

# Video Management Server Web Manager

## User Manual

V2.07

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# 1 Overview

---

This manual describes how to manage and configure on the local Web client.



**Note:**

We recommend that you open no more than two tabs on the browser when using the local Web client. Too many tabs open will consume extra memory and cause the browser to exit.

## 2 Login

---

Use a Web browser to log in to the VMS:

- Enter the username and password to log in. The default username/password: admin/123456.




**Note:**

If the VMS has configured with [AD Domain](#) and [Domain Users](#) are imported, the domain users can log in with the imported domain username/password.

- It is recommended to change the password after login.



**Important:**

- Set a strong password at first login. A strong password consists of 9-32 characters and includes at least three of the following types: upper case letters, lower case letters, special characters, and digits.
- Admin can set contact information at first login. Contact information is used to retrieve the login password and is not compulsory. Contact information can also be set and modified any time later by clicking  in [User](#).
- If you forgot your password, click **Forgot Password** above the **Login** button and follow the on-screen instructions to obtain a temporary password. The temporary password is applicable to admin and valid on a Local Area Network (LAN) on the current day. Please reset the password when logged in.

## 3 Basic Configuration

---

Add and manage persons, users, organizations, devices, servers, and recording schedules on the VMS. It supports batch configuration.

### 3.1 Organization Management

Create organizations and allocate resources (such as devices and channels) to different organizations for efficient management. Organizations are presented in a tree structure called organization tree. The root organization (root) is created by default, under which users may create other organizations.



Organization management includes:

- General organization: One device (such as an IPC or NVR) belongs to only one general organization; and all IPCs under the same NVR can only belong to the same organization.
- Custom organization: Provides a flexible way to manage devices. See [Custom Organization](#).

#### General Organization

**Basic > Organization > General**

1. Click **Add** to create a general organization.
2. Enter a name and select a parent organization (by default is **root**).
3. Click **OK**.
4. The new organization appears on the organization tree on the left and the list on the right. It also appears in the organization name drop-down list from which you can select when adding or editing a device.

5. In the organization list, click  or  to edit or delete an organization.



**Note:**

The root organization cannot be deleted. An organization cannot be deleted if it contains any organizations or resources (device or channel).

## Custom Organization

### Basic > Organization > Custom

Custom organization provides a flexible way to manage devices and allows you to:

- Assign cameras under an NVR to different organizations.
  - Assign cameras under different NVRs to one organization.
  - Assign a camera to different organizations at the same time.
  - Assign a custom organization to a role, so that users with this role can access certain resources on the software client.
  - Assign resources of different types (e.g., audio & video channel) to different organizations.
1. Click **Add** to create a custom organization:
  2. Enter a name. The organization name appears on the right.
  3. (Optional) Select resource type (Audio & Video Channel). Enter keywords to filter if necessary.

4. To allocate resources to the root organization (e.g., park), select resources on the left, click the organization name on the right, and then click **Add**.
5. To add a new organization, click the add sign (+) and then enter a name in the field. The tree updates automatically. Add all the needed organizations in this way. Organizations can be edited or deleted.

#### Custom

6. Click an organization on the right, select resources on the left, and then click **Add**. The selected resources are allocated to the organization. A resource can be allocated to multiple organizations.

7. Click **OK**.

The new organization (e.g., Park) appears on the **Device Permission** tab(**Basic > User > Role**). If the organization is assigned to a role, users with this role can access resources in this organization.

Add Role

\* Name:   Copy From

\* Level:

Permissions are automatically assigned for new organizations and channels added to a selected organization.

System Permission **Device Permission**

**Device Permission**

Please enter keywords.

- All Permission
  - Video Channel
  - Audio Channel
  - Alarm Control Panel
  - Video Wall
  - Client Display

**Org and Channel**

- root
  - park
  - cloud
    - 192.168.4.242\_V\_1
    - 192.168.4.161\_V\_1
    - 192.168.4.118\_V\_1
    - 192.168.4.186\_V\_01
    - 192.168.4.186\_V\_02
    - 192.168.4.186\_V\_03
    - 192.168.4.186\_V\_04

Remarks:



**Note:**

- System permissions include operation permissions on the software client and management permissions on the Web client. The actual operation permissions depend on the selected operation permissions and the organization selected for **Displayed Organization**.
- For users with multiple roles, custom organizations assigned to these roles are displayed in resource lists of Live View, Playback, Sequence, View, Audio, Video Wall, and People Counting modules on the software client simultaneously.

## 3.2 User Management

Configure roles, assign permissions, and control user permissions by assigning roles. A role can be assigned to multiple users, and a user may have up to 16 roles.

### Role

#### Basic > User > Role

Roles are used to limit user's permissions, including:

- **System Permission:** including operation permission (on software client) and management permissions (on Web Manager).
- **Device Permission:** Permission to access functions when using a device. You need to select permissions and specify allowed organizations or channels.
- **Level:** Used to differentiate priority when two users with the same system and device permissions are operating PTZ function at the same time.

1. Click **Add** to add a new role.
2. Enter the role name.
3. Select a level.
4. (Optional) Select **Copy From**. The existing roles in the system are listed. Select a role and then edit permissions for the new role based on the selected role. Permissions of the selected role will not change.

Add Role ✕

\* Name:   Copy From

\* Level:  ▾

---

System Permission Device Permission

**System Permission**

Please enter keywords. 🔍

- All Permission
  - Operation
  - Management

5. On the **System Permission** tab, select permission to assign. For example, to assign live video and playback permissions, select **Preview** under **Operation**. **Live View** and **Playback** are selected automatically. To assign all permissions, select **All Permission**.
6. Click **Device Permission** to assign device permissions: first click a permission on the left and then select channel(s) on the right.

Add Role ✕

\* Name:   Copy From  ▾

\* Level:  ▾

---

System Permission **Device Permission** Permissions are automatically assigned for new organizations and channels added to a selected organization.

**Device Permission**

🔍 Please enter keywords.


- All Permission
  - Video Channel
    - Live View
    - Recording Playback
    - Recording Download
    - PTZ Control
    - Central Recording
  - Audio Channel
  - Alarm Control Panel
  - Door Access Control
  - Video Wall
  - Client Display

**Org and Channel**

- root
- cloud

Remarks:

 **Note:**

- After selecting a permission on the left (e.g., Live View), you also need to select camera(s) in the **Org and Channel** area on the right. By selecting a camera it means that the role will have **Live View** permission to this camera.
- Selecting **All Permission** will select all permissions and all channels. Selecting **root** will select all the listed channels.
- The  symbol that appears to the left of a permission (e.g., **Live View**) means channels have been selected for the permission.
- Click **Display Organizations** under the **Client Display** node to display all the organizations in the system on the right, including general and custom organizations. Select an organization as needed. For more information, see [Custom Organization](#).

7. (Optional) Enter a description of the role.
8. Click **OK**.
9. The new role appears in the role list.

## User

### Basic > User > User

Add, edit or delete users. Control user permissions by specifying roles. Lock a user to deny login.

 **Note:**

The admin user cannot be edited, deleted or locked.

Add users or import domain users.

- Add User:
  1. Click **Add** to add a user.

Add
✕

\* Username:

Role:

\* Password:

Weak      Medium      Strong

\* Confirm Password:

Valid Date:  -

Time Template:

Please set a strong password (at least 9 characters including all three types: upper and lower case letters, special characters, and digits).

Optional




OK

Cancel

2. Set the following parameters.
  - Username: Must be unique in the system and cannot change once set.
  - Role: Up to 16 roles are allowed for a user. The user will have all the permissions included in the roles assigned.
  - Password: Used to access the VMS.
  - Valid Date: Specify the period during which the user have access to the VMS.
  - Time Template: See [User Time Template](#).
  - Click  to expand and enter more details.
3. Click **OK**.
- Import Domain User: After the VMS is connected to the AD domain, you can import domain users so that the domain users can access the VMS by domain username/password. To configure AD domain, click **Links > AD Domain Configuration**.
  1. Click **Import Domain User**.
  2. Select the target domain users from the left organization of the domain server, and click .
  3. Set user status and permissions.
    - User status: Users only in normal state can access the VMS.
    - Role: Up to 16 roles are allowed for a user. The user will have all the permissions included in the roles assigned.
    - Valid Date: Specify the period during which the user have access to the VMS.
    - Time Template: See [User Time Template](#).

4. Click **OK**.

Use buttons in the **Operation** column to manage existing users.

- Click  to change roles, valid date and time template. Admin can only modify contact information.
- Click  to change the user's password. The new password takes effect at the user's next login. Only admin can change other users' passwords.
- Click  to delete a user. A user who is logged in will be forced out of the system when deleted.
- Click **Sync Domain User Info** to update the domain user information to the latest on the domain server. This feature is only available to the server with [AD domain configuration](#).

## User Time Template

### Basic > User > User Time Template

Use a user time template to restrict the time when a user can access the system. First you need to configure a time template, and then select it when you add or edit a user. Then the user can access the system only during the time set in the time template.



#### Note:

- All-day is the default template in the system, which you can edit but cannot delete. Using this template means there are no restrictions on login time.
- Up to 8 periods are allowed each day.

✕
Add Time Template


Template Name:

Copy From

 Edit
 Reset

Up to 8 time periods can be included in each day

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun																									
Mon												Valid Period	Valid Period	Valid Period	Valid Period	Valid Period	Valid Period	Valid Period	Valid Period						
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Holiday																									

 Erase
Valid Period

Note: Holiday in the template is effective only when holiday is configured and enabled.

Remarks:

OK
Cancel

No.	Description
1	Enter a unique template name.
2	Optional. Select the checkbox and then choose an existing template to copy settings from.

No.	Description
3	Click the button, and then click or drag on the grid to draw a schedule. Purple means login is allowed, and white means login is forbidden.
4	Click the button, and then click or drag on the grid to erase.
5	Click to set more precisely. After settings are completed for one day, you can use the <b>Copy To</b> feature to apply the same settings to other day(s): select the day(s) and then click <b>Copy</b> .
6	Click to erase all settings on the grid.

### 3.3 Person Management

Add people for room & resident management, access control verification, etc.

You need to install the WebAssist plug-in when adding people for the first time. Please log in again after installation.

#### 3.3.1 Basic Info

Add or import the basic information of a person.

Collect:  ...

\* Person ID:  Date of Birth:


\* Name:  Phone:

Gender:  Male  Female  Unknown Department:

Card Type:  Address:

\* Card Number...

Photo: No more than 6 images, JPG only, 10-500KB, max. resolution 1672\*1080.



Add Photo

#### 3.3.2 Card

Assign access control cards to personnel, set password and valid period for the card. You can select the card number manually or use the card enroller to read the card number.

To select the card number manually, you need to add the card number in **Access Control > Card > Blank** first. After selecting the card number, click **OK**.

To read the card number using a card enroller, click **Config Card Enroller**, select the card type, click **Read Card**, and then the card number will be automatically read into the platform.

Card Password... 
✕

Valid Period:   Until:

Issue Card:  Select

Card Reader

Card Number	Card Type	Card Status	Valid From	Until
234	ID Card	Active	2023/12/10 00:00:00	2023/12/10 23:59:59

### 3.3.3 Fingerprint

You can enroll personnel fingerprints (used for access control verification). Up to 10 fingerprints are allowed for each person.

+ Enroll Fingerprint

Fingerprint Name

Operation

Enroll Fingerprint
✕

1

Preparation

2

Enroll Fingerprint

3

Complete

#### 1. Please record fingerprint.



**Put your finger on the sensor. Please make sure your finger and the sensor is clean.**

1. Connect the fingerprint enrollment device to the computer where the client is installed.
2. Click **Enroll Fingerprint**, and then follow the on-screen instructions to enroll the fingerprint.

## Subsequent Operations

If you want to use the fingerprint verification on the access control, you need to configure the access control device.

1. Go to **Access Control > Permissions > Check Template** to add a check template and select the verification method as **Fingerprint**.
2. Go to **Basic Configuration > Device Management > Channel > Door Channel** to configure the 1:N matching threshold, personnel library, and check template.

## 3.4 Device Management

### 3.4.1 Encoding Device

**Basic > Device > Device > Encoding Device**

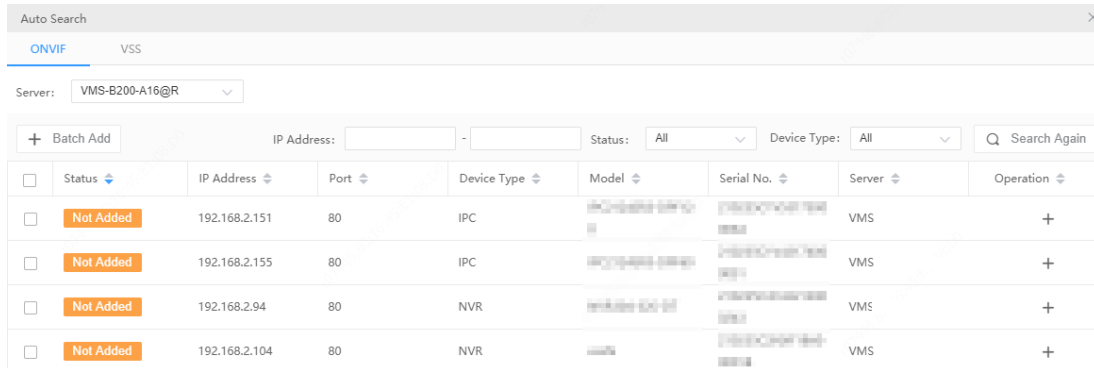
Encoding devices include IPC, NVR and encoder.

