage".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Access Rule** > **Rule Maintenance** > **Consistency Verification**.
- <u>Step 2</u> Select an access control device, and then click **Verify**.

A verification record will be generated on the right. If **Completed** is displayed, it means that the people on the device match those on the platform, and the device pass the verification.

- <u>Step 3</u> If any issue occurs, click **View Details** to view its details.
- <u>Step 4</u> Click **One-click Process** to automatically address all issues.

The following issues might occur and how the platform will address each of them:

- A person is not on the device: The person will be added to the device.
- A person is not on the platform: The person will be deleted from the device.
- The information of a person on the device is not the same as the platform: Update the information on the device.

4.5.4 Configuring Public Passwords

For a door, any person with the public password can unlock it. You can configure up to 1,500 passwords.

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Access Control** > **Public Password**.

Step 2 Click +

- <u>Step 3</u> Enter a name for the password, configure the password, and then select the door channels from access control and video intercom devices that the password will be applied to.
- Step 4 Click Save.
- <u>Step 5</u> (Optional) If exceptions occur, click to the reasons provided by the platform, and then click **Send Again**.



4.5.5 Configuring Access Control Devices

If an access control device is online, you can restart it, and synchronize its time with the platform. Also, you can set a person as the administrator, and then the person can log in to the configuration page of the access control device to configure parameters.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device** > **Device Config**.
- <u>Step 2</u> Select an access control device from the device tree.

Figure 4-30 Select an access control device

| Config | | 12 | | | 也 Restart Device | Configure Ad | min of Local | Ø |
|---------------------|------------|--------------|----------|------------------|------------------|--------------|--------------|---|
| Search Q | | IP Address | | Software Version | | | | |
| | Event Info | Event Config | | | | | | |
| ▶ 🖬 ift- ▶ 🖳 53 | Associa | Event Ty | Priority | Time Te | Holiday Acti | on Remarks | Operation | |
| ► ► | | | | | | | | |
| ▶ 点 znn ▶ 点 zy | | | | | No data | | | |
| ▶ ∴ mpy | | | | | | | | |

<u>Step 3</u> Configure the access control device.

- Click **Restart Device** to restart the device.
- Click **Configure Admin of Local Device** and add people from person groups. Then, the people can use their usernames and passwords to log in to the configuration page of the device.
- Click 🖉 at the upper-right corner to go to the webpage of the device.

4.6 Video Intercom

4.6.1 Preparations

Make sure that the following preparations have been made:

- Access control devices are correctly deployed, and the SIP server IP of the devices are filled in with IP of central servers of the platform. For details, see the corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding video intercom devices on the **Device** page, select **Video Intercom** as the device category.
 - When adding access control devices that support intercom, select Device Category to Access Control in Login Information, and then select Access Control Recognition Terminal.

4.6.2 Call Management

Create call group, management group and relation group respectively and define restricted call relations. This function is only available for administrators.



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Click on the page of call group, management group or relation group, the system will restore management group and relation group to their original status.

4.6.2.1 Configuring Call Group

Only devices in the same call group can call each other.

- A call group will be automatically generated after you add to the platform a VTO or access control device that supports intercom. All VTHs in the same unit will also be automatically added to the group. 2 VTHs or a VTH and VTO in the group can call each other.
- A call group will be automatically generated after you add a second confirmation station to the platform. Add the VTHs in the same house to the group, then the second confirmation station and the VTHs can call each other.
- A call group will be automatically generated after you add a fence station to the platform. All the VTHs on the platform will be automatically added to the group by default, then the fence station

and the VTHs can call each other. You can also click station can only call certain VTHs.

• After added to the platform, VTHs will be automatically added to corresponding groups if they are associated with VTOs, second confirmation stations, or fence stations, so that they can call each other.

4.6.2.2 Adding Manager Group

Divide administrators into different groups and link them to call groups in different combinations. This is useful when certain administrators can only answer calls from certain devices. Administrators include VTS and users with permissions to use the video intercom function and operate the devices. VTS will be automatically added to the default manager group after added.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Video Intercom**.
- <u>Step 2</u> Select Call Management > Manager Group Config.
- Step 3 Click +.
- <u>Step 4</u> Enter the group name, select an administrator account or VTS, and then click **OK**.

The added management group is displayed in the list.

 \square

- To transfer members, click and move the member to other groups.
- To manage group members, click 🗹 to add or delete group members.



| Figure 4-31 | Add | manager | group |
|-------------|-----|---------|-------|
|-------------|-----|---------|-------|

| Manager Group | | 22(1) | | | | |
|---------------|---------------------|-------|---|--------------|----|--------|
| C + | Add Manager Group | | | | | × |
| Search | * Group Name | | | | | |
| 22(1) | Management Group 1 | | | | | |
| | Control Permissions | | | Selected (1) | | Ť |
| | Search | Q | | system | e | • |
| | 🔽 Select All | | | | | |
| | 🗹 system | | | | | |
| | | | > | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | ОК | Cancel |

4.6.2.3 Configuring Relation Group

Link call groups and manager groups, and VTOs or VTHs in a call group can only call administrators or VTSs of a linked manager group. There are 2 types of relations:

• A call group links to 1 manager group.

All online administrators in the manager group will receive the call when any device is calling. If an administrator answers, it will stop ringing for other administrators. The call will only be rejected if all administrators reject it.

• A call group links to multiple manager groups.

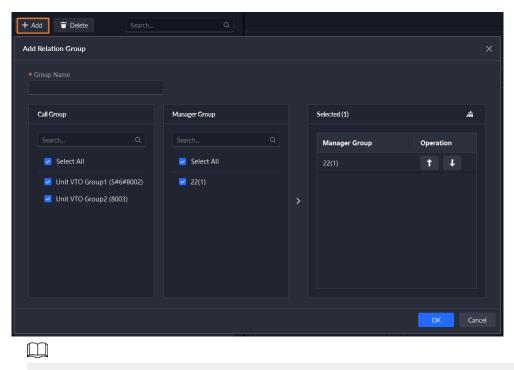
Priorities vary for different manager groups. When any device is calling, all online administrators in the manager group with the highest priority will receive the call first. If no one answers for 30 seconds, then the call will be forwarded to the manager group with the second highest priority. If still no one answers, the device will prompt that there is no response for the call.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Video Intercom**.
- <u>Step 2</u> Select Call Management > Relation Group Config.
- Step 3 Click +.
- <u>Step 4</u> Enter the group name, and then select one or more call groups and manager groups.



Figure 4-32 Add a relation group



Because only up to 2 manager groups can receive a call, we recommend you select no more than 2 manager groups.

Step 5 Click or Storadjust priorities of the manager groups, and then click **OK**.

The upper manager group has the higher priority.

4.6.3 Configuring Building/Unit

Make sure the status of building and unit of the DSS client is the same as the VTO. If building and unit are enabled on the platform, they must also be enabled on the device, and vice versa; otherwise, the VTO will be offline after it is added. That also affects the dialing rule. Take room 1001 unit 2 building 1 as an example, the dialing rule is as follows:

- If building is enabled while unit is not, the room number is "1#1001".
- If building is enabled, and unit is enabled as well, the room number is "1#2#1001".
- If building is not enabled, and unit is not enabled either, the room number is "1001".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Video Intercom**.
- Step 2 Click **Residence Config**.
- <u>Step 3</u> Enable or disable building and unit as required, and then click **OK**.

A

This configuration must be the same as the device configurations. Otherwise, information of the devices might be incorrect. For example, if only **Building** is enabled on a VTO, you must only enable **Building** on the platform.

Step 4 Click Save.



4.6.4 Synchronizing Contacts

Send room information to a VTO and then you can view it on the VTO or its webpage.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- <u>Step 2</u> Click **Contacts Sync**.
- <u>Step 3</u> Send room information.
 - Select a VTO, and then click of a room.
 - Select a VTO, and then click **Send Contacts** to send all or selected rooms.

Now you can view the room information on the VTO or its webpage. If any room cannot be sent, the reason will be provided.

Related Operations

After sending room information successfully, you can delete it from the VTO, then it will not be displayed on the VTO or its webpage anymore.

- Click 🛅 to delete one room at a time.
- Click **Delete Contacts** to delete all or selected rooms.

4.6.5 Setting Private Password

Set room door passwords so that the room door can be opened by entering password on the VTO (outdoor station).

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Make sure that contacts are sent to the VTO; otherwise you cannot set private password.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- Step 2 Click **Private Password**.
- <u>Step 3</u> Select a VTO, and then you can see all the VTHs linked to this VTO.
- <u>Step 4</u> Select a VTH and click \mathbb{P} , or select several VTHs and click **Change Password**.
- <u>Step 5</u> Enter password, and then click **OK**.

You can use the new password to unlock on the VTO.

Results

Use room number + private password to unlock the door. The room number consists of 6 digits. For example, a person who lives in 1001 with the private password of the VTO in the building being 123456, can enter **001001123456** to unlock the door.



4.6.6 App User

You can view information of App users, freeze user, modify login password and delete user.

Prerequisites

App users have registered by scanning the QR code on the VTH. For details, see the user manual of the App.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Video Intercom**.
- Step 2 Click **App Users**.

Table 4-22 Parameter description

| Operation | Description | | | |
|-----------------------------------|--|--|--|--|
| Freeze APP user | The App user cannot log in for 600 s after being frozen. | | | |
| | The account will be frozen when invalid password attempts exceeds 5 by an App user. | | | |
| Change APP user login password | Click 🙆, enter a new password on the Reset Password page, and then click OK . | | | |
| | The password must be 8 to 16 characters and include numbers and letters. Click to display password, or to mask password. | | | |
| Refresh the list of App users | Click Refresh to display the App users that recently registered. | | | |
| Delete APP user | Click to delete App users one by one, or select multiple App users, click Delete , and then follow the instructions to delete them. The users can no longer log in to the App. If a user is a homeowner, all App accounts in the corresponding room will be deleted, and all people in this room can no longer log in to the App. | | | |

4.7 Visitor Management

After visitor information is registered, the visitor can have access permission. Access permission is disabled after the visitor leaves.

4.7.1 Preparations

- Access control devices have been added to the platform.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations".
- Configure email server first if you want to send emails to the visitor. For details, see "7.3.4 Configuring Email Server".



• The host has been added to the platform, and the email address is filled in from \ge > Person and Vehicle Info > Person List > Persons > Add.

4.7.2 Configuring Visit Settings

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Visitor**.

<u>Orr</u>

You can also go to the **Visitor Config** page by selecting **Access Management** > **Visitor**, and then clicking at the lower-left side.

<u>Step 2</u> Configure the parameters.

| Parameter | Description |
|----------------------------------|---|
| Visitor Appointment Config | The platform administrator can configure visitor appointment information and send the link to visitors' emails or provide QR codes. Visitors can enter the link or scan the QR code to fill out their visitor information. After approval, visitors will receive an access pass via email. The system supports creating appointment by visitors (see "5.4.3.4.2 Creating Appointment by Visitors") and host invitation (see "5.4.3.4.3 Appointment Invited by Host"). |
| | Arrival and registration: Enable the function, and then select the channels as needed. Visitors with appointment can verify their identities on the selected channels without registering. Leave registration: |
| Visitor Registration | Enable the function, and then select the channels as needed. Visitors who are visiting can verify their identities on the selected channels to end their visits automatically. Set the visitor on-site notification time (10 am every day by default). When a visitor has not left after the visit time, the platform sends notifications to users with permissions of the visitor management menu |
| | to remind them of the number of visitors that overstayed. |
| Visitor Access Permission | Set the default access permissions for visitors. |
| Visitor Pass | Customize the content of remarks on a visitor pass. |
| Email Template | You can set an email template and automatically send emails when visitors make an appointment, arrive for their appointment, and end their visit. |
| | You can customize the email subject and content with the visitor information by entering information or selecting the fields such as Visitor Name and Visitor Company . |

Step 3 Click Save.



4.8 Parking Lot

Control vehicle entrance and exit control with the functions such as ANPR, alarm, and search. In case the vehicle is not recognized by the ANPR camera, visitors can use VTO to call the management center, and then the management center can remotely open the barriers after verifying the identity of the visitor.

4.8.1 Preparations

Make sure that the following preparations have been made:

- Devices, such as ANPR cameras, VTOs, are added to the platform.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding an ANPR camera, set **Device Category** to **Access ANPR Device**.

| ← Add Device | |
|------------------------|--------------------------|
| 1 Login Information | 2 Device Information |
| Login Information | |
| Add Mode | |
| IP Address V | Dahua v |
| Device Category (i) | IP Туре |
| ANPR Device ~ | |
| * IP Address | |
| | 37777 |
| * Username | |
| admin | ••••• |
| Organization | |
| Current Site ~ | 192. 100 V |

Figure 4-33 Set device category

After you have added ANPR cameras, you can bind video channels to their channels. This is useful when you have installed other cameras at the entrance to view and record videos of the entire scene, not just the vehicle. You can view video from the bound camera when checking the alarm details. For how to bind channels, see "3.1.3 Binding Resources".

- When adding an NVR, set **Device Category** to **Encoder**.
- Select Entrance ANPR from Features for the corresponding NVR channels.
- When adding VTO, set Device Category to Video Intercom.

Also, you need to add the information of people and assign them permissions so that they can use the VTO normally. For details, see "4.3 Personnel and Vehicle Management".

Ш

Make sure that the configuration of building and unit on the DSS client is the same as the device. If building and unit are enabled on the platform, they must also be enabled on the device, and vice versa. Otherwise, the VTO will be offline after being added. For details, see "4.6.3 Configuring Building/Unit".

Snapshots taken by ANPR cameras are stored in the **Images and Files** disks. You must configure at least one **Images and Files** disk so that snapshots of vehicles can be normally displayed. For details, see "3.3 Configuring Storage".



4.8.2 Configuring Parking Lot

A parking lot includes parking spaces, entrances and exits, barrier control rules and other information. Link an ANPR camera for recognizing license plates, and a VTO for verifying identities.

4.8.2.1 Basic Information

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Parking Lot** > **Parking Lot Configuration** > **Parking Lot Basic Config**.
- <u>Step 2</u> Click the root node, and then click +.

Only 1 main parking lot can be added.

<u>Step 3</u> Configure the basic information of the parking lot, and then click **Next Step**.

Table 4-24 Parameter description

| Parameter | Description |
|----------------------------------|--|
| Parking Lot Name | To differentiate from other parking lots. |
| Parking Lot Mode | Entrance and Exit Mode : The parking lot has access management. No Entrance and Exit Mode : Open parking area management. |
| Enable Parking Space Counting | Configure the total parking spaces and available ones. Total Parking Spaces: The total number of parking spaces in the parking lot. Available Parking Spaces: The number of parking spaces in the parking lot that are not in use. |



| Parameter | Description | |
|----------------------------------|--|--|
| | Enable Parking Space Counting should be enabled before configuring Reset Available Parking Space . | |
| | For reset type, you can select Reset to Total Parking Space , Auto Calculate Available Parking Spaces Based on Vehicles in Parking Lot and Reset to Specified Available Parking Spaces. | |
| Reset Available Parking Space | Reset to Total Parking Space : You can enable or disable the function of clearing vehicles in parking lot automatically. After enabling, the platform automatically clears the vehicles in the parking lot at the specified time and reset the available parking spaces to the total parking spaces. After disabling, the platform automatically reset the available parking spaces to the total parking spaces. | |
| | Auto Calculate Available Parking Spaces Based on Vehicles in Parking Lot : The available parking spaces will be automatically calculated based on the currently present vehicles. Reset to Specified Available Parking Spaces : you can configure the available spaces and the vehicles in the parking lot will not be cleared. Reset time: The default reset time is midnight each day. You can customize the reset time. | |



| First Character Rule 1 character added to the front of the plate number: It will still be considered as a match when an additional character is added to the plate number. For example, AB12345 is recognized as AAB12345. Missing the first character of the plate number: It will still be considered as a match when the first character is missing from the plate number. For example, AB12345 is recognized as B12345. Last Character Rule 1 character added to the end of the plate number: It will still be considered as a match when an additional character is added to the end of the plate number. For example, AB12345 is recognized as B12345. | Parameter | Description | |
|--|---|---|--|
| as AB123455. Fuzzy Match of Entrance & Exit Plate No. Snapshot Missing the last character of the plate number: It will still be considered as a match when the last character is missing from the plate number. For example, AB12345 is recognized as AB1234. Misread Character Rule: It will still be considered as a match if a character is recognized incorrectly, but the number of characters is correct. For example, AB12345 is recognized as AB12B45. When you enable multiple rules, the platform will check if each rule is satisfied. Only when one or more rules are satisfied will platform consider | Fuzzy Match of Entrance & Exit Plate | First Character Rule 1 character added to the front of the plate number: It will still be considered as a match when an additional character is added to the plate number. For example, AB12345 is recognized as AAB12345. Missing the first character of the plate number: It will still be considered as a match when the first character is missing from the plate number. For example, AB12345 is recognized as B12345. Last Character Rule 1 character added to the end of the plate number: It will still be considered as a match when an additional character is added to the end of the plate number: It will still be considered as a match when an additional character is added to the end of the plate number. For example, AB12345 is recognized as AB12345. Last Character added to the end of the plate number: It will still be considered as a match when an additional character is added to the end of the plate number. For example, AB12345 is recognized as AB123455. Missing the last character of the plate number: It will still be considered as a match when the last character is missing from the plate number. For example, AB12345 is recognized as AB12345. Misread Character Rule: It will still be considered as a match if a character is recognized incorrectly, but the number of characters is correct. For example, AB12345 is recognized as AB12845. When you enable multiple rules, the platform will check if each rule is satisfied. Only when one or more rules are satisfied will platform consider | |
| satisfied. Only when one or more rules are satisfied will platform consider it to be a match. For example, 1 character added to the front of the plate number, and missing the first character of the plate number are both enabled. When the plate number AB12345 is recognized as AAB12345, it satisfied 1 character added to the front of the plate number, but not missing the first character of the plate number. This will be considered as a match. If the plate number AB12345 is recognized as AB112345, it does not satisfy both rules. This will not be considered as a match. | | it to be a match. For example, 1 character added to the front of the plate number, and missing the first character of the plate number are both enabled. When the plate number AB12345 is recognized as AAB12345, it satisfied 1 character added to the front of the plate number, but not missing the first character of the plate number. This will be considered as a match. If the plate number AB12345 is recognized as AB112345, it does | |
| Auto overwrite when captured vehicle has not exitedIf a vehicle entered the parking lot but has not exited, a new entry record will be generated when the vehicle is recognized to have entered again. The original entry recorded will be changed to a forced exit record. | captured vehicle has | will be generated when the vehicle is recognized to have entered again. | |

 \square

The platform supports up to 4 entrances and exits.

- 1. Click Add Entrance and Exit Point.
- 2. Enter a name (for example, south gate), and then click OK.
- 3. Select a mode for the entrance point.
 - With Barrier : The platform controls the opening of the barrier based on the configured rules.
 - Without Barrier : There are no barriers. The platform only records passed vehicles. \square

When EVS or IVSS transparently transmits the images or videos of the events, it is recommended to select Without Barrier mode.

4. If there is an entrance point, click + in the **Entrance** section.



5. Enter a name for the point, select a capture mode, and then add a camera, video intercom device (optional).

If limited by the surroundings, you can install two cameras for this point, and then set **Capture Mode** to **Dual Camera** to improve the successful rate of recognition number plates.

In **Dual Camera** mode, the vehicles captured by the two cameras within the defined **Dual Camera Coordinative Time** will be considered as the same one. You must configure the time properly according to the installation positions of the cameras and the distance between them.

| Basic Info | |
|--|----------------------|
| * Entrance Name | |
| 999 | |
| License Plate Snapshot and I | Pasagnition |
| | Recognition |
| Capture Mode | |
| Single Camera | |
| Dual Camera Due to the need for collabora | ition between two ca |
| Entrance/Exit Camera | |
| | |
| | |
| + Add | |
| | |
| | |
| Information Display | |
| | |
| Video Intercom | |
| Video Intercom | |
| | |
| | |
| + Add | |
| | |
| | |

Figure 4-34 Entrance point configuration

6. If there is an exit point, click + in the **Exit** section, and then configure the parameters.

The parameters are similar to the ones in **Entrance**. For details, see the steps above.

- <u>Step 5</u> Configure the passing rules, and then click **Save and Exit**.
 - 1. Select a vehicle entrance rule, and then configure the parameters.



Table 4-25 Parameter description

| Parameter | Description |
|------------------------|---|
| Registered Vehicles | Allow Passage When Available Space is 0 : After enabled, vehicles are allowed to enter the parking lot even if there are no available parking space. |
| | Click 💶 to enable this function for an entrance point. |
| | This function is available only when parking space counting is enabled and the parking space counting mode is Count parking spaces by entering and exiting vehicles for the parking lot. |
| | All vehicles can enter the parking lot. |
| All Vehicles | Allow Passage When Available Space is 0 : After enabled, vehicles are allowed to enter the parking lot even if there are no available parking space. Allow Unlicensed Vehicles to Enter : Vehicles with no license plates can also enter the parking lot. Allow Vehicles on the Blocklist to Enter : Vehicles on the blocklist are also allowed to enter the parking lot. |



| Parameter | Description |
|-----------|---|
| Custom | You can customize the passing rule for the entrance. |
| | Registered Vehicles Access Rule |
| | Click Add , and then select By Parking Lot or By Point. |
| | By parking lot: The vehicle groups will be added to all entrance and exit points of the parking lot, and the vehicles in these group can enter and exit through any entrance or exit. |
| | By point: You can add different vehicle groups to different entrance or exit points. For example, vehicle group is added to East entrance but not South entrance, then the vehicles in the group can only enter the parking lot through East entrance. |
| | Click to enable Allow Passage When Available Space is 0, and then the vehicle groups will be synchronized. When the available space is 0, the vehicles in these added groups can enter and exit. All Vehicles : Select a default time template or create a new one, and then any vehicle can enter the parking lot within the specified duration. |
| | For how to create a new time template, see "3.1.5 Adding Time Template". Open Barrier by Verification : After enabled, the access permission of a vehicle must be verified, and then an administrator can manually open the barrier for it. If Open Barrier Directly by Card Swiping is also enabled, the driver can swipe a card, and then the barrier will automatically open if the can verify the driver to be the owner of the vehicle. Available Parking Space Counting |
| | • Count each vehicle as an occupied parking space : The number of |
| | parking spaces decreases after a vehicle enters. Count each unregistered vehicle as an occupied parking space : The number of parking spaces decreases only after vehicles that are not added to the vehicles groups of the current parking lot enter. Custom : Configure which vehicles in the vehicle groups will be used to calculate parking spaces. |

<u>0-11</u>

For how to configure vehicle groups, see "4.8.3 Managing Vehicle Group".

2. Select a vehicle exit rule, and then configure the parameters.

The parameters are similar to the ones in the entrance. See the previous step.

3. Enable **Send Plate No. to Devices**, and then add vehicle groups to the allowlist and blocklist.

Devices can use this information to determine which vehicles to let in when the platform is offline.

Related Operations

- 😧 Edit the passing rules of the parking lot.
- P: Edit the available parking space of the parking lot.



4.8.2.2 Event Parameter

Configure events for a parking lot so that you can receive notifications when alarms are triggered. **Procedure**

- <u>Step 1</u> Configure an event, and you need to select **Parking Lot** as the type of event source. For how to configure an event, see "4.1 Configuring Events".
- <u>Step 2</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Parking Lot** > **Parking Lot Configuration** > **Event Parameter Config**.
- <u>Step 3</u> Select a parking lot, the events that were configured will be displayed on the right.

Blocklist alarm will not be displayed because there are no additional parameters to be configured.

<u>Step 4</u> Click to configure an event.

Table 4-26 Parameter description

| Parameter | Description | |
|------------------------------------|---|--|
| Overtime Parking in Parking Lot | Overtime Parking Threshold : The unit is minute. Alarm will be triggered if a vehicle has parked for longer than the defined value. Detection Interval : How long the platform will check which vehicles have parked overtime. For example, select 5 minutes, then the platform will check whether there are vehicles that have parked overtime in the parking lot. If yes, then an alarm will be triggered. Vehicles to Trigger Alarms : All Vehicles : All vehicles will trigger alarms if they park overtime, but VIP vehicles are not included. If you enable Include VIP Vehicles, VIP vehicles will also trigger alarms when they park overtime. Non-registered Vehicle and Vehicle in the Blocklist : The vehicles whose information is not registered to the platform will trigger alarms when they park overtime. Custom : Enable Non-registered Vehicle, and then the vehicles whose information is not registered to the platform will trigger alarms when they park overtime; enable Registered Vehicle and add vehicle groups, and then the vehicles in these groups will trigger alarms when they park overtime. | |
| No Entry and Exit Record | No Entrance/Exit Record Duration : The unit is day. If a vehicle has not entered or exited the parking lot for longer than the defined duration, then an alarm will be triggered. Statistical Time Point : The platform will start calculating the duration of a vehicle that has not entered or exited the parking lot on the defined time. Entrance and Exit Vehicle Group of Interest : Only calculate the duration for the vehicles in the vehicle groups that are added. | |



4.8.3 Managing Vehicle Group

Add vehicles to different groups, so that you can quickly apply different parking lot functions to multiple vehicles at the same time. General, VIP, and blocklist are the default groups. If you need to use them, you can directly add vehicles to them.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Parking Lot** > **Vehicle Management** > **Vehicle Group**.
- Step 2 Click +.
- <u>Step 3</u> Enter a name, select a color for the group, and select the parking lot that the vehicle group belongs to.
- <u>Step 4</u> Click of a group, and click **Select from Vehicle List**, select the vehicles that you want to add to the group, and then click **OK**.
 - \square

Select **Vehicle List**, configure the search conditions and then the results will be displayed on the right. Click **Select from Vehicle List** to add vehicles.

Related Operations

Available Parking Spaces

- 1. Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Parking Lot** > **Vehicle Management** > .
- 2. Select a parking lot, and then click **Available Parking Spaces for Person** or **Available Parking Spaces for Vehicle Group** to display available parking space information.
- 3. Select a parking lot, and then click **Available Parking Spaces for Vehicle Group** to display available parking space information.
- 4. Click Add, and then configure the parameters of the available parking space.
- 5. Click **OK**.

4.9 Intelligent Analysis

Before using the people counting and scheduled report functions, you must configure them first.

- People counting: Create a people counting group and add multiple people counting rules from one or more devices to it. Then, you can view the real-time and historical number of people of the group.
- Scheduled report: Configure the when to send a report with historical people counting data, the email address to send the report to, and the content of the email.

4.9.1 People Counting Group

Create a people counting group, and then add multiple people counting rules from one or more devices. In Intelligent Analysis, you can view the real-time and historical number of people of the group.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Intelligent Analysis** > **People Counting Group Config**.
- <u>Step 2</u> Click + at the upper-left corner.



<u>Step 3</u> Configure the parameters, and then click **Add**.

Figure 4-35 Add a people counting group

| * People Counting Group Name Hall People Counting Pass No. | nfo Number of People |
|---|--------------------------------|
| | |
| Limit Number of People | |
| Rule Select Rule (0-20) Selected (0) Rule Name Channel Name Operation | |

Table 4-27 Parameter description

| Parameter | Description |
|---|--|
| People Counting Group Name | Name of the people counting group. |
| Pass No. | The calibration time can only be configured on the hour. It is the start of |
| Calibrate Number of People Staying Everyday | a counting cycle. After Pass No. is enabled, the number of people pass by will be displayed. The value will be set to 0 every day on the calibration time |
| Calibration Time | by default. |
| Calibrated Number of People | The number of people entered but did not exit will be set to the defined value every day on the calibration time. |
| Limit Number of People | When enabled, you can configure the crowd and overlimit thresholds of |
| Overlimit Threshold | the people in the group. If an alarm is configured at the same time, alarms will be triggered when the number of people reach the thresholds. For details, see "4.1 Configuring Events". |
| Crowd Threshold | When the number of people in the group reaches the defined overlimit threshold, the light will turn red. When the number of people in the group reaches the defined crowd threshold but smaller than the overlimit threshold, the light will turn yellow. |
| Rule | Select the devices whose people counting rules you want to include in the group, and then their data will be combined together. |



4.9.2 Scheduled Report

Historical data will be sent on a regular basis to one or more email address that you set on the scheduled time.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Intelligent Analysis** > **Scheduled Report Config**.
- <u>Step 2</u> Configure one or more types of report.
 - Daily report: Data from yesterday will be sent to your email at a defined time. If set to 03:00:00, the data from the day before (00:00:00–23:59:59) will be sent to your email at 03:00:00 every day.
 - Weekly report: Data from last week will be sent to your email at a defined time. If set to 03:00:00 on Wednesday, the data from Wednesday to Tuesday of each week will be sent to your email at 03:00:00 every Wednesday.
 - Monthly report: Data from last month will be sent to your email at a defined time. If set to 03:00:00 on 3rd, the data from 3rd of last month to 2nd of the current month will be sent to your email at 03:00:00 on 3rd of each month.
- <u>Step 3</u> Configure one or more email addresses to send the report to, and the content of the email.
 - 1. Click to select the users that have been configured email addresses, or enter an email address, and then press Enter.