#### **Note:**

- To add a device with a known IP or domain name, click the **Add** button.
- To add an IPC or NVR for live view using RTSP, click **Add**, and select **Custom** from the **Protocol** drop-down list. For detailed steps, see [Add a Device Using RTSP](#).

Choose one way to add devices.

- Add one by one: Add a device by IP address/domain name.
  1. Click **Add**.
  2. Enter the device information, and click **OK**.
- Auto Search: Search devices on the same subnet with the VMS.
  1. Click **Auto Search**. Encoding devices on the same subnet with the VMS are discovered.



The screenshot shows the 'Auto Search' window with the 'ONVIF' tab selected. The 'Server' dropdown is set to 'VMS-B200-A16@R'. Below the search bar, there are filters for 'Batch Add', 'IP Address', 'Status', and 'Device Type'. A table displays the search results with columns for Status, IP Address, Port, Device Type, Model, Serial No., Server, and Operation. Four devices are listed, all with a 'Not Added' status and a '+' icon in the Operation column.


<input type="checkbox"/>	Status	IP Address	Port	Device Type	Model	Serial No.	Server	Operation
<input type="checkbox"/>	Not Added	192.168.2.151	80	IPC	HIKVISION DS-2DE1C0100-0100	HIKVISION DS-2DE1C0100-0100	VMS	+
<input type="checkbox"/>	Not Added	192.168.2.155	80	IPC	HIKVISION DS-2DE1C0100-0100	HIKVISION DS-2DE1C0100-0100	VMS	+
<input type="checkbox"/>	Not Added	192.168.2.94	80	NVR	HIKVISION DS-2DE1C0100-0100	HIKVISION DS-2DE1C0100-0100	VMS	+
<input type="checkbox"/>	Not Added	192.168.2.104	80	NVR	HIKVISION DS-2DE1C0100-0100	HIKVISION DS-2DE1C0100-0100	VMS	+

#### **Note:**







NVR devices cannot be added via ONVIF.

2. To add a device, click **+**. To add multiple devices with the same configurations including server, protocol, organization, and username/password, select checkboxes for these devices and click **Batch Add**.
3. You may search again using the following conditions:
  - Server: Search devices under the specified server.
  - IP address: Search devices within the specified IP range.
  - Filter devices by status (added or not) and type (IPC, NVR).
  - Click the **VSS** tab to search for VSS devices only. You need to complete VSS configuration first (see [VSS Server](#) and [VSS Local](#) for details).
4. Check device status.

#### **Note:**

If the device status is **Offline - Incorrect username/password**, click  and enter the correct password. The device cannot get online unless the entered password is correct.

## Other Operations

- Export: Click **Export** to export the device list.
- Edit: Click the corresponding  in the **Operation** column, or select the device and then click **Edit** on the top to edit device information.
- Delete: Click the corresponding  in the **Operation** column, or select the device and then click **Delete** on the top to delete the device.
- Obtain channel information: Click the corresponding  in the **Operation** column. A page as shown below appears.
  - (1) Click **Obtain Channel Info** to get channel information from the device (e.g., an NVR).
  - (2) Rename the channels displayed on the VMS, the change does not affect the channel names saved on the device (e.g., NVR).
  - (3) Select camera type. Different camera types are represented by distinct icons in the resource tree: box camera , dome camera , varifocal zoom box camera .
  - (4) View alarm input and output channels .

✕
Channel Config

Video Channel
Alarm Input Channel
Alarm Output Channel
4

Device Name	IP/Domain Name	Server	Organization
192.168.17.21	192.168.17.21	VMS-8308-41888	root

Obtain Channel Info 1

Number of Channels: 7

2 \* 1Channel Name: 192.168.17.21\_V\_021
 Camera Type: Box
3

\* 2Channel Name: 192.168.17.21\_V\_09 Camera Type: Dome

\* 3Channel Name: 192.168.17.21\_V\_10 Camera Type: Varifocal Zoom Box Camera


\* 4Channel Name: 192.168.17.21\_V\_11 Camera Type: Dome

\* 5Channel Name: 192.168.17.21\_V\_12 Camera Type: Varifocal Zoom Box Camera

\* 6Channel Name: 192.168.17.21\_V\_13 Camera Type: Box

\* 7Channel Name: 192.168.17.21\_V\_14 Camera Type: Varifocal Zoom Box Camera

OK
Cancel

- Go to a device's Web interface: Click the corresponding  in the **Operation** column to open the device's Web page.
- Sync channel information: Select devices, and then click **Sync Channel Info** on the top of the device list to synchronize channel information (channel names) from the selected devices to the VMS (for example, after channel names are changed on the NVR). You can view the updated channel information at **Basic > Device > Channel > Encoding Channel**.

## 3.4.2 Smart Device

### Basic > Device > Device > Smart Device

Add smart devices (IPC/NVR/AIBox/EIA) to operate functions such as Face Recognition, LPR, and Mix Traffic Detection on the software client.

## Face recognition and LPR

Add smart devices to operate the Face Recognition and LPR modules on the software client.

1. Add devices (see [Encoding Device](#) for details).



### Note:

About setting the **Image Protocol** parameter:

- For an LPR camera or an NVR, select **VIID**. You need to complete VIID configuration on the device (see [Video&Image Database](#)), including the server IP (VMS' IP address), server port (5073), communication type (Video&Image Database) and username/password
- For face recognition cameras, select **VIID** if it is a third-party camera; for Uniview cameras, choose **Private** or **VIID** as needed. **VIID** supports the capture and upload of face images, and **Private** supports more, such as face monitoring, face match/not match alarms, and structured data upload.

2. Check whether the device status is **Online**; if the image protocol is **VIID** and the device is registered successfully, **Registered** is displayed.

Auto Search	+ Add	Edit	Delete	Refresh	Batch Import	Export	Please enter keywords.				
Device Name	IP Address	Device Type	Protocol	Image Protocol	Server	Organization	Model	Video&Image Database Status	Status	Operation	
<input type="checkbox"/>	192.112.1.35	192.112.1.35	Alibox	Private	Private	VMS-8200-16 1600W	root	AOX-0110000 D	...	Online	
<input type="checkbox"/>	192.168.171.25	192.168.171.25	NVR	Private	Private	VMS-8200-16 1600W	root	NVR302-8882	...	Online	

## Mixed traffic detection

Add smart devices to operate the Mixed Traffic Detection module on the software client.

1. First complete configurations on the camera's Web client, including enabling mixed traffic detection and specifying the type of objects to capture (motor vehicle, non-motor vehicle, or pedestrian).
2. Click the **Auto Search** or **Add** button to add devices (see [Encoding Device](#)).



### Note:

Choose **Private** as the **Image Protocol** when you add the device.

Click **Export** to export the device list.

## 3.4.3 Decoding Device

Basic > Device > Device > Decoder



### Note:

To add devices one by one or in batches, see [Encoding Device](#) for details.

1. Click **Auto Search**. Decoding devices on the same subnet with the VMS are discovered.

Auto Search									
ONVIF		VSS							
+ Batch Add									
IP Address:				Status:	All		Device Type:	All	Search Again
Status	IP Address	Port	Device Type	Model	Serial No.	Server	Operation		
<input type="checkbox"/>	Not Added	192.168.2.124	80	DX		VMS-	+		
<input type="checkbox"/>	Not Added	192.168.2.123	80	DX		VMS-	+		
<input type="checkbox"/>	Not Added	192.168.2.125	80	DX		VMS-	+		

2. Click **+** for the device to add. To add devices with the same configurations (protocol, organization, username/password), select checkboxes for the devices and then click **Batch Add**.
3. You may set the following conditions and search again:
  - **IP:** Search devices within the specified IP range.
  - Filter devices by status (added or not) and type (decoder, DX).
4. Check device status.

**Note:**

If the device status is **Offline - Incorrect username/password**, click and enter the correct password. The device cannot get online unless the entered password is correct.

Click **Export** to export the device list.

### 3.4.4 Network Keyboard

#### Basic > Device > Device > Network Keyboard

Add a network keyboard to use with a video wall to split windows, zoom in or out, adjust focus, and control the PTZ.

**Note:**

First refer to the Network Keyboard User Manual to set up the keyboard, including its registration with the VMS (by inputting the VMS' IP/port on the keyboard). And then follow the steps below to specify the video channel(s), decoding channel(s) or video wall(s) that you want to control using the keyboard.

1. Add video channels (cameras). Each video channel is assigned a channel number (e.g., 1).

Encoding Channel List

+ Add Delete Refresh Export

<input type="checkbox"/>	Channel No.	Encoding Channel	Organization	Stream Type	Status	Operation
<input type="checkbox"/>	1	192.168.2.254_V_1	root	Main	Online	

2. To use the keyboard with a DC video wall, add decoding channels on the **Decoding Channel List** tab. Each decoding channel is assigned a channel number (e.g., 1, 2, 3).

1 Decoding Channel List DX Video Wall List

2+ Add Delete Refresh Export

<input type="checkbox"/>	Channel No.	Decoding Channel	Organization	Status	Operation
<input type="checkbox"/>	1	DC_1_HDMI1	root	Online	

3. To use the keyboard with a DX video wall, add video wall(s) on the **DX Video Wall List** tab. Each video wall is assigned a video wall number (e.g., 1).

Decoding Channel List DX Video Wall List 1

+ Add 2 Delete Refresh Export

<input type="checkbox"/>	Video Wall No.	Video Wall Name	Operation
<input type="checkbox"/>	1	Wall 1	

4. After the above steps are completed, you can start video on the video wall by entering the assigned channel numbers and video wall number on the keyboard.

### 3.4.5 Cloud Device

#### Basic > Device > Device > Cloud Device

This function is mainly used to connect IPCs and NVRs to the VMS over the Internet. First register the IPCs and NVRs that support EZCloud to a cloud account, and then log in to the cloud account on the VMS to manage the registered IPCs and NVRs.

**Note:**

If an NVR has been added on the VMS via the Private or VSS protocol, it is **NOT** recommended to add the NVR to the VMS again as a cloud device. This application may cause undesired service exceptions for certain NVR models.

Cloud Account Login Refresh Online

My Cloud Devices Devices Shared to Me

+ Add Delete Device Name

<input type="checkbox"/>	Cloud Name	Device Name	IP Address	Server	Organization	Model	Connection Mode	Status	Operation
<input type="checkbox"/>	107	107	192.168.2.107	VMS-1008-A10	zhao	NVR-1008-A10	Direct Connect	Online	
<input type="checkbox"/>	136	136	192.168.2.136	VMS-1000-R16	zhao	IPC-1000-R16	Direct Connect	Online	

Purpose	Description
Log in to a cloud account	Enter your cloud account info to log in. When login succeeds, the cloud account appears on the tree on the left, and the existing devices under the cloud account are listed on the right. Login to multiple cloud accounts is allowed. You can click a cloud account on the tree to view devices under this account.
Manage cloud accounts	Manage cloud accounts on the VMS. You can refresh the status, log out of a cloud account, view shared devices, and cancel sharings.
Add cloud device	Add devices to specified online account(s). The device name and register code are required. The added devices are listed on the <b>My Cloud Devices</b> tab and are displayed as <b>Online</b> if they are successfully logged in. VMS cannot be added here.
Edit cloud device (1)	Rename a device. If the <b>Sync to Cloud</b> checkbox is selected, the new device name will be synced to cloud; otherwise, only the name saved on the VMS is changed.
Delete cloud device (2)	Delete a device from a cloud account.
Share cloud device (3)	Share device(s) with other cloud account(s). You need to specify a valid period for the sharing and assign permissions by selecting an existing user created on the device to share.
View cloud devices shared from other cloud accounts	View device(s) shared with you from other cloud account(s). You can stop a sharing proactively.
Obtain channel info (4)	Obtain channel info of a cloud device, edit channel names.

### 3.4.6 Access Controller

#### Basic > Device > Device > Access Controller

Add **Uniview** turnstiles, face recognition access controllers, ER-SR 1 series access controllers, ER-SR 2 series access controllers, Face/ID enrollment terminal to operate the Access Control module on the software client.

Add Device
✕

Access Type:

\*IP Address:

\*Port:

\*Username:

Password:

\*Device Name...:

\*Organization:

Remarks:

ⓘ Adding an access control device will delete all the existing face library data. Please make a backup of face library data first.

- Add devices (see [Encoding Device](#) for details).



**Note:**

If the ER-SR 1 series access controller is not on the same network segment as the platform, you can edit its network configuration by following the steps below:

1. Connect the access controller's network cable to the platform's NIC.
2. Click **Auto Search** to find the access controller.
3. Click for the access controller in the **Operation** column. A dialog box appears.
4. Modify the IP address and gateway address of the access controller to match the network segment of the platform.
5. Click **OK**. Reconnect the access controller to its original network, then you can search the device in the platform.

- Make sure you select the correct access control type and set the correct IP/port.
- Check whether the device status is **Online**. A door channel is added automatically if the added access controller is online.



**Note:**

- A door channel will be deleted automatically if you delete the access controller.
- After a face/ID enrollment terminal is added, you can select the device to collect person information remotely when you add a person in [Basic Info](#). The collected information can be uploaded into the platform automatically.

Click **Export** to export the device list.

## 3.4.7 Access Gateway

Basic > Device > Device > Access Gateway

Add an access gateway so the VMS can receive alarms from alarm control panels and door access controllers, and users can arm/disarm zones, bypass/unbypass partitions, and open/close doors on the software client. See EZAgent User Manual for more information about the access gateway.

1. Click **Add**.

Complete settings in the dialog box.

Add Device ✕

\* Device Name:

\* Organization Name:

\* IP/Domain Name:

\* Port:

\* Username:

Password:

\* Server:

Remarks:

 **Note:**

- The **IP/Domain Name** is the IP address or domain name of the PC that hosts the EZAgent server.
- The **Password** is the password of the EZAgent server.

2. The added access gateway is displayed as **Online** if it is connected, and the alarm controllers, access controllers and their channels are displayed on the VMS.

 **Note:**

For alarm controllers and access controllers that are connected to the VMS via gateway, you cannot add their channels directly on the VMS' Web client; they can only be added on the EZAgent.

## 3.4.8 Alarm Control

Basic > Device > Device > Alarm Control

Add an alarm controller, so the VMS can receive alarms from it, and users can arm/disarm zones and bypass/unbypass partitions on the software client.

1. Click **Add**.
2. Choose the manufacturer and model and then complete the required settings.

Add
✕

\*Type:

\*Organization Na...:

\*Server:

\*Manufacturer:

\*Model:

\*Name:

Username:

Password:

\*IP:

\*Port:

\*Local Port:

\*Extended Port:

\*Local Extended P...:

**Note:**

- Depending on the alarm controller, the **IP** may be that of the alarm controller or the PC where its management platform is installed.
- The username and password are required if users want to arm/disarm or bypass/unbypass on the software client.

3. The added alarm controller is displayed as **Online** if it is connected.

To customize alarm types reported by Uniview alarm controllers, click **Links > Custom Alarm**.

### 3.4.9 Access Control

**Basic > Device > Device > Access Control**

Add an access controller, so the VMS can receive alarms from them, and users can open or close doors on the software client.

1. Click **Add**.
2. Choose the manufacturer and model and then complete the required settings.

Add
✕

\*Type:

\*Organization Na...:

\*Server:

\*Manufacturer:

\*Model:

\*Name:

Username:

Password:

\*IP:

\*Port:

\*Local Port:

\*Extended Port:

\*Local Extended P...:

**Note:**

- Depending on the access controller, the **IP** may be that of the access controller or the PC where its management platform is installed.
- The username and password are required if users want to open or close doors on the software client.

3. The added access controller is displayed as **Online** if it is connected.

To customize alarm types reported by Uniview alarm controllers, click **Links > Custom Alarm**.

### 3.4.10 Security Gateway

**Basic > Device > Device > Security Gateway**

Add an security gateway so the VMS can receive alarms from security gateway.

1. Click **Add**.  
Complete settings in the dialog box.

The screenshot shows a dialog box titled "Add Device" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- \* Device Name:
- \* Organization Name:
- \* IP/Domain Name:
- \* Port:
- \* Username:
- Password:
- \* Server:
- Remarks:

At the bottom of the dialog, there are two buttons: "OK" (blue) and "Cancel" (white).

2. The added security gateway is displayed as **Online** if it is connected.

### 3.4.11 Entrance & Exit Device

**Basic > Device > Entrance & Exit Device**

Add and manage entrance & exit devices in parking lots. After configuration, you can operate the Parking Lot module on the software client.

Add Device
✕

\* Device Name:

\* Organization Name:

\* IP/Domain Name:

\* Port:

\* Username:



Password:

To add a device, click **Auto Search** or **Add** (For more details, see [Encoding Device](#)).

## 3.4.12 Channel




### Encoding Channel

#### Basic > Device > Channel > Encoding Channel

- View channel status.
- Click  to open the Web page of the encoding device.
- Click  to edit channel name and select camera type.




#### Note:

Different camera types are represented by distinct icons in the resource tree: box camera , dome camera , varifocal zoom box camera .

Channel Name	Device	Device ID	Organization	Status	Operation
192.167.5.49_V_1	192.167.5.49	1	root	Online	
192.169.17.21_V_02	192.169.17.21	2	root	Offline	
192.168.17.21_V_09	192.168.17.21	9	root	Offline	
192.168.17.21_V_12	192.168.17.21	12	root	Offline	

### Decoding Channel

#### Basic > Device > Channel > Decoding Channel

- View channel status and capability.
- Click  to edit channel name.

Channel Name	Device	Device ID	Organization	Resolution(default)	Split Screen(max)	Status	Operation
DC_1_HDMI1	DC_1	1	root	SXGA60	64	Online	
DC_1_HDMI2	DC_1	2	root	SXGA60	64	Online	
DC_1_VGA	DC_1	3	root	SXGA60	36	Online	

### Alarm Channel

#### Basic > Device > Channel > Alarm Channel

- View alarm input and output channels. You can select the checkbox(es) (1) to display the corresponding type(s) only.
- Edit channel names or alarm types (N.O. or N.C.) in the **Operation** column (2). The alarm input channel can be enabled or disabled. For the alarm output channel, you can edit **Delay** to set the duration of the changed status before the default status is restored. You can click the **Batch Config** button (3) to configure settings in batches.

Channel Name	Device	Device ID	Organization	Channel Type	Status	Operation	Type
VMS-20A16-DT_I_1	VMS-20A16-DT	1	root	Alarm Input Channel	Online		N.O.
VMS-20A16-DT_I_2	VMS-20A16-DT	2	root	Alarm Input Channel	Online		N.O.
VMS-20A16-DT_I_3	VMS-20A16-DT	3	root	Alarm Input Channel	Online		N.O.
VMS-20A16-DT_I_4	VMS-20A16-DT	4	root	Alarm Input Channel	Online		N.O.



**Note:**

N.O. means normally open, and N.C. means normally closed.

## Detector Channel

### Basic > Device > Channel > Detector Channel

Add detector channels, zones or partitions to an alarm control device on the VMS.

Add
✕

\* Device

\* Name

\* Type

\* Zone No.

Partition No.

## Door Channel

### Basic > Device > Channel > Door Channel

A door channel is automatically added when a Uniview access control device is added successfully. For third-party access controllers, door channels need to be added manually.

You can set the channel name, authentication mode/door opening mode, door number, door direction, and whether to record attendance, etc. (The actual configuration items may vary with device type, Please refer to the actual interface.)

Edit
✕

\* Device:

\* Name:

\* Type:

\* Authenticatio...:

\* Door Directio...:

Record Attend...:

OK
Cancel

### 3.4.13 Link Resource

#### Basic > Device > Link Resource

Link a source (video channel) to an object (alarm output channel) so users can trigger alarm output manually on the software client.

1. Click **Allocate**. A dialog box appears.
2. Select the source on the left, and then select object(s) on the right. One source can link multiple objects. Click **OK**.

Link Resource
✕

Note: Please select a source first.

**Source**

Source Type:

Please enter keywords.

- root
- cloud
- DC\_1
- DC\_2
- DC\_3
- NVR 192.168.4.203
- DX 192.168.4.193
- 192.168.4.232
- 192.33.22.12
- 192.168.4.234\_V\_1
- 192.168.4.239\_V\_1
- 192.168.4.245\_V\_1
- 192.168.4.187\_V\_1


**Object**

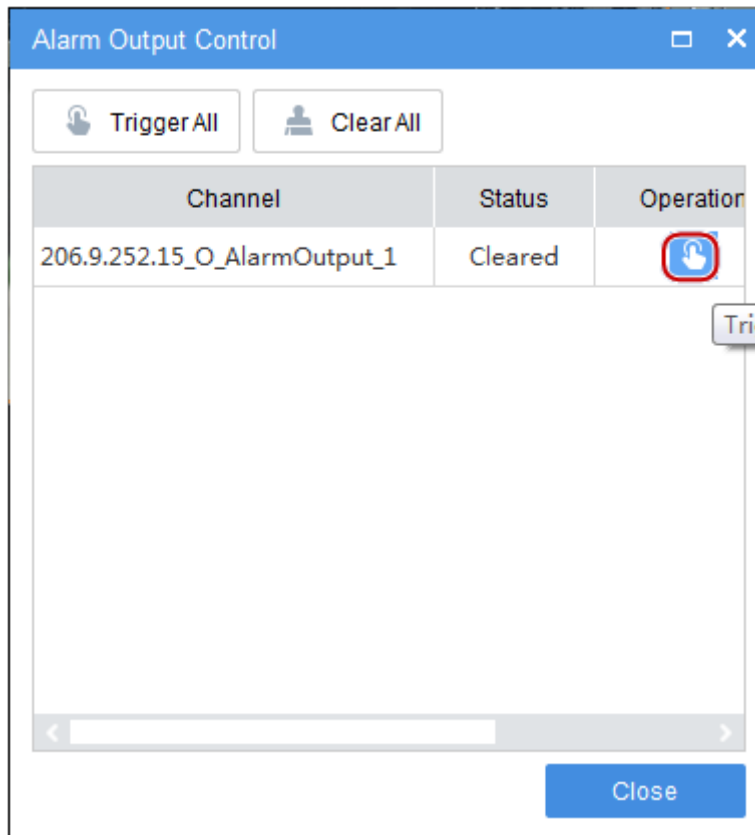
Object Type:

Please enter keywords.

- DC DC\_1
- DC DC\_2
- DC DC\_3
- VMS
- NVR 192.168.4.203
- DX 192.168.4.193
- 192.168.4.232
- 192.33.22.12
- 192.168.4.98\_O\_relay\_output0
- 192.168.4.234\_O\_relay\_output
- 192.168.4.239\_O\_relay\_output
- 192.168.4.245\_O\_relay\_output
- 192.168.4.187\_O\_relay\_output0
- 192.164.2.51\_O\_relay\_output0

OK
Cancel

- When playing live video from the camera on the software client, you can click  on the window toolbar to trigger the linked alarm device (e.g., alarm lamp) in the dialog box (see below).



## 3.5 Batch Configuration

### 3.5.1 Batch Change Passwords

**Basic > Batch Config > Batch Change Password**

Batch change passwords of IPCs or NVRs.

This function is not available to VSS devices and cloud devices.

- Select the organization on the left, and then select devices on the right. Click **Batch Change Password**.

<input type="checkbox"/>	Device Name	Device Type	Organization	Protocol	Status	Operation	Message
<input type="checkbox"/>	192.168.17.200	IPC	root	Private	Online	👤	
<input type="checkbox"/>	192.168.17.2	IPC	root	Private	Online	👤	

- Enter the new passwords and then click **OK**.

### 3.5.2 Batch Operate NVRs

**Basic > Batch Config > Batch Operate NVRs**

Shut down or restart online NVRs in batches.

 **Note:**

- This function is available to certain NVR versions. A message appears if the function is unavailable.
- This function is not available if the NVR is connected to the VMS via the VSS protocol.

Batch Shut Down NVR		Batch Restart NVR		Refresh			
<input type="checkbox"/>	Device Name	Device Type	Organization	Protocol	Status	Operation	
<input type="checkbox"/>	192.168.17.20	NVR	root	Private	Online		
<input type="checkbox"/>	192.168.17.145	NVR	root	Private	Online		

## Shutdown

- Choose to shut down NVRs one by one or in batches.
  - Batch shutdown: Select NVRs in the device list, and then click **Batch Shut Down NVR**.
  - Shut down one by one: Click the corresponding for the NVR.
- Click the **Refresh**. The selected NVR(s) disappear from the page.

## Restart

- Choose to restart NVRs one by one or in batches.
  - Batch restart: Select NVRs in the device list, and then click **Batch Restart NVR**.
  - Restart one by one: Click the corresponding for the NVR.
- Click **OK** in the pop-up window to restart. The NVR status is **Offline** during restart.
- Wait until the NVR(s) complete restart, and then click the **Refresh**. The status of the restarted NVR(s) will be **Online**.

## 3.5.3 Batch Scramble Streams

### Basic > Batch Config > Batch Scramble Streams

Scramble video streams to enhance data security.

- Select an organization on the left-side organization tree. Video channels in the organization are displayed.

On		Off		Refresh		Q. Please enter keywords.	
<input type="checkbox"/>	Channel Name	Device	Organization	Protocol	Status	Status	Operation
<input type="checkbox"/>	192.168.17.145_V_0 1	192.169.17.145	root	Private	Online	Off	
<input type="checkbox"/>	192.168.17.145_V_0 2	192.169.17.145	root	Private	Online	Off	
<input type="checkbox"/>	192.168.17.20_V_1	192.169.17.20	root	Private	Online	Off	

- Select video channels for which you want to scramble streams and then click **On**. Selecting the checkbox on the top will select all the video channels on the current page.
- To scramble the video stream of one video channel, click the corresponding for the video channel in the **Operation** column.



#### Note:

This function is available to devices connected via the private protocol.

## 3.5.4 Batch Configure Encoding Parameters

### Basic > Batch Config > Batch Config Encoding Parameters

Configure encoding parameters in batches for IPC or NVR connected via the private protocol or IPC connected via the ONVIF protocol. You can select and configure multiple IPCs of the same model or one NVR. Take an NVR as an example.

- Select the NVR you want to configure and then click **Batch Config**.