Figure 4-36 Invalid email address, you must press Enter

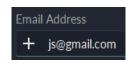
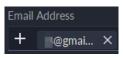


Figure 4-37 Valid email address



2. Configure the content of the email.

<u>Step 4</u> Send the report.

- Click **Send Now** to immediately send the report that you configured.
- Click **Save**, and then the report will be sent at the defined time.



5 Businesses Operation

5.1 Monitoring Center

The monitoring center provides integrated real-time monitoring applications for scenarios such as CCTV center. The platform supports live video, license plate recognition, target detection, access control, emap, snapshots, events, video playback, video wall, and more.

5.1.1 Main Page

Provides frequently used functions such as video, event and alarm.

Log in to the DSS Client. On the **Home** page, click **H**, and then select **Monitoring Center**.

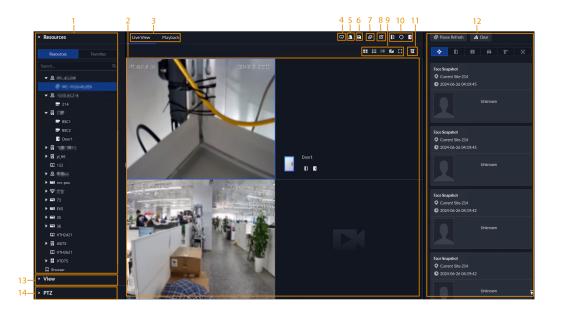


Figure 5-1 Monitoring center

Table 5-1 Page description

| No. | Parameter | Description |
|-----|------------------------------|--|
| 1 | Favorites and device tree | List of resources including devices, browser, and maps. You can search for a device or channel in the search field. Fuzzy search is supported so that you can simply enter part of the name and then select the exact one from the provided name list. Add, delete or rename the favorites. You can also tour the channels in favorites. |
| 2 | Real-time videos | Drag a channel to the windows and view its real-time video. |
| 3 | Live view and playback | Live view: View real-time videos. Playback: View recorded videos. For details, see Playback. |



| No. | Parameter | Description | |
|-----|--------------------------------------|---|--|
| 4 | Push videos to a video wall | Real-time videos that are currently opened can be quickly displayed on a video wall. You must configure a video wall before using this function. For details, see "5.1.5 Video Wall". | |
| | | Set all windows as alarm windows. | |
| 5 | Set alarm windows in batches | After selecting "Open alarm linkage video in live view" in Local Settings > Alarm , then the alarm videos will be displayed on the alarm windows. If the number of alarm windows is less than that of linkage videos, the video linked to the earliest-triggered alarm will be opened. | |
| 6 | Save view | Save all the channels or websites that are opened in to a view so that you can quickly open all of them later. For details, see View. | |
| 7 | Close all windows | Close all windows in live view. | |
| 8 | Search for targets in the video | The platform supports manually selecting targets in the video, and then quickly searching for them in DeepXplore. For details, see Viewing Live Video. | |
| | | • Set a window split mode. Supports 1, 4, 6, 8, 9, 13, 16, 20, 25, 36 or 64 splits, or click to set a customized split mode. | |
| 9 | Window split mode and full screen | If the live-view channel number is more than the number of current windows, then you can turn page(s) by clicking the buttons on the top of the page. Switch the video window to Full Screen mode. To exit Full Screen, you can press the Esc key or right-click on the video and select Exit Full Screen. | |
| 10 | Control doors | For a door channel, you can configure its mode, including normally open and closed modes, and restoring it to the normal status. After restoring it to the normal status, people must verify their identifications to pass within defined periods. | |
| 11 | Event panel button | Display or hide the event panel. | |
| | | Displays events from channels that you are viewing live videos from. You can: | |
| 12 | Events | Click different tabs to display only that type of events. Click different tabs to display only that type of events. Click to go to the top of the list to view the latest events. | |
| 13 | View | Save the current view of window split and video channels in the live view section, and name the view. You can directly select the view from the View tab to display it quickly next time. Channels under a view or view group can be displayed by tour (in turn). You can set the tour interval to be 10 s, 30 s, 1 min, 2 min, 5 min or 10 min. Maximum 100 views can be created. | |



| No | 0. | Parameter | Description |
|----|----|-----------|--|
| 14 | ł | | If the channel you are viewing live video from is of a PTZ camera, you can control it through the control panel. For details, see PTZ. |

5.1.2 Video Monitoring

View live videos. For ANPR and face cameras, you can view information of ANPR, face detection and face recognition. For video metadata cameras, you can view metadata information.

5.1.2.1 Viewing Live Video

View the live video of connected devices.

\square

This section only introduces viewing live video. For map live view, see "4.2 Configuring Map".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring Center** > **Monitoring**.
- <u>Step 2</u> Click **Live View** tab.
- <u>Step 3</u> View real-time video.

You can view live video in the following ways:

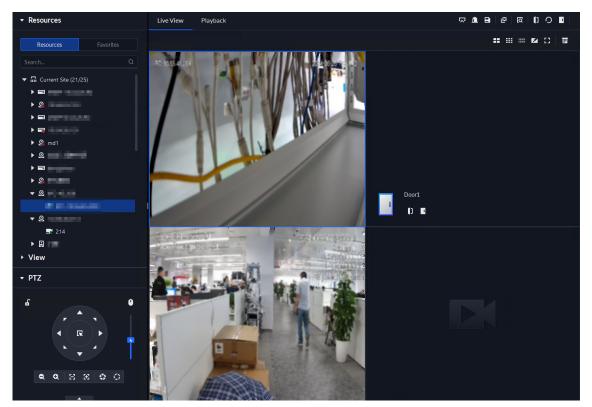
- Double-click a channel or drag the channel from the device list on the left to one window on the right.
- Double-click a device to view all channels under the device.
- Right-click a node, select **Tour**, and then set tour interval. The channels under this node will play in turn according to the defined interval.
 - If the number of splits in the window is more than the number of online channels, video of all channels will be displayed in the window. Otherwise, double-click the

root node, and then click (1/32) on the top of the page to turn pages.

Close the on-going tour before starting live view.



Figure 5-2 Live view



<u>Step 4</u> You can perform the following operations during live view.

• Display intelligent snapshots.

When viewing live video of face detection cameras, face recognition cameras, ANPR cameras, or target detection cameras, right-click the monitoring image, and then select **Start Picture Overlay**. The snapshot will be displayed on the upper-right corner of the live window. If no more images are captured, a snapshot will be displayed up to 5 s by default, and it will disappear after 5 s.

Point to the live window, and then select type of images to be displayed.

• Point to the video window, and then you can see the shortcut menu on the upperright corner.



Figure 5-3 Live window

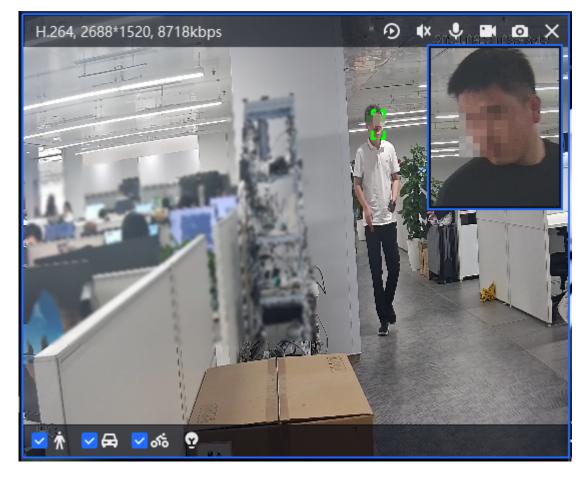


Table 5-2 Parameter description

| lcon | Name | Description |
|------------|------------------------|---|
| Э | Instant playback | Open/close instant playback. |
| | | Open/close audio. |
| ≇ × | Audio | The audio is not enabled by default. To enable the audio function, you need to add the video sound permission on the role management page. |
| | Audio communication | Start two-way audio with the device the channel belongs to. |
| | | The audio communication is not enabled by default. To enable this function, you need to add the audio talk permission on the role management page. |
| | Local record | Click it, and then the system begins to record local file and you can view the record time on the upper left. Click again, and then system stops recording and saves the file to your PC. The recorded video is saved to\DSS\DSS Client\Record by default. To change the storage path, see "8.3.5 Configure File Storage Settings". |



| lcon | Name | Description |
|------|----------|---|
| 0 | Snapshot | Take a snapshot. The snapshots are saved to\DSS\DSS Client \Picture by default. To change the snapshot storage path, see "8.3.5 Configure File Storage Settings". |
| × | Close | Close the video. |

Sleep function is supported for IPCs that use 4G mobile network to communicate and are solar-powered.

- \diamond When the device is asleep, you can click $\textcircled{\begin{tmatrix} \bullet \end{tmatrix}}$ to wake it up.
- The device will regularly request to sleep to save battery. When you are viewing its live video, the device will request to sleep every 2 minutes. When you are not viewing its live video, the device will request to sleep every 1 minute. You can accept or reject so that you can continue to watch live video. When rejecting the request, you can choose whether to delay the next request from the device.
- Right-click the live video, and then the shortcut menu is displayed.

The menu varies depending on the functions supported by the device you are operating on.

| Parameters | Description | |
|------------------------|--|--|
| Audio Input Selection | If the camera has more than one audio input channels, you can select one or select the mixed audio. This configuration is effective with both live view and playback. | |
| Start Remote Recording | Record the audio and video in the current window. If a channel already has a center recording plan, you cannot start remote recording. If a video storage disk is configured on the platform, the videos will be saved to the platform server. | |
| Continuous Snapshot | Take snapshots of the current image (three snapshots each time by default). The snapshots are saved to\DSS\DSS Client\Picture by default. To change the snapshot storage path, see "8.3.5 Configure File Storage Settings". | |
| Stream Type | Select stream type as required. Generally, main stream requires the most bandwidth, and sub stream 2 the least. The smaller the bandwidth is required by the stream, the smoother the video image. | |
| Play Mode | Real-Time Priority: The video is in real-time, but video quality might be reduced. Fluency Priority: The video is fluent, but video lagging might occur. Balance Priority: Real-time priority or fluency priority, depending on actual conditions. Custom: Configure the video buffer time from Local Settings > Video. The larger the value, the more stable the video quality. | |
| Video Adjustment | Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement. | |

Table 5-3 Description



| Parameters | Description |
|-------------------------|--|
| Digital Zoom | Click it, and then click and hold the video image to zoom in on the image. Right-click the image, and then select Digital Zoom again to exit zooming in. |
| Window Mode | Divide one window into 2 (1+1 mode), 4 (1+3 mode), and 6 (1+5 mode). One window will play the real-time video, and the others play different defined areas of the real-time video. |
| | If a device supports target tracking, you can enable this function in any window mode, the windows that play defined areas of the real- time video will follow the target when detected, until it disappears. |
| Al Overlay | Displays rule lines, bounding box on targets, and detection area for intelligent rules, except for motion detection. After enabled, the configuration will be saved, and only works on the current channel in the live view and playback. |
| | Al overlay information is not displayed by default. |
| SMD Overlay | Displays the bounding box on targets. After enabled, the configuration will be saved, and only works on the current channel in the live view and playback. |
| Disable Privacy Masking | For a camera that supports privacy masking of human face, you can disable the masking here to view the face image. |
| Alarm Output Control | Turn on or turn off alarm output channels. |
| Audio and Light Control | You can turn on or off the audio and light channels one by one or at the same time. |
| Device Intercom | For channels added through NVR, XVR/DVR, IVSS or EVS, you can select this option to talk to the NVR, XVR/DVR, IVSS or EVS. |
| Add to Favorite | You can add the active channel or all channels into Favorite. |
| Set as Alarm Window | When selecting open alarm linkage video In Preview (in live window) from Local Settings > Alarm , then the video will be displayed on the window which is set to alarm window. If multiple alarms are triggered, the video linked to the latest alarm will be opened. If the number of alarm windows is fewer than the number of linkage videos, the video linked to the earliest-triggered alarm will be opened. After enabling Set as Alarm Window , the window frame is displayed in red. |
| | |
| | This function is available on fisheye cameras only. When changing the video stream, the fisheye view mode will maintain the current configuration. |
| Fisheye View | According to different installation methods, the fisheye view can be varied. |
| | In-ceiling mount: 1P+1, 2P, 1+2, 1+3, 1+4, 1P+6, 1+8. Wall mount: 1P, 1P+3, 1P+4, 1P+8. |
| | ◇ Ground mount: 1P+1, 2P, 1+3, 1+4, 1P+6, 1+8. |



- To view real-time temperature of a point on the thermal camera view, hover over that point.
- If a channel supports electronic focus, you can enable electronic focus for it on the platform to adjust video definition and size.

The page might vary according to the lens types of cameras. Lens types include embedded zoom lens and external CS electronic lens. The following figure is for reference only.

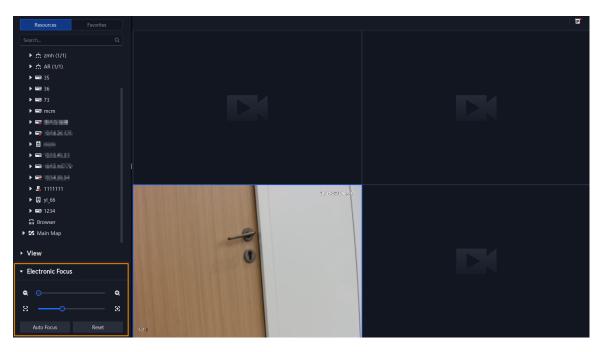


Figure 5-4 Live view

Table 5-4 Description

| Parameters | Description |
|--|---|
| Zoom // (for | Zoom in/out. |
| Zoom +/- (for embedded zoom lens) | Click or click and hold \square or \square , or drag the slider \square to the left or right to zoom in/out. |
| | Adjust camera focus to achieve the best video definition. |
| Focus +/- | Click or click and hold $oxdot$ or $oxdot$, or drag the slider $oxdot$ to the left or right to adjust focus. |
| Auto Focusing (for embedded zoom lens) | Adjust image definition automatically. |
| ABF (auto back | |
| focusing, for external CS electronic lens) | Other focusing operations are unavailable during auto focusing. |
| Reset | When image definition is imperfect, or after many times of zooming or focusing operations, you can click Reset to reset the lens, so as to eliminate lens deviation. |

Tour



On the live view page, right-click a device or node, select **Tour**, and then select an interval. The channels under this device or node will be played in turn at the predefined interval. You can also customize the interval.

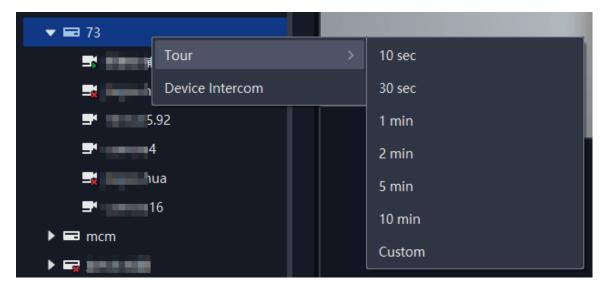


Figure 5-5 Start tour

- To view remaining time of a channel during tour, check and the second sec
- ♦ To pause, click .
- ♦ To exit tour play, click ¹
- Region of interest (Rol)

A window can be divided into 4 or 6 regions during live view. One area is used to play live video and other regions are used to zoom in regional image.

On the live view page, right-click the window, select **Window Mode**, and then select a mode. For example, select a 1+3 mode.

 \square

To exit the **Window Mode**, right-click the window and then select oxdot.

Figure 5-6 Split mode

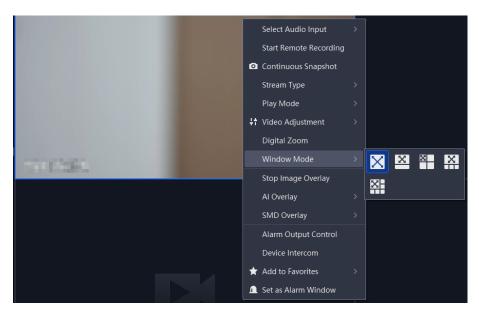
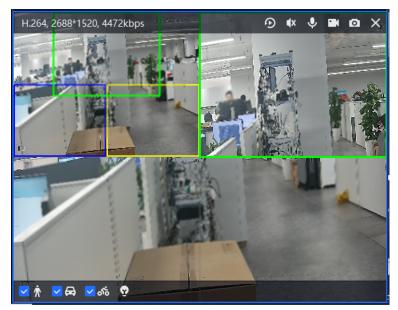


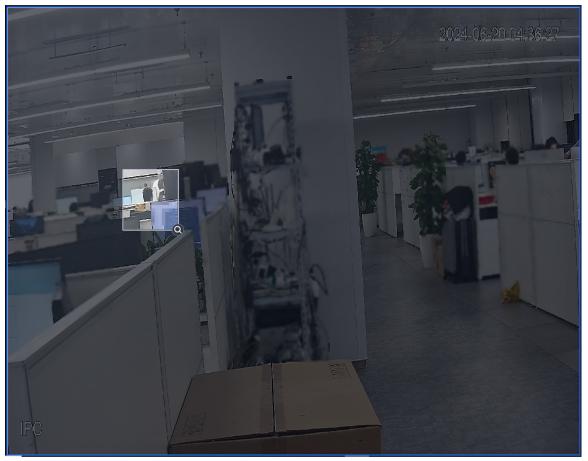


Figure 5-7 1+3 mode



• Search for targets in the video.

Click on the upper-right corner to select and search for the target in DeepXplore. Figure 5-8 Select a target



• View real-time events.



Click 🔳 to open the event panel, which displays the real-time alarm events of opened channels.

- ♦ Click the event type on the top of the event panel to view the corresponding event.
- Click event record to view the snapshot. Video playback is also supported.
 Operations related to different events might be different.
- \diamond Click $\stackrel{\bullet}{=}$ to clear the events in the event panel.
- ♦ Click To quickly view the latest events.
- Wiew the recorded video of the event.
- ◊ IO: Go to DeepXplore to search for the target.
- It is function is only available when a license plate is recognized. Click this icon to add the vehicle to an arming group. After you send the group to devices and configure an event, devices can trigger alarms when the vehicle is recognized.
- ◊ I control
 ♦ Add the vehicle to the platform.
- Add the person to the platform.
- Add the face to an arming group. After you send the group to devices and configure an event, devices can trigger alarms when the face is recognized.
- Remotely unlock the door.

When viewing the access control channel, you can remotely control the status of the door on the upper-right corner: Normally open (1), normally closed (1), or normal status (2). You need to enter the login password of the current user before operation. Restore the door to normal status first, and then the door can be opened and closed according to defined period or through face recognition.

In the video window of the access control channel, you can remotely lock or unlock the door.

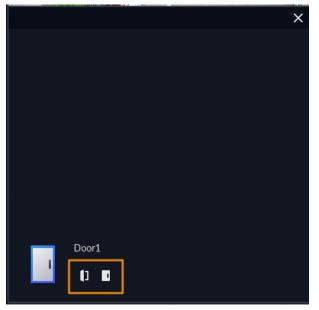


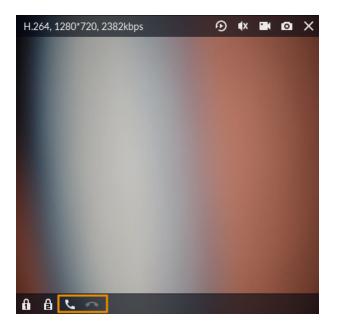
Figure 5-9 Lock/unlock the door

• Video intercom.

When viewing the video intercom channel, you can answer or hang up the call.



Figure 5-10 Video intercom



5.1.2.2 View

The current layout and resources can be saved as a view to be quickly played next time.

Views can be categorized as public views and private views. Only administrators are allowed to configure public views, and the users specified by them can access certain public views. Private views are configured and owned by users themselves. They can share private views with other users.

Views are categorized into different groups, which include three levels: First-level root node, second-level grouping and third-level view. Tour is supported for first-level root node and second-level grouping. The tour time can be 10 seconds, 30 seconds, 1 minutes, 2 minutes, 5 minutes, 10 minutes, or customized (5 seconds–120 minutes). You can create up to 1000 views.

5.1.2.2.1 Creating a Public View Group

Public view groups are used to organize public views. There is the default root group of the Public View. You can only create one level of sub groups. Only administrators are allowed to create public view groups.

Background Information

By default, all users are allowed to access **Public View** and its views. If you want to control access, create groups that can be accessed by specified roles and their users, and save views to the groups.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring Center** > **Monitoring**.

- Step 2 Click View.
- Step 3 Right-click **Public View**, and then select **Create View Group**.
- <u>Step 4</u> Enter a name for the group, and then select the roles that are allowed to access this group.

Click to view the users of a selected role.



Step 5 Click OK.

5.1.2.2.2 Creating a Private View Group

Private view groups are used to organize private views. There is the default group of the Private View. You can only create one level of sub groups. Private views are configured and owned by users themselves. They can share private views with other users.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring Center** > **Monitoring**.
- Step 2 Click **View**.
- Step 3 Right-click **Private View**, and then select **Create View Group**.
- <u>Step 4</u> Enter a name for the group, and then click **OK**.

5.1.2.2.3 Creating a View

Views are categorized into public or private view groups. They are used to quickly apply different resources and settings. For example, a view can contain the configurations of multiple live video, split mode, alarm windows, and more. When you open the view, these configurations will be applied at the same time, and you do not need to configure them again.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring Center** > **Monitoring**.
- <u>Step 2</u> Configure the split mode, and then drag channels, maps, and the browser to the windows.
- <u>Step 3</u> Click on the upper-right corner to save the current layout.
- <u>Step 4</u> Configure the parameters, and then click **OK**.

Table 5-5 Parameter description

| Parameter | Description |
|------------|---|
| View Type | Select a type for the view. Only administrators can create a public view. |
| | If the view is saved to Public View , all users can access it. |
| View Name | Enter a name for the view. It can be the same as other groups or views. |
| View Group | Select a group for the view based on its type. |

5.1.2.2.4 Updating a View

When you need to change the resources or settings in a view, you can update them directly without creating a view.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square , and then click **Monitoring Center** > **Monitoring**.
- Step 2 Click View.
- <u>Step 3</u> Double-click or drag a view to a window to open it.



- <u>Step 4</u> Change the resources or settings, such as the split mode, number of channels and alarm windows, and the locations of the channels.
- <u>Step 5</u> Click on the upper-right corner to update the view.

5.1.2.2.5 Viewing a View

• Live view

Double-click or drag a view to a window to view its resources.

• Tour

Right-click a view group, select **Tour** and set the tour period.

- ◇ To view remaining time for a view, check ² ²⁰⁰⁵.
- ♦ To pause, click .
- ♦ To exit tour, click

5.1.2.2.6 Sharing a Private View

Privates views can be shared with other users.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring Center** > **Monitoring**.
- Step 2 Click View.
- <u>Step 3</u> Right-click a view, and then select **Share View**.
- <u>Step 4</u> Select a user and enter a message in remarks, and then click **OK**.

The view will be saved to **Private View** of the user.

 \square

It will fail to share if the user's view groups or views reach the limit. You can share again after the user deletes a group or view.

5.1.2.2.7 Related Operations

• Change the group a view belongs to

Drag a view to other groups. You can only do so for private views. You cannot drag a private view to a public view group, or a public view to a private view group.

• View the details of a public view group or a view

Right-click a public view group, and then select **View Details** to check the roles and users that are allowed to access it.

Right-click a public view group, and then select **Resources Details** to check the information of the channels, including the name, type, and organization.

- Edit the information of a public view group
 - Right-click a public view group, and then select **Edit** to change its name and the roles and users that are allowed to access it.
- Rename a view

Right-click a view, and then select **Rename** to change its name.

Delete a group or view



Right-click a group or view, and then select **Delete** to delete it. If there are multiple views in the group, they will also be deleted.

5.1.2.3 Favorites

Add frequently used channels to favorites so that you can quickly locate and use them. You can also share your favorites with other users.

5.1.2.3.1 Creating Favorites Folder

Each user can create up to 999 favorites folders. The number of channels in all favorites folders can be up to 2,000.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square , and then select **Monitoring**.
- Step 2 Click **Favorites**.
- <u>Step 3</u> Click a folder and click ±, or right-click a folder and select **Add a Favorites**.
- <u>Step 4</u> Select a parent node, enter a name for the folder, select the channels to be added to the folder, and then click **OK**.

The favorites folder is added as a sub folder under the parent node you selected. The maximum level of a favorites folder can be up to 10.

5.1.2.3.2 Editing or Deleting Favorites Folder

Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring** > **Favorites**.

- Edit a folder: Click a folder and click , or right-click a folder and select **Edit**, and then you can edit the name and channels of the folder.
- Delete a folder: Click a folder and click , or right-click a folder and select **Delete**, and then you can delete the folder, its sub folders and all channels.

You can also right-click a channel and select **Delete** to remove it from a folder.

5.1.2.3.3 Sharing Favorites Folder

You can share a folder and its channels with other users. For permission control, if users have permission to access certain channels, or do not have any permission to access the channels, they will receive a folder with only the channels they have permission to, or an empty folder.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring**.
- Step 2 Click Favorites.
- <u>Step 3</u> Right-click a folder, and then select **Share the Favorites**.
- <u>Step 4</u> Select one or more users, and then click **OK**.

The folder, its sub folders, and all the channels will be shared with the users you selected. But if any of the follow situation occurs with the users you are sharing with, this operation will fail:

- They have more than 999 folders.
- They have 2,000 channels in all folders.
- The levels of their folders have reached 10.



5.1.2.3.4 Viewing Favorites Folder

• Live view

On the **Monitoring** page, and then click **Favorites** to open list of favorites folders. Double-click or drag a folder or channel to the window on the right to view live videos.

• Tour

On the **Monitoring** page, and then click **Favorites** to open list of favorites folders. Right-click a folder and select **Tour**, and then select a duration. The platform plays live videos of all the channels in the folder and its sub folders in a loop.

- ◇ To view remaining time of a channel during tour, click [▲] ^{∞∞5}.
- ♦ To pause, click .
- ♦ To exit tour play, click <a>
 .

5.1.2.4 PTZ

Operate PTZ cameras during live view on the DSS Client.

Background Information

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If you want to configure PTZ control, you need to add **PTZ Operation and Configuration** permission on role management page. If you want to call the PTZ functions, you need to add **PTZ Operation** permission on the role management page.

5.1.2.4.1 Configuring Preset

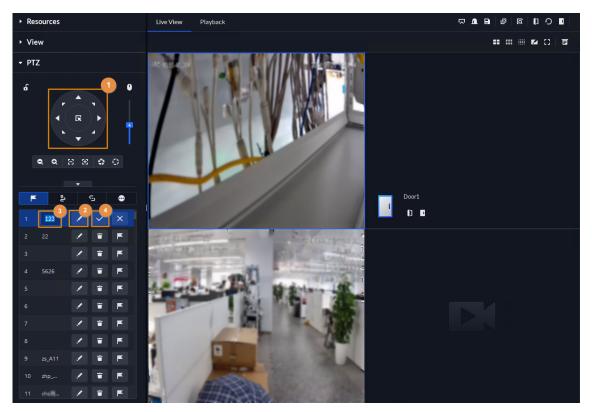
A preset is a set of parameters involving PTZ direction and focus. By calling a preset, you can quickly rotate the camera to the pre-defined position.

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click .
- Step 3 Click **F**.
- <u>Step 4</u> Add a preset.
 - 1. Rotate the PTZ camera to a specific point.
 - 2. Click *s*, enter the preset name, and then click *s*.



Figure 5-11 Add a preset



Related Operations

Call a preset: Click **F** of a specific preset, and then camera will rotate to the related position.