Batch Config		Refresh		Q. Please enter keywords.			
<input type="checkbox"/>	Device Name	IP Address	Model	Version	Serial No.	Status	Operation
<input type="checkbox"/>	192.168.17.145	192.168.17.145	ECS-B907H1H1H1-5F	ECS-B907_5F-507 05-27-240018	210018CTW11248 000008	Online	
<input type="checkbox"/>	192.168.17.32	192.168.17.32	IPC-B1A2-1600P-3-F80-C	GIPC-B1A1B1B1B1-10 200402	210018CTW11248 000004	Online	
<input type="checkbox"/>	192.168.17.20	192.168.17.20	NVR-B1200-1600P-C	NVR-B1217-31.65 250118	210018CTW11248 000006	Online	

- Select the channels and then configure the encoding parameters. Only the supported stream types are displayed. Stream types that are not supported are not displayed.

Parameter Config(192.168.2.152)
✕

Main Stream	Sub Stream	Third Stream
Compres... <span style="border: 1px solid #ccc; padding: 2px;">H.265</span> ▾	Compres... <span style="border: 1px solid #ccc; padding: 2px;">MJPEG</span> ▾	Compres... <span style="border: 1px solid #ccc; padding: 2px;">MJPEG</span> ▾
Resolutio... <span style="border: 1px solid #ccc; padding: 2px;">2048×1520</span> ▾	Resolutio... <span style="border: 1px solid #ccc; padding: 2px;">720×576(D1)</span> ▾	Resolutio... <span style="border: 1px solid #ccc; padding: 2px;">352×288(CIF)</span> ▾
Frame Ra... <span style="border: 1px solid #ccc; padding: 2px;">12</span> ▾	Frame Ra... <span style="border: 1px solid #ccc; padding: 2px;">5</span> ▾	Frame Ra... <span style="border: 1px solid #ccc; padding: 2px;">15</span> ▾
Bit Rate: <span style="border: 1px solid #ccc; padding: 2px;">1024</span> 128-16384	Bit Rate: <span style="border: 1px solid #ccc; padding: 2px;">512</span> 128-16384	Bit Rate: <span style="border: 1px solid #ccc; padding: 2px;">128</span> 128-16384
Image Q... <span style="display: inline-block; width: 100px; height: 10px; background: linear-gradient(to right, #ccc, #00aaff); border: 1px solid #00aaff; border-radius: 5px;"></span> Quality Pri... Bit Rat...	Image Q... <span style="display: inline-block; width: 100px; height: 10px; background: linear-gradient(to right, #ccc, #00aaff); border: 1px solid #00aaff; border-radius: 5px;"></span> Quality Pri... Bit Rat...	Image Q... <span style="display: inline-block; width: 100px; height: 10px; background: linear-gradient(to right, #ccc, #00aaff); border: 1px solid #00aaff; border-radius: 5px;"></span> Quality Pri... Bit Rat...
U-Code: <span style="border: 1px solid #ccc; padding: 2px;">Basic Mode</span> ▾	I Frame I... <span style="border: 1px solid #ccc; padding: 2px;">50</span> 10-250	I Frame I... <span style="border: 1px solid #ccc; padding: 2px;">30</span> 10-250
	U-Code: <span style="border: 1px solid #ccc; padding: 2px;">Close</span> ▾	U-Code: <span style="border: 1px solid #ccc; padding: 2px;">Close</span> ▾

OK
Cancel

- Click **OK** to save the configurations.

### 3.5.5 Upgrade Devices

**Basic > Batch Config > Device Upgrade**

Upgrade devices.

- Choose the organization on the left-side organization tree.
- Select the devices you want to upgrade, click **Check for Update**. The new version, if available, will be displayed in the **New Version** column.
- Click **Upgrade** to upgrade the devices.

	Device Name	Model	Organization	Status	Current Version	New Version	Operation	Upgrade Status
<input type="checkbox"/>	192.168.17.20	NVR-8228-4000-C	root	Online	NVR-8228-4000-C	16		
<input type="checkbox"/>	192.168.17.32	IPC-8228-4000-C	root	Online	IPC-8228-4000-C	00		

## 3.6 Recording Schedule

Use recording schedules to customize recording operations for different cameras during specified time periods.

**Note:** This function is not available to VMS-10A1.

### 3.6.1 Time Template

**Basic > Recording Schedule > Time Template**

Each recording schedule uses a time template to specify recording time and policy. The system provides a default template (All-day) which records video 24/7. You can customize time templates for your recording schedules.

**Note:**

- The default template can be renamed but cannot be deleted.
- A holiday in a time template is effective only when the holiday is configured and enabled (**System > Basic > Holiday**). See [Holiday](#).

- Click **Add**, and then follow the steps to create a time template.

Add Time Template
✕

\*Template Name:

Copy From

Edit
 Reset

Up to 8 time periods can be included in each day

0 2 4 6 8 10 12 14 16 18 20 22 24

Sun																						
Mon																						
Tue																						
Wed																						
Thu																						
Fri																						
Sat																						
Holiday																						

Erase
 Schedule

Note: Holiday in the template is effective only when holiday is configured and enabled.

Remarks:

OK
Cancel

No.	Description
1	The template name must be unique in the system.
2	Select the checkbox and then select an existing template from the drop-down list, so you can edit based on the template without configuring from scratch. The template selected will not be altered.
3	Click a type (e.g., Schedule) and then drag or click on the grid.
4	Click the button and then drag or click on the grid to delete settings.
5	Click to set more precisely. After settings are completed for one day, you can use the <b>Copy To</b> feature to apply the same settings to other day(s): select the day(s) and then click <b>Copy</b> .
6	Click to erase all settings on the grid.

2. Refer to the table below for the meanings of recording schedule types.

Type	Description
Schedule	Record video according to the time set in the schedule.

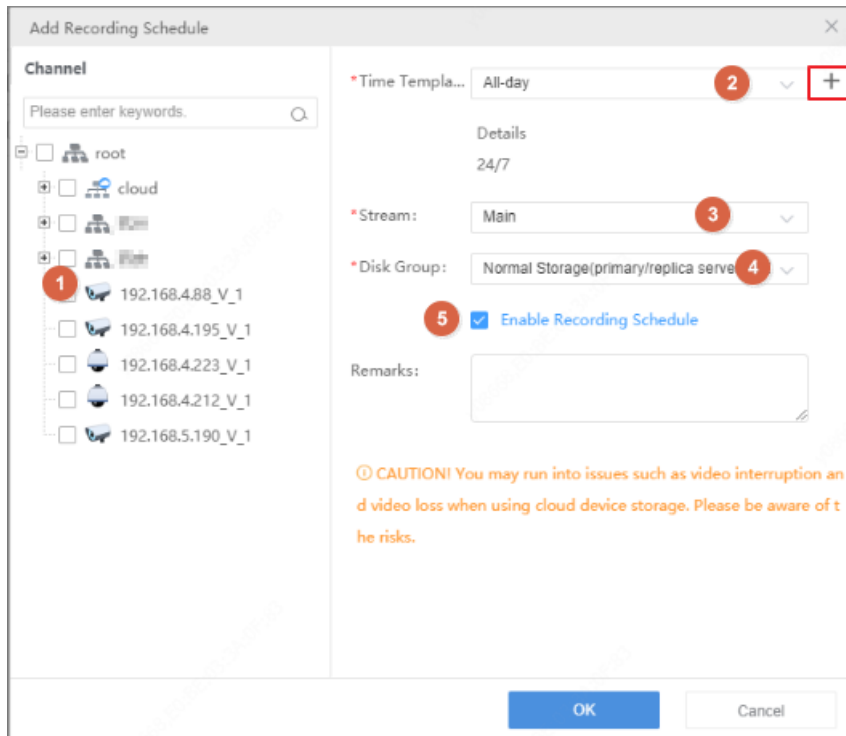
The new time template appears in the list and can be edited or deleted as needed.

### 3.6.2 Recording Schedule

#### Basic > Recording Schedule > Recording Schedule

Create a recording schedule so the VMS can record videos from specified cameras according to the set schedule, recording type, stream type, etc.

1. Click **Add**, and then follow the steps to add a recording schedule.







2. Select camera(s).
3. Select a time template, or click to create one. See [Time Template](#).
4. Select a stream type to record.
5. Select a disk group: normal storage or IPSAN.
6. By default **Enable Recording Schedule** is selected. Clearing the checkbox will disable the recording schedule.
7. Enter a description for the recording schedule in the **Remarks** field.
8. Click **OK**. The new recording schedule appears in the list.

#### **Note:**

- Before you set recording as a trigger action (also known as linkage action), make sure a correct recording schedule has been configured and enabled for the linked camera; otherwise, recording cannot be triggered as expected. For more details, see [Alarm Configuration](#).
- The VMS supports Automatic Network Replenishment (ANR). For an ANR-enabled camera (including NVR-connected camera), if network connection is interrupted during its recording schedule, video will be saved to the camera's onboard SD card or NVR during the interruption and will be transferred automatically to the VMS when network connection is recovered.
- For third-party cameras, if the stream type selected is an unsupported video stream (e.g., MJPEG), recording will fail, and the **Diagnosis** column on the **Recording Schedule** page will indicate "unsupported encoding format".

### Other operations

- Edit a recording schedule: Click the corresponding  in the **Operation** column, or select the recording schedule and then click **Edit** on the top, and then modify the recording schedule. Click **OK** to save the settings when you complete.
- Enable a recording schedule: Click the corresponding  in the **Operation** column, or select the recording schedule and then click **On** on the top. The recording schedule takes effect when enabled.
- Disable a recording schedule: Click the corresponding  in the **Operation** column, or select the recording schedule and then click **Off** on the top. The recording schedule does not take effect when disabled.
- Delete a recording schedule: Click the corresponding  in the **Operation** column, or select the recording schedule and then click **Delete**.

- Quick navigation: Click **Links** on the top, and then choose **Recording** or **Allocate Space** from the drop-down list to navigate to the corresponding page.

## 4 Alarm Configuration

Configure time templates, alarms, linkage actions, and alarm subscription so the specified actions will be triggered and the specified users will be alerted when an alarm occurs. Linkage actions include recording, email, and snapshot. You can also customize alarm levels to assign different severity levels to different alarm types.

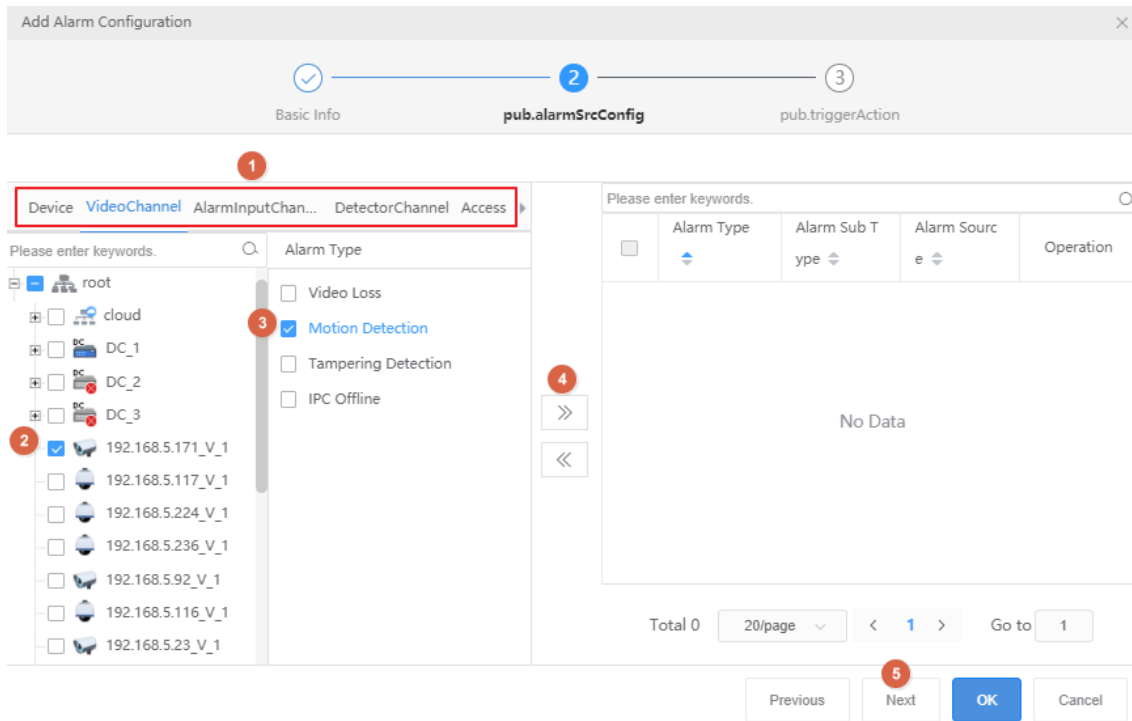
### 4.1 Alarm Configuration

#### Alarm Configuration > Alarm Configuration

1. Click **Add**, and then follow the steps to add alarm configuration.

No.	Description
1	The alarm configuration name must be unique in the system.
2	Select a <a href="#">Time Template</a> , or click <a href="#">+</a> to create one. The alarm configuration is effective during the time set in the time template.
3	The alarm configuration is effective when the <b>Enable</b> checkbox is selected.

2. Set alarm source(s) and alarm type(s). When an alarm of the specified type occurs at the alarm source, it will trigger the object to perform the specified action(s). Up to 2000 combinations of alarm sources and alarm types are allowed.



No.	Description
1	Select the alarm source type. <b>Note:</b> The types displayed may vary depending on the VMS model and version. The illustration is just an example.
2	Select alarm source(s).
3	Select alarm type(s).

- Set action(s) to trigger and object(s) to link. When an alarm of the specified type occurs at the alarm source, the linked object(s) will perform the specified action(s). To trigger email, you also need to complete email settings (see [Email](#)). To trigger buzzer, select **Enable Buzzer**. When an alarm of the specified type occurs at the alarm source, the linked object(s) will perform the specified action(s).

The alarm configuration appears in the list and can be deleted, enabled or disabled as needed. Alarm configuration is not effective when disabled.


## 4.2 Time Template

### Alarm Configuration > Time Template

Configure time templates for alarm configuration. All-day is the default time template in the system. You may change its name, but cannot delete this template.

- Click **Add** to create a time template:

2. Enter the template name, e.g., Workday. The template name must be unique in the system. A name that is easy to identify is recommended.
3. (Optional) Select **Copy From** and select a template from the drop-down list. Edit based on this template.
4. Click **Schedule** on the right and then drag the mouse to draw on the template. Use the **Erase** or **Reset** button to clear some or all settings.
5. To set precisely, click **Edit**. After completing the schedule for a day, you may copy the settings to other days by selecting the day(s) and clicking **Copy**.
6. Click **OK**.


 **Note:**  
A holiday in a time template is effective only when the holiday is configured and enabled (**System > Basic > Holiday**). See [Holiday](#).

## 4.3 Email Records

### Alarm Configuration > Email Records

Add a valid email address as recipient before setting email as a triggered action.

Click **Test email** to test.

 **Note:**  
An email server must be configured before testing the email. For details, see [Email](#).

## 4.4 Custom Alarm Level

### Alarm Configuration > Custom Alarm Level

Assign alarm levels based on alarm type to distinguish alarm severity. There are five alarm levels (Level 1 to Level 5). Level 1 represents the severest and uses red.

Click an alarm source type (e.g., Device) on the left, and then, for the alarm type you want to configure, select the desired alarm level from the drop-down list. The settings are saved directly.

To assign the same alarm level to multiple alarm types: select alarm types (1) and then click **Custom Alarm Level** (2). In the dialog box displayed, select the desired alarm level and then click **OK**.

## 4.5 Alarm Subscription

Subscribe to specified alarm types from specified devices so that only alarms of interest will be pushed to the client.

Type	Description	Difference
Client Alarm Subscription	Subscribes to real-time alarms of interest for client's users.	<ul style="list-style-type: none"> <li>Filters real-time alarms only; all historical alarms can still be viewed.</li> <li>Needs to specify alarm notification recipients.</li> <li>When enabled, the subscription will be effective for all periods.</li> </ul>
Device Alarm Subscription	Subscribes to alarms from devices of interest.	<ul style="list-style-type: none"> <li>Applies to both real-time alarms and historical alarms.</li> <li>Applies to all users.</li> <li>You can set the effective time period.</li> </ul>

The two subscription types can be configured with only one or both.

When configured at the same time, the **Device Alarm Subscription** rule has higher priority, that is:

- When **Device Alarm Subscription** subscribes to a certain alarm, the specified users can receive the alarm only when **Client Alarm Subscription** also subscribes to that alarm; otherwise, they cannot receive the alarm.
- If **Device Alarm Subscription** filters a certain alarm type, even if **Client Alarm Subscription** has subscribed to that alarm, the specified users cannot receive the alarm.

### 4.5.1 Client Alarm Subscription

#### Alarm Subscription > Client > Alarm Subscription


Add alarm subscription to allow specified users to only receive real-time alarm messages of specified types reported by specified alarm sources; other alarm messages will be filtered out (historical records of filtered alarms can still be queried).

- Click **Add** to add alarm subscription.
- Select alarm subscriber.

No.	Description
1	The alarm subscription name must be unique in the system.
2	Alarm subscription is effective when the <b>Enable</b> checkbox is selected.
3	Select the alarm subscriber.

3. Select the alarm source and alarm type.

No.	Description
1	Select the alarm source type.

No.	Description
	 <b>Note:</b> The types displayed may vary depending on the VMS model and version. The illustration is just an example.
2	Select the alarm source. Only alarms from the specified source will be sent to the subscriber.
3	Select the alarm type. Only alarms of the specified type(s) will sent to the subscriber.

- The alarm subscription appears in the list and can be deleted, enabled or disabled as needed. Alarm subscription is not effective when disabled.

 **Note:**

- Alarm subscription is enabled by default. If disabled, the client cannot receive any alarm messages, even if alarm subscription is configured.
- By default, a non-subscriber receives all alarm messages. To block all alarm messages for the user, add the user as an alarm subscriber without configuring any alarm source. Click **Save** directly at the **Select Alarm Sound and Type** step.
- All alarms, including the subscribed and filtered, can be found on **History** tab on the **Alarm Records** page at the Software Client.

## 4.5.2 Device Alarm Subscription

### Alarm Subscription > Device>Alarm Subscription




By configuring device alarm subscription rules, it is possible to receive only the alarms of interest and filter out the alarms that are not of interest (filtered alarms will not be saved in the historical alarm records). The effective time period can be set when subscribing to device alarms.

- Rule A: Select alarms you want to receive. Alarms that are not selected will be filtered.
- Rule B: Select alarms you want to filter. Alarms that are not selected will be received.

Note: When no plan is enabled, all device alarms will be received.

Rule A: Select alarms you want to receive. Alarms that are not selected will be filtered.

Rule B: Select alarms you want to filter. Alarms that are not selected will be received.

+ Add		Delete		Q Please enter keywords.	
<input type="checkbox"/>	Device Alarm Subscription Plan Name	Remarks	Subscription Rule	Status	Operation
<input type="checkbox"/>	Subscription1		Subscription Rule A	Off	  

### Add device subscription

- Click **Add** to add device subscription.

Add Device Subscription
✕

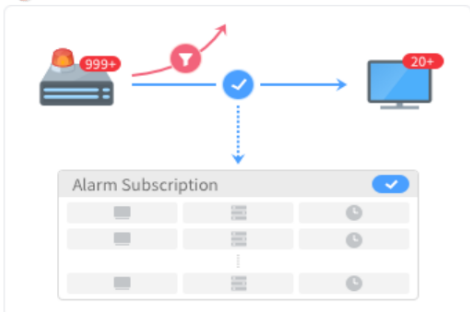
1  
 Select Subscription Rule

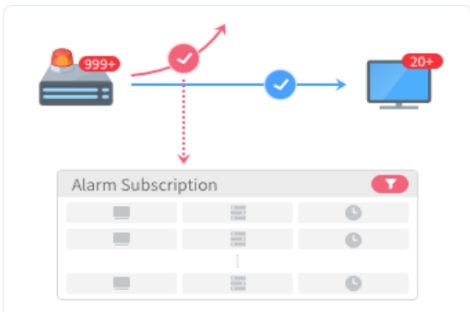
2  
 Configure Alarm Source, Alarm Type and Time Template

\*Device Alarm Subscripti...   Enable

Device Alarm Subscription Rule

Rule A: Select alarms you want to receive. Alarms that are not selected will be filtered.
 
 Rule B: Select alarms you want to filter. Alarms that are not selected will be received.

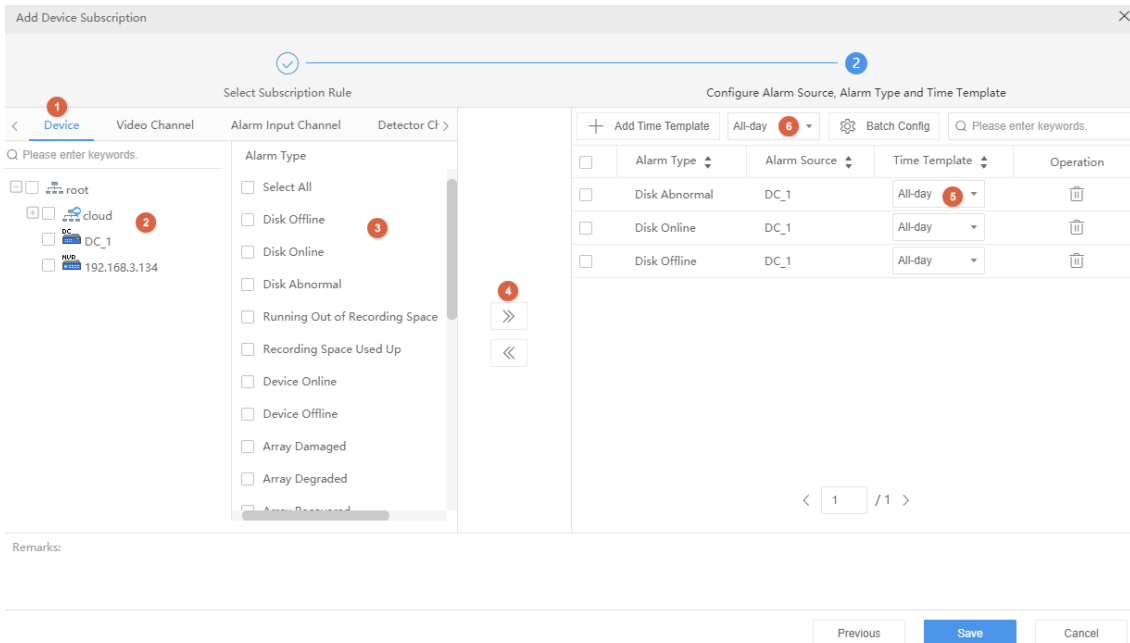







Next
Cancel

No.	Description
1	The device subscription name must be unique in the system.
2	Device subscription is effective when the <b>Enable</b> checkbox is selected. You can also choose not to select <b>Enable</b> and enable it later as needed.
3	Select <b>Rule A</b> or <b>Rule B</b> .



- Click **Next** to configure the alarm source, alarm type, and time template.



No.	Description
1	Select the alarm source type.  <b>Note:</b> The types displayed may vary depending on the VMS model and version. The illustration is just an example.
2	Select the alarm source. Only alarms from the specified source will be received.
3	Select the alarm type. Only alarms of the specified type(s) will be received.  <b>Note:</b> Different alarm sources support different types of alarms.
4	Click ">>" to add the selected alarm sources and alarm types to the right list.
5	Select the time template to only subscribe to alarms within the allowed time period.  <b>Note:</b> <ul style="list-style-type: none"> <li>Customize time templates: click <b>Add Time Template</b>, follow the instructions for the operation, see <a href="#">Time Template</a>.</li> <li>Batch configuration: Select a time template at ⑥, click <b>Batch Configuration</b>, and the time template will be applied to all alarm types.</li> </ul>

- Click **Save**.



## Manage device subscription

- Enable/Disable: click  enable /  disable device subscription.




### Note:

- Only the enabled subscription will take effect.
- Only one subscription can be enabled at a time. If there is already a subscription enabled, enabling a new subscription will deactivate the existing plan.

- Edit: Click  to edit subscription.
- Delete: Click , or select subscriptions and click **Delete** to delete items.

## Time Template

### Alarm Subscription>Device>Time Template

 **Note:** The created time templates in this page are exclusively for "Device Alarm Subscription" and will not affect other functions that require time templates.

Support pre-creating time templates and configuring the effective time of alarm subscriptions, so that time templates can be quickly applied when subscribing to alarms.



1. Click **Add** to create a time template.

Add Time Template ✕


\*Template Name:

Copy From All-day ▾

Up to 8 time periods can be included in each day

 Edit  Reset

	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun													
Mon													
Tue													
Wed													
Thu													
Fri													
Sat													
Holiday													

4  Erase


Alarm Subsc...

Note: Holiday in the template is effective only when holiday is configured and enabled.

---

Remarks:

OK
Cancel

No.	Description
1	Template names cannot be duplicated.
2	Select <b>Copy From</b> and select a template from the drop-down list. Edit based on this template. The existing template will not be modified.
3	To set precisely, click <b>Edit</b> . After completing the schedule for a day, you may copy the settings to other days by selecting the day(s) and clicking <b>Copy</b> .  <b>Note:</b> A holiday in a time template is effective only when the holiday is configured and enabled ( <b>System &gt; Basic &gt; Holiday</b> ). See <a href="#">Holiday</a> .
4	Click <b>Erase</b> to use the cursor to drag and erase the unnecessary time periods on the time grid.

2. Click **OK**.

## 4.6 Custom Alarm

### 4.6.1 Custom Alarm

#### Alarm Configuration > Custom Alarm> Custom Alarm

Customize alarms reported by alarm control panel or access control.

1. Click **Add**.
2. Customize alarms as needed.

The 'Add' dialog box has a title bar with 'Add' and a close button. It contains three required fields, each marked with an asterisk: 'Alarm Source Typ...' with a dropdown menu showing 'Select', 'Third-Party Alarm...' with a dropdown menu showing 'Select', and 'Alarm Type:' with a text input field. At the bottom right, there are two buttons: a blue 'OK' button and a white 'Cancel' button.

Item	Description
Alarm Source Type	Choose alarm control panel or access control.
Third-Party Alarm Type	Select the alarm type of the alarm source.
Alarm Type	Customize the alarm type displayed on the VMS.

3. Click **OK**. The default custom alarm level is 1, and you may change it at [Custom Alarm Level](#).

### 4.6.2 General Alarm

#### Alarm Configuration > Custom Alarm > General Alarm

Add device side's (AIBox/EIA) alarm types to the platform so that you can receive alarms reported by these kinds of devices.