5.1.2.4.2 Configuring Tour

Set the tour parameters so that a camera can go back and forth among different presets. Set tour to enable camera to automatically go back and forth between different presets.

Prerequisites

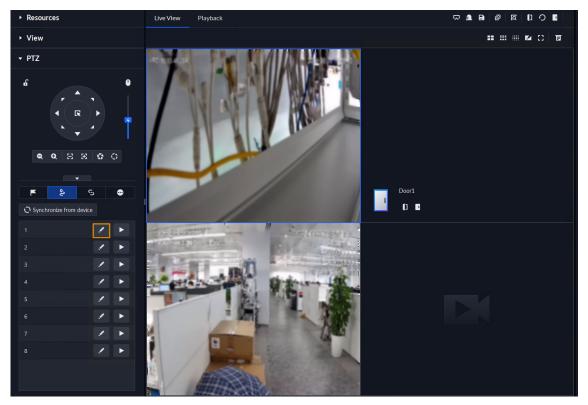
You have added at least 2 presets.

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click
- <u>Step 3</u> Click 온.
- Step 4 Click 🗹.

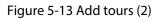


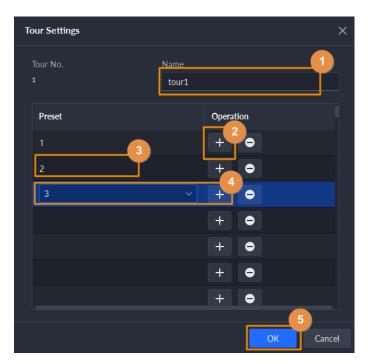
Figure 5-12 Add tours



Step 5 Add tours.

- 1. Enter tour name, and click +.
- 2. Select a preset from the drop-down list on the left.
- 3. Repeat the previous 2 steps to add more presets.
- 4. Click **OK**.







Related Operations

To start tour, click **b**, then camera goes back and forth among the presets.

5.1.2.4.3 Configuring Pattern

A pattern is a record of a consecutive series of PTZ operations. You can select a pattern to repeat the corresponding operations quickly. See pattern configuration instructions as follows.

Procedure

<u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.

Step 2 Click

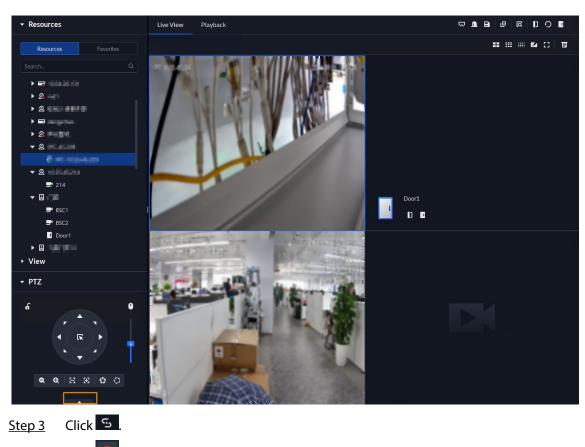
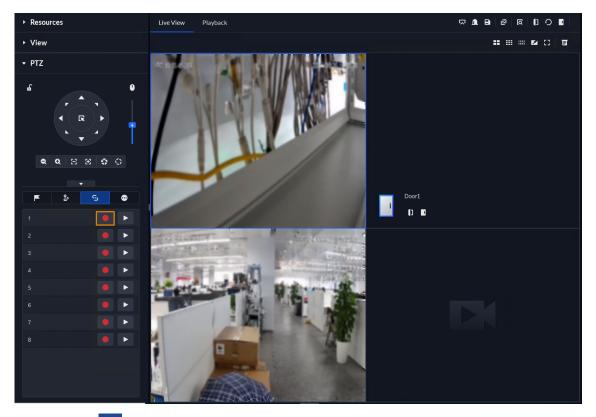


Figure 5-14 Go to PTZ control panel

<u>Step 4</u> Click Cli



Figure 5-15 Set pattern



Step 5 Click

Related Operations

Call pattern: Click , and then the camera will automatically repeat the pattern that you have configured.

5.1.2.4.4 Configuring Scan

The camera automatically scans horizontally at a certain speed.

Procedure

<u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.

Step 2 Click •



Figure 5-16 Go to PTZ control panel

| Resources Favorites | | | E |
|---------------------|----------------------------|-------------|---|
| | H.264, 2560*1440, 2432kbps | ⊙ w ♦ B o × | |
| | | | |
| | | | |
| ► 🖻 mcm | | | |
| | | | |
| | | | |
| | | | |
| ▶ 🖳 1111111 | | | |
| ▶ 🗄 yl_66 | | | |
| ▶ 🖬 1234 | | | |
| 🕨 🕺 radar | | | |
| ▶ 📼 cxx_84 | | | |
| Browser | ✓ ★ ✓ ★ | | |
| Main Map | | | |
| ► View | | | |
| ▼ PTZ | | | |
| | | | |

Step 3 Click 🔍

- <u>Step 4</u> Click PTZ button, and rotate PTZ to the left to a position, and then click to set the left boundary.
- <u>Step 5</u> Continue to rotate PTZ to the right to a position, and then click ≥ to set the right boundary.
- <u>Step 6</u> Click ≥ to start scanning, then PTZ will rotate back and forth automatically within the two boundaries.

5.1.2.4.5 Enabling/Disabling Pan

On the **Monitoring Center** page, open the video of a PTZ camera. Click , and then click . PTZ rotates 360° at a specified speed. Click to stop camera rotation.

5.1.2.4.6 Enabling/Disabling Wiper

Enable/disable the PTZ camera wiper. Make sure that the camera supports wiper function.

On the **Monitoring Center** page, open the video of a PTZ camera. Click , and then click to turn on wiper. Click to turn off wiper.

5.1.2.4.7 Enabling/Disabling Light

Turn on/off camera light. Make sure that the camera supports light.

On the **Monitoring Center** page, open the video of a PTZ camera. Click , and then click to turn on light. After enabling light, click to turn off light.

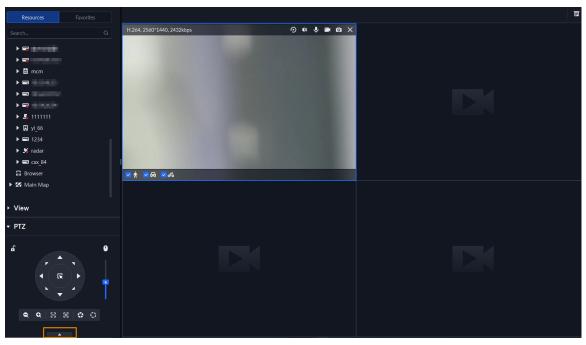


5.1.2.4.8 Configuring Custom Command

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click .

Figure 5-17 Go to PTZ control



<u>Step 3</u> Enter your command in the **Command** box.

Figure 5-18 Custom command



<u>Step 4</u> Click ► to show the command functions.

5.1.2.4.9 PTZ Menu

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click



Figure 5-19 Go to PTZ control panel

| Resources Favorites | | E |
|---|------------------------------------|---|
| Search Q | H.264, 2560°1440, 2432kbps 🕥 🗱 🖉 🗙 | |
| | | |
| | | |
| ▶ 🗎 mcm | | |
| | | |
| | | |
| | | |
| ▶ 🖳 1111111 | | |
| ▶ 🛃 yl_66 ▶ 📼 1234 | | |
| I234 I234 radar | | |
| ► == cxx_84 | | |
| - Browser | <mark>⊠ ∱ ⊠⊖ ∞</mark> os | |
| 🕨 🌠 Main Map | | |
| I | | |
| ▶ View | | |
| ▪ PTZ | | |
| ő (R) | | |
| e e 8 8 0 0 | | |

- Step 3 Click .
- Step 4 Click 🔼
- <u>Step 5</u> Use the panel to go to the menu configuration page.

Figure 5-20 Go to PTZ menu configuration page

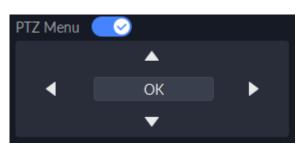


Table 5-6 PTZ menu description

| Parameters | Description |
|-------------|---|
| | Up/down. |
| ◄ /► | Left/right. Point to set parameters. |
| | Click Contended to enable PTZ menu function. System displays main menu on the monitor window. |
| | Click 💽 to close PTZ menu function. |
| ок | It is the confirm button. It has the following functions. If the main menu has the sub-menu, click OK to enter the sub-menu. Point to Back and then click OK to go to go back to the previous menu. Point to Exit and then click OK to exit the menu. |



| Parameters | Description |
|------------|--|
| Camera | Point to Camera and then click OK to enter camera settings sub-menu page. Set camera parameters. It includes picture, exposure, backlight, day/night mode, focus and zoom, defog, and default. |
| PTZ | Point to PTZ and then click OK to go to PTZ sub-menu page. Set PTZ functions. It includes preset, tour, scan, pattern, rotation, PTZ restart, and more. |
| System | Point to System and then click OK to go to system sub-menu page. Set PTZ simulator, restore camera default settings, video camera software version and PTZ version. |
| Return | Point to the Return and then click OK to go back to the previous menu. |
| Exit | Point to the Exit and then click OK to exit PTZ menu. |

5.1.2.5 Fisheye-PTZ Smart Track

Link a PTZ camera to a fisheye camera so that when the fisheye camera detects a target, the PTZ camera automatically rotates to it and track.

5.1.2.5.1 Preparations

Make sure the following preparations have been completed:

- Fisheye camera and PTZ camera are well deployed. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations".
 - ♦ When adding cameras, select **Encoder** from **Device Category**.
 - The Features of a fisheye camera is set to Fisheye. For details, see "3.1.2.5.2 Modifying Device Information".

Figure 5-21 Set the feature to Fisheye

| Basic Info | Video Channel | | | | | | |
|---------------|---------------|------------------|---------------|----------|---------------|-----------|--|
| Video Channel | | | | | | | |
| | | | | | | | |
| | Channel No. | Channel Name | Camera Type | Features | Keyboard Code | Operation | |
| | | 1010 | Bullet Camera | Fisheye | | i i | |
| | | IP PTZ Camera-61 | Bullet Camera | Fisheye | | | |
| | | | | | | | |

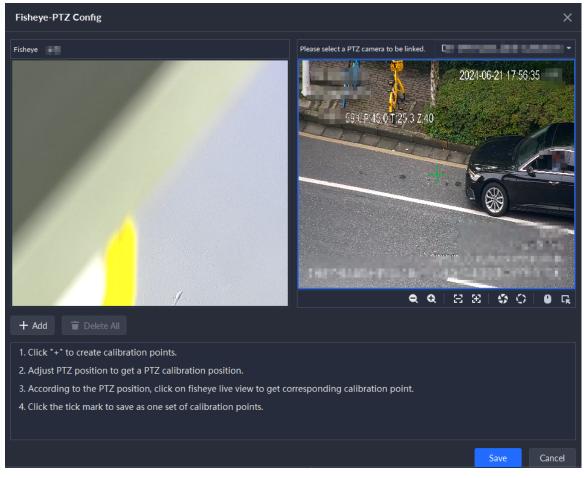
5.1.2.5.2 Configuring Fisheye-PTZ Smart Track

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then click **Monitoring Center**.
- Step 2 Click .
- <u>Step 3</u> In the device tree on the left, right-click a fisheye camera, and then select **Modify Smart Track**.
- Step 4 Click next to **Please select a PTZ camera to link**, and then select a PTZ camera.

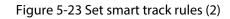


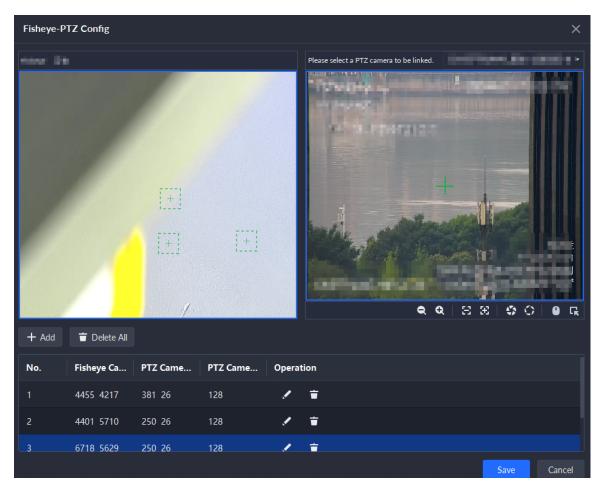
Figure 5-22 Set smart track rules (1)



Step 5 Click and then move the soft of the fisheye on the left to select a position. Click of the PTZ camera to find the position. Adjust the PTZ camera to find the position and move the PTZ to the center position (The green cross on the image).







\square

- Select 3-8 mark points on fisheye camera.
- When you find mark point on the right side of the PTZ camera, click 🗨 to zoom out PTZ.
- Click 🖪 to 3D position, and when you click a certain point on the left side of PTZ camera, it will automatically move to the center.

<u>Step 6</u> Click \checkmark to save the calibration point.

See above steps to add at least three calibration points. These three points shall not be on the same straight line.

Step 7 Click Save.

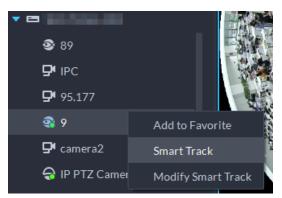
5.1.2.5.3 Applying Fisheye-PTZ Smart Track

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Monitoring Center** page, select the fisheye camera on the device tree and then right-click to select **Smart Track**.



Figure 5-24 Select a smart track channel



<u>Step 2</u> Click any point on the left of fisheye, PTZ camera on the right will automatically rotate to corresponding position.

5.1.3 Playback

Play back recorded videos.

5.1.3.1 Page Description

Log in to the DSS Client. On the **Home** page, click , and then click **Monitoring**. Click the **Playback** tab.

Figure 5-25 Playback page

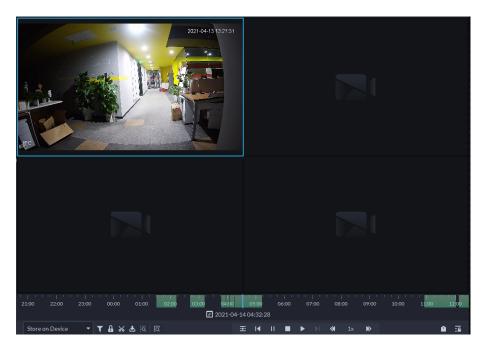


Table 5-7 Function description

| lcon | Description |
|------|--|
| Y | Filter video according to record type. |



| leen | Description |
|--|---|
| lcon | Description |
| 8 | Lock the video stored to the server within some period of designated channel. Locked video will not be overwritten when disk is full. |
| * | Select and download a duration of video on the progress bar. |
| Ł | Download the video. |
| Q | Make dynamic detection analysis over some area of the record image, and it only plays back the video with dynamic image in the detection area. |
| Q | Manually select a target in the video and quickly search for it in DeepXplore. |
| ••• | Play multiple recorded videos from the same time. For example, you are playing recorded videos from 3 channels at the same time. Select channels, configure when you want to play the recorded video from, and then click this icon. All 3 channels will play recorded videos from the same time. |
| | Play the video backwards or forwards. |
| II | Stop/pause the video. |
| | Play back or forward frame by frame. Click and hold to play continuously. |
| 📢 1x 🔊 | Fast forward or slow down the video to up to 64 times. When playing a video backwards or forwards alternately, the play speed will not be changed. |
| 10-00 12:00 14:00 16:00 2018-07-18 12:16:09 | During playback, you can drag time progress bar to play back record at the specific time. |
| Store on Server 👻 | Select the storage location of the video to be searched. Supports searching for the video on the platform server or storage device. |
| 0 | Tag records. |
| -0 | Lock records. |

5.1.3.2 Playing Back Video

Procedure

- Step 1 Log in to the DSS Client. On the Home page, click , and then select Monitoring Center.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Double-click or drag a channel to a window on the right.
- <u>Step 4</u> Select the storage path of recorded video from Store on Server, and then click to select the date.
 - Dates with blue dots means there are videos.



• After selecting a date, the platform will search for videos on that date from other channels. If you switch to the **Live View** page, or close the page or the PC client, the date will be reset.

<u>Step 5</u> Click to play the video.

<u>Step 6</u> Hover over the video, and then the icons appear. You can perform the following actions.

Figure 5-26 Video playback



Table 5-8 Function description

| lcon | Name | Description |
|------|--------------------------------|--|
| | Take a recording on the device | Click this icon to start recording. The recorded video is stored locally. The saving path is C:\DSS\DSS Client\Record\ by default. |
| Ø | Take a snapshot on the device | Take a snapshot of the current image and save it locally. The saving path is C:\DSS\DSS Client\Picture\by default. |
| × | Close | Close the window. |
| শ্র | Map location | If the device has been marked on the map, click the icon to open the map in a new window to display map location of the device. |
| | | Capture the target in the playback window. Click (1) to select the search method, and then the system goes to the page with search results. More operations: |
| | Search by snapshot | Place the mouse on the selected area, and then drag to move the selection area. Place the mouse to the upper-left, upper-right, and lower-left corner of the selected area, drag to adjust the size of the selection area. Right-click to exit search by snapshot. |



| [| lcon | Name | Description |
|---|------|------|---|
| | • | Tag | Tag the videos of interest for easy search in the future. |

Right-click the video, and then you can perform the following actions.

Figure 5-27 Shortcut menu

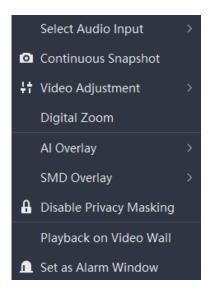


Table 5-9 Description

| Parameters | Description |
|-------------------------|--|
| Select Audio Input | If the camera has more than one audio input channels, you can select one or select the mixed audio. This configuration is effective with both live view and playback. |
| Continuous Snapshot | Take snapshots of the current image (three snapshots each time by default). The snapshots are saved to\DSS\DSS Client\Picture by default. To change the snapshot saving path, see "8.3.5 Configure File Storage Settings". |
| Video Adjustment | Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement. |
| Digital Zoom | Click it, and then double-click the video image to zoom in the image. Double-click the image again to exit zooming in. |
| Al Overlay | The client does not show rule lines over live video by default. When needed, you can click AI Overlay and enable Rule Overlay and Bounding Box Overlay , and then the live video shows rule lines if the AI detection rules are enabled on the device. This configuration is effective with the current selected channel both in live view and playback. |
| SMD Overlay | Enable SMD Overlay to show target bounding box over live video. When SMD is enabled on the device, you can enable SMD Overlay for the device channel, and then the live video will display dynamic target bounding boxes. This configuration is effective with the current selected channel both in live view and playback. |
| Disable Privacy Masking | For a camera that supports privacy masking of human face, you can disable the masking here to view the face image. |



| Parameters | Description |
|------------------------|--|
| Playback on Video Wall | Play the video of the current channel on video wall. Make sure that video wall is configured (see "5.1.5 Video Wall"). |
| Set as Alarm Window | When selecting open alarm linkage video In Preview (in live window) from Local Settings > Alarm , then the video will be displayed on the window which is set to alarm window. If multiple alarms are triggered, the video linked to the latest alarm will be opened. If the number of alarm windows is fewer than the number of linkage videos, the video linked to the earliest-triggered alarm will be opened. After enabling Set as Alarm Window , the window frame is displayed in red. |

5.1.3.3 Locking Videos

Lock the video stored on the server within a period of a specific channel. The locked video will not be overwritten when disk is full.

Background Information

Only the videos stored on server can be locked.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Select the storage path of recorded video from $\frac{\text{Stored on Server}}{\text{date.}}$, and then click \square to select the date.

The search results are displayed.

Dates with blue dot means there are video recordings.

- <u>Step 5</u> Select a window that has recorded video, and then click and the bottom of the page, and then click on the timeline to mark the start point and end point of the video clip you need.
- <u>Step 6</u> Confirm the start and end time, and then click **OK**.

Related Operations

Click an the lower-right corner, and then all the recordings locked by the user currently logged in to the client are displayed. Double-click one to quickly play the recording.

5.1.3.4 Tagging Videos

You can tag records of interest for quick search.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.



<u>Step 3</u> Double-click or drag a channel to a window.

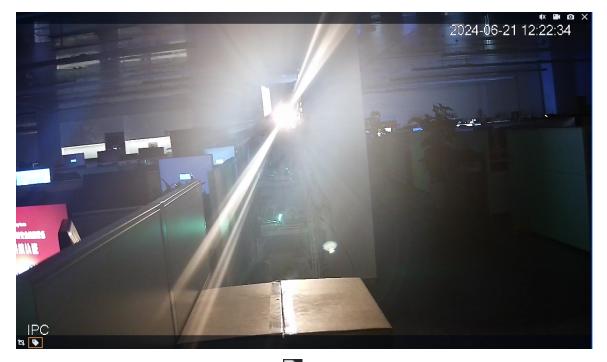
<u>Step 4</u> Select the storage path from <u>Store on Server</u> where the recorded videos are stored, and then click to select the date.

The search results are displayed.



Dates with blue dot means there are video recordings.

Figure 5-28 Playback page



<u>Step 5</u> Point to the window, and then click \bigcirc .

<u>Step 6</u> Enter a name for the tag, and then click **OK**.

Related Operations

Click Solution on the lower-right corner to view all the tags in the current recorded video. Double-click a tag to play the recorded video from the time of the tag. You can search for tags by their names.

5.1.3.5 Filtering Recording Type

Filter video according to record type, record type includes scheduled recording, alarm video, motion detection video, and videos recorded in main or sub stream.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Click \mathbf{M} , select one or more types, and then click **OK**.

The platform only displays videos of the selected types in different colors on the timeline.



\square

Filtering videos by video stream is only supported when you are viewing a video stored on a device, and the search type of device video stream is set to main and sub streams. For details, see "8.3.2 Configuring Video Settings".

5.1.3.6 Searching for Targets

When playing back a video, you can manually select a target, and then search for it in DeepXplore. **Procedure**

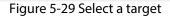
- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square , and then select **Monitoring Center** > **Monitoring**.
- <u>Step 2</u> Double-click or drag a channel to a window on the right.
- Step 3 Select the storage path of recorded video from select the date.

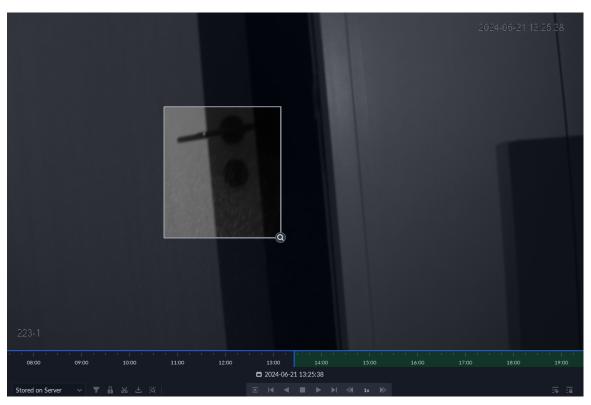
 \square

Dates with blue dot means there are recordings.

- <u>Step 4</u> Click On the bottom of the page.
- Step 5 Drag on the video to select a target.

Right-click to exit this function.





<u>Step 6</u>

<u>p6</u> (Optional) Adjust the area of selection.

• Place the mouse on the selected area, and then drag to move the area to any location.



- Place the mouse to the upper-left, upper-right and lower-left corner of the selected area, and then drag to resize the area.
- <u>Step 7</u> Click and select a type for the target, and then you are directed to DeepXplore to search for it. For details, see "5.3 DeepXplore".

5.1.3.7 Clipping Videos

Download a video by selecting a period on the timeline.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- Step 4 Select the storage path of videos from server, and then click to select the date.

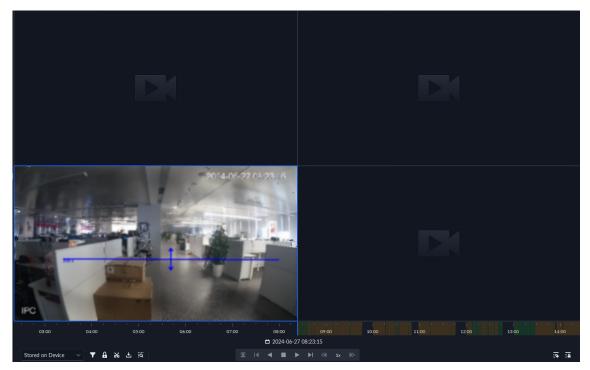
The search results are displayed.

 \square

Dates with blue dot means there are videos.

- <u>Step 5</u> Select a date with video recordings, and then click $\mathbf{\underline{M}}$.
- <u>Step 6</u> On the timeline, click the point with green shade to start clipping, drag your mouse, and then click again to stop.

Figure 5-30 Select a period



<u>Step 7</u> Enter the password and encryption password, and then click **OK**.



\square

You need to verify your password by default before downloading. You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

<u>Step 8</u>

Configure the parameters of the video, and then click **OK** to start downloading.

The video will be downloaded to the default path configured in the local settings. For details, see "8.3.5 Configure File Storage Settings".

| Parameter | Description |
|-----------------|---|
| Start Time | The start and end time represents the length of video you selected. You |
| End Time | can adjust it more specifically here. |
| Transcode | - The default format is .dav. You can select another format for the video. |
| File Format | |
| Select Stream | Select a stream for the video. For the same period, the main stream provides clearer images, but uses more disk space, while it is the opposite for the sub stream. |
| Privacy Masking | If disabled, faces in the video will not be blurred. |

Table 5-10 Parameter description

5.1.3.8 Smart Search

With the smart search function, you can select a zone of interest on the video image to view motion records within this section. The relevant camera is required to support Smart Search; otherwise the search result will be empty.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Select the storage path of recorded video from stored on Device or, and then click to select the date.

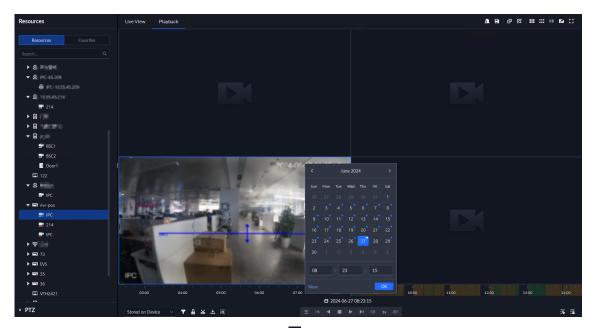
The search results are displayed.

 \square

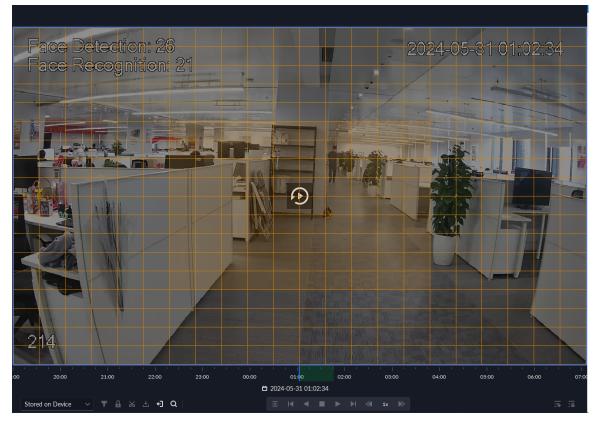
Dates with blue dot means there are video recordings.



Figure 5-31 Playback page



Select a window that has videos, click and then select a type.
 The smart search page is displayed, with 22 × 18 squares in the window.
 Figure 5-32 Smart search



<u>Step 6</u>

 \square

Click the squares and select detection areas.

- Select a detection area: Point to image, click and drag to select a square.
- For the selected area, click again or select square to cancel it.



<u>Step 7</u> Click Cli

- If there are search results, the time progress bar will become purple and display dynamic frame.
- It will prompt that the device does not support smart search if the device you selected does not support the function.

 \square

Click ^O to select the detection area again.

Step 8 Click button on the image.

- Let The system only plays back the retrieved results, which are indicated by purple frames on the timeline bar.
- M: Plays back the whole video.

Step 9 Click 🔁 to exit smart search.

5.1.4 Map Applications

On the map, you can view real-time videos of devices, locations of channels that trigger alarms, cancel alarms, and more.

Prerequisites

Make sure that you have configured a map. For details, see "4.2 Configuring Map".

Procedure

- Step 1 Log in to the DSS Client, and on the Home page, select \blacksquare > Monitoring Center > Map.
- <u>Step 2</u> In the list of maps, click a map.
- <u>Step 3</u> View video, cancel alarms, and more.

The functions vary with the types of maps and devices. Slight differences might be found in the actual page.

| Function | Description |
|-------------------------------|---|
| Hide Device Name | Only displays the icons of devices or channels. |
| Zoom in and out on the map | Rotate the wheel or click + and - to zoom in and out on the map. When zooming out on the map, the same type of devices or channels will be merged together if they are near each other. |
| View live video | Click Pane , select devices on the map, and then click 2 to view videos in batches; or click 2 on the map, and then select to view videos. |



| Function | Description | |
|-----------------|--|--|
| Playback | Click Pane , select devices on the map, and then click \textcircled{Pane} to view videos in batches; or click on the map, and then select to view videos. | |
| | Drag the timeline to quickly locate the recorded video at the corresponding time and play it. | |
| View alarms | Click to view all alarms that are triggered. Click an alarm and the map will zoom in to the location of the device that triggered the alarm. Alarms will be automatically canceled after 30 s. | |
| Cancel alarms | Click a device on the map, and then select . The alarm will also be automatically canceled after 30 s. | |
| Monitor a radar | The alarm area and detection area are displayed on the map by default. If a target is detected, its real-time location will be displayed in these areas. Click a radar channel, you can view its information and use the following functions: If it is the raster map on the radar. You can use this function to check if the maps on the radar and the platform are consistent. If it is the real-time videos of the linked PTZ cameras. If it is function to monitor the area around the radar. You can use this function to the radar. If the alarm area and detection area of the radar are keeping you from operating other channels, you can click this icon to hide these areas. | |
| Show devices | Select the types of devices and channels you want to display on the map. | |
| Clear | To clear all markings on the map, click Clear . | |
| Add marks | Select Box > Add Mark , and then mark information on the map. | |
| Reset | Select Box > Reset to restore the map to its initial position and zoom level. | |
| Sub maps | Click 🐱 to view the information of the sub map. Double-click 🖼, and then the platform will go to the sub map, where you can view the resources on it. | |



5.1.5 Video Wall

A video wall, which consists of multiple video screens, is used for displaying videos on the wall, instead of small PC displays.

Complete video wall settings before you can view videos on the wall.

5.1.5.1 Configuring Video Wall

5.1.5.1.1 Page Description

Before using the video wall function, you should get familiar with what you can do on the video wall page.

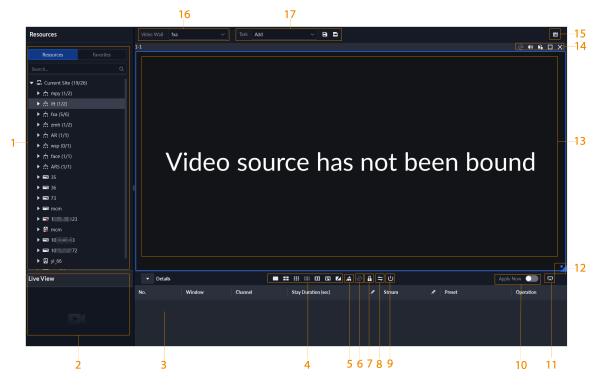


Figure 5-33 Video wall

Table 5-12 Page description

| No. | Function | Description |
|-----|-------------|--|
| 1 | Device tree | If you have selected Device and Channel in Local Settings >General, the device tree will display all devices and their channels.Otherwise, it will only display all channels.Click to view channels that you have saved to favorites. |
| | | You can enter keywords in Search Q to search for the channels you want. |
| 2 | Live view | View live videos from channels. |



| No. | Function | Description |
|-----|---|--|
| 3 | Detailed information | View the channel information in a screen of the video wall. Click and view the live video of the channel in Live View on the lower-left corner. This can be helpful when you need to make sure whether it is the channel you want. Click to adjust the order of channels. Click to delete the channel from the screen. Click Stay Duration (sec) or to define for how long the live video of the channel will be displayed during each tour. Click Stream or to change the video stream of the channel. |
| 4 | Window split | Select how you want the window to split. |
| 5 | Clear screen | Clear all the screens. |
| 6 | Stopping or starting all tours | Stop or start all tours. |
| 7 | Lock window | If multiple screens in a video wall are configured to be a combined screen, then you can perform video roaming on the window that has been locked. |
| 8 | Display mode | Display the real-time video, or a snapshot of the real-time video every 10 minutes of the bound channel in the screen. If nothing happens after operation, you can just click another screen, then click the screen you want, and then it should work properly. |
| 9 | Turning on or off screens | Turn on or off the screens configured for the currently selected video wall. |
| 10 | Decoding to wall immediately after configuration | When a task has been configured, the platform will immediately decode channels to the video wall. |
| 11 | Decoding to wall | Manually decode channels to the video wall. |
| 12 | Video wall layout | Click to view the layout of the current video wall. |
| 13 | Video wall display area | The display area for video walls. |
| 14 | Screen operations | Includes stopping tour for the screen, muting, pasting, maximizing or restoring the screen, and closing the screen. |
| 15 | Video wall plan | Configure a timed or tour plan for the video wall. |
| 16 | Video wall selection | Select the video wall you want to configure. |
| 17 | Display task management | Add, save, and delete tasks. |



5.1.5.1.2 Preparations

To display video on the wall, make sure that:

- Cameras, decoders and video wall are well deployed. For details, see the corresponding user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations". During configuration, make sure that:
 - When adding a camera, select **Encoder** from **Device Category**.
 - When adding a decoder, select Video Wall Control from Device Category.

5.1.5.1.3 Adding Video Wall

Add a video wall layout on the platform.

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **Video Wall**.
- <u>Step 2</u> From the Video Wall drop-down list, select Add Video Wall.
- <u>Step 3</u> Enter video wall name, and then select a window splicing mode.

| | | | | | | | | |
|--|----------------|----------------|------------------|------|------|----|---------|------------|
| Add Video Wall | | | | | | | | > |
| 0 | | | | | | | | |
| 1. Select layout | | 2. Bind ch | annel | | | | | |
| i Please configure a layout that suits the actua | al video wall. | | | | | | | |
| * Video Wall Name | * Video Wa | all Layout | | | | | | |
| Video Wall 1 | | | | | | | | |
| | | Screen0 Com | Screen1 bine1 | | | | | |
| | | Screen2 | Screen3 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | 54 | | | | | ð " |
| | | | | | | | | |
| | | | | | | Ne | kt Step | Cancel |
| ~~~~ | | | | | | | | |

Figure 5-34 Add a video wall

\square

- The video wall name cannot consist of special characters including < > % & = " ' and /.
- Select a splicing mode from among 1 × 1, 2 × 2, 3 × 3, 4 × 4 or set a custom mode by clicking
- A multi-screen splicing mode is a combined screen by default. You can perform video roaming on it. For example, with a 2×2 combined screen, if you close 3 of them, the other one will be spread out on the combined screen. To cancel combination, click the combined screen, and then click



- To create a combined screen, press and hold Ctrl, select multiple screens, and then click
- To clear the created screen, click

Step 4 Click **Next Step**.

- <u>Step 5</u> Select the encoders which need to be bound in the device tree, and drag it to the corresponding screen.
 - \square
 - You can set whether to show ID in the screen, Show Screen ID means that the screen ID is disabled; click the icon and it becomes Show Screen ID , which means that screen ID is enabled.
 - Each screen in a combined screen must be bound with a decoding channel.

Step 6 Click Finish.

5.1.5.1.4 Configuring Video Wall Display Tasks

Displays videos on the wall manually or in accordance with the pre-defined configuration.

Procedure

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **Video Wall**.
- <u>Step 2</u> In the **Task** drop-down list, select **Add**.

Figure 5-35 Add a video wall task



<u>Step 3</u> From the device tree, select a camera, and then drag it to a screen, or select a window, drag the camera to the **Details** section.

If you do not close video wall display in advance, this action will delete the bound camera and play the selected camera on the wall.

Step 4 Click



\square

If you have selected an existing task in the **Task** drop-down list, after dragging the video channel to the window, click to save it as a new task, which will be played on the wall immediately.

<u>Step 5</u> Name the task, and then click **OK**.

- During video wall display of a task, if you have rebound the video channel, click 🔜 to start video wall display manual.
- During video wall display, click 🔟 or 🕑 to stop or start tour display.

<u>Step 6</u> Click **C** to start video wall display.

5.1.5.1.5 Configuring Timed Plans

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **Video Wall**.
- <u>Step 2</u> Click \blacksquare on the upper-right corner.

<u>Step 3</u> Hover over **and**, and then select **Timed**.

Figure 5-36 Set timed plan

| Timed Plan-fxa | | | | × |
|-------------------------------|---------------|--------------------------|----------------------------|-------------|
| * Plan Name | | | | |
| A | | | | |
| | | | | |
| Task | | Start Time | End Time | |
| 22 | | 00:00:00 | 23:59:59 | Add |
| Task Name | Start Time | End Time | Ор | eration |
| 22 | 00:00:00 | 23:59:59 | l i | ī |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 01 02 03 04 05 04 | 6 07 08 09 10 | 1 1 1 1 1 11 12 13 14 | 1 1 1 1 1 15 16 17 18 1 | |
| Enable this Timed Plan in Ren | naining Time | | | |
| | | | | |
| | | | | Save Cancel |

<u>Step 4</u> Enter the plan name.

<u>Step 5</u> Select a video task, set start time and end time, and then click **Add**.



Repeat this step to add more tasks. The start time and the end time of tasks cannot be repeated.

 \square

Select the **Enable This Timed Plan in Remaining Time** check box, and then set the task. The video wall displays the selected task during the remaining period.

Step 6 Click Save.

Step 7 Click Constant the plan.

 \square

You cannot display multiple plans on the wall at the same time. When a plan is enabled, the previous plan on the wall is automatically terminated.

| Video Wall Pla | an -fxa | | |
|----------------|---------|----|-----|
| Timed | Tour | 33 | . 1 |

Figure 5-37 Enable timed plan

5.1.5.1.6 Configuring Tour Plans

After setting video wall tasks, you can configure the sequence and interval of tasks so that they can automatically play in turn on the wall.

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **Video Wall**.
- <u>Step 2</u> Click i on the upper-right corner.
- <u>Step 3</u> Hover over **III**, and then select **Tour**.





Figure 5-38 Tour plan

| * Plan Name B | | |
|------------------|---------------------|---------------|
| Task | Stay Duration | |
| 22 Task Name | Stay Duration (min) | Add Operation |
| 22 | 00:30 | |
| 22 | 00:30 | Ť |
| 22 | 00:30 | ŧ |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

<u>Step 4</u> Enter task name, select a video task and then set stay time. Click **Add**.

Repeat this step to add more tasks.

Step 5 Click Save.

<u>Step 6</u> Click **C** to start the tour plan.

 \square

You cannot display multiple plans on the wall at the same time. When a plan is enabled, the previous plan on the wall is automatically terminated.

Figure 5-39 Enable tour plan



5.1.5.2 Video Wall Applications

Before using the video wall function, make sure that display devices are properly connected to video wall screens.



5.1.5.2.1 Instant Display

Drag a camera to the video wall screen for instant display on the wall.

The video wall display task is configured. For details, see "5.1.5.1.4 Configuring Video Wall Display Tasks".

Procedure

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **Video Wall**.
- <u>Step 2</u> In the **Video Wall** drop-down list, select a video wall.
- <u>Step 3</u> Click **C** to start video wall display.
- <u>Step 4</u> Drag a camera from the device tree to a screen, or select a window and drag the camera to the **Details** section.

\square

- A window can be bound to multiple video channels.
- The binding mode, which includes Tour, Tile, and Ask Every Time, can be set in Local Settings > Video Wall. For details, see "8.3.3 Configuring Video Wall Settings".
- For a fisheye camera, right-click it to select the installation mode for fisheye dewarping.

| Video Wall chj ~ | Task Add | ~ B D | | | Ē |
|--------------------------------|---------------|-------------------------|-------------|----------------|-------------|
| 1-1 | | ⊕ ● ⊑ × | 1-2 | | ⊕ • • • □ × |
| 2 video source View details | | pelow | | e has not been | |
| 1-3 | | le n n n l X | 1-4 | | @ • • • • × |
| Video source ł | nas not bee | n bound | Video sourc | e has not been | bound |
| ✓ Details | = = | : ::: ::: ::: ::: 🖬 🖬 🖬 | i @ A ≒ U | | low 🥑 💀 |
| No. Window | Channel | Stay Duration (sec) | 🖋 Stream 🖋 | Preset | Operation |
| 1 1-1 | IPC出夏令时 | | Main Stream | N/A | ⊕†∔ ≡ |
| 2 1-1 | IP PTZ Camera | 15 | Main Stream | N/A | ⊛†∔ ≡ |

Figure 5-40 Bind video channel

- <u>Step 5</u> Select a screen, and then click **Details** to view detailed information about the screen and channel, including stream type, preset and display sequence.
 - Click 🖸 to view live video of the current channel on the lower left.
 - Click **t** to adjust sequence.
 - Click to delete the video channel on the current window.



5.1.5.2.2 Video Wall Task Display

Displays a pre-defined task on video wall.

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Tools** > **Video Wall**.
- <u>Step 2</u> In the **Task** drop-down list, select a task.
- <u>Step 3</u> Operations available.
 - After changing the video channel that is being displayed, click 🖾 at the lower-right corner before you can see the effect on video wall.
 - Click 🔍 🕑 to pause or stop.
 - Select a screen, and then click **Details** to view detailed information about the screen and channel, including stream type, preset and display sequence.

5.1.5.2.3 Video Wall Plan Display

Display a pre-defined plan on video wall.

 \square

Make sure that there are pre-defined plans.

The video wall automatically works as the plans have been configured. To stop the current plan,

click III on the upper-right corner of the **Video Wall** page, and then it changes to . Click to start displaying video on wall again.

| Video Wa | ill chj v Task 11 v 🖻 🖨 | Video Wall Task Schedule:22 🗸 🕨 🗎 |
|----------|---|-----------------------------------|
| 1-1 | @ 🕪 🛱 🗆 🗙 | 1-2 🛞 🐠 🛍 🗆 🗙 |
| : | 2 video sources have been bound View details in the list below | Video source has not been bound |
| 1-3 | ⊕ • i □ × | 1-4 |
| V | ïdeo source has not been bound | Video source has not been bound |

Figure 5-41 Display video wall plan

5.2 Event Center

When alarms are triggered, you will receive notifications on real-time alarms.

You can view their details, such as snapshots and recordings, and process them.



If you miss alarms occurred during a certain period, or want to check certain alarms, such as high priority alarms occurred in the past day or all alarms that have not been processed in the past week, you can set the search conditions accordingly and search for these alarms.

Make sure that you have configured and enabled alarm events. To configure, see "4.1 Configuring Events".

5.2.1 Real-time Event

View and process real-time alarms.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then select **Event Center**.
- Step 2 Click **Real-time Event**.



The alarm list is refreshed in real time. To stop refreshing, click **Pause Refresh**. To continue receiving alarms, click **Start Refresh**.

Alarm pops up when **Open Alarm Linkage Video** is set to **As Pop-up** in **Management** > **Local Settings**. You can click the **Video**, **Linkage Control** or **Map** tab to view the video, open or close alarms manually, or view the location of the device on the map.

```
\square
```

- The Map tab displays after you set Related Content to Link Video and Map from Local Settings > Alarm.
- The **Linkage Control** tab supports alarm output, audio and light.

You can adjust the volume of audio in **Audio and Light**, or click **Open All** or **Close All** to open or close the alarm.

| Figure | 5-42 Alarm | pop-up |
|--------|------------|--------|
|--------|------------|--------|

| Video Channel-Tripwire Low | Video | | Linkage Control | |
|--|-----------------|-----------|-----------------|---------------|
| Current SiteChannel0 2024-06-21 11:26:15 2024-06-21 11:26:15 | Linked Action | Alarm Out | put Open | All Close All |
| 2024-06-21 11:26:15 View Protocol | Alarm Output | 10.00 | 1 | ⊘ ⊗ |
| P | Audio and Light | | | |
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Step 3 Click to claim an alarm.

After an alarm has been claimed, the username of your account will be displayed under the **Processed by** column.

<u>Step 4</u> Process alarms.

You can use the up and down arrow keys on the keyboard to quickly select other alarms.

1. Click or double-click the alarm.

Alarms related to vehicles also display vehicle information such as plate number, speed, and more.

| | E B | atch Process | | ≡ |
|---|-----|--|----|---|
| Video Channel-Speeding ● 2024-06-18 22:02:37 ● Current Site-10 | | Video Channel-Speeding High ♀ Current Site-10 1.76-Channel 1 ♀ 2024-06-18 22:02:37 № 2024-06-18 16:02:37 ₩ | | Acknowledge 2024-06-19 16:02:13 system |
| Video Channel-Speeding 2024-06-18 22:01:09 Current Site-10 176-Chan | 4 | U 09 U Vehicle Speed | | |
| | | | | Action Processed Forward Processing Result Confirm as Alarm |
| | | | DN | Processing Remarks |

Figure 5-43 Alarm details

2. The middle area displays the time when the alarm was triggered, name and location of the alarm source, alarm type, and the live video images of linked channels, alarm videos, and alarm snapshots.

Double-click a window to view them in larger size. Click 🔀 to go back.

3. On the right side, select how to process the alarm, enter some comments, and then click **OK**.

Forward allows you to forward the alarm to another user who will process it.

4. (Optional) Click to disarm the alarm. You can disarm for a period, or disarm until the defined time.

After disarming, all users will not receive this alarm within the defined time; and after the defined time, if the alarm is not eliminated, it will continue to alarm.



- 5. (Optional) Click to send the alarm information to other users as an email. Events that are processed or forwarded can also be sent as emails.
- 6. Click and configure the parameters related to the processing comments, and then click **OK**.
 - **Require Processing Remarks to be Entered** : After enabled, users must enter some content in the processing comments to successfully process alarms.
 - **Pre-processing Remarks** : Configure the predefined comments for each processing status. The content will be automatically filled in when users select different status for alarms.

Related Operations

- The platform also supports processing alarms in batches. Click **Batch Process**, select multiple alarms, and then you can process them in batches.
- When viewing the recorded videos, you can select a target manually, and then search for it in DeepXplore.

5.2.2 History Alarms

Search for and process history alarms.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click , and then select **Event Center**.
- Step 2 Click **Event History**.

<u>Step 3</u> Set search conditions, and then click **Search**.

In the **Processing Remarks** section, you can search for events by entering remarks that are defined when processing or forwarding the event.

<u>Step 4</u> Claim and process alarms. For details, see "5.2.1 Real-time Event".

 \square

You can use the up and down arrow keys on the keyboard to quickly select other alarms.

Related Operations

When viewing the recorded videos and snapshots, you can select a target manually, and then search for it in DeepXplore.

5.2.3 Alarm Controller

You can monitor and manage alarm controllers.

Prerequisites

Alarm controllers are added to the platform. See "3.1.2 Managing Device".

Background Information

- Arm and disarm
 - Home arm: An arming mode when a user is within the zone of the alarm system. In this mode, zones around the system, such as outdoor perimeter detectors, balcony curtain detectors, are armed, while zones inside the system, typically indoor infrared detectors, are bypassed by the system. People can move in this area without triggering alarms. If there are internal zones within a subsystem, they will be disarmed.



- Away arm: An arming mode when all users have left the zones of the alarm system. In this mode, all zones are armed.
- ♦ Disarm: Cancel arming.
- Bypass

When detectors connected to the alarm controller malfunction or there is movement within specific zones, the normal arming operations within the system will be affected. In this case, the system allows users to bypass these zones.

- ♦ Unbypass: Restores bypassed zones to the enabled status.
- ◇ Bypass: The zone is temporarily disabled during the arm, and it automatically returns to the enabled status when the system is disarmed.
- Isolate: The zone is permanently disabled. When the system is disarmed and then armed again, the isolated zone remains disabled.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Event Center**.

Step 2 Click Alarm Controller.

<u>Step 3</u> In the device tree, click an organization.

All alarm controllers under this organization will be displayed on the right. You can select one or more alarm controllers, and then click (**Away Arm**) or (**Disarm**) to arm or disarm the alarm controllers you selected.

If arming failed, you can click **Force Arm** on the prompt window to arm again.

Figure 5-44 Alarm controller organization

| Alarm Controller | Current Site | | |
|----------------------------|----------------------------|-------------|------------|
| Search Q | Away Arm ♥ Disarm ♥ Refree | sh | Search Q |
| ▼ 🖬 Current Site | Device Name | Device IP | Operation |
| ▼ | 63 | 10.55.45.63 | r 🛛 |
| ▶ ₩ 67 | 67 | 10.55.45.67 | (A) |

<u>Step 4</u> In the device tree, click an alarm controller.

All subsystems under this alarm controller will be displayed on the right.

 \square

You can right-click an alarm controller, and then click **Update Alarm Controller** to update its information.



Figure 5-45 Subsystems

| Alarm Controller | 63 | | | |
|---|---------------------|------------------|----------------|-------------|
| Search Q | 🏟 Away Arm 🗖 Home A | rm 🛛 🖾 Disarm 🖸 | Refresh | |
| ▼ I Current Site ▼ | Subsystem Name | Arming Status $$ | Alarm Status 🗸 | Operation |
| ♥ ::: mx ▶ iiii 63 | AREA1 | Away Arm | Normal | (n) (d) (V) |
| ▶ 🖮 67 | AREA2 | Away Arm | Normal | A |
| | AREA3 | Away Arm | Normal | A |
| | AREA4 | Away Arm | Normal | A |
| | AREA5 | Away Arm | Normal | A |
| | AREA6 | Away Arm | Normal | A |
| | AREA7 | Away Arm | Normal | A |
| | AREA8 | Away Arm | Normal | A |

<u>Step 5</u> Arm or disarm subsystems.

- \land Away Arm 🌢 Home Arm 🛛 Disarm: Operate on multiple subsystems.
- 🖻 🗖 📴: Operate on one system.

- See the user manual of the alarm controller for detailed description on each function.
- If arming failed, you can click **Force Arm** on the prompt window to arm again.
- <u>Step 6</u> In the device tree, click a subsystem of the alarm controller.

All zones under this subsystem will be displayed on the right.

Figure 5-46 Zone

| Alarm Controller | AREA1 | | | | | | |
|------------------|-----------------|-----------------|-------------|------------|--------------|-----------|-----|
| Search Q | ₽: Bypass h Iso | late 🔿 Unbypass | C Refresh | | | | Q |
| ▼ 🖬 Current Site | Zone Name | Partition N B | Sypass St 🗸 | Realtime 🗸 | Fault Stat 🗸 | Operation | 1 I |
| ▼ ☆ mx ▼ ₩ 63 | WIRED ZONE1 | Partition_1 Is | solated | Close | Normal | h | но |
| AREA1 | WIRED ZONE9 | ls | solated | Close | Normal | h | но |
| AREA2 | WIRED ZON | Ν | lormal | Close | Normal | h | но |
| AREA3 | WIRED ZON | Ν | lormal | Close | Normal | h | но |
| AREA5 | WIRED ZON | Ν | lormal | Close | Normal | h | h O |
| REA6 | WIRED ZON | N | lormal | Close | Normal | h | но |
| AREA7 | WIRED ZON | N | lormal | Close | Normal | h | но |
| ► 1 67 | WIRED ZON | N | lormal | Close | Normal | h | ьο |

<u>Step 7</u> Bypass, isolate, or unbypass zones.

- h Isolate O Unbypass h Isolate O Unbypass: Operate on multiple zones.
- h h O: Operate on one zone.

\square

- See the user manual of the alarm controller for detailed description on each function.
- If arming failed, you can click **Force Arm** on the prompt window to arm again.



5.2.4 Temporarily Disarm

You can edit or cancel temporary disarming.

Prerequisites

Configure temporary disarming on the Real-Time Event or Event History page.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Event Center**.
- <u>Step 2</u> Click **Temporarily Disarm**, and then click **C** corresponding to a disarming record to edit the disarming period.

<u> _--r</u>

Select several disarming records, and then click **Edit** to edit the disarming periods in batches.

You can set disarming for a period, or disarming until the defined time. After disarming, all users will not receive this alarm within the defined time; and after the defined time, if the alarm is not eliminated, it will continue to alarm.

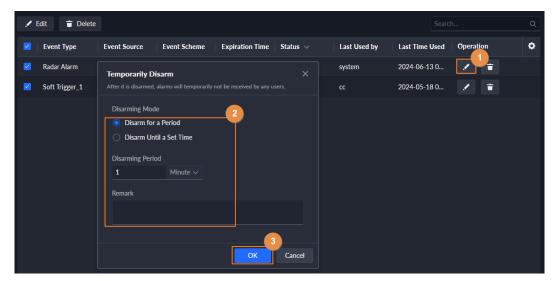


Figure 5-47 Edit temporary disarming

Step 3 Click OK.

Related Operations

Click Click corresponding to a disarming record to cancel disarming and delete the record.

<u>O-vr</u>

Select several disarming records, and then click **Delete** to cancel disarming and delete the records in batches.



5.3 DeepXplore

You can set multiple search conditions to view records of people, vehicle snapshots and access that you are interested in.

5.3.1 Searching for Records

In this section, you can view integrated records of people, vehicle, access control and MPT track.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepXplore**.
- Step 2 Click Integrated Retrieval.

Step 3

- Click 🔳.
 - **Multiple** : you can search for the records of multiple types. Set the search object, channel and time, and then click **Search**.

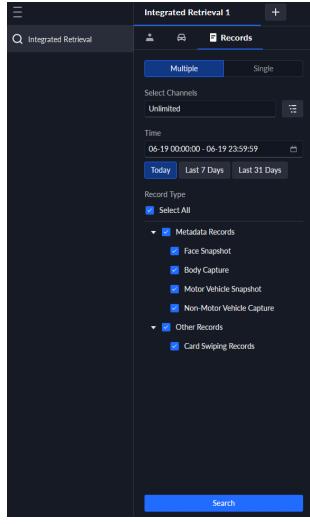


Figure 5-48 Records search

- **Single** : You can search for the records of a single type. including Set the channel, time and device information, and then click **Search**
- <u>Step 4</u> Manage the results.



For the search result, you can perform the following operations.

• View details on records

Select a record, and then click to view its details on the right, including snapshots, recorded videos (can be downloaded to your computer), and targets that can be further searched for (manually select a target).

• You can hover the mouse over the small image on the right, and then click we to search for images similar to this one. The platform will compare the image you upload to the records on one device, and then return results based on the defined similarity.

You can also click to add it to a face arming group. After you send the group to devices and configure an event, devices can trigger alarms when the face is recognized.

- When viewing recorded videos and snapshots, you can select a target manually, and then search for it in DeepXplore.
- If the channel is bound to other video channels, the recorded video from the bound video channels will play automatically.
- If a license plate is recognized, click **III** to add the vehicle to an arming group. After you send the group to devices and configure an event, devices can trigger alarms when the vehicle is recognized.
- Click to delete it one by one.

The MPT records which are stored in EEC, access records cannot be deleted.

5.3.2 Searching for People

Based on the defined search conditions, you can view capture records of faces, bodies and other information.

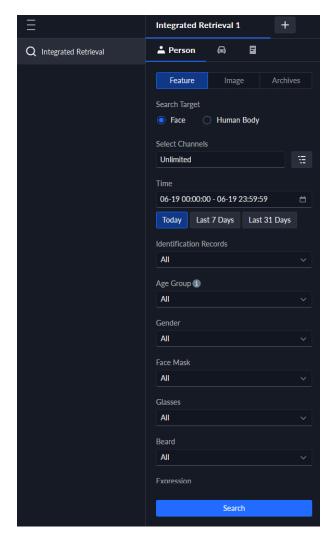
Procedure

Step 1 Log in to the DSS Client. On the Home page, click H, and then select DeepXplore.

Step 2 Click Integrated Retrieval, and then click







- Search type
 - Feature : Search for records by the defined features such as age, gender, color of clothes and more.

 \square

When selecting whether to search for identification records, the difference is that, besides the age and gender, identification records will also show the similarity between the captured face and those in the arming lists.

• Image :

 \square

Only new versions of IVSS devices support displaying similarity.

- **Archives** : Search for records in the person information database.
- Search target
 - **Face** : Search for records in the face capture database.
 - Human Body : Search for records in the body capture database.
 - Search channel: Select device channels of the records by clicking Selected Channel.
 - Search time: Select time period of the records from Today , Last 7 Days and Last 31 Days.