The 'Import General Alarm' interface includes a toolbar with 'Import General Alarm', 'Delete', and 'Export' buttons, and a search bar. Below is a table with the following data:

No.	Alarm Type	Alarm Type Description	Status	Operation
1	ChannelBlockageDetection	ChannelBlockageDetection	Off	⊕
2	FireDetection	FireDetection	On	⊖
3	FumesAlarmBegin	FumesAlarmBegin	On	⊖


#### Import General Alarm

1. Click **Import General Alarm**. The **Import** page appears. Click **Download** to obtain the import template.

The 'Import' dialog box has a title bar with 'Import' and a close button. It contains a 'Save File To' field with a folder icon, a 'Download' link, and two buttons at the bottom: a blue 'OK' button and a white 'Cancel' button.


- Fill in the relevant information for alarm types in the template. Up to 256 alarm types are allowed in a template.

No. (*)	Alarm Type (1 to 64 characters)	Alarm Type Description (1 to 64 characters)	Status (0-Off, 1-On)

- Alarm Type: Enter the alarm name that is consistent with the alarm type on the device side.
  - Alarm Type Description: Set the alarm name to be displayed on the platform as needed.
  - Status: 0 - disabled, 1 - enabled. The platform can receive this type of alarm only when the status is enabled.
- On the **Import** page, click  to upload the modified template from local.
  - Click **OK**.

### Enable/Disable General Alarm

The platform can receive this type of alarm only then the alarm status is enabled.

In the alarm list, click the corresponding / in the **Operation** column to enable/disable the alarm type.

### Edit Alarm Type Description

Edit the description in the input box directly, and then click on any blank area to save.


### Delete General Alarm

Select general alarm(s) in the list, and click **Delete**.

### Export General Alarm

Click **Export** to export the general alarm list into a .CSV file.

## 5 Recording Backup

 **Note:** This function is not available to VMS-10A1.

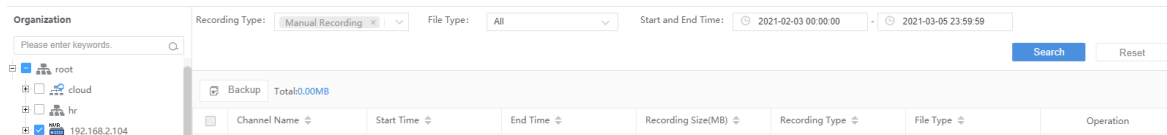
Back up recordings manually or automatically to PC for safety.

You can create backup tasks to back up recordings of specified types according to a schedule.

### 5.1 Local Backup

#### Recording Backup > Local Backup

Save recordings manually to a USB drive plugged in to the VMS. You may format the USB drive in advance or format it on the Web.



- Select channels on the left, and then set search conditions on the right, including recording type, file type, time period, and then click **Search**.
- (Optional) Click buttons in the **Operation** column to play or back up a recording file.
- Select files to back up. The space required for the backup is displayed next to the **Backup** button. Click the button.
- On the page displayed, set the backup task and path; you may also:
  - Create new folders in the USB drive.
  - Edit or delete existing files or folders in the USB drive.
  - Format the USB drive into NTFS or FAT32 format.

- View the total space and remaining space of the USB drive.
5. Click **OK**.
  6. Click the **Backup Management** button (📁) in the top right corner to view backup tasks or delete a backup task in progress.

## 6 System Configuration

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System configuration configures general parameters of system (time, holidays, HDD, network, etc.) and includes basic configuration, disk configuration, network configuration, protocols & interconnection, security configuration, system maintenance, and map configuration.


### 6.1 Basic Configuration

#### 6.1.1 Basic

**System > Basic > Basic**

Configure the basic information of the VMS, including device name, system language; view device information including device model, serial number, firmware version, Video&Image Database version, and running time.

Device Name	<input type="text" value="VMS"/>
Device ID	<input type="text" value="1"/>
Device Language	<input type="text" value="English"/>
Model	VMS
Serial No.	██
Firmware Version	VMS-████████████████████████████████████
Video&Image Database Vers...	VIID-B100
Running Time	13 day(s) 0 hour(s) 55 min(s)

 **Note:**

- Currently device ID is not in use.
- The **Running Time** shows how long the VMS has been running since its latest startup. This can be used to determine when a restart has occurred.

#### 6.1.2 Date & Time

**System > Basic > Time**

Configure time for the VMS, including time zone, date and time format, and system time.

Auto Update: If enabled, an NTP server must be configured. The system time of the VMS syncs with the NTP server.

Time Zone	(UTC+08:00) Beijing, Kuala Lt ▾
Date Format	YYYY-MM-DD ▾
Time Format	24-hour ▾
System Time	🕒 2021-03-25 15:53:44
Auto Update	<input type="radio"/> On <input checked="" type="radio"/> Off

Save



**Note:**

The PC Web client provides the **Sync with Computer** feature. When this feature is enabled, the system time of the VMS syncs with the PC's system time.

### 6.1.3 DST

System > Basic > DST

Set DST properly if your country or area uses the Daylight Saving Time (DST).

Basic Setup	Time	DST	Time Sync	Holiday
DST		<input checked="" type="radio"/> On <input type="radio"/> Off	Note: Please keep DST settings on the PC consistent with that on the devices.	
Start Time		Mar ▾	2nd ▾	Sun ▾ 2
End Time		Nov ▾	1st ▾	Sun ▾ 2
DST Bias		60 minutes ▾		

Save

### 6.1.4 Time Sync

System > Basic > Time Sync

This function is disabled by default. When **Sync Device Time** and **Sync Device Time Zone** are enabled, the VMS syncs time and time zone to all the directly connected devices under it immediately, including IPC, NVR, encoder and decoder (not including devices connected via an NVR).

1. To enable **Sync Device Time**, select **On** and set an appropriate interval.
2. Enable **Sync Device Time Zone** as needed when **Sync Device Time** is on.
3. Click **Save**. The VMS will sync the PC's time to devices immediately and then repeat this operation at the set interval.

Sync Device Time	<input checked="" type="radio"/> On <input type="radio"/> Off
Interval	<input type="text" value="1"/> hour(s)
Sync Device Time Zone	<input checked="" type="radio"/> On <input type="radio"/> Off

Save

### 6.1.5 Holiday

System > Basic > Holiday

Holiday is used by time templates (see [Time Template](#)) for recording and alarm configuration. Specify holidays to make time templates more flexible and accurate.

The holiday name must be unique in the system.

Holiday
✕

\* Holiday Name:

Repeat:  No  Yes

Mode:  By Day  By Week

Start Time:

End Time:

Status:  On  Off

OK
Cancel

## 6.2 Disk Configuration

### 6.2.1 Disk Management

System > Disk > Disk

Format	Read Only	Read/Write	Current Policy: <span>Overwrite</span> Retention Period(days): <span>326</span>		Slot	Device	Status	Total (GB)	Free (GB)	Property	Disk Group Property	Server	Operation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			1	Local Disk	<span style="color: green;">■</span> Normal	3685.77	3526.75	Read'	Normal St	VMS-10A1-10A1	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			8-1	IPSAN	<span style="color: green;">■</span> Normal	6666.00	6599.00	Read'	IPSAN (nt)	VMS-10A1-10A1	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2	Local Disk	<span style="color: gray;">■</span> No Disk	0.00	0.00	Read'		VMS-10A1-10A1	

- View disk info: slot number, device (local disk or network disk), status, and space usage etc.



**Note:**

Images are stored on the disk in slot 1. Please ensure that there is a disk in slot 1 and is in normal status.

- View remaining storage days: When the storage policy is set to **Stop**, the system will calculate the estimated recording days; when the storage policy is set to **Overwrite**, the system will calculate the retention period in days.
- Configure read&write property: Select **Read Only/Read/Write** for the disk from the property selectbox, or select disk(s) and click **Read Only/Read/Write** above the list.
- Configure disk group property: Select **Normal Storage/Backup Storage** for the disk group from the disk group property selectbox.
- Format: Click for the disk, or select disk(s) to be formatted and click **Format** above the list.



**Note:**

- When RAID mode is turned off with undeleted array(s), the disk status is displayed as **Not Formatted**. You must format the disk before you can use it for storage.
- Formatting will erase all recordings stored on the disk.

### 6.2.2 Network Disk



**Note:** This function is not available to VMS-10A1.

System > Disk > Network Disk

- Configure IPSAN. After the configuration is complete, you can assign IPSAN storage at **Disk > Capacity**.



**Note:**

- You must complete configuration (such as service IP address) and create Targets and Initiators on the IPSAN console first.
- IPSAN smaller than 2G is unusable even if it is added successfully.

Add
✕

Type: IPSAN ▼

\* IP:

\* Target:

\* Initiator:


Username:

Password:

OK
Cancel

- IP: IP address of the management or service interface of the IPSAN, which must match that configured on the IPSAN console.
  - Initiator: Initiator that you have created on the IPSAN console.
  - Target: Target that you have created on the IPSAN console.
  - Username/password: For authentication; not required if authentication is disabled on the IPSAN console.
2. Click **OK**.
  3. Format disks or modify disk property as needed.

### 6.2.3 Allocate Space

 **Note:** This function is not available to VMS-10A1.

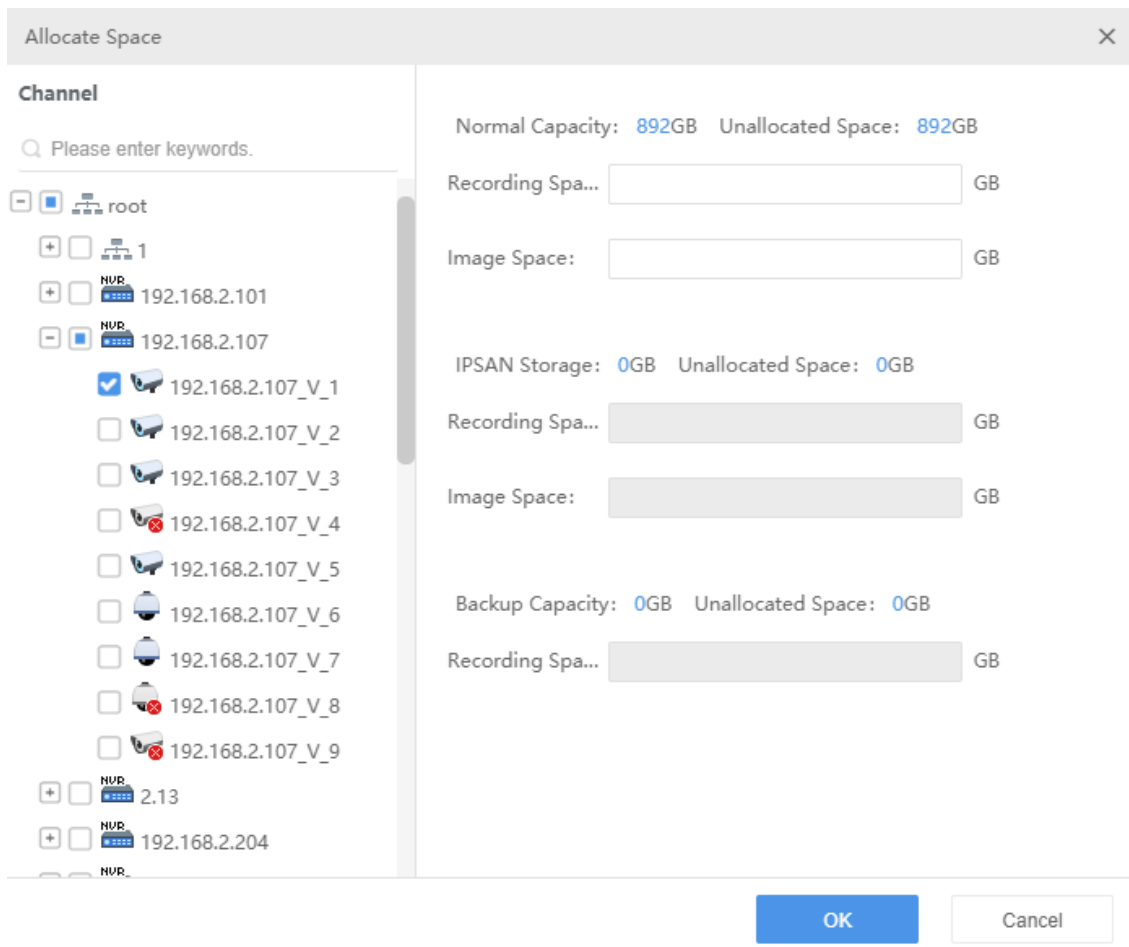
#### System > Disk > Allocate Space

Allocate space to store videos and snapshots from cameras. The total storage space assignable depends on configurations in [Disk Management](#) and [Network Disk](#).

 **Note:**

- Cameras with no space allocated share the free space.
- If the **Allocate** button is grayed out, check whether it is because you have turned on RAID mode but hasn't created any array.

1. Click **Allocate**, select cameras and then enter the space to assign.



- Normal Capacity: Allocate space for normal storage.
  - IPSAN Storage: Allocate IPSAN storage.
  - Backup Capacity: Allocate space for backup storage.
  - Recording Space: Used for recordings.
  - Image Space: Used for alarm-triggered snapshots.
2. Results appear in the list. Click or in the column to delete or edit.

## 6.2.4 Disk Group Property

**Note:** This function is not available to VMS-10A1.

### System > Disk > Disk Group Property

View capacity of normal storage, backup storage, and IPSAN.