\square

Only available for face and body capture records.

- Search conditions: Set search conditions such as age, gender, top color, ID, name and more to search for specific records.
- <u>Step 3</u> Set the search object, type and conditions, and then click **Search**.

Figure 5-50 Search results

<u>Step 4</u> Manage the results.

For the search result, you can perform the following operations.

• View details on records

Select a record, and then click **O**. Its details are displayed on the right, including snapshots, recorded videos (can be downloaded to your computer), and targets that can be further searched for (manually select a target).

You can hover the mouse over the small image on the right, and then click we to search for images similar to this one. The platform will compare the image you upload to the records on one device, and then return results based on the defined similarity.

- Click **C** to add the person to a face arming group. After you send the group to devices and configure an event, devices can trigger alarms when the face is recognized.
- When viewing recorded videos and snapshots, you can select a target manually, and then search for it in DeepXplore.
- If the channel is bound to other video channels, the recorded video from the bound video channels will play automatically.
- Click to delete it one by one.

You cannot delete the records of searching by image on devices.

• For the archives searching, double click the searching results or click 2 to view the details. You can see the face capture, vehicle capture, access records and other information of the corresponding person.

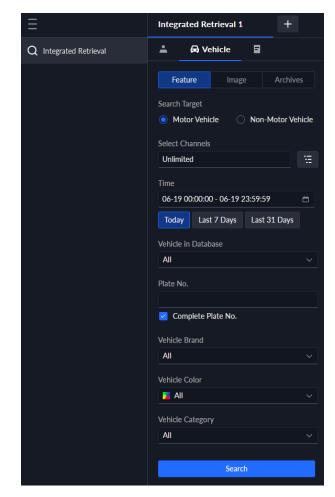
5.3.3 Searching for Vehicles

Procedure

- Step 1 Log in to the DSS Client. On the Home page, click , and then select DeepXplore.
- <u>Step 2</u> Click Integrated Retrieval, and then click



Figure 5-51 Vehicle search



- Search type
 - Feature : Search for records by the defined attributes such as vehicle color and brand.
 - Image : The platform compares the image you upload to the records on one device. If the similarity between a captured image on the platform and the one you upload equals to or higher than the defined value, the platform will display the result.
 - **Archives** : Search for records in vehicle information database.
- Search target
 - **Vehicle** : Search for records in vehicle capture database.
 - **Non-Motor Vehicle** : Search for records in non-motor vehicle capture database.
 - Search channel: Select device channels of the records by clicking Selected Channel.
 - Search time: Select time period of the records from Today , Last 7 Days and Last 31 Days.
 - Ш

Only available for vehicle capture records.

- Vehicle in Database (Yes/No) : Select whether to search for capture records of vehicles in vehicle list.
- Search conditions: Set search conditions such as plate number (full plate number optional), vehicle brands and more to search for specific records.
- <u>Step 3</u> Set the search conditions, and then click **Search**.



For the search result, you can perform following operations.

• View details on records

Select a record, and then click 💽 to view its details on the right, including snapshots, recorded videos (can be downloaded to your computer), and targets that can be further searched for (manually select a target).

- If a license plate is recognized, click to add the vehicle to an arming group. After you send the group to devices and configure an event, devices can trigger alarms when the vehicle is recognized.
- If the license plate is incorrectly or cannot be recognized, you can correct it manually. Then, it can be added to an arming group.
- If the channel is bound to other video channels, the recorded video from the bound video channels will play automatically.
- Click to delete it one by one.

The records of searching by image on devices, access records cannot be deleted.

• For vehicle archives, double-click a record to view recognition records of a license plate.

5.4 Access Management

On the **Access Management** page, you can perform operations on access control, video intercom, and visitor.

5.4.1 Access Control

5.4.1.1 Viewing Access Point

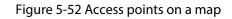
Log in to the DSS Client. On the Home page, select -> Access Management > Access Control > Access Control Panel.

This page displays by default all the access points in the root zone and all its sub zones in card view.

Change the display mode

Click contained on the upper-right corner to display access points in card view or on the map. Click the icon of an access point to view live videos from bound channels, unlock or lock the door, or make a call to it.





| Zone Site | | ~ | | | | | | | | | i M |
|--------------|-------------|------------|--------|--------------|-------------------|--------|--------------|-----------------------|-----------|---|------------|
| Always Ope | n 🤈 Restore | e 🚺 Always | Closed | | | | | | | | |
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| Event | | | | | | | | | | Ш | # C |
| Event Type 🗸 | Event | Time | Zone | Access Point | Access Point Type | Person | Person Group | Entered/Exited Status | Operation | | |

View certain access points

On the top on the page, select a zone or access point type to display the access points in a zone and its sub zones.

View access point information

In card view, double-click an access point to view its information, including basic information, live videos from bound channels, and events. You can also lock or unlock the door and make a call to it.

5.4.1.2 Viewing Live Video from Bound Channel

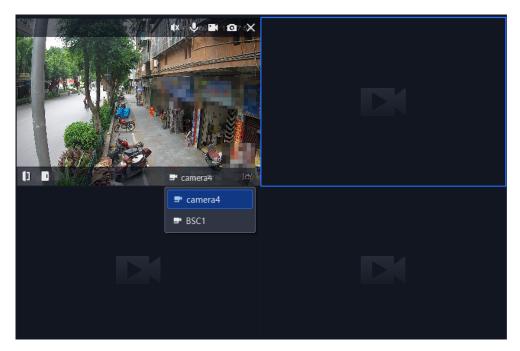
Log in to the DSS Client. On the **Home** page, select \blacksquare > **Access Management** > **Access Control** > **Access Control Panel**. You can view live videos from bound channels in the following ways.

View live videos in card view

Click to display access points in card view. Click to view live videos. Each access point will only use one window. If more than 1 video channel is bound to the access point, you can click the drop-down list on the lower-right corner to switch between video channels.



Figure 5-53 Switch between video channels



View live videos in the detailed information of an access point

In card view, double-click an access point, and then live videos will be displayed in the **Related Info** section.

View live videos on the map

Click I on the upper-right corner to display access points on the map. Click the icon of an access point, and then click to view live videos.

5.4.1.3 Unlocking and Locking Door

Log in to the DSS Client. On the **Home** page, select \longrightarrow > **Access Management** > **Access Control** > **Access Control Panel**. You can unlock or lock doors in the following ways.

Unlock or lock doors in card view

Click I to display access points in card view. Click O or C to unlock or lock a door channel.

Unlock or lock doors in the detailed information of an access point

In card view, double-click an access point, and then click **Open Door** or **Close Door**.



Unlock or lock doors on the map

Click I on the upper-right corner to display access points on the map. Click an access point, and then click or or to unlock or lock a door channel.

5.4.1.4 Controlling Door Channels Globally

Set all door channels in a zone to normally closed, normally open modes, or restore them to the normal status in one click. Only administrators can control door channels globally.

Log in to the DSS Client. On the **Home** page, select \longrightarrow > **Access Management** > **Access Control** > **Access Control Panel**. Select a zone, and then click **Always Open**, **Restore**, or **Always Closed** to control all the door channels at the same time.

- Always Open : All people can pass without verifying their identifications.
- **Restore** : Restore door channels to the normal status from normally open or normally closed mode. People must verify their identifications to pass
- Always Closed : No person is allowed to pass.

If you perform this operation to a zone, it will also be applied to all the sub zones. When the status of the parent zone and sub zone is in conflict, the platform will resolve it in the following ways:

- When a sub zone has been set to the normally open or closed mode, operating the parent zone will override the status of the sub zone.
- When the parent zone has been set to the normally open or closed mode, and you want to set a sub zone to a mode opposite to the parent zone, the platform will prevent you from doing so, and prompt that you must restore the parent zone to the normal status before setting the sub zone.

5.4.1.5 Viewing Real-time Event

When a person passes through an access point, an event will be reported to the platform. You can view the detailed information of that event.

Prerequisites

If you want to view recorded videos and live videos of an event, you must configure the following parameters first:

- Live video: Bind video channels to access points. For details, see "3.1.3 Binding Resources".
- Recorded videos: First, bind video channels to access points ("3.1.3 Binding Resources"). Then, select either of the 2 options: Configure recording plans for the bound video channels ("3.1.4 Adding Recording Plan"), or configure an event to link the bound video channels to record videos when a person passes ("4.1 Configuring Events").

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select \square > Access Management > Access Control > Access Control Panel.

Events from all zones are displayed in the **Event** section at the bottom of the page.

- <u>Step 2</u> Select a zone and the platform will display real-time events of that zone and its sub zones.
- <u>Step 3</u> Click O, and then you can view the snapshot, recorded video, and live video of the event.
- <u>Step 4</u> Locate the access point for an event.



- Click are not clicked, it displays the image and information of the person in the latest event; when clicked, the corresponding access point card will be highlighted, and it will display the image and information of the person of the selected event.
- Click in on the upper-right corner to display access points on the map. When events are not clicked, the status of the access point icons on the map will change in real-time; when clicked, the event information will be displayed on the map.

 \square

- You can drag the real-time events upwards.
- Click the person image at the lower-right corner, and then you can view it in a larger image.

Related Operations

- 💽: Stop receiving new events. Click it again to start receiving events.
- Image: Clear the events on the page, but they will not be deleted.

5.4.1.6 Viewing and Exporting Specified Events

View and export events in a specified zone, person group, and period.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select > Access Management > Access Control > Access Records > Event Records.

On top of the page, the numbers of different types of events are displayed for all zones by default.

<u>Step 2</u> Configure the search conditions, and then click **Search**.

Table 5-13 Parameter description

| Parameter | Description | | | | |
|--|---|--|--|--|--|
| Zone | Search for events in the selected zone. You can select multiple zones at the same time. | | | | |
| TimeSearch for events that occurred in the defined period. You can search for event within up to 1 month. | | | | | |
| | Search for events of people that belong to the selected group. | | | | |
| Person Group | The selected person group is empty by default. In this case, the search results will include events with no related person information, such as access by a person whose information is not on the platform, access by strangers, and alarms triggered by devices. If you want to clear the selection of a person group, click A, and then no person group is selected. | | | | |
| Person/Person ID/ Access Point | Select an option and enter keywords to search for certain events. For example, select Access Point and enter Front Gate to search for events of | | | | |
| Keywords | access points that have Front Gate in their names. | | | | |

Step 3 Click Export.



<u>Step 4</u> Enter the login password, encryption password, select whether to export images and the export range, select fields to be exported, and then click **OK**.

 \square

You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

- The encryption password is used to protect the export file. It consists of 6 uppercase or lower case letters, numbers, or their combinations. You need to enter it when using the export file.
- The export range can be all or specified events that are displayed.
- Select **Export Image** to export snapshots of the events at the same time.
- The fields to be exported include **Event Type**, **Event**, **Time**, **Zone**, and more.

5.4.1.7 Acquiring Records

The platform offers 2 methods for acquiring access records, manually or automatically. For the automatic method, only records within the past 24 hours will be acquired. But, the manual method can be used to acquire records from specified period and device.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select \square > Access Management > Access Control > Access Records > Event Records.
- Step 2 Click Acquire Records.
- <u>Step 3</u> Enter the login password, and then click **OK**.
- <u>Step 4</u> Acquire records.

\square

Select **Extract Image**, and then you can acquire images of the access records. Before using this function, you need to configure image storage. For details, see "3.3.2 Configuring Device Storage".

- **Auto Extraction** : The platform will acquire records within the past 24 hours at the defined time every day. How records are synchronized:
 - If records on a device was automatically synchronized to the platform, then the platform will synchronize all records from the time of the latest record from the last automatic synchronization to the time you set.

For example, the latest record from the last automatic synchronization was on 2024-6-18 16:00, time of automatic synchronization is set to 04:00 every day. The device was offline on 2024-6-18 18:00, and then reconnected on 2024-6-20 16:00, then the platform, on 2024-6-21 04:00, will synchronize the records generated on the device from 2024-6-18 16:00 to 2024-6-21 04:00.

 If records on a device has not been automatically synchronized to the platform, and the device went offline and online multiple times, the platform will synchronize all the records from the time of the latest record uploaded before the first offline, to the time you set.

For example, time of synchronization is set to 04:00 every day. The device first goes offline on 2024-6-18 16:00 with the latest record uploaded on 2024-6-18 15:00. Before the time of synchronization, the device goes offline and online multiple times. Then on 2024-6-19 04:00, the platform will synchronize the records generated on the device from 2024-6-18 15:00 to 2024-6-19 04:00.

 If records on a device has not been automatically synchronized to the platform, and records were not generated on the device and uploaded to the platform when



the device is online, then on the time of synchronization, the platform will synchronize the records on the device within the past 24 hours.

- Manual Extraction :
 - Select Extract Now, and then the platform will acquire records ranging from the last time that an extraction was performed which were not extracted.

Select **Extract Image**, and then you can extract images in the access records.

 Select Extract by Range, and then you can specify the time range, record type, and device.

5.4.1.8 Sending Reports

The platform supports sending reports to the specified receiver by sending now or auto send.

Prerequisites

You need to configure the email server from \mathbb{N} > System Parameters > Email Server. For details, see "7.3.4 Configuring Email Server".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select → **Access Management** > **Access Control** > **Access Records** > **Event Records**.
- <u>Step 2</u> Click **Send Report** , and then select **Send Now** or **Auto Send**.
 - Send Now : Click to select the receiver, or enter the email address of the receiver and then press Enter, configure the email content, start from sending which record, and the total records to be sent.
 - **Auto Send** : Automatically send reports to the receivers at specified time of each day or week.
 - 1. Enable Daily Report or Weekly Report, and then set the time.
 - 2. Click to select the receiver, or enter the email address of the receiver and then press Enter.

Step 3 Click OK.

5.4.1.9 Viewing Access Route

View the access route of a person on a map based on events.

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select > Access Management > Access Control > Access Records > Event Records.

The number of events in the root zone is displayed on the top of the page by default.

<u>Step 2</u> Select a zone, person group, and period, and then click **Search**.

You can search for event within up to 1 month.

 \square

The selected person group is empty by default. In this case, the search results will include events with no related person information, such as access by a person whose information is not on the platform, access by strangers, and alarms triggered by devices.

- <u>Step 3</u> Click to add multiple events to the temporary records.
- <u>Step 4</u> Click \checkmark to go to the temporary records.



<u>Step 5</u> Select the records, and then click **Generate Track** to generate the route.

The platform will play the route based on the time of events.

If events happened in multiple zones, and the maps of zones do not relate to each other as main and sub maps, the platform might not play the route normally.

5.4.1.10 Viewing and Exporting Analysis of People Entering and Exiting

When people pass through boundaries, the platform will count the number of people entering and exiting zones. You can view the number of each zone and export it to your computer.

Prerequisites

Set access points as boundaries. The platform will only count the number of people pass through boundaries. For details, see "4.5.2.5.2 Setting Boundary".

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the Home page, select $\square >$ Access Management > Access Control > Access Records > Analysis of People Entering and Exiting.
- <u>Step 2</u> Select one or more zones, boundaries, and the start time, and then click **Search**.

The platform will display the statistics of people entering and exiting the selected zone, and related events ranging from the start time to the current time. For example, the platform will display the statistics and events ranging from the defined start time 5-16 08:00:00 to the current time 5-17 10:00:00.

Step 3 Click Export.

<u>Step 4</u> Enter the login password, encryption password, select whether to export images and the export range, select fields to be exported, and then click **OK**.

 \square

You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

- The encryption password is used to protect the export file. It consists of 6 uppercase or lower case letters, numbers, or their combinations. You need to enter it when using the export file.
- The export range can be all or specified events that are displayed.
- Select **Export Image** to export snapshots of the events at the same time.
- The fields to be exported include **Event Type**, **Event**, **Time**, **Zone**, and more.

Related Operations

- Manually mark the enter or exit status for people:
 - On the list of Person Entered , Person Exited or Persons Who Did Not Exit after Entering,

click to see all access records of a person. Click to mark a record as invalid (the records will not be deleted). The invalid records can also be restored to be valid. The statistics and status of the person will change accordingly.

- On the list of **Persons Who Did Not Exit after Entering**, click to mark a person as "exited". The statistics and status of the person will change accordingly.
- You can filter the search results by **Person Group**, and also search the records by selecting **Person**, **ID**, **Access Point**, **Company**, or **Department**, and then entering the keywords.



5.4.2 Video Intercom Application

- You can call, answer, release information and view video intercom records.
- Make sure that you have configured the video intercom configuration before application. For details, see "4.6 Video Intercom". You can also click Video Intercom Config intercom configuration page.

5.4.2.1 Call Center

The platform, VTOs, VTHs, second-generation door station access controllers, and second-generation fence station access controllers can call each other.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click -> Access Management > Video Intercom > Call Center.

| Resources | Number of Houses 1 | Number of Devices 6 | | | Please ent | er the numb | er |
|-------------------------------|-------------------------------|---------------------|---------------------------|--|------------|-------------|-----|
| Search Q ✓ IT Current Site | 0 2#2#8011 | | vi 66 99#2#6001 | | | | |
| 点 mpy 点 lft 点 fxa | 🚸 SIP Offline | | 🔅 SIP Offline | | | | |
| ☆ chj ☆ net | 飞腾门禁12 2#2#8001 | | 〇 99#99#8001 | | | | |
| ☆ mx ☆ zmh ☆ AR | 🚸 SIP Offline | | 🚸 SIP Offline | | All Not A | | C # |
| 슈 wsp 슈 face | mcm 5#5#8001 | | VT0251 2#2#8002 | | | | |
| ∴ ARS | 🚸 SIP Offline | | 🔅 SIP Offline | | | | |
| | 1#1#1 1#1#1 1 Person(s) | | | | | | |
| | | o <i>د</i> | | | | | |

Figure 5-54 Call center

- <u>Step 2</u> You can call different devices.
 - Call from the platform to VTO

Select VTO in the device list; click local corresponding of VTO or dial a number on the dial pad to call the VTO. The system pops out call page. The following operations are supported during call.

- 🔠 If VTO is connected to lock, click this icon to unlock.
- Olick this icon to capture picture, the snapshot is saved into the default directory. To change the path, see "8.3.5 Configure File Storage Settings".
- Click this icon to start record, click again to stop record. The video is saved in default path. To change the path, see "8.3.5 Configure File Storage Settings".
- Click this icon to hang up.

\square

If the device supports two locks, two lock icons will appear on the page, and you can click either one to unlock corresponding door.

• Call from the platform to VTH

a hua

Select VTH from the device list, click on the VTH or dial corresponding VTH on the right (such as 1#1#101). The system pops up the dialog box of **Calling now, please wait ...**. There are two modes for answering the call.

- Answer by VTH, bidirectional talk between client and VTH. Press to hang up when you answer the call.
- ◇ If VTH fails to answer in 30 s, hangs up or is busy, then it means the call is busy.

| Calling 1#1#1 | | × |
|---------------|---------|---|
| | | |
| 00:01 | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Calling | |
| | 1#1#1 | |
| | | |
| | | |
| | | |

Figure 5-55 Calling

• Call from the platform to an access control device that supports video intercom

Select a device from the device list, click so on it or dial its number on the right (such as 1#1#101). The system pops up the dialog box of **Calling now, please wait ...**. There are two modes for answering the call.

- Answer by the device, bidirectional talk between client and the device. Press
 to hang up when you answer the call.
- If the device fails to answer over 30 s, busy or hang up directly, then it means the call is busy.
- Call from VTO to the platform

When a VTO calls, a window pops up.

- \diamond fill: Unlock the door if the VTO is connected to a door.
- ♦ Sector Sec
- ♦ **I** Hang up.
- When VTH is calling the platform

The client pops out the dialog box of VTH calling. Click 🕓 to talk with VTH.

- ◇ Click to answer VTO, realize mutual call after connected.
- Click to hang up.



• When an access control device that supports video intercom is calling the platform

The client pops out the dialog box. Click 🔨 to talk with the device.

Click **Click** to hang up.

• Call through call records

All the call records are displayed in the **Call Record** at the lower-right corner of the page of **Video Intercom**. Click the record to call back.

5.4.2.2 Releasing Messages

Send message to VTHs.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click -> Access Management > Video Intercom > Information Release.
- <u>Step 2</u> Click **Add New Message**, select one or more VTHs, and then configure the information you want to send.
- <u>Step 3</u> (Optional) Enable **Scheduled Release**, and then configure the time.
- <u>Step 4</u> Send the message.
 - If no scheduled release time is configured, click Instant Release, or click Save, and then click to send the message immediately.
 - If a scheduled release time is configured, click **Save**, and then the message will be sent on the defined time.

5.4.2.3 Video Intercom Records

Search for and view call records.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click -> Access Management > Video Intercom > Video Intercom Record.
- <u>Step 2</u> Set conditions, and then click **Search**.

The platform displays all the records according to the configured conditions.

<u>Step 3</u> (Optional) Click **Export**, and then follow the prompts to export all or partial records to your computer.

5.4.3 Visitor Application

After visitor information is registered, the visitor can have access permission. Access permission is disabled after the visitor leaves or if the visitor does not after the appointment leaving time.

5.4.3.1 Preparations

- You have configured the deployment of the video intercom devices, access control devices, and entrance and exit devices. For details, see the corresponding user's manual.
- You have configured the basic configuration of the platform. For details, see "3 Basic Configurations".



• Make sure that you have configured the visitor configuration before application. For details, see

"4.7 Visitor Management". You can also click Visitor Config configuration page.

5.4.3.2 Process

• Visitors who have not made appointments

After appointment, the visitors can quickly access by confirming their information through **Check In**.



• Visitors who have or have not made appointments

Visitors who have made an appointment can quickly access by confirming their information through **Check In**; if they have not made appointments, they need to fill out visitor information on site, this will take a few minutes before they can access.



• Visitors who created appointments by themselves or invited by host

After the platform administrator generates a visitor link through the platform, visitors can access the link to fill out their appointment information. Once approved, the appointment is successful.

If the visitor is invited by host, they will also need to fill out the host's email for verification and other information about the host.



| Process | Configuration Reference |
|--------------------------------|--|
| Visitor Appointment | "5.4.3.4 Visitor Appointment" |
| Check In | "5.4.3.6 Checking In" |
| Appointment Created by Visitor | "5.4.3.4.2 Creating Appointment by Visitors" |
| Host Invitation | "5.4.3.4.3 Appointment Invited by Host" |
| Review Appointment | "5.4.3.5 Reviewing Appointment" |
| Check Out | "5.4.3.7 Checking Out" |

5.4.3.3 Visitor Management

You can view visitor information, and perform operations such as visitor appointment, checking-in, appointment approval, and more.

Log in to the DSS Client. On the **Home** page, click \longrightarrow > **Access Management** > **Visitor** > **Visitor Management**, and then you can view visitor information and perform operations.



| Figure 5-56 | Visitor manag | gement |
|-------------|---------------|----------|
| J | | , |

| | Total 1506 | Σ | Appointment to b. | | re-booked Appoi 490 | • On V 2 | ⁄isit | | Over 13 | stayed | 1 |
|----------|---------------------|----------------|-------------------|------------------|------------------------|--------------|------------|--------------|------------|-----------|--------|
| lime Fil | Iter By Appointme | nt Time 🕓 | 06-18 00:00:0 | 0 - 06-18 23:5 📋 | t | | | | | | Search |
| Ľ v | isitor Registration | 対 Visitor Appo | Dintment 🛃 E | oport り Refre | sh 3 | | 4 | lost name, | host or | ganizatio | in Q |
| | Visitor Name | Email Address | Host Name ↓↑ | Appointm 1 | Visit Time 🕸 | Appointment | Status ↓↑ | Operat | ion | | \$ |
| | yin | yin @dah | llf | 2024-06-18 1 | | 2024-06-18 2 | Pending Ap | \checkmark | × | | |
| | bbbb1 | | aaaa1 | | 2024-06-17 0 | 2024-06-17 1 | Overstayed | ÷ | • | | |
| | jhkhk1 | | jjjkj | | 2024-06-14 1 | 2024-06-14 1 | Overstayed | ÷ | 0 | | • |
| | hjhg2 | | ghghgg | | 2024-06-14 1 | 2024-06-14 1 | Overstayed | ÷ | 0 | | • |
| | mmm | | 222 | 2024-06-14 1 | 2024-06-14 1 | 2024-06-17 1 | Overstayed | ÷ | • | | |
| | 10241a | | 6497b | 2024-06-08 1 | 2024-06-08 1 | 2024-06-08 1 | Overstayed | ÷ | • | | |
| | 69760a | | 33715b | 2024-06-08 1 | 2024-06-08 1 | 2024-06-08 1 | Overstayed | ÷ | • | | |
| | схх | | схх | 2024-06-12 0 | 2024-06-06 0 | 2024-06-15 1 | Overstayed | +J | • | | |
| | 3232434 | | 21111 | | 2024-06-05 1 | 2024-06-05 1 | Overstayed | ÷ | • | | |
| | fwwWALB1000 | 1000sdfsdfds | WALB1000 | 2024-06-30 1 | 2024-06-18 1 | 2024-07-01 1 | On Visit | ÷ | • | | • |
| | fwwWALB999 | 999sdfsdfdsf | WALB999 | 2024-06-30 1 | | 2024-07-01 1 | Pre-booke | -) | 8 | | |

Table 5-15 Visitor management description

| No. | Description | | | | | |
|---|---|--|--|--|--|--|
| | Displays the visitors in total and the number of visitors by access status. | | | | | |
| 1 | Appointment to be Approved : Visitors must be approved before they can access, if they create appointment by themselves or are invited by host from > Visitor > Visitor Appointment Config, and an approving role is configured. For details, see "4.7.2 Configuring Visit Settings". | | | | | |
| | After being approved, the status changes to Pre-booked Appointment. Pre-booked Appointment : Appointment has been made, but not checked in yet. On Visit : Already checked in, but not exceed the appointment leaving time. Overstayed : Not checked out after the appointment leaving time. | | | | | |
| 2 Filter the visitor information by appointment visit time, visit time, appointr time, or unlimited. | | | | | | |
| 3 | Search for visitors by host name, organization (department), or more. | | | | | |
| 4 | Perform operations such as visitor registration, visit appointment and exporting visitor information. See the following sections in this chapter. | | | | | |
| 5 | Visitor information list. Click • to select the fields that you want to display. | | | | | |



5.4.3.4 Visitor Appointment

Making appointment before visitor arrive will greatly reduce the time that visitors have to wait for their information to be recorded. After appointment, the visitor status changes to **Pre-booked Appointment**.

5 ways of appointment are available:

- Appointment through the platform. For details, see "5.4.3.4.1 Appointment through the Platform".
- Create appointment by visitors. For details, see "5.4.3.4.2 Creating Appointment by Visitors".
- Invited by host. For details, see "5.4.3.4.3 Appointment Invited by Host".
- Appointment DSS Agile app. For details, see the user's manual of the app.
- Invited by host through DSS Agile VDP app. For details, see the user's manual of the app.

5.4.3.4.1 Appointment through the Platform

Register the information of visitors on the platform before they arrive for their visits. This will greatly reduce the time that visitors have to wait for their information to be recorded.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > Access Management > Visitor > Visitor Management.

Step 2 Click **Visitor Appointment**.

<u>Step 3</u> Enter the information of host and visitor.