Disk Group No.	Capacity (GB)	Property
1	0	Normal Storage

- Normal Storage: Used to store recordings for specified cameras.
- Backup Storage: Used to automatically back up recordings from specified NVRs.
- IPSAN: Network disk that you have added.

## 6.2.5 Advanced Configuration

### System > Disk > Advanced

Set the policy that the VMS adopts when recording space is used up on the VMS:

When HDD Full

- Overwrite** When storage is full, overwrite previous recordings.
- Stop** Please allocate space. Overwrite is still effective for cameras with no space allocated.

- **Overwrite:** Oldest recordings will be overwritten by new recordings when space is used up.
- **Stop:** Recording stops when space is used up.



**Note:**

The **Stop** mode is effective only when space is allocated. That is to say, for a camera that no space is allocated, its recording will still be overwritten even if you have set **When HDD Full** to **Stop**. So allocate space appropriately to avoid undesired video loss.

## 6.3 Network Configuration

### 6.3.1 TCP/IP

#### System > Network > TCP/IP

Set TCP/IP parameters in different working modes, including IP obtainment (static or DHCP), IP address, subnet mask, default gateway, MTU, preferred and alternate DNS server, and default route.

Working Mode	Multi-address
Select NIC	NIC4/Optical1/Optical2
DHCP	<input type="radio"/> On <input checked="" type="radio"/> Off
IPv4 Address	192.168.4.47
IPv4 Subnet Mask	255.255.0.0
IPv4 Default Gateway	192.168.4.1
MAC Address	XXXXXXXXXX
MTU	1500
Connection Status	Online
Rate	1000M Full-Duplex
Preferred DNS Server	192.168.2.230
Alternate DNS Server	8.8.8.8
Default Route	NIC4/Optical1/Optical2

Save



**Note:**


- Network configurations are isolated among different working modes.
  - Switching the working mode will restart the device and clear all custom routes.
  - The configured IPv4 addresses of the NICs must belong to different network segments.
- **Working mode**
    - **Multi-address:** Default mode. The Network Interface Cards (NICs) work independently with different IP addresses.
    - **Load Balance:** NICs that make up a virtual NIC use the same IP and work together to share the network load.

- Net Fault-tolerance: NICs that make up a virtual NIC use the same IP and work as a backup to each other. If either NIC becomes faulty, the other takes over.
- DHCP: Use a DHCP server to automatically assign an IP address.
- IPv4 Address: VMS' IP address. Users access the system at this address from a Web or software client.
- DNS server: Domain Name Server, which resolves a domain name into an IP address.
- Default Route: Specifies the default NIC that the VMS uses to send data. The default route may be different from the NIC set in the Select NIC drop-down list.

## 6.3.2 EZCloud

### System > Network > EZCloud

EZCloud is intended for remote surveillance and is disabled by default. You may enable EZCloud and use the register code to register the VMS at the EZCloud website. If the **Device Status** is **Online**, you can use the cloud account to access the VMS.

EZCloud	<input checked="" type="radio"/> On <input type="radio"/> Off
Server Address	en.ezcloud.uniview.com
Register Code	2.5[REDACTED]
Device Status	Offline
Username	
Device Name	
Service Agreement	<a href="http://en.ezcloud.uniview.com/doc/termsofservice.html">http://en.ezcloud.uniview.com/doc/termsofservice.html</a>
Detect Network Type	<input type="button" value="Detect"/>
Scan QR Code	

- Register Code: Each VMS has a unique register code which is used to add the VMS to cloud.
- Device Status: If the status is **Online**, you may use the cloud account to access the VMS; Clicking **Delete** will delete the device from cloud.
- Username: Account name used to register the VMS at the cloud website.
- Device Name: Cloud name of the device.
- Detect Network Type: Click **Detect** to detect the NAT type, IP address type and firewall of the network.
- Scan QR Code: Scan the QR code with the mobile client to add the VMS to cloud.



#### Note:

When connected to EZCloud, the VMS is remotely accessible from the computer software client or EZView on the Internet. It is recommended that the VMS has a public IP address or is connected to the Internet through single network address translation (NAT).

## 6.3.3 DDNS

### System > Network > DDNS

DDNS (Dynamic Domain Name Service) associates a changing IP address to a fixed domain name and allows users to access the device by visiting the fixed domain name instead of the changing IP address. DDNS is disabled by default.

Three DDNS services are available:

- DynDNS: You need to complete registration at the DynDNS official website first. After completing the registration, complete settings on this page, including the server address, port number, and username/password. When the device status is **Online**, you can access the VMS using the domain name.
- No-IP: You need to complete registration at the No-IP official website first. After completing the registration, complete settings on this page, including the server address, port number, and username/password. When the device status is **Online**, you can access the VMS using the domain name.
- EZDDNS:
  - The default server address is [en.ezcloud.uniview.com](http://en.ezcloud.uniview.com).
  - The default port is 80.
  - Domain name: Enter a domain name (e.g., VMS2) and then click **Check** to verify if the domain name is usable. If the domain name is usable, click **Save**. If the device status is **Online**, you can access the device using the automatically generated device address (e.g., [en.ezcloud.uniview.com/vms2](http://en.ezcloud.uniview.com/vms2)).

## 6.3.4 Port

**System > Network > Port**

Configure HTTP, HTTPS, RTSP and alarm ports.

HTTP Port	<input type="text" value="80"/>
HTTPS Port	<input type="text" value="443"/>
RTSP Port	<input type="text" value="554"/>
Alarm Port	<input type="text" value="52008"/>

Note: Please log in again after changing the HTTP port.

Save

## 6.3.5 Port Mapping

**System > Network > Port**

Use port mapping to configure mapping relations between internal and external ports.

The VMS supports two port mapping modes:

- UPnP:
  - Auto: The VMS automatically negotiates external ports with the router. If an external port is already in use, the VMS will negotiate with the router again with another port number.
  - Manual: Specify external ports manually. If the specified port is already in use, the VMS will not try again with another port, and port mapping will fail.
- Manual: Usually this mode is used when the router does not support UPnP. Complete settings on the router first and then fill in the settings on this page.



### Note:

- By default port mapping is disabled.
- Enable UPnP in the router first before you setting UPnP on this page. UPnP requires the router's support.

## 6.3.6 Custom Route

**System > Security > Custom Route**

Add static routes to interconnect the VMS with destination networks. Up to 100 custom routes are allowed. You need to choose the NIC and set the subnet ID, subnet mask and gateway. A custom route is enabled by default and can be disabled.

Add ✕

Status:  On  Off


NIC:

\* Subnet ID:

\* Subnet Mask:

\* Gateway:

---

 **Note:**  
Changing the NIC's working mode will clear all the existing custom routes.

### 6.3.7 Email

**System > Network > Email**

Email configuration must be completed before an email-related function (such as alarm-triggered email) can work properly.

Server Authentication  On  Off

Username


Password

SMTP Server

SMTP Port   Enable TLS/SSL

Sender Name

Sender Address

 **Note:**

- Enter the correct username and password after enabling (SMTP) server authentication.
- When **Enable TLS/SSL** is selected, data communication between the VMS and the SMTP server is encrypted.
- You may need to change the SMTP port accordingly after enabling TLS/SSL.

### 6.3.8 AD Domain

**System > Network > AD Domain**

#### Introduction

Active Directory Domain (AD Domain) is a Windows server directory that stores information about company computers, user accounts, groups, etc., serving as an organizational unit. It helps define security boundaries and


allows employees to log in using their domain accounts. All domain activities must comply with the company's security policies. With domain manager tools, companies can remotely manage and configure multiple domains for centralized control.

Once connected to an AD domain, administrators can set permissions for employees, allowing them to log in to this system with their AD domain accounts. This reduces the need for multiple usernames and passwords, ensuring secure and efficient login management.

### Configuration Instructions


Connect the system to AD domain and realize unified management and permission control.

Domain Name	<input type="text"/>
Hostname	<input type="text"/>
Port	<input type="text" value="636"/>
Enable SSL	<input checked="" type="radio"/> On <input type="radio"/> Off
Name	<input type="text"/>
Password	<input type="password"/>
Base DN	<input type="text" value=""/> <input type="button" value="Obtain DN"/>
<input type="button" value="Save"/>	

Item	Description
Domain Name	The AD domain name, obtained from the AD domain side.
Hostname	The IP address or the hostname of the AD domain server.
Port/Enable SSL	When SSL is enabled, data is encrypted using the SSL protocol for more secure transmission. The default port numbers differ when SSL is enabled or disabled. It is recommended to use the default port numbers.
Name/Password	The username and password of the AD domain administrator.  <b>Note:</b> The user can interact with the domain using this credential. Do not change the user's password in the AD domain, as it may lead to authentication errors during domain user imports.
Base DN	Click <b>Obtain DN</b> to get the root directory name of the AD domain, which is used to search for the domain user list. After obtaining the correct base DN, click <b>Save</b> .

### Subsequent Operations

Go to **Basic > User > User**, [import domain users](#). Then, they can log in to this system using their domain username.

 **Note:**  
When domain users log into this system, the username format on the [Login](#) page is **Domain Name \Username**.

## 6.4 Protocols & Interconnection

### 6.4.1 VSS Server

#### VSS Server

##### System > Network > Protocols & Interconnection > VSS Server

Configure VSS server parameters to connect the VMS to a higher-level management platform. When the configuration is complete, you can manage the VMS on the platform and live view, play back, and subscribe alarms from channels under the VMS.

The SIP server below refers to the higher-level management platform.

- Complete basic settings

VSS Server  On  Off

Device Offline:Unregistered.

SIP Server ID 3400000002000000010

SIP Server IP 127.0.0.1

Username admin

Registration Validity(s) 3600

Heartbeat Cycle(s) 30

Live View TCP Connection Auto-Negotiation

Organization General

SIP Server Domain 3402000001

SIP Server Port 5061

Password .....

Administrative Division Code 3402

Max Heartbeat Timeout Cou... 3

Stream Encapsulation Format Auto-Negotiation

Save

- SIP Server ID: ID of the platform server (obtained from the server).
- SIP Server IP: IP address of the platform server (obtained from the server).
- Organization: The drop-down list shows the General organization and all the custom organizations that you have created. You need to click **Save** after choosing a different organization from the list. The organization tree in the lower left corner shows the organization that you have chosen.
- SIP Server Domain: Domain ID of the platform server.
- SIP Server Port: Port assigned on the platform server.
- Heartbeat Cycle: Keepalive cycle between the VMS and the platform.
- Max Heartbeat Timeout Counts: Max number of times that communication between the VMS and the platform times out. Communication stops automatically when it reaches the max count.
- Share channels with a higher-level management platform  
When channels are shared successfully with the higher-level management platform, operators can search these channels on the platform and subscribe to alarms of these channels. When sharing is stopped, the channels will be deleted from the higher-level management platform.

Organization

Please enter keywords:

root(34020000002160000009) cloud(3402000000021600001001)


Video Channel Alarm Input Audio Channel

Sharing Stop Sharing Batch Edit Quick Config Only channels with channel ID can be shared.

Channel Name Channel ID Organization ID Alarm Level Longitude Latitude Status Operation

Channel Name	Channel ID	Organization ID	Alarm Level	Longitude	Latitude	Status	Operation
192.168.12.12_V_1		34020000002160000009	Level 4	0	0	Unshared	
192.168.12.12_V_1		34020000002160000009	Level 4	0	0	Unshared	

1. Select the desired organization from the **Organization** drop-down list and then click **Save**. The organization appears on the organization tree.
2. Select the desired channel type to share: video channel, alarm input channel or audio channel.
3. Edit organization IDs on the organization tree. You can select multiple organizations and click **Batch Edit** (see 1 in the figure) to edit in batches.
4. Choose one way to configure channel ID.
  - Click in the **Operation** column for the target channel, and then enter the channel ID.
  - Select the desired channels, click **Quick Config** (see 2 in the figure) to assign channel IDs to channels without channel IDs. Set the basic code, and then the system will create and assign channel IDs based on the basic code. This feature is not effective to channels that already have channel ID.
5. You can select channels and click **Batch Edit** (see 3 in the figure) to edit channel IDs in batches.

 **Note:**

- Channel ID: 8-character center code + 2-character industry code + 3-character type code + 7-digit sequence number (SN).
- Basic code: The system creates new channel IDs based on the basic code that you set and assigns automatically. The basic code includes three parts: the first part is the default value which you may change as needed; the second part can be selected according to the channel type; the third part is the sequence number that needs to be set.
- The **Quick Config** function only assigns new channel IDs to channels without channel ID and does not change any existing channel IDs.
- When you edit an organization ID on the organization tree, make sure each organization ID is unique in the local domain and is NOT identical with any organization ID or any other channel ID.

6. After being assigned a channel ID, a channels' status is displayed as **Shared**, the channel can be discovered on the higher-level platform, and the higher-level platform can subscribe to alarms from this channel.
7. To stop sharing channels, select the channels and click **Stop Sharing**. When sharing is stopped, the status changes to **Unshared**, and the channels are deleted from the higher-level platform.

 **Note:**

An audio channel cannot be shared or unshared like a video channel. An audio channel's status (Shared or Unshared) is consistent with that of the corresponding video channel. That is to say, sharing (or stop sharing) a video channel also shares (or stops sharing) the corresponding audio channel.

## VSS Local

Configure VSS local parameters to connect devices such as IPC and NVR to the VMS. In VSS local configuration, SIP server refers to the VMS.

### System > Network > Protocols & Interconnection > VSS Local

- SIP Server ID: VSS ID of the VMS.
- SIP Server Port: VSS port assigned on the VMS.
- Heartbeat Cycle: Keepalive cycle between the VMS and the IPC/NVR devices.
- Max Heartbeat Timeout Counts: Max number of times that communication times out between the VMS and IPC/NVR devices. Communication stops automatically when it reaches the max count.

SIP Server ID	<input type="text" value="34020000002001300789"/>
SIP Server Port	<input type="text" value="5050"/>
Heartbeat Cycle(s)	<input type="text" value="60"/>
Max Heartbeat Timeout Cou...	<input type="text" value="3"/>

## 6.4.2 Video&Image Database

### System > Network > Protocols & Interconnection > VIID

Video&Image database configuration includes server configuration and local configuration.

### Video&Image Database Configuration

Video&Image Database Serv...  On  Off

Device Online

Server Address	<input type="text" value="192.168.1.100"/>	Server Port	<input type="text" value="55001"/>
Username	<input type="text" value="yad"/>	Password	<input type="password" value=""/>

- Device: The device is displayed as "Online" when the VMS is successfully connected to the Video&Image Database server.
- Server Address: IP address of the Video&Image Database server.
- Server Port: Port number of the Video&Image Database server.
- Username/password: The username and password used to connect to the Video&Image Database server.

## Video&Image Database Configuration

Local ID  Format: 8-char center code+2-char industry code+3-char type code+7-digit S/NCN must be digits; others can be digits or letters).

Local Port

- Local ID: Device ID of the VMS that you use when adding the VMS to the Video&Image Database server.
- Local Port: 5073. This port must be set on the license plate recognition camera or face recognition camera.

Add collection device/video checkpoint/collection system to the VMS.

You can search the added channels on the upper management platform and perform operations such as alarm subscription.

Collection Device								Video Checkpoint		Collection System	
Channel Name	Collection Device ID	Location	Organization Code	Longitude	Latitude	Operation					
192.168.2.141_V_1	12345678911100401712	XX		0	0						

Taking collection device as an example, video checkpoint/collection system are added in a similar way.

### 1. Click **Add**.

Add
✕

**Channel**

🔍 Please enter keywords.

---

root

192.168.2.141\_V\_1

Collection Dev...

Location:

Organization ...

Longitude:

Latitude:



#### Note:

- For collection device and video checkpoint, only smart devices, access control devices and channels under smart NVR connected via private protocol are displayed in the **Add** page.
- For collection system, only smart NVRs connected via private protocol are displayed in the **Add** page.

### 2. Set device ID, location and organization code according to the requirement.

- Device ID: The configured device ID is used to distinguish the device on the platform.
- Location: The place of the target device, for example, XX community.
- Organization code: Enter 12 characters to distinguish the device's location.

- Longitude/latitude: Enter the longitude and latitude of the device's installation location.
3. Click **OK**.



**Note:**

Please configure the collection system ID of the smart NVR before configuring its channels.

## 6.4.3 VG Platform

VG platform is disabled by default and needs to be enabled if you want to perform Video Guard authentication. Complete the settings correctly and then click **Save**. Connection succeeds when the server status changes to **Online**.

VG Platform	<input checked="" type="radio"/> On <input type="radio"/> Off
Site No	<input type="text"/>
Server Address	<input type="text" value="192.168.2.1"/>
Server Port	<input type="text"/>
Server Status	Offline

## 6.5 Security Configuration

### 6.5.1 802.1x

**System > Security > 802.1x**

Enable **802.1x** to control access to the device with username and password set in the network switch.

- You may select an NIC to enable 802.1x; authentication is independent among NICs. **Binding 1** and **Binding 2** are displayed if the working mode of the selected NIC is **Load Balance** or **Net Fault-tolerance**.
- Type: Protocol type, currently only EAP-MD5.
- EAPOL Version: 1 for 802.1x-2001, and 2 for 802.1x-2004.
- Username and password: Used for authentication. Authentication succeeds when the entered username and password match that on the authenticator (such as Ethernet switch).

Select NIC	<input type="text" value="NIC1"/>
802.1x	<input checked="" type="radio"/> On <input type="radio"/> Off
Type	<input type="text" value="EAP-MD5"/>
EAPOL Version	<input type="text" value="1"/>
Username	<input type="text" value="admin"/>
Password	<input type="text" value="*****"/>



**Note:**

802.1x must also be properly configured on the authenticator (such as Ethernet switch).

### 6.5.2 ARP Protection

**System > Security > ARP Protection**

Enable **ARP Protection** and bind the IP of the VMS' gateway to the gateway's MAC address to prevent spoofing attacks that impersonate the gateway.


Select **Auto** to obtain a MAC address automatically, or fill in a MAC address manually.

Select NIC

ARP Protection  On  Off

Gateway

Gateway MAC Address   Auto ⓘ Using automatically obtained MAC address may incur the risk of being attacked.

 **Note:**  
ARP protection is effective only when it is enabled and configured before an ARP attack occurs. Protection may fail if you edit the gateway MAC address during an attack.


## 6.5.3 HTTPS

**System > Security > HTTPS**

Enable HTTPS (HTTP Secure) by creating a private certificate or uploading a signed certificate. In HTTPS, the communication protocol is encrypted by Transport Layer Security (TLS) or Secure Sockets Layer (SSL).

- Private: Uses a private certificate which is not signed by a trusted authority.
- Request: Uses a certificate issued by a trusted authority.

After a certificate is created and HTTPS is enabled, you may use `https://device IP` to access the device.

 **Note:**

- If a private certificate has been created, you have to delete it before you can create another certificate.
- If a request has been created, you have to delete it before you can create another request.
- A certificate cannot be deleted when HTTPS is enabled. Disable HTTPS and then click **Save**.

## 6.5.4 SSH

**System > Security > SSH**

Enable or disable SSH (Secure Shell).

SSH  On  Off

## 6.5.5 IP Address Filtering

**System > Security > IP Address Filtering**


Use blacklist/allowlist to forbid or allow login from certain IP addresses only.

IP Address Filtering  Close  Blocklist  Allowlist

IP Address  -

Start IP	End IP	Operation
192.168.2.1	192.168.2.3	<input type="button" value="⌵"/>

- Blocklist: When enabled, login from the specified IP addresses is forbidden.
- Allowlist: When enabled, login only from the specified IP addresses are allowed.

 **Note:**

- Blocklist and Allowlist cannot be enabled at the same time.
- Blocklist/allowlist is effective to IP-based logins.
- You can click a field in the list to edit an IP address.

## 6.6 Maintenance

### 6.6.1 System Maintenance

System > Maintenance > Maintenance

Restart the VMS, restore default configurations, import or export configurations, export diagnosis info, and perform a local upgrade. Connect a USB storage device if you operate on the local client.

The screenshot shows a web interface for system maintenance. It features several blue buttons for actions: Restart, Default, Factory Default, Export Configuration, Import Configuration, Local Upgrade, and Export Diagnosis Info. Each button is accompanied by a descriptive text. The 'Export Configuration' section includes a file selection input and an 'Import' button. The 'Local Upgrade' section includes a file selection input and an 'Upgrade' button. The 'Export Diagnosis Info' section includes a server selection dropdown and an 'Export Diagnosis Info' button.

- Default: Restore all factory settings except network, user and event settings. Note: Except **IP Address Filtering**, all the other settings under the **Security** tab will be maintained.
- Factory Default: Restore all factory default settings.
- Export Configuration: Export current configurations to a backup file, and use this file to restore configurations when necessary.
- Export Diagnosis Info: Export diagnosis info of the VMS.
- Import Configuration: Restore configurations by importing a backup configuration file. The VMS will restart.
- Local Upgrade: Upgrade the VMS version by using upgrade files saved on a USB storage device. The VMS will restart to complete the upgrade.




#### Note:


The PC Web client provides the **Plug-in Log Path** feature. You may click **Open** to view plugin logs, or click the folder icon to customize the path. The text box and the button are grayed out if no plugin is installed or if your Web browser does not support a plugin.

### 6.6.2 Device Diagnosis Info

System > Maintenance > Device Diagnosis Info

Click  to export diagnosis information of devices (NVR and camera) directly connected to the VMS, including latest and history diagnosis info.

Latest diagnosis info can be exported only when the device is online.

The screenshot shows the 'Device Diagnosis Info' interface. It has a 'Latest Diagnosis Info' tab selected and a 'History Diagnosis Info' tab. There is a 'Save File To:' field with a file selection icon and an 'Open' button. Below this is a search bar with the placeholder text 'Please enter keywords.' and a search icon. A table lists devices with columns for Device Name, Server, Organization, Model, Status, and Operation. The first device listed is 192.168.4.234, with Server: VMS, Organization: root, Model: IPC, Status: Online (indicated by a green checkmark), and Operation: .

To export history diagnosis info, the NVR must be online (the camera doesn't have to). History diagnosis info refers to diagnosis info of up to the last 15 days.

Latest Diagnosis Info		History Diagnosis Info			
Device Name	Server	Organization	Model	Status	Operation
192.168.4.234	VMS	root	IPC	Online	

**Note:** This feature is not available to devices connected via VSS and third-party devices.

### 6.6.3 Delete Logs

**System > Maintenance > Delete Logs**

Set the VMS to delete operation and alarm logs automatically. Logs that have been saved for a certain period will be deleted automatically. The default maximum retention time is 30 days. Entering 0 means logs will not be deleted automatically.

Operation Logs	Max. Retention	<input type="text" value="30"/>	day(s) (0 means do not delete.)
Alarm Logs	Max. Retention	<input type="text" value="30"/>	day(s) (0 means do not delete.)
Door Entry/Exit Records	Max. Retention	<input type="text" value="30"/>	day(s) (0 means do not delete.)

### 6.6.4 Packet Capture

**System > Maintenance > Packet Capture**

Capture packets for troubleshooting or analysis.

Set conditions (port number, IP address, NIC and packet size) to capture or filter packets of specified port and/or IP address.

After conditions are set, click **Create Task**. Up to 5 tasks are allowed. The created tasks are listed. You may click



to delete a task.

Click to start the task, click to stop, and then click to export captured packets to your computer. You need to export manually every time a task is completed.

Port:  All  Specify  Filter  
 IP Address:  All  Specify  Filter  
 Select NIC:  192.167.10.68  
 Packet Size(Bytes):   
 Up to 5 tasks allowed.

Task	Status	Operation
<input type="checkbox"/> 101_eth0_ALL	Completed	

**Note:** A file is generated for each packet capture task with a max size limit (around 19.1M). When the file size reaches the limit, the packet capture task stops automatically (note: the status does not change and it is still displayed as **Ongoing** when the task stops in this way).

### 6.6.5 Network Detect

**System > Maintenance > Net Detect**

Enter a domain name or an IP address and then click **Test**. The test result will indicate whether the network is connected, and the connection status (including delay and packet loss rate) if connected.

Test Address	<input type="text" value="192.168.2.27"/>	<input type="button" value="Test"/>
Test Result	Delay:0.942ms, Packet Loss:0%	

## 6.6.6 Network Statistics

### System > Maintenance > Network Statistics

View network bandwidth usage statistics, including bandwidth used by connected IP cameras, used for remote playback, remote live view, remote playback and download, and idle receive and send bandwidth.

Type	Bandwidth
IP Channel	4Mbps
Remote Playback	0Kbps
Remote Live View	0Kbps
Remote Playback & Download	0Kbps
Idle Receive Bandwidth	508Mbps
Idle Send Bandwidth	384Mbps

Stream is abnormal when bandwidth is used up (Idle Receive Bandwidth is 0).

- IP Channel: Bandwidth usage when the VMS receives live video streams from devices (e.g., camera or NVR).
- Remote Playback: Bandwidth usage when the VMS receives recorded video streams from devices (NVR) (such as when a client computer plays recordings saved on the NVR).
- Remote Live View: Bandwidth usage when the VMS sends live video streams (such as when a client computer or video wall plays live video).
- Remote Playback & Download: Bandwidth usage when the VMS sends recorded video streams (such as when a client computer or video wall plays recorded video or during recording download).

## 6.6.7 Stream Transmission Policy

### System > Maintenance > Stream Transmission Policy

The Direct Connection First policy is effective on an LAN where the VMS collaborates with Uniview IPCs or NVRs.

If the policy is set to **Direct Connection First**, the VMS will determine whether conditions are satisfied (e.g., remaining output bandwidth of IPC/NVR) for direct transmission when starting streams. If conditions are satisfied, streams will be directly transmitted from IPC/NVR to the decoder, avoiding bandwidth consumption of the VMS. If conditions are not satisfied for direct transmission, streams will be transmitted via the VMS.

If the policy is set to **Forwarding First**, streams will always be transmitted via the VMS from IPC/NVR to the decoder.

Add
✕

**Device**

Please enter keywords. 🔍

- root
- 192.168.2.124

Stream Transmissi... Forwarding First ▼

Stream Transmissi...  TCP  UDP

Note: Some decoding devices do not support TCP-based direct connection.

OK

Cancel

**Note:** Some decoders do not support TCP-based direct connection. The settings are not effective even though you have set so on the page.

## 6.6.8 Data Backup

### System > Maintenance > Data Backup

Back up database so that VMS configurations can be quickly restored by using a data backup when necessary.

Parameter Config
Backup Records
Maintenance Statistics Backup
Maintenance Statistics Backup Records

Scheduled Backup  On  Off

Backup Period day(s) ▼

Backup Frequency 1 ▼