<u> _ ~ </u>

Click **Select Person on System**, and then select a person. The host information will be automatically filled in and cannot be edited; click **Select History Visitor**, and then select a history visitor. The information of this visitor will be automatically filled in and cannot be edited.



| Figure | 5-57 | Visitor | appointment |
|--------|------|---------|-------------|
| J | | | |

| ← Visit Details | | |
|----------------------|--------------------------------|----------------------------------|
| Visit Details | | Visit Details Host Info |
| Host Info | | Visitor Info |
| | | Certificate Access Permission |
| * Host Name | Host Email Address | |
| | | |
| Person Group | Host Organization (Department) | |
| | | |
| Host Room No. | | |
| xxx#xx#xxxxx ~ | | |
| Visitor Info | | |
| * Visitor Name | Visitor Company | |
| li_mingxia@it.com | | |
| ID Туре | ID No. | |
| ID Card \checkmark | | |
| Phone No. | Email Address | |
| | | |
| OK Cancel | | |

<u>Step 4</u> In the **Certificate** section, you can issue a card to the visitor, set the visitor face image, and generate visitor pass.

| Tab | Description | | | | |
|------|--|--|--|--|--|
| | Issue a card to a visitor. You can issue cards by entering card number manually or by using a card reader. | | | | |
| Card | A card number is 8-16 numbers. Only second-generation access control devices support 16-digit card numbers. When a card number is less than 8 numbers, the system will automatically add zeros prior to the number to make it 8 digits. For example, if the provided number is 8004, it will become 00008004. If there are 9-16 numbers, the system will not add zero to it. | | | | |
| | Issue cards by entering card numbers manually: Click Add , enter the card number, and then click OK. | | | | |
| | Issue cards by using a card reader: Click , select a card reader or device, and then click OK. Swipe card through the reader or device, and then a new card will be issued. | | | | |
| | Set the face image of the visitor. | | | | |
| Face | 1. Click Add. | | | | |
| | Click Select from Local Folder to select a picture, or click Snapshot to take a photo (if a camera is detected on your computer). | | | | |



| Tab | Description |
|--------------|---|
| | Click Generate to generate a QR code for the pass. |
| Visitor Pass | You can click Download Pass to download the QR code, and click Email Pass to send it to the visitor by email. |

<u>Step 5</u> Click the **Access Permission** tab, and then select access permissions for the visitor.

If you want to set video intercom devices and entrance and exit permissions, you must set host room number and number plate for the visitor.

By enabling **Inherit Host Permissions**, the visitor can share the access permissions with the host, but be noted that the host must be in the list of people on the system, and cannot be in the blocklist or the owner of a vehicle in the blocklist.

| Access Permission | | | | | |
|---|--------------|--------------|----------------------------------|------------------------------|-------------------------------------|
| Inherit Host Permissions | | | | | |
| Visitors can only inherit the permissions owner in the blocklist. | s of the hos | t when the i | nost is in the list of people of | i the system. The host canno | ot be in the blocklist of a vehicle |
| Access Control | Vie | deo Interc | om Entra | nce and Exit | Lift Control |
| Select Access Control Channe | ls | | Selected(2) | | ħ |
| Search | Q | | Channel Name | Device Name | Operation |
| ▼ 🔳 🖬 Current Site | | | Door1 | ASC3202B-45.26 | • |
| ► 🗆 📩 ylf- | | | Door46.45 | AR\$7213 | • |
| ▶ □ 点 | | | | | |
| ► 🗌 📩 Video Wall | | > | | | |
| ► 🗆 📩 ASI | | | | | |
| ► 🗆 📩 IPC | | | | | |
| ▶ 🗌 📩 пс | | | | | |
| ▶ 🗌 📩 192 | | | | | |
| ▶ □ ∴ orgp92 | | | | | |

Figure 5-58 Access permission

Step 6 Click OK.

After appointment, the visitor status changes to **Pre-booked Appointment**.

Step 7 (Optional) Proceed to check in, or click to cancel the appointment as the screen instructs.

Related Operations

Click the **Pre-booked Appointment** tab, and then you can import the visitor appointment information in batches.

1. Select Import > Import from File.



 \square

- A imported file cannot exceed 1 GB, 1 file can be imported at a time, and a maximum of 1,000 visitors can be imported at a time.
- Click **Visitor Import Records**, and then you can view the import records.

Figure 5-59 Import visitor appointment information in batches

| Total | Appointment to be A 0 | Approved Pre-booked Appointment | On Visit 0 | 0 Overstayed | | | |
|------------------------|-------------------------------|---------------------------------|-------------------|---------------------------|---------------------|-----------|-------|
| Time Filter Unlimited | | 4 | | | | S | earch |
| ☑ Visitor Registration | 🔁 Visitor Appointment 🛛 Visit | tor Notifications | t 🔾 Refresh | | | | n Q |
| Visitor Name | Email Address | Host Name II Import from File | t Visit Time ↓t | Appointment Leaving Ti Si | tatus 41 | Operation | ٥ |
| test-hj | | admin Visitor Import Records | | 2024-06-22 17:56:43 | | +1 😣 🖌 | |
| 🗆 fww | @=l.com | 001 2024-07-01 15:00 | :00 | 2024-07-31 14:00:00 | Pre-booked Appointm | +] 😣 🖍 | |

- 2. Click **Download Template**, and then fill in the information according to the template requirements.
- 3. Click **Import File** to import the completed template to the platform.

5.4.3.4.2 Creating Appointment by Visitors

After the platform administrator generates the visitor appointment link on the platform, visitors can access the link and fill out their appointment information. After approval, the visitor can access with the visit credential.

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **S**, and then in the **App Config** section, select **Visitor**.

<u>O-vr</u>

You can also go to the **Visitor Config** page by selecting **Access Management** > **Visitor**, and then clicking **S** at the lower-left side.

- <u>Step 2</u> Select **Visitor Appointment Config** > **Create Appointment**.
- <u>Step 3</u> Select the approver.

The approver must be a person that has been added to the platform in **Person and Vehicle Info** > **Person List**.

- <u>Step 4</u> Enable **LAN Access Entry** or **WAN Access Entry**, click **Send Email**, and then set the visitor's email. The platform will send an invitation link to the visitor's email through LAN or WAN.
- Step 5
 - Click **Regenerate** to generate a new link. The original link will be invalid.
 - Click 🔁 to copy the link.
- <u>Step 6</u> (Optional) Click **L** to download the QR code.
- Step 7 Click Save.
- <u>Step 8</u> The visitor clicks the link or scans the QR code to fill in the information, including their name, email, company (department), room number, appointment arrival time, and appointment leaving time, and the host's name, email address, license plate number, phone number, and more.



| Figure 5-60 Create appointment |
|--------------------------------|
|--------------------------------|

| eate Appointment | |
|--|---|
| Host Info | |
| Host Name | Host Email Address |
| Host Organization (Department) | Host Room No. |
| | x00<#x0<#x00000x |
| | Please enter the room number in the following format: Building # Room No. or Building # Unit # Room No you can contact the host to get information on the room number. |
| Visit Details | |
| Visitor Name | Face |
| • Email Address | |
| Visitor Company | |
| ID Type | ID No. |
| ID Card | × |
| Phone No. | Plate No. |
| | |
| Reason for Visit | Appointment Arrival Time |
| | 2024-06-28 12:01:08 |
| Appointment Leaving Time | |
| 2024-06-28 14:01:08 | Ö |

<u>Step 9</u> Approve the appointment.

When selecting **Host Approval**, the host will receive an email notification for approval; when selecting **Role**, the defined role will receive an approval notification in the platform's notification center at the upper right.

<u>Step 10</u> The visitor visits the host with the visit credential received through the email.

5.4.3.4.3 Appointment Invited by Host

After the platform administrator generates a visitor appointment link on the platform, visitors can access the link and verify the email of the host. They can then fill out their appointment information to make an appointment.

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **App Config** section, select **Visitor**.



<u>0-vr</u>

You can also go to the **Visitor Config** page by selecting **Access Management** > **Visitor**, and then clicking **N** at the lower-left side.

- <u>Step 2</u> Select Visitor Appointment Config > Host Invitation.
- <u>Step 3</u> (Optional) Enable **Approved by**, and select the approval role. The appointment must be approved before the visitor can visit; if not enabled, no approval is required.

 \square

If approval role is configured, the role can approve the appointment from **Access Management** > **Visitor** > **Visitor Management** > **Appointment to be Approved**. For details, see "5.4.3.5 Reviewing Appointment".

<u>Step 4</u> Enable LAN Access Entry or WAN Access Entry, click Send Email, and then set the visitor's email. The platform will send an invitation link to the visitor's email through LAN or WAN.

Step 5

- Click **Regenerate** to generate a new link. The original link will be invalid.
- Click 🔂 to copy the link.
- Step 6 (Optional) Click 🛃 to download the QR code.
- Step 7 Click Save.
- <u>Step 8</u> The visitor clicks the link or scans the QR code to fill in the information.
 - Enter the email address of the host, and then the system will then send a verification code to that email address.

 \square

You need to configure the person's email from **Person and Vehicle Info** > **Person List**; otherwise, the verification code cannot be sent.

Figure 5-61 Verify email of host

| LOGIN | ۷ |
|-------------------|---------------------|
| Email | |
| 🛛 liu 🔹 tech.com | Send Verification C |
| Verification Code | |
| A 6. 0 | |
| | |
| Log In | |

2. After entering the verification code, the visitor can select **Add Invitation** to proceed.

Click **My Invitation** to view the invitation records.

3. Fill out visitor information, including their name, email, company, reason for visit, license plate number, phone number, appointment arrival time, appointment leaving time, and more.



Figure 5-62 Host invitation

| Add Invitation | |
|--|--|
| Visit Details | |
| • Visitor Name | Email Address |
| Visitor Company | Reason for Visit |
| ID Type | ID No. |
| ID Card | ~ |
| Plate No. | Phone No. |
| Appointment Arrival Time | Appointment Leaving Time |
| 2024-06-28 12:05:39 | 2024-06-28 14:05:39 |
| | |

4. Click **OK**.

<u>Step 9</u> The approver approves the appointment (if approver has been configured).

<u>Step 10</u> The visitor visits the host with the visit credential received through the email.

5.4.3.5 Reviewing Appointment

The visitor cannot access before the appointment is approved, when review is enabled in **Visitor Appointment Config**. For details, see "4.7.2 Configuring Visit Settings".

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click > Access Management > Visitor > Visitor Management.
- <u>Step 2</u> Click the **Appointment to be Approved** tab.



<u>Step 3</u> Review the appointment.

- Click to approve the appointment. After this, the Status changes to Pre-booked Appointment.
- Click 🔀 to decline the appointment.
- Click to send the email to notify visitors configured through > Visitor > Visitor
 Appointment Config.

The host will also be reminded to give their approval if **Host Approval** is enabled in **Visitor** > **Visitor Appointment Config** > **Create Appointment**.

| Total 1507 | Appointment to b Pre-book 1 | ed Appoi On Visit | Overstayed 13 |
|------------------------|--|-----------------------------|--------------------------------|
| Time Filter Unlimited | <u> </u> | | Search |
| ☑ Visitor Registration | 🔁 Visitor Appointment 🔤 Visitor Notifications 🛃 | Export O Refresh | Host name, host organization Q |
| Visitor Name | Email Address Host Name 41 Appointm 41 Visit 1 | ime ו Appointment Status זי | Operation 🗘 |
| | yin_lulu@dah IIf 2024-06-18 1 | 2024-06-18 1 Pending | Ap 🗸 🗙 |

Figure 5-63 Approve appointment

5.4.3.6 Checking In

When a visitor with an appointment arrives, you need to confirm their information and give them access permission. On-site registration is supported when there is a walk-in visitor. Visitors can get access by swiping card, face recognition or scanning QR code.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select \longrightarrow > Access Management > Visitor > Visitor Management.
- <u>Step 2</u> Enter the information of the visitor.
 - If a visitor has an appointment, find their visitor information, and then click 1.
 - If a visitor does not have an appointment, click **Visit Registration**, and then configure visitor information. For details, see "5.4.3.4 Visitor Appointment".

Step 3 Click OK.

After checking in, the visitor status changes to **On Visit**.

5.4.3.7 Checking Out

When visitors are leaving, remove their access permissions.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square > Access Management > Visitor > Visitor Management.
- Step 2 Click the **On Visit** tab, and then click 🛃.
- Step 3 Click **OK** to remove access permission.

If you have issued a physical card to a visitor, make sure that the visitor returns the card before leaving.



Related Operations

Click the **Overstayed** tab, and then you can check out visitors that are overstayed in batches and send notifications to them.

- Check out in batches: Select Leave Now > Select All to Leave to remove access permissions of all overstayed visitors; or you can select visitors first, and then select Leave Now > Select to Leave to remove access permissions of just the selected visitors.
- Send notifications: Select **Overstayed Notifications** > **Send Now/Auto Send**, select the receiver or enter the receiver's email and press Enter, and then click **OK**, to send notifications to the specified receivers.

For **Auto Send**, you need to set the time to send the email each day.

| • ^{Total} • 1506 | Appointment to be 1 | | -booked Appointment 490 | On Visit 2 | Overstayed 13 | | | | |
|------------------------------|----------------------------|----------------------|----------------------------|--|--|-----------|--------------|----|-------|
| Time Filter Unlimited | | | | | | | | Se | earch |
| ☑ Visitor Registration | 🛱 Visitor Appointment 🚺 Ex | xport ←] Leave Now ∨ | Overstayed Notifications | ; ∨ 🗘 Refresh | | | | | |
| Visitor Name | Email Address | Host Name 41 | Appointment Arriva 🕸 | Visit Time 41 | Appointment Leaving Ti | Status ↓↑ | Operation | | ٥ |
| bbbb1 | | | | | | | | | |
| | | aaaa1 | | 2024-06-17 09:38:03 | 2024-06-17 11:38:03 | | +] @ | > | |
| jhkhk1 | | jjjkj | | 2024-06-17 09:38:03 2024-06-14 14:22:19 | 2024-06-17 11:38:03 2024-06-14 16:22:19 | | +] @ +] @ | | |
| jhkhk1 | | | | | | | | | |

Figure 5-64 Operations related to overstayed visit

5.4.3.8 Overstayed Visit

The visitor status changes to **Overstayed** if visitors do not check out within the appointment leaving time. In this case, you can check out these visitors in hatches, or send them notifications to remind them of the overstayed status.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click → **Access Management** > **Visitor** > **Visitor Management**.
- <u>Step 2</u> Click the **Overstayed** tab, and then you can check out visitors that are overstayed in batches and send notifications to them.
 - Check out in batches: Select Leave Now > Select All to Leave to check out all overstayed visitors; or you can select visitors first, and then select Leave Now > Select to Leave to remove access permissions of just the selected visitors.
 - Send notifications: Select Overstayed Notifications > Send Now/Auto Send, select the receiver or enter the receiver's email and press Enter, and then click OK, to send notifications to the specified receivers.

For **Auto Send**, you need to set the time to send the email each day.

Figure 5-65 Operations related to overstayed visit

| • • Tot | a 506 🛛 🤇 | Appointment to be Approved | Pre-booked Appointment | On Visit 2 | Overstayed 13 | | | | | |
|----------------|------------------------------|----------------------------|----------------------------|---------------------|------------------------|-----------|---------|-----|---|--------|
| Time Filter Un | limited ~ | | | | | | | | s | Search |
| 🕑 Visitor Re | gistration 🛱 Visitor Appoint | tment 🛃 Export 🕂 Leave Now | V V Verstayed Notification | ons 🗸 🥠 Refresh | | | | | | |
| Visito | er Name Email Ad | Idress Host Name ↓↑ | Appointment Arriva | Visit Time | Appointment Leaving Ti | Status ↓↑ | Operati | ion | | ¢ |
| bbbb1 | | aaaa1 | | 2024-06-17 09:38:03 | 2024-06-17 11:38:03 | | | | 1 | |
| jhkhk: | 1 | jjjkj | | 2024-06-14 14:22:19 | 2024-06-14 16:22:19 | | | | | |
| hjhg2 | | ghghgg | | 2024-06-14 14:21:42 | 2024-06-14 16:21:42 | | | | | |
| mmm | | 222 | 2024-06-14 10:31:38 | 2024-06-14 10:31:56 | 2024-06-17 12:31:38 | | | | | |



5.4.3.9 Visit Records

Search for visit records, and view visitor details and card swiping records.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click > Access Management > Visitor > Visitor Records.
- <u>Step 2</u> Set search conditions, such as visitor name, phone name, email address, card number, ID number, host name, host organization (department), appointment arrival time or visit time (60 days before at most), status (unlimited, visitor left, appointment cancelled, and access denied).
- Step 3 Click Search.

The results are displayed.

In addition to entering the card number, you can also click 💁, select a card reader and then get the card number by swiping card.

<u>Step 4</u> Click O to view visitor details and card swiping records.

5.5 Parking Lot

You can monitor vehicles that enter and exit in real time, view vehicle information, and search for on-site vehicle, exit vehicle and snapshot records.

5.5.1 Entrance and Exit Monitoring

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click > **Parking Lot** > **Entrance and Exit Monitoring**.
- <u>Step 2</u> Select the number of windows you want from \blacksquare \equiv \blacksquare \blacksquare .
- <u>Step 3</u> Click **Select Entrance and Exit.**, select an entrance or exit point, and then click **OK**.

The real-time video of that point will be opened in the window.



Figure 5-66 Monitor entrances and exits

| Channel mcm_1 is offline | | |
|---|------------------------------------|--|
| | | |
| | Select Entrance and Exit | |
| | | No barrier opening records were found. |
| | | |
| K Select Entrance and Exit | Select Entrance and Exit | |
| Passed Vehicle Record | | e 📰 📰 |
| Parking Lot Name Point Name Entrance/Exit Name Driving Direction Capture Time | Plate No. Fuzzy Match Vehicle Attr | ibute Permission Owner Name Operation |

Table 5-17 Page description

| No. | Description |
|-----|---|
| 1 | Select the number of windows you want. Each window can display the real-time video of one entrance or exit point. |
| 2 | Full screen mode. |
| 3 | Displays records of barriers not opened. |
| 4 | All entrance and exit records. |
| | The real-time video of an entrance or exit point. Click to open the real-time video of another entrance or exit point in the window. Click to open the barrier for vehicles. |
| 5 | Open without Recording Plate Info : Open the barrier for vehicles without recording their plate numbers. If you select Count Parking Spaces at the same time, the number available parking spaces in the parking lot will decrease or increase depending on whether the vehicles are entering or leaving. This operation will not generate an enter or leave record. Open and Record Plate Info : This is applicable to when the ANPR cameras cannot recognize the number plates. You can manually enter the number plate, and a snapshot will be taken, and then the platform will generate an entrance or exit record. |

5.5.2 Searching for Records

Search for entry and exit records, forced exit records, and snapshot records.



5.5.2.1 Searching for Entrance Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Entrance Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

Click **Show More** and you can search by vehicle owner, company, person group, and more.

- <u>Step 4</u> Manage the records.
 - Click the image, and then a bigger one will be displayed.
 - Double-click a record or click , and the detailed information is displayed on the right. Click the icon to view the corresponding detailed information. Click the play icon

to play the recorded video, and then click to download it. Click red to modify the information of the vehicle, such as the plate number, brand and color.



Figure 5-67 View details

| Details | | | × |
|----------------------|----------|----------------------------|---|
| - | Þ | | |
| Info | Snapshot | Recording Layers | |
| Entry Info | | | |
| Entrance Plate No. | | Fuzzy Match | |
| anatan 🖌 | | No | |
| Recognized Plate No. | | Place of Issue | |
| | | | |
| Entrance Time | | Vehicle Attribute | |
| 2024-06-24 17:20:02 | | Non-registered Vehicle | |
| Permission | | Already Exited | |
| Allowed to Pass | | Yes | |
| Parking Lot | | Entrance Point | |
| rjx | | 1 | |
| Entrance Name | | Vehicle Color (Recognized) | |
| 123 | | Red 🖌 | |
| Vehicle Category | | Vehicle Brand (Recognized) | |
| Other | | Audi 💉 | |
| | | | |
| Owner Info | | | |
| | | | |

For the dual camera mode, click each channel to view the information it captured.

Click **Snapshot** or **Recording** to view the snapshots or recordings.

• Forced exit.

If a vehicle has exited but it is displayed as inside the parking lot, click F to record it as exited the parking lot.

Export records.

Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.

• Click and then select the items to be displayed.



5.5.2.2 Searching for Exit Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Exit Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

Click **Show More** and you can search by vehicle owner, company, person group, and more.

- <u>Step 4</u> Manage the records.
 - Click the image, and then a bigger one will be displayed.
 - Double-click a record or click , and the detailed information is displayed on the right. Click the icon to view the corresponding detailed information. Click the play icon

to play the recorded video, and then click to download it. Click red to modify the information of the vehicle, such as the plate number, brand and color.



Figure 5-68 View details

| Details | | | × |
|----------------------|----------|---------------------|----------|
| - - | Ð | | |
| Info | Snapshot | Recording | Layers |
| | Chaponor | heed ang | |
| Entry Info | | | |
| Entrance Plate No. | | Fuzzy Match | |
| menani 🦯 | | No | |
| Decognized Dista No. | | Place of Issue | |
| Recognized Plate No. | | | |
| | | | |
| Entrance Time | | Vehicle Attribute | |
| 2024-06-24 17:20:02 | | Non-registered Veh | licle |
| Permission | | Already Exited | |
| Allowed to Pass | | Yes | |
| Parking Lot | | Entrance Point | |
| rjx | | 1 | |
| Entrance Name | | Vehicle Color (Reco | anized) |
| 123 | | Red | 'gnizeu) |
| | | Neu 🗸 | |
| Vehicle Category | | Vehicle Brand (Reco | ognized) |
| Other | | Audi 🖌 | |
| | | | |
| | | | |
| Owner Info | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

For the dual camera mode, click each channel to view the information it captured.

Click **Snapshot** or **Recording** to view the snapshots or recordings.

• Export records.

Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.

• Click and then select the items to be displayed.

5.5.2.3 Searching for Forced Exit Records

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.



<u>Step 2</u> Click the **Forced Exit Records** tab.

<u>Step 3</u> Configure the search conditions, and then click **Search**.

 \square

Click **Show More** and you can search by vehicle owner, company, person group, and more.

- <u>Step 4</u> Manage the records.
 - Click the image, and then a bigger one will be displayed.
 - Double-click a record or click , and the detailed information is displayed on the right. Click the icon to view the corresponding detailed information. Click the play icon

to play the recorded video, and then click to download it. Click to modify the information of the vehicle, such as the plate number, brand and color.

| Details | | | | × |
|---------------------------|----------|---------------------|----------|---|
| - | • 🕞 | | | |
| Info | Snapshot | Recording | Layers | |
| Entry Info | | | | |
| Entrance Plate No. | | Fuzzy Match | | |
| | | No | | |
| | | | | |
| Recognized Plate No. | | Place of Issue | | |
| | | | | |
| Entrance Time | | Vehicle Attribute | | |
| 2024-06-24 17:20:02 | , | Non-registered Veh | ido | |
| 2024-00-24 17.20.02 | | Non-registereu ven | | |
| Permission | | Already Exited | | |
| Allowed to Pass | | Yes | | |
| Parking Lot | | Entrance Point | | |
| rjx | | 1 | | |
| | | | | |
| Entrance Name | | Vehicle Color (Reco | gnized) | |
| 123 | | Red 🖌 | | |
| | | | ·: | |
| Vehicle Category Other | | Vehicle Brand (Reco | ognizea) | |
| Ouler | | Audi 🖍 | | |
| | | | | |
| | | | | |
| Owner Info | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Figure 5-69 View details

For the dual camera mode, click each channel to view the information it captured.



Click Snapshot or Recording to view the snapshots or recordings.

- If a vehicle is inside the parking lot but it is displayed as exited, click F to record it as inside the parking lot. When parking space counting by entering and exiting vehicles is enabled for the parking lot, and the vehicle will be counted for available parking space, this operation will subtract an available parking space for the parking lot.
- Export records.

Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.

• Click and then select the items to be displayed.

5.5.2.4 Searching for Capture Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Capture Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

 \square

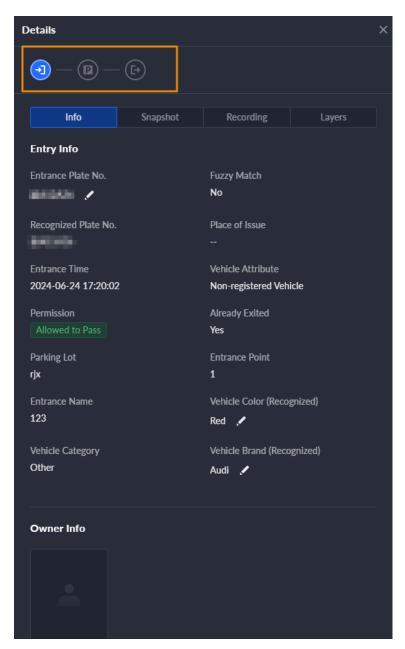
Click **Show More** and you can search by vehicle owner, company, person group, and more.

- Step 4 Mange records.
 - Click the image, and then a bigger one will be displayed.
 - Double-click a record or click , and the detailed information is displayed on the right. Click the icon to view the corresponding detailed information. Click the play icon

to play the recorded video, and then click is to download it. Click is to modify the information of the vehicle, such as the plate number, brand and color.



Figure 5-70 View details



For the dual camera mode, click each channel to view the information it captured.

Click **Snapshot** or **Recording** to view the snapshots or recordings.

• Restore entry.

If **Yes** is displayed under **Exited** when the vehicle is still in the parking lot, click or change the status to **No**.

Export records.

Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.

• Click 💁 and then select the items to be displayed.



5.6 Intelligent Analysis

View real-time and history people counting data, heat maps, and number of people in an area.

5.6.1 People Counting

View the real-time and historical people count from all the devices in a people counting group.

5.6.1.1 Real-time Count

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Intelligent Analysis** > \blacksquare > **Real-time Count**.
- Step 2 Double-click a group or drag it to a window on the right to display its real-time data.

Use the buttons 💻 🗮 🎬 🕄 on the upper-right corner to set the number of windows and to display in full screen.

- **Occupancy** : The number of people currently inside this group, which will be reset to the defined value at the defined calibration time.
- **Entered** : The number of people entered this group, which will be reset to zero at the defined calibration time.
- **Exited** : The number of people who left this group, which will be reset to zero at the defined calibration time.
- Color of the light:
 - \diamond Red light: Occupancy ≥ overlimit threshold.
 - ◇ Yellow light: Crowded threshold ≤ occupancy < overlimit threshold.
 - ♦ Green light: Occupancy < normal threshold.</p>

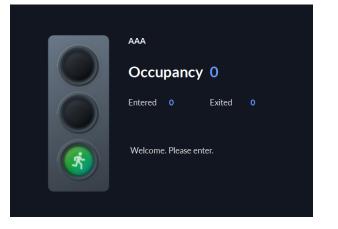


Figure 5-71 Real-time count

- Step 3 Hover you mouse on the window displaying real-time data, and then click
- <u>Step 4</u> You can enter a number of people to overwrite the current data, and customize the content to be displayed for green, yellow and red light.



Figure 5-72 Edit the content and data

| Edit | × |
|-------------------------------|-------------------------|
| People Counting Group Name | Number of People Inside |
| AAA | |
| Prompt | |
| Overlimit Crow | rded Normal |
| ▲ B <i>I</i> ⊻ ≣ ≡ ≡ | |
| Welcome. Please enter. | |
| | OK Cancel |



5.6.1.2 Historical Count

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \longrightarrow > **Intelligent Analysis** > **People Counting** > **Historical Count**.
- <u>Step 2</u> Select the groups you want in **Groups**, or select the channels in **Resources**.
- <u>Step 3</u> Configure the search settings, and then click **Search**.
 - **Groups** : Groups are people counting groups, which allow you to combine and calculate the people flow data from multiple rules across different devices and channels. You can search for historical people flow data from one or more people counting groups.
 - **Resources** : Search for historical people flow data from one or more channels. The data from all the rules of a channel will be included.



If a device is offline, it will upload all the data to the platform when it is online again.





| Filter | DailyReport 2024-06-20 🗊 |
|------------------|---|
| Groups Resources | Le Expert nit ~ ≔ |
| Search Q | People Enter and Exit Entry People 0 Exit People 0 Exit People 0 |
| ✓ All ✓ ▲ AAA | 1 |
| | |
| | |
| | |
| | |
| | |
| | 01:00 02:00 08:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 00:00 |
| | Number of Retention Number of Retention 0 |
| | 1 |
| | |
| | |
| | |
| Report Type | |
| Daily ~ | |
| | 01.00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 00:00 |
| 2024-06-20 | |
| | Pass No. • Pass No. 0 |
| Search | |

Related Operations

- Example the display format of the data.
 - Only daily reports displaying the number of retention.
- **Export** : Export the data into a .zip file to your computer.

5.6.2 Heat Maps

View heat maps generated by devices. A heat map shows the distribution of people flow by different colors, such as red for many people have visited an area and blue for only a few people have visited an area. The platform supports generating general heat maps and advanced heat maps. Only fisheye cameras support advanced heat maps.

Prerequisites

Configure the channel feature for either type of heat maps. For details, see "3.1.2.5.2 Modifying Device Information".

- General heat map: Select the **General Heat Map** from the channel features.
- Advanced heat map: Select the **Advanced Heat Map** from the channel features.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square > **Intelligent Analysis** > \square .
- <u>Step 2</u> Select a channel, and then generate a heat map.
 - You can generate a heat map with data from up to one week.
 - Generate a general heat map.

 \square

Configure the time, and then click **Search**.



- Generate an advanced heat map.
- 1. Select how you want to generate the heat map, Number of People or Time.
- 2. Configure the threshold.

 \square

- When you select **Number of People**, the area with the closest number of people to the threshold will be in red.
- When you select **Time**, the area where people stay for a duration closest to the threshold will be in red.
- 3. Set the time, and then click **Search**.

<u>Step 3</u> Click **Export** on the upper-right corner to export the heat map to your PC.

5.6.3 In-area People Counting

View statistics on the number of in-area people.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click -> **Intelligent Analysis** > **In Area No. Analysis**.
- <u>Step 2</u> Select a channel and configure the search settings, and then click **Search**.
 - **Report Time** : You can search for **Daily**, **Weekly** or **Monthly** reports.
 - **Stay Duration** : The duration that the people stay in the area. You can select from 5 seconds, 30 seconds, and 60 seconds. After you select the duration, for example 60 seconds, the list displays the people stay less than 60 seconds and not less than 60 seconds in different colors.

 \square

If a device is offline, it will upload data within the past 24 hours to the platform when it is online again.

| Resources | DailyReport 2024-06-20 (1) | |
|----------------------------------|---|---|
| Search Q | Le Export | ~ |
| 👻 🖬 Current Site | Stay Time Statistics • Stay time less than 5 sec • Stay time not less than 5 sec | |
| ▶ 🗹 ṁ mpy | | |
| ▶ 🗹 点 lft | | |
| ► 🗹 📩 fxa | | |
| ▶ 🗹 点 chj | | |
| ► 🗹 🕸 xxx001 | | |
| ▶ 🗹 点 net | | |
| ▶ 🗹 点 mx | | |
| ▶ 🗹 点 zmh | | |
| ▶ 🗹 点 AR | | |
| 🕨 🗹 🕸 qcl-paxton-bri | | |
| 🕨 🗹 🕸 qcl-nedap-bri | | |
| ▶ 🗹 点 wsp | | |
| ▶ 🗹 📼 73 | | |
| ▶ 🗹 🚍 10.55.107.72 | | |
| Report Type | | |
| Daily | | |
| Time | | |
| 2024-06-20 📛 | | |
| | | |
| Stay Duration Stay Time 5 sec v | | |
| | | |
| | | |
| Search | 01-00 02:00 03:00 04:00 05:00 04:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 05:00 | 0 |

Figure 5-74 In-area people number statistics



Related Operations

- Export : Export the data to your PC.



6 General Application

6.1 Target Detection

View and search for the metadata of people, vehicle, and non-motor vehicle.

Target detection can be done by video metadata cameras + a platform, or IPCs + IVSSs + platform.

6.1.1 Typical Topology

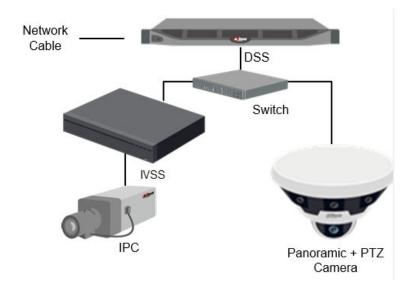


Figure 6-1 Typical topology

- General cameras record videos.
- Video metadata cameras such as panoramic + PTZ camera record videos, analyze people, motor and non-motor vehicles.
- IVSS manages cameras and analyzes people, and motor and non-motor vehicles.
- The platform centrally manages IVSS and cameras, receives analysis results from cameras and displays the reports.

6.1.2 Preparations

Make sure the following preparations have been completed:

- Cameras and IVSS are correctly deployed, and video metadata is enabled on them. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure the parameters, see "3 Basic Configurations".
 - When adding a camera or IVSS, select **Encoder** for device category.
 - After adding the camera or IVSS to the platform, select Metadata Attribute Report Capability from Features of the device.

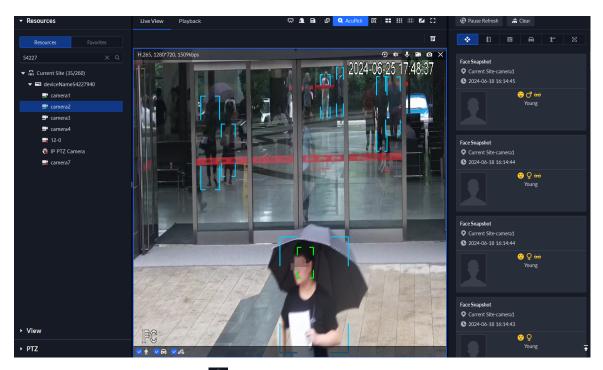


6.1.3 Live Target Detection

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then select **Monitoring Center** > **Monitoring**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.

Figure 6-2 Live view



Step 3 Click 🗐 and then click 🌄 to view live metadata events.

- <u>Step 4</u> View live video, and human body, vehicle, and non-motor vehicle information.
 - Click an event record to view the event snapshot. You can play back the video of the event. Different events support different operations.
 - When playing back video, click to download the video to a designated path.
 - Click 왿 to play back the video before and after the snapshot.
 - Click T to delete event information.
 - Click to view the most recent events.

6.1.4 Searching for Metadata Snapshots

Search for metadata snapshots by setting search criteria or uploading images.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepXplore**.
- Step 2 Click Integrated Retrieval.
- <u>Step 3</u> Set search criteria.



You can search for metadata snapshots in the **Record**, **Person** or **Vehicle** section. For details, see "5.3 DeepXplore".

6.2 ANPR

View automatic number plate recognition in real time or search for records.

• Automatic number plate recognition

The platform displays vehicle snapshots and ANPR results in real time.

• Vehicle records

Search for vehicle records according to the filtering conditions you have set.

6.2.1 Typical Topology

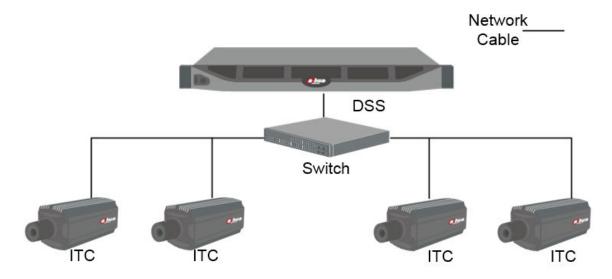


Figure 6-3 Typical topology

- ANPR cameras (ITC camera) capture and recognize vehicles.
- DSS centrally manages ANPR cameras, receives and displays vehicle snapshots and information uploaded from the cameras.

6.2.2 Preparations

Make sure that the following preparations have been made:

- ANPR cameras are added to the platform, and the ANPR function is configured. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding an ITC camera, select ANPR Device for device category, and then select ANPR Device for Device Type.
 - ANPR snapshots are only stored on ANPR Picture disks. On the Storage page, configure at least one ANPR Picture disk. Otherwise vehicle pictures cannot be viewed.



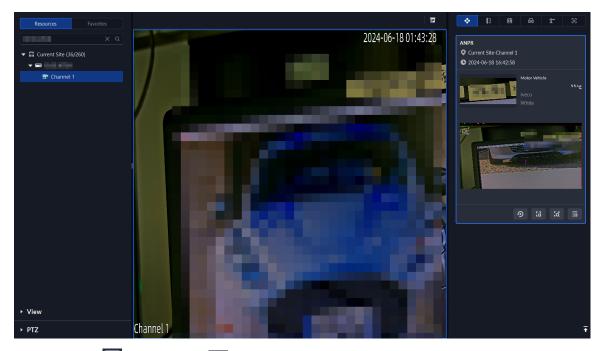
6.2.3 Live ANPR

View ANPR live video and plate snapshots.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \square , and then select **Monitor Center** > **Monitoring**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.

Figure 6-4 Live view



<u>Step 3</u> Click \blacksquare and then click \blacksquare .

<u>Step 4</u> View live ANPR events.

- Click an event record to view event snapshots. You can also play back the video of the event. Different events support different operations.
- This function is only available when a license plate is recognized. Click this icon to add the vehicle to an arming group. After you send the group to devices and configure an event, devices can trigger alarms when the vehicle is recognized.
- **ED**: Add the vehicle to the platform.
- When playing back a video, click ¹ to download the video to a designated path.
- Click Of the play back the video before and after the snapshot.
- Click 📠 to delete event information.
- Click to view the most recent events.



6.2.4 Searching for Vehicle Snapshot Records

If there are recorded videos on devices, you can view recorded videos linked to the capture records by searching for them. Each video will be 20 s long, with 10 s before and after the time of capture. When playing a video, it will start at 10 s before the time of capture.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepXplore**.
- Step 2 Click Integrated Retrieval.
- <u>Step 3</u> Configure the search conditions.

You can search for vehicle snapshots in the **Record** or **Vehicle** section. For details, see "5.3 DeepXplore".

6.3 Face Recognition

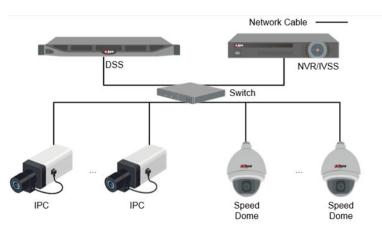
Configure face recognition settings on the device and the platform before you can view face recognition results on the platform.

6.3.1 Typical Topology

The face recognition feature is available on select models of NVR, IVSS and FR cameras.

• Face recognition by NVR/IVSS

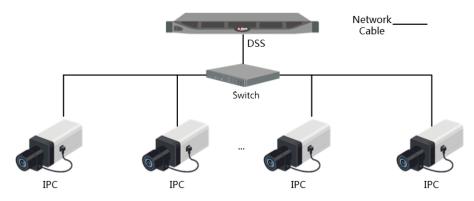
Figure 6-5 Typical topology (NVR/IVSS)



- ◇ Cameras record videos.
- ◇ NVR/IVSS is used for face recognition and storage.
- DSS centrally manages cameras, NVRs, and the face database, and provides live view and face search.
- Face recognition by camera



Figure 6-6 Typical topology (camera)



- Cameras record face videos, and detect and recognize faces.
- DSS centrally manages cameras, NVRs, and the face database, and provides live view and face search.

6.3.2 Preparations

Make sure that the following preparations have been made:

- Face recognition devices are correctly configured. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding face recognition devices, select **Encoder** for device category.
 - After adding a face recognition NVR or IVSS, select Face Recognition for Features of the corresponding channels.
 - After adding face recognition cameras or face detection cameras, select Face Recognition or Face Detection for Features.
 - Face snapshots are stored in the Face/Alarm and Other Pictures disk. Configure at least one local disk for picture storage. Otherwise, the platform cannot display snapshots.

6.3.3 Arming Faces

Before arming faces, you need to add the persons to face recognition group. For details, see "4.4.1 Face Arming List".

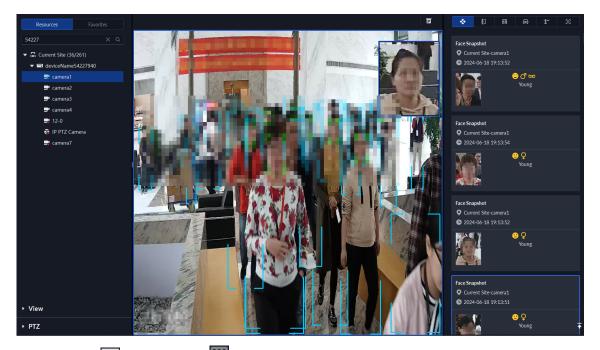
6.3.4 Live Face Recognition

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitor Center** > **Monitoring**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.



Figure 6-7 Live view



<u>Step 3</u> Click \blacksquare , and then click \blacksquare to view live face recognition information.

- <u>Step 4</u> View live video.
 - Click an event record to view event snapshots. You can play back the video of the event. Different events support different operations.
 - Add the person to the platform or add the person to an arming group. After you send the arming group to devices and configure an event, devices can trigger alarms when the face is recognized.
 - When playing back video, click 📩 to download the video to designated path.
 - Click D to play back the video before and after the snapshot.
 - Click 🕐 to refresh events; click 🐠 to pause refreshing.
 - Click 📠 to delete event information.
 - Click T to view the most recent events.

6.3.5 Searching for Face Snapshots

Search for face snapshots by setting search criteria or uploading images.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepXplore**.
- <u>Step 2</u> Click **Integrated Retrieval**.
- <u>Step 3</u> Configure the search conditions.

You can search for snapshots in the **Record** or **Person** section. For details, see "5.3 DeepXplore".



7 System Configurations

This chapter introduces system parameters configuration, license, service management, and backup and restore.

7.1 License Information

Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.

Click O of an activation code to view its details, such as time of activation and resources you can connect to the platform.

7.2 License

The system controls channel and function availability through the license. User can buy a license according to the channels and functions as needed.

 \square

The platform is unlicensed by default after being deployed.

License Types

• Trial

A trial license is limited in capacity and expires in 90 days.

Paid

To acquire full control of the features and permanent use, you need to buy a formal license. After activating the first paid license, if you want to increase your license capacity, you can buy more license codes. For example, if you have 500 channels currently, you can buy another 500 channels. After activating the new 500 channels, you will have 1,000 channels in total.

Unlicensed

Lack permissions to use the system. This occurs after deactivating.

 \square

For expired trial version and unlicensed version, all modules are displayed as unauthorized, except for the resources, license, tools, and management modules.

Activation Methods

• Normal online activation

When the platform server is connected to the Internet, it can connect to the license server, which supports online license activation by verifying the activation code.

Normal offline activation

When the platform server is on a local area network, it cannot connect to the license server. You need to obtain the license file from a computer with Internet access, and then import the license file to the platform to activate it.



7.2.1 Activating License

For details about activating a license, see "2.1.6.2 Activating License".

7.2.2 Deactivating License

After deactivation, the platform will be unauthorized. A deactivated license can be activated again on other servers, allowing users to change servers. The license can be deactivated with online and offline deactivation. If the server is connected to the network, use online deactivation. Otherwise use offline deactivation.

7.2.2.1 Online Deactivation

Background Information

Select this method if your platform sever is connected to a network.

Procedure

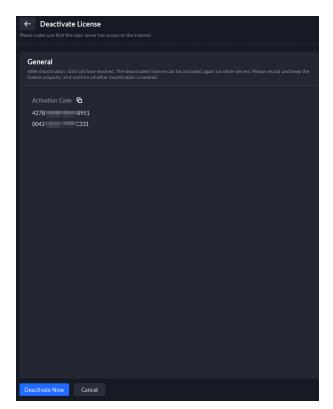
- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.
- <u>Step 2</u> Click **Deactivate License**, and then select **Online Deactivation**.
- Step 3 Click OK.
 - \square

The license is reusable. We recommend copying the license code by clicking 🖬 and then saving it locally.

<u>Step 4</u> Click **Deactivate Now**, and then follow the onscreen instructions to finish deactivation.



Figure 7-1 Online deactivation



7.2.2.2 Offline Deactivation

Background Information

Select this method if your platform server has no Internet access.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.
- <u>Step 2</u> Click **Deactivate License**, and then click **Offline Deactivate License**.

Figure 7-2 Offline deactivation

| ← Deactivate License |
|--|
| |
| General After deactivation, DSS will lose revoked. The deactivated license can be activated again on other servers. Please record and keep the license properly, and confirm whether deactivation is needed. |
| Step 1. Open DSS License Management web page on a PC with Internet access. Upload the license request file from Step 2. |
| DSS License Management |
| Step 2. |
| Activation Code 🖪 |
| 427B |
| 0042 C331 |
| Export offline license request file |
| Export |

<u>Step 3</u> Click **Export** to export and save the license deactivation file locally.



\wedge

After the license deactivation file is exported, the platform will become unauthorized, and you cannot use any function.

<u>Step 4</u> Move the request file to a computer with Internet access. On that computer, open the system email that contains your license, and then click the attached URL go to the license management page.

<u>Step 5</u> Select **DSS** > **Deactivate License**.

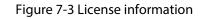
<u>Step 6</u> Upload the license request file obtained from <u>Step 3</u>, and then follow on-screen instructions to finish the process.

7.2.3 Maintenance Renewal

Displays the maintenance information, and extend the maintenance time.

Procedure

- <u>Step 1</u> Log in to the client, on the main page, click **S**.
- <u>Step 2</u> Select **License**.



| DSS Express V8.5.0 | License Details | | | | |
|--|--------------------|-------------|--------------|------------|------------|
| - Official Version | Resources | | | | |
| Expiration Date | Resource Type | Total | Used | Unused | Status |
| Maintenance Expiration Date 2026/11/11, 867 Days Left | Video Channel | | | | Authorized |
| License Management | Door Channel | | | | Authorized |
| Activate License | VDP Device | 100 Devices | 6 Devices | 94 Devices | Authorized |
| Ocactivate License | Alarm Controller | 16 Devices | 2 Devices | 14 Devices | Authorized |
| Maintenance Renewal <u>ikense Management URI</u> | DSS Aglie VDP User | | | | Authorized |
| | Add-ons | | | | |
| Activation Code 🗊 🛛 🕫 着 | Module | | Status | | |
| | Parking Management | | 🧭 Authorized | | |
| | | | 🛇 Unauthori | | |
| | Multiple Sites | | Authorized | | |
| | | | | | |

- <u>Step 3</u> The version information and maintenance expiration date and activation code are displayed.
- <u>Step 4</u> (Optional) You can extend the maintenance time, when it expires.
 - Online maintenance renewal.
 - 1. Enter the maintenance activation code. Supports entering multiple activation code.
 - 2. Select the function resource activation code to be maintained.
 - 3. Click **Activate Now**.

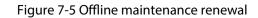


Figure 7-4 Online maintenance renewal

| ← Online Maintenance Renewal | |
|--|--|
| | |
| Step 1:Enter the maintenance activation co | le |
| Maintenance Activation Code | |
| | + |
| | |
| | |
| Stop 2: Colort the function recourse activity | an order to be mointained |
| Step 2:Select the function resource activation | |
| Please make sure that the number of maintee | enance period of the activation code for the function license. enance resources for the selected function license activation code resources for the maintenance activation code. |
| Activation Code | Maintenance Resources |
| Activation Code | |
| ✓ 5 | 1300032 |
| | |
| | |
| | |
| | |
| Total | 1300032 |
| | |
| | |
| | |
| Activate Now Cancel | |

- Offline maintenance renewal.
 - 1. Enter the maintenance activation code. Supports entering multiple activation codes.
 - 2. Select the function resource activation code to be maintained.
 - 3. Click **Export** to export offline license request file.
 - 4. Click **DSS License Management** to open the license management webpage or click **1** to copy the license management address and then open it through a browser.
 - 5. Click To upload the request file, and then click **Activate**.





| ÷ | Offli | ne Mainte | enance Renewal | | | | | |
|------|---|---------------|----------------|---|----------|-----------------------|--|--|
| | | | | | | | | |
| | | | | | | | | |
| | Maintenance renewal will extend the maintenance period of the activation code for the function license. Please make sure that the number of maintenance resources for the selected function license activation code is the same as the number of maintenance resources for the maintenance activation code. | | | | | | | |
| | | Activation | Code | | | Maintenance Resources | | |
| | | | | | | 1300032 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| | | Total | | | | | | |
| E | Export of | fline license | request file | | | | | |
| | Export | | | | | | | |
| | | | | | | | | |
| Ste | ep 3:Up | load Reque | est File | | | | | |
| Op | | | | | | | | |
| | | nse Manager | mont G | | | | | |
| | DOD LICCI | | | | | | | |
| 64 | ep 4:Ac | 4 | | | | | | |
| | | | | | | | | |
| File | e Path | | | | | | | |
| | | | | • | Activate | | | |
| | | | | | | | | |

7.3 System Parameters

Configure security parameters, storage retention duration, email server, time sync, remote log, login method, and more.

7.3.1 Configuring Security Parameters

Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter** > **Security Parameter**, and then configure the parameters.



| Parameter | Description |
|-------------------------------|--|
| Certificate Management | A CA certificate is used to validate the legitimacy of the platform. When accessing the platform through a browser, the browser will validate the certificate. If the certificate is installed in the browser, the browser will consider the platform as secure, and will grant it access. If the certificate is not installed in the browser, the browser, the browser will not consider the platform as secure, and will not grant it access. You can create, import, and download certificates on the platform. |
| | Create a certificate: After creating a certificate, import it to the computer that will access the platform. Import a certificate: You can import a certificate that has been created to the platform. |
| | Protect your data by verifying login password when download or export information, and encrypting the export files. |
| | File Export or Download Password Authentication : |
| File Security Policies | You need to enter the password of the current account to export or download files. For all users that log in to the platform, they do not need to enter the password when exporting or downloading files. |
| | • File Export and Download Encryption : You need to set an encryption password for files to be exported or downloaded. When anyone uses the files, they need to verify the encryption password. |
| HTTP Allowlist | After the firewall of the server is enabled, you need to add the IP address of the computer where the DSS Client is installed to the HTTP allowlist so that it can access the server. |
| RTSP Redirecting Allowlist | After the firewall of the server is enabled, only the IP addresses in the RSTP allowlist can request video stream through the media gateway service. The IP addresses of decoders will be added automatically. If there are other IP addresses that need to request video stream through media gateway service, you need to manually add them to the RSTP allowlist. |
| Generic Event Allowlist | Click Add , and then add the IP address for receiving generic events from third- party system or device to the allowlist. This helps ensure system security. |

7.3.2 Configuring Retention Period of System Data

Set the retention periods for various types of records. The expired records will be automatically deleted.

Procedure

| <u>Step 1</u> | Log in to the DSS Client. On the Home page, click 🔍, and then in the System Config |
|---------------|--|
| | section, select System Parameters. |
| | |

<u>Step 2</u> Click **Message Retention Period**.

<u>Step 3</u> Double-click a number to change its value.



Figure 7-6 Change the retention period

| Message Retention Period | |
|--------------------------|--------------------------|
| General | |
| Message Type | Retention Period (Month) |
| Alarm Records | 6 × |



7.3.3 Time Synchronization

Synchronize the system time of all connected devices, PC client, and the server. Otherwise the system might malfunction. For example, video search might fail. The platform supports synchronizing the time of multiple devices, which have the same time zone as the platform. You can synchronize the time manually or automatically.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **System Parameters**.
- <u>Step 2</u> Click the **Time Sync** tab, enable the sync methods, and then set parameters.

Figure 7-7 Enable time synchronization

| Time Sync | |
|------------------------------------|--------|
| Device Time Sync | |
| Scheduled Time Sync | |
| Start Time | |
| * Sync Interval | 24 hr |
| Sync Time When Device Comes Online | |
| Sync Time Now | |
| NTP Time Sync 🤜 | |
| * NTP Address | |
| Port | |
| * Sync Interval | 60 min |
| | |
| | |
| | |
| | |
| | |
| Save | |

- Scheduled Time Sync: Enable the function, enter the start time in time sync for each day, and the interval.
- Sync Time When Device Comes Online: Syncs device time when the device goes online.
- NTP Time Sync: If there is an NTP server in the system, you can enable this function so that the system can synchronize its time with the NTP server.
- Step 3 Click Save.
- <u>Step 4</u> (Optional) Enable time synchronization on DSS Client.
 - 1. Log in to the DSS Client, and then in the **Management** section, click **Local Settings**.



2. Click the **General** tab, select the check box next to **Time Sync**, and then click **Save**.

The system immediately synchronizes the time after you restart the client to keep the time of the server and the PC client the same.

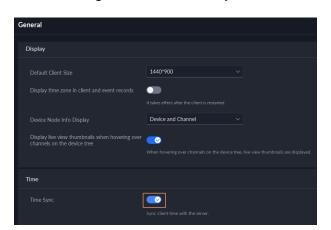


Figure 7-8 Enable time sync

3. Restart the client for the configuration to take effect.

7.3.4 Configuring Email Server

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **System Parameters**.
- <u>Step 2</u> Click the **Email Server** tab, enable **Email Server**, and then configure parameters as required.

| Parameter | Description | |
|----------------------|--|--|
| SMTP Server Type | Select according to the type of SMTP server to be connected. The types include Yahoo , Gmail , Hotmail , and UserDefined . | |
| Sender Email Address | The sender displayed when an email is sent from DSS. | |
| SMTP Server | | |
| Password | IP address, password, and port number of the SMTP server. | |
| Port | | |
| Encryption Method | Supports no encryption, TLS encryption, and SSL encryption. | |
| Test Recipient | Set the recipient, and then click Email Test to test whether the | |
| Email Test | mailbox is available. | |

Table 7-2 Description of email server parameters

Step 3 Click Save.



7.3.5 Configure Device Access Parameters

To ensure that you can safely use the devices, we recommend using the security mode if devices support this mode to avoid security risks. The platform also supports enabling and disabling adding devices through P2P.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **System Parameter** > **Device Adding Config**.
- <u>Step 2</u> Select a device login mode, and then click **Save**.
- <u>Step 3</u> Enable or disable the P2P function.

If disabled, you cannot add devices to the platform through P2P.

7.3.6 Remote Log

To ensure safe use of the platform, the system sends administrator and operator logs to the log server for backup at 3 A.M. every day.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameters**.
- <u>Step 2</u> Click the **Remote Logs** tab.
- <u>Step 3</u> Enable the function, and then set parameters as required.

The **Platform No.** must be the same on the remote server and the platform.

| Remote Logs | |
|----------------|-----|
| Remote Logs 🥏 | |
| * IP Address | |
| * Platform No. | 22 |
| * Port | 514 |

Figure 7-9 Enable remote logs

Step 4 Click Save.

7.3.7 Configuring Push Notification for App

If you need to send messages to App, you must enable this function. After enabled, messages will be sent to App through the servers of push notification providers. Data related to these messages will not be sent back to us.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **System Parameters** > **Mobile App Config**.
- <u>Step 2</u> Enable or disable push notification.

If disabled, the App will not receive any messages, such as alarms and calls.



7.3.8 Configuring Access Card

DESFire card is an IC card based on MIFARE technology. After enabling DESFire card, the platform can issue cards to people by DESFire card reader, and then people can access by using DESFire card.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **System Parameters** > **Access Card Config**.
- <u>Step 2</u> Enable **Device DESFire Card**, and then the DESFire card can be used normally.

Make sure that the device supports reading DESFire card; otherwise, the card cannot be recognized.

<u>Step 3</u> (Optional) Enable **DESFire Card Encryption**. After enabled, the DESFire card reader only shows the encrypted information.

7.4 Backup and Restore

The platform supports backing up configuration information and saving it to a computer or server, so that you can use the backup file for restoring settings.

7.4.1 System Backup

Use the data backup function to ensure the security of user information. Data can be manually or automatically backed up.

- Manual backup: Manually back up the data, and the DSS platform will save it locally.
- Automatic backup: The DSS platform automatically backs up the data at a defined time, and saves it to the installation path of the platform server.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **Backup and Restore**.
- <u>Step 2</u> Click the **Backup** tab.
- Step 3 Back up data.
 - Manual backup: In the Manual Backup section, select the data saving path, click Backup Now. The Login Password is the same as the system user's. Create an Encryption Password to protect data.

| Manual Backup | | | |
|---------------|-----|--|----------------|
| Backup Path | D:/ | Backup Confirmation To back up the system file, you need to enter the login passw | |
| Backup Now | | Username system * Login Password & | |
| | | Encryption Password | & Incel |

Figure 7-10 Manual backup

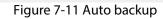




Auto backup: In the Auto Backup section, configure backup parameters, and then click OK. The Login Password is the same as the system user's. Create an Encryption Password to protect the data. The platform automatically backs up data according to the defined time and period. The backup path is the installation path of the platform server by default.

Max Number of Backup Files means you can only save defined number of backup files in the backup path.





7.4.2 System Restore

Restore the data of the most recent backup when the database becomes abnormal. It can quickly restore your DSS system and reduce loss.

- Local Restore: Import the backup file locally.
- Server Restore: Select the backup file from the server.



- Users must not use the platform when you are restoring the configurations.
- Restoring the configurations will change the data on the platform. Please be advised.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **System Config** section, select **Backup and Restore**.
- <u>Step 2</u> Click the **Restore** tab.
- <u>Step 3</u> Restore data.
 - Restore from local backup file: In the Restore from Local Backup File section, select the backup file path, click Restore Now, and then enter the passwords (the Password is the same as the system user's. The Encryption Password is the one created when the file was backed up).



Figure 7-12 Local restore

| Restore from Local Backup File | | | | |
|--------------------------------|---|---|----|----------|
| System Recovery File | iS/DSS Client/backup/backup 2024-06-18 10_55_52.dbk | Local Restore You need to enter the corresponding password to restore th | | × |
| Restore Now | | Username system | | 3 |
| | | | | |
| | | | | |
| | | | ОК | 4 Cancel |

• Restore from backup file on the server: In the Restore from Backup File on the

Server section, click , enter the passwords (the **Password** is the same as the system user's. The **Encryption Password** is the one created when the file was backed up), and then click **OK**. After restoration, the platform will automatically restart.

Figure 7-13 Restore from backup files on the server

| Res | store | | | | |
|-----|--|---------------|-----------|----------------|-----------------------|
| F | Restore from Backup File on the Server | | | | |
| | Backup Time | File Size(KB) | Operation | Server Restore | |
| | 2024-06-16 00:00:27 | 4265.11 | o ± | | |
| | 2024-06-09 00:01:00 | | O Ł | | |
| | | | | system | 2 |
| | | | | | * Encryption Password |
| | | | | | OK Cancel |
| | | | | | |
| | | | | | |
| | | | | | |

You can click 🚵 to download the backup file.



8 Management

8.1 Managing Logs

View and export operator logs, device logs and system logs, and enable the service log debug mode for troubleshooting.

8.1.1 Operation Log

View and export logs that record users' operations, such as viewing the real-time video of a channel.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > Logs > Operation Logs.
- <u>Step 2</u> Select one or more types of logs.
- <u>Step 3</u> Specify the time and keywords, and then click **Search**.

Up to 1 month of logs can be searched for at a time.

<u>Step 4</u> To export the logs, click **Export** and follow the on-screen instructions.

8.1.2 Device Log

View and export logs generated by devices.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > Logs > Device Logs.
- <u>Step 2</u> Select a device and time, and then click **Search**.
- <u>Step 3</u> To export the logs, click **Export** and follow the on-screen instructions.

8.1.3 System Log

View and export logs on how the platform has been running, such as a system error.

Procedure

- Step 1Log in to the DSS Client. On the Home page, select Management > Logs > System
Logs.
- <u>Step 2</u> Select a type of logs.
- <u>Step 3</u> Specify the time, and then click **Search**.

Up to 1 month of logs can be searched for at a time.

<u>Step 4</u> (Optional) Click **Export** and follow the on-screen instructions.



8.1.4 Service Log

Services will generate logs when they are running. These logs can be used for troubleshooting. If you need even more detailed logs, enable the debug mode so that the platform will generate detailed logs.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > Logs > Extract Service Logs.
- Step 2 Click Click
- <u>Step 3</u> (Optional) Click **C** to enable the debug mode of a service, and then click **C** to download the detailed logs within a specified period to your computer.

 \square

After the debug mode is enabled, the platform will generate a large amount of logs that occupy more disk space. We recommend you disable the debug mode after you have finished troubleshooting.

8.2 Download Center

You can download videos stored on the server or the device. They can be saved in are in .dav (default), .avi, .mp4, or .asf formats. For H.265 videos, they can only be saved in .dav formats. To download a video, you can:

- Select a duration on the timeline.
- Download videos by files. The system will generate files every 30 minutes from the time the video starts. If the video does not start on the hour or the half hour, the first file will start from the earliest start time to the half hour or the hour. For example, if a video starts from 4:15, the first file will be from 4:15 to 4:30.
- Download a period before and after a tag.
- Download a video defined by a locking record.

The maximum size of a video file is 1024 MB by default. You can change it to control how many files will be generated when you download a video by timeline or tag. For details, see "8.3.5 Configure File Storage Settings".

8.2.1 By Timeline or File

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Download Center** > **Download Video**.
- <u>Step 2</u> Configure the search conditions, and then click **Search**.
- <u>Step 3</u> Download videos.

 \square

By default, you need to verify your password and configure an encryption password before download. You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

• Download a video by selecting a duration on the timeline.



<u>0-11</u>

If you set the **Search Type of Device Video Stream** to **Main Stream and Sub Stream 1**, you can download videos recorded in main stream or sub stream for videos stored on devices. For details, see "8.3.2 Configuring Video Settings".

- 1. Click the **Timeline** tab, and then select a period on the timeline.
- 2. On the pop-up page, adjust the length of the video.
- 3. (Optional) Click **C** to select a format of the video. If this function is not enabled, the video will be saved in .dav format by default.
- 4. Click **OK**.
- Download a video by file.

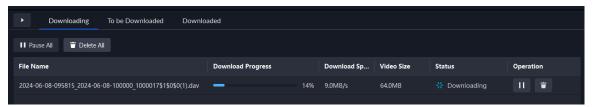
Click the **File** tab, and then click **b** to download a file.

You can also select multiple files, and then click **Download Selected File** on the upper-left corner to download them at the same time.

Related Operations

• You can pause, resume, and delete a download task.

Figure 8-1 Download progress



 After download completes, click **Open Folder** to go to the path where the video is saved to, or click **Open** in the prompt on the upper-right corner to play the video directly in **Local Video**. For details, see "8.4 Playing Local Videos".

8.2.2 By Tagging Record

Search for tagging records on the platform and download relevant videos.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Download Center** > **Tagging Records**.
- <u>Step 2</u> Configure the search conditions, and then click **Search**.

Table 8-1 Parameter description

| Parameter | Description |
|------------------|--|
| | Select one or more channels to search for tags from. |
| Select Channels | Unlimited : The platform will search all channels. E: Manually select channels. |
| Time | Configure the time to search for tags within it. |
| Storage Position | Select where the videos are stored. |

Step 3 Click to download one video at a time, or select more tags, and then click **Download Selected Tagged File** to download multiple videos at the same time.



Step 4 Verify the login password and configure the encryption password, and then click **OK**.

 \square

By default, you need to verify your password and configure an encryption password before download. You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

<u>Step 5</u> Configure the length of the video, whether you want to convert the video format, and then click **OK**.

Related Operations

Click to delete a tag, or select more tags, and then click **Download Selected Tagged File** to delete them in batches. This operation will only delete the tags. It will not delete the videos.

8.2.3 By Locking Record

Search for locking records on the platform and download relevant videos.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Download Center** > **Locking Records**.
- <u>Step 2</u> Configure the search conditions, and then click **Search**.

| Table 8-2 | Parameter | description |
|-----------|------------|-------------|
| | rururreter | acscription |

| Parame | ter | Description | |
|-------------------------|---|---|--|
| Select Channels | | Select one or more channels to search for locked videos from. | |
| | | • Unlimited : The platform will search all channels. | |
| | | Manually select channels. | |
| Time | | Configure the time to search for locked videos within it. | |
| <u>Step 3</u> Step 4 | Click to download one video at a time, or select more records, and then click Download Selected Locked Video to download multiple videos at the same time. Verify the login password and configure the encryption password, and then click OK . | | |
| | By default, you need to verify your password and configure an encryption password before download. You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters". | | |
| <u>Step 5</u> | Configure the length of the video, whether you want to convert the video format, and then click OK . | | |
| Onora | tions | | |

Related Operations

Click to unlocked a video, or select more records, and then click **Unlocked Video** to unlock them in batches. After unlocked, the videos can be overwritten or deleted.



8.3 Configuring Local Settings

After logging in to the client for the first time, you need to configure the following fields under system parameters: Basic settings, video parameters, record playback, snapshot, recording, alarm, video wall, security settings and shortcut keys.

8.3.1 Configuring General Settings

Configure client language, client size, time, and more.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **General**, and then configure the parameters.

| Parameters | Description |
|--|--|
| Default Client Size | The size of the client when it is not maximized. Select a proper resolution according to your screen. |
| Display time zone in client and event records | When selected, the client and the time of alarms will show both the time and time zone. |
| Device Node Info Display | Select that the device tree displays devices and their channels or only channels. |
| Display live view thumbnails when hovering over channels on the device tree | When selected, you can hover the mouse over a channel in the device tree in Monitoring Center and a snapshot of its live video image will be displayed. |
| Time Sync | If enabled, the client starts to synchronize network time with the server to complete time synchronization. |
| Auto run at startup | If Remember Password has been selected on the Login page, select Auto restart after reboot, and the system will skip the login page and directly open the homepage after you restart the PC next time. If Remember Password is not selected on the Login page, select Auto restart after reboot, the client login page will appear after you restart the PC. |
| | Enable the system to skip the login page and directly open the homepage when logging in next time. |
| Auto Login | If Remember Password and Auto Login have been selected on the Login page, the function is already enabled. If Remember Password has been selected while Auto Login is not selected on the Login page, select Auto Login on the Basic page to enable this function. If neither Remember Password nor Auto Login has been selected on the Login page, select Auto Login on the Basic page and you then to enter the password when logging in next time to enable the function. |

Table 8-3 Parameter description



| Parameters | Description |
|--|--|
| CPU Alarm Threshold | The user will be asked to confirm whether to open one more video when the CPU usage exceeds the defined threshold. |
| Audio and video transmission encryption | Encrypt all audio and video to ensure information security. |
| Auto Lock Client | If no operation is performed for the defined period, the client will be automatically locked, and you cannot perform any operation. Click Click to Unlock Client and verify the password of the current account to unlock the client. |
| | The period can be 5 to 60 minutes. |
| Self-adaptive audio talk parameters | If enabled, the system automatically adapts to the device sampling frequency, sampling bit, and audio format for audio talk. |
| Access Card Input and Display Mode | Select a mode for the platform to use and display access cards. For example, when you manually issue a card to a person, you can enter A-F and numbers in the card number if Hex is selected, but you can only enter 0-9 if Decimal is selected. |
| | Select the sensitivity for when you operate the joystick. |
| Joystick Sensitivity | The higher the sensitivity, the more frequent joystick commands are sent, and the greater the possibility that operations will be delayed due to poor performance of PTZ cameras. |
| Use Thousand Separator | Configure a separator for thousands. This will apply to all numbers on the PC client. |
| Decimal Separator | Select a separator for decimals. This will apply to all numbers on the PC client. |

Step 3 Click Save.

8.3.2 Configuring Video Settings

Configure window split, display mode, stream type and play mode of live view, and instant playback length.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Video**, and then configure the parameters.

Table 8-4 Parameter description

| Parameters | Description |
|----------------------|---|
| Default Window Split | Set split mode of the video window. |
| Window Display Scale | Select from Original Scale and Full Screen. |



| Parameters | Description | |
|--|---|--|
| Stream Acquisition Mode | When the device and clients are properly connected to the network, direct acquisition can reduce the use of the platform's forwarding bandwidth. If too many clients are acquiring video streams from a channel, acquisition might fail due to insufficient performance of the device. At this time, video streams can be set to be forwarded to clients by the platform. | |
| | Streaming Service Forwarding : Video streams will be forwarded to clients by the platform. Acquire directly from the device : Clients will acquire video streams directly from the channel. If direct acquisition fails, the platform will forward the video streams to clients. | |
| Decoding Mode | • Software Decoding by CPU : All videos will be decoded by the | |
| CPU Threshold | CPU. When you are viewing live videos from large amount of channels, it will take up too much resources of the CPU that affects other functions. Hardware Decoding by GPU : All videos will be decoded by the GPU. The GPU is better at concurrent operation than the CPU. This configuration will free up resources of the CPU significantly. Performance Mode (CPU First) : All videos will be decoded by the CPU first. When the resources of the CPU are taken up to the defined threshold, the platform will use the GPU to decode videos. | |
| Video Toolbar Icon Size | Set the icon size on the toolbar when viewing real-time and recorded videos. | |
| Stream Switching Rule | When the number of window splits is greater than the defined value, the live video will switch from the main stream type to sub stream type. | |
| Double-click on the video to maximize the window and switch to main stream | If selected, you can double-click a video window to maximize it and switch from sub stream to main stream. Double-click again to restore the window size, and then the system will switch it back to sub stream. | |
| | Real-time Priority | |
| | The system might lower the image quality to avoid video lag. Fluency Priority | |
| Play Mode | The system might lower the image quality and allow for lag to ensure video fluency. The higher the image quality, the lower the video fluency will be. Balance Priority | |
| | The system balances real-time priority and fluency priority according to the actual server and network performance. Custom | |
| | The system adjusts video buffering and lowers the impact on video quality caused by unstable network. The bigger the value, the more stable the video quality will be. | |



| Parameters | Description | |
|--|--|--|
| Display previous live view after restart | If selected, the system displays the last live view automatically after you restart the client. | |
| Close videos being played after long period of inactivity | The system closes live view automatically after inactivity for a pre- defined period of time. Supports up to 30 minutes. | |
| Inactivity Time | | |
| Display Device Video Status | After enabled, if the device is recording a video, an icon will be displayed on the upper-left corner of the window. | |
| Instant Playback Time | Click O on the live view page to play the video of the previous period. The period can be user-defined. For example, if you set 30 seconds, the system will play the video of the previous 30 seconds. | |
| Search Type of Device Video | Select a default stream type when you play back recordings from a device. | |
| Stream | If Only Sub Stream 2 is selected, but the device does not support sub stream 2, then recordings of sub stream 1 will be played. | |
| Play Priority | Select a default location for recorded videos when you play them, including Prioritize Device Recording for playing recorded videos stored on devices, and Prioritize Central Recording for playing recorded videos stored on the platform. | |
| | Frame extraction is useful to guarantee fluency and lower the pressure on decoding, bandwidth and forwarding when playing back high-definition videos. When frame extraction is enabled, certain frames will be skipped. | |
| Frame Extraction Mode | Do Not Extract : Frame extraction will not be enabled in any situation. Self-adaptive : The platform will enable frame extraction based on the resolution and the play speed. Force : Frame extraction is always enabled. | |
| Continuous Snapshot Interval | Set the number and interval between each snapshot. | |
| Number of Continuous Snapshots | For example, if the Continuous Snapshot Interval is 10 seconds and the Number of Continuous Snapshots is 4, when you right- click on the live/playback video and select Snapshot , 4 images will be taken every 10 seconds. | |

Step 3 Click Save.

8.3.3 Configuring Video Wall Settings

Configure the default binding mode and stream type of video wall.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Video Wall**, and then configure the parameters.



| Description |
|---|
| Select Main Stream , Sub Stream 1, Sub Stream 2 or Local Signal as the default stream type for video wall display. |
| When the number of window splits is greater than the defined value, the live video will switch from the main stream type to sub stream type. |
| Double-click the video to maximize the window, and then its stream type will switch to main stream. |
| Set the default time interval between the channels for tour display. For example, if 5 seconds is configured and you are touring 3 video channels, the live video image of each channel will be played 5 seconds before switching to the next channel. |
| Tour : Multiple video channels switch to decode in one window by default. Tile : Video channels are displayed in the windows by tile by default. Ask Every Time : When dragging a channel to the window, the system will ask you to select tour or tile mode. |
| |

Table 8-5 Parameter description

Step 3 Click Save.

8.3.4 Configuring Alarm Settings

Configure the alarm sound and alarm display method on the client.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Alarm**, and then configure the parameters.
 - Alarm sound

Table 8-6 Alarm sound parameter description

| Parameter | Description | |
|-----------|---|--|
| Custom | Default : All types of alarms will use the same default alarm sound when triggered. Custom : Click Modify Alarm Sound, and then you can change the alarm sound and its play mode of each type of alarm. Play Audio Defined in Scheme : When an alarm is triggered, the platform plays the sound defined in Source > Event > Event Config. For details, see "4.1.1 Configuring Event Linkage". | |



| Parameter | Description | | |
|-------------|--|--|--|
| Play Config | When you select Play Audio Defined in Scheme , you can select Prioritize playing the audio configured for the event schemes , or Only play the audio configured for the event schemes . | | |
| | The platform will play the default audio if no audio content is configured in Event Config . | | |
| Alarm Type | All Event Source Types by default, and cannot be modified. | | |
| Play Mode | Play Once by default, and cannot be modified. | | |
| Sound | Click 💽, and then you can test playing the audio content. | | |
| | This parameter is available when Prioritize playing the audio configured for the event schemes is selected. | | |

• Mode of opening alarm linkage videos

| Table 8-7 Parameter description of opening alarm | linkage videos |
|--|----------------|
|--|----------------|

| Parameter | Description | | | | |
|--|---|--|--|--|--|
| Open alarm linkage video when alarm occurs | If selected, the platform will automatically open linked video(s) when an alarm occurs. | | | | |
| | For this function to work properly, you must enable When an alarm is triggered, display camera live view on client when configuring an event. For details, see "4.1 Configuring Events". | | | | |
| | Configure how the platform plays the video when an alarm is triggered. | | | | |
| | As Pop-up : The alarm video will be played in a pop-up window. You can set how long the pop-up windows will be displayed, whether to display the pop-up windows and the client on the top of the screen, and link video only or link video and map. | | | | |
| Open Alarm Linkage Video | Link Video: When an alarm is triggered, you can view the real-time video of the alarm channel in the pop-up window. Link Video and Map: When an alarm is triggered, you can click the Video or Map tab to switch viewing the real-time video or the map information. | | | | |
| Linkage video | Open in Live View : The alarm video will be played in a window in Monitoring Center. You can set how long the video will play, and whether to open the monitoring menu when alarm is triggered (Monitoring Center > Monitoring). | | | | |
| | If Open Monitoring Menu When Alarm is Triggered is not enabled, when a channel set as an alarm window triggers an alarm, the platform will still open the monitoring menu and play the real-time video of that channel. | | | | |

Map flashes



| Table 8-8 Parameter | description related | to map flashing |
|---------------------|---------------------|-----------------|
|---------------------|---------------------|-----------------|

| Parameter | Description | | |
|---|---|--|--|
| Device on the map flashes when alarm occurs | Set one or more alarm types for alarm notification on the map. When an alarr occurs, the corresponding device will flash on the map. | | |
| Alarm Type | | | |
| Map Flash Duration | Set the duration that the device flashes on the map 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. | | |

Step 3 Click Save.

8.3.5 Configure File Storage Settings

Configure the storage path, naming rule, file size, and format of recordings and snapshots.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **File Storage**, and then configure the parameters.

| Parameters | Description | | |
|---|--|--|--|
| Video Naming Rule | Select a naming rule for manual recordings. | | |
| Video Storage PathSet a storage path of manual recordings during live view or playbac default path is C:\Users\Public\DSS Client\Record. | | | |
| Video File Size | Configure the maximum size of a video file. If you download a video that is larger than the defined size, the platform will divide it into multiple files. The maximum size can be up to 4 GB for 32-bit operating systems, and 1024 GB for 64-bit operating systems. | | |
| Image Format | Select a format for snapshots. | | |
| Image Naming Rule | Select a naming rule for snapshots. | | |
| Image Storage Path | Set a storage path for snapshots. The default path is C:\Users\Public\DSS Client\Picture. | | |

Table 8-9 Parameter description

Step 3 Click Save.

8.3.6 Viewing Shortcut Keys

View shortcut keys for operating the client quickly.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.

<u>Step 2</u> Click **Shortcut Key** to view shortcut keys of the PC keyboard and USB joystick.



8.3.7 Exporting and Importing Configurations

For the parameters in local settings configured by the user currently logged in to the PC client, they can be exported and imported to another PC client. This is helpful that the user does not need to configure the parameters again when using a new platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Export/Import Configurations** on the lower-right corner.
- <u>Step 3</u> Export or import configurations.
 - Export configurations.

The parameters of **Alarm Sound** and **Map Flashes** will not be included in the exported configurations.

- 1. Click **Export Configurations**.
- 2. Select **Export to File**, and then export the configurations to the specified path of your computer. Or select **Send by Email**, and send the configurations to the specified email address.
- 3. Click **OK**.
- Import configurations.
- 1. Click Import Configurations.
- 2. Click 🗖, and then open the exported file of configurations.
- 3. Click **OK**.

8.4 Playing Local Videos

You can play local videos directly on the platform.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Video**.

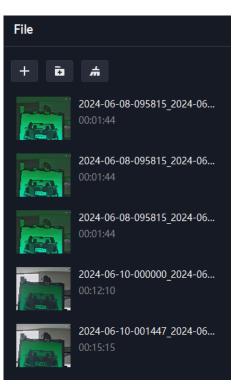


Figure 8-2 Local video

| File | Local Videos 🗵 🖬 🗰 | II (3 |
|---------------------------------------|--------------------|----------|
| ÷ ā # | | |
| 2024-06-08-095815_2024-06 00:01:44 | | |
| 2024-06-08-095815_2024-06 00:01:44 | | |
| 2024-06-08-095815_2024-06 00:01:44 | | |
| 2024-06-10-000000_2024-06 00:12:10 | | |
| 2024-06-10-001447_2024-06 00:15:15 | | |
| | | |
| | | |
| | | |
| | | |
| | 000000 O | 00:00:00 |
| | (d at ∐ b (d at b) | |

<u>Step 2</u> Click to select one or more files, or to open all files in a folder.

Figure 8-3 Play list



<u>Step 3</u> Drag a file to the window on the right or right click it to play.



Related Operations

| Icon/Function | Description | | |
|--------------------|--|--|--|
| Right-click menu | Continuous Snapshot : Take snapshots of the current image (2 snapshots each time by default). The snapshots are saved to\DSS\D Client\Picture by default. To change the snapshot saving path, see "8.3.5 Configure File Storage Settings". Video Adjustment : Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement. Digital Zoom : Click and hold to select an area to zoom in on it. Double-click the image again to exit zooming in. | | |
| | You can also scroll to zoom in and out. | | |
| X | Close all playing videos. | | |
| = =: =:: C) | Split the window into multiple ones and play a video in full screen. | | |
| 0 | Take a snapshot of the current image and save it locally. The path is C:\DSS \DSS Client\Picture\ by default. | | |
| × | Close the window. | | |
| II | Stop/pause the video. | | |
| 📢 1x 🕨 | Fast/slow playback. Max. supports 64X or 1/64X. | | |
| | Frame by frame playback/frame by frame backward. | | |
| | Capture the target in the playback window. Click (Capture the search method, and then the system goes to the page with search results. More operations: | | |
| | Move the selection area: Hover over the selection area, and then left-click to move. Adjust the size of the selection area: Hover over the upper-right, upper-left and lower-left corner of the selection area, and then left-click to adjust. Right-click to exit search by snapshot. | | |

8.5 Quick Commands

Customize HTTP commands and execute them quickly. Request methods of GET, POST, PUT and DELETE are supported.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Quick Commands**.

<u>Step 2</u> Click **Config** , and then click **Add**.



Figure 8-4 Add a quick command

| ← Add Qu | uick Command | | | |
|---------------|----------------|----------|--|-----------|
| Basic Info | | | | |
| | | | | |
| | | | | |
| | | | | |
| Shortcut Keys | | | | |
| Quick Comm | nands | | | |
| + New | TO Copy From | | | |
| No. | Request Method | HTTP URL | | Operation |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Save | | | | |

<u>Step 3</u> Configure the parameters, and then click **OK**.

| Parameter | Description | | | |
|------------------------|--|--|--|--|
| Quick Command Name | The name that identifies the quick command. | | | |
| Remark | Remarks on the quick command. | | | |
| Shortcut Keys | After enabling Shortcut Keys , you can set a single key or a combination of 2 keys as the shortcut key. | | | |
| Enter Shortcut Keys | | | | |
| | The shortcut keys set here take effect globally on the client. | | | |
| Add | Click Add , and then select New or Copy From to add a new quick command, or copy from an existing quick command or event plan. | | | |
| | When you select New , you need to set the request method (GET by default, and you can also select POST, PUT, and DELETE), and HTTP URL address. | | | |
| | | | | |
| | Up to 20 requests can be added to 1 quick command. | | | |
| Execute in Order | When it is enabled, the system will execute the quick command in order of the added requests, and the next request can be executed only after the previous request is successfully executed. | | | |
| | • When it is not enabled, the requests will be executed at the same time if multiple requests are added to 1 quick command. | | | |
| | | | | |

<u>Step 4</u> Press the defined shortcut keys or click **b** to execute a quick command.



Appendix 1 Service Module Introduction

| Service Name | | Function Description |
|--------------------------------------|---------|--|
| NGINX Proxy Service | NGINX | Provides access to the platform. |
| System Management Service | SMC | Manages services and provides access to various functions. |
| Redis Data Cache Service | REDIS | Stores data that is frequently accessed. |
| MySQL Database Service | MySQL | Stores data for a long time. |
| System Config Service | CFGS | Monitors system resources and synchronizes configurations across the distributed environment. |
| MQ Push Notifications Service | MQ | Pushes messages among clients and platforms. |
| Media Gateway Service | MGW | Acquires video streams for video walls. |
| Protocol Conversion Proxy Service | PCPS | Accesses third-party video devices. |
| Device Management Service | DMS | Accesses video devices. |
| Alarm Distribution Service | ADS | Filters and distributes alarms from devices. |
| Device Auto Registration Service | ARS | Accesses devices added through automatic registration. |
| Image Transmission Service | PTS | Accesses ANPR devices and transfers images between the devices and the platform. |
| Alarm Controller Access Service | MCD | Accesses alarm controllers. |
| Device Search Service | SOSO | Searches for and obtains configurations from devices in local networks. |
| Video Intercom Service | SC | Manages audio talks among PC clients and app, and video intercom devices. |
| DA Management Service | DAMS | Manages DA_BSID. |
| Link Management Service | DA_BSID | Downloads files from devices, manages the sleep and wake status of low-power consumption cameras that uses 4G network, and redirects to the webpage of devices added through automatic registration. |
| Access Control Management Service | ACDG | Manages MCDDOOR. |

Appendix Table 1-1Service module introduction





| Service Name | | Function Description |
|--------------------------------------|---------|--|
| Access Control Connection Service | MCDDOOR | Accesses access control devices. |
| Video Storage Service | SS | Stores and forwards recorded videos on the platform. |
| Video Decoding to Wall Service | VMS | Accesses decoders outputs videos to video walls. |
| Object Storage Service | OSS | Stores files of the platform. |
| Media Forwarding Service | MTS | Forwards real-time video streams. |



Appendix 2 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") places great emphasis on cybersecurity and privacy protection. We continuously allocate special funds to enhance employees' awareness and capabilities in security, and ensure sufficient security protection for our products. Dahua has established a professional security team to provide comprehensive security empowerment and control throughout the entire product lifecycle, including design, development, testing, production, delivery, and maintenance. Dahua products adhere to the principle of minimum necessary data collection, service minimization, strict prohibition of backdoors, and the disabling of unnecessary and insecure services (such as Telnet). We continuously introduce innovative security technologies to bolster the security capabilities of our products. Additionally, we go above and beyond by providing global users with security alarm and 24/7 security emergency response services. This approach ensures that we are better safeguarding their security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report potential risks or vulnerabilities to the Dahua PSIRT. They can do so by visiting the cybersecurity section on the Dahua website.

The security of software platforms not only relies on the continuous attention and efforts from manufacturers throughout R & D, production, and delivery, but also requires active participation from users. Users should remain attentive to the environment and methods to ensure its secure operation. To this end, we suggest users to safely use the software platform, including but not limited to:

Account Management

1. Use Strong Passwords

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Change Password Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked. Assign Accounts and Permissions Reasonably

3. Assign Accounts and Permissions Reasonably

According to business and management needs, reasonably add new users, and reasonably allocate a minimum set of permissions for them.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Set and Update Passwords Reset Information Timely

The platform supports password reset function. To reduce the risk of being attacked, please set up related information for password reset in time. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

6. Enable Account Binding IP/MAC



It is recommended to enable the account binding IP/MAC mechanism to further improve access security.

Service Configuration

1. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

2. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.

Network Configuration

1. Enable Firewall Allowlist

We suggest you to enable allowlist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the allowlist.

2. Network Isolation

The network should be isolated by partitioning the video monitoring network and the office network on the switch and router to different VLANs. This prevents attackers from using the office network to launch Pivoting attacks on the video monitoring network.

Security Auditing

1. Check Online Users

It is recommended to check online users irregularly to identify whether there are illegal users logging in.

2. View the Platform Log

By viewing the log, you can get the IP information of the attempt to log in to the platform and the key operation information of the logged-in user.

Physical Protection

We suggest that you perform physical protection to the device that has installed the platform. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware.



Perimeter Security

We suggest that you deploy perimeter security products and take necessary measures such as authorized access, access control, and intrusion prevention to protect the software platform security.

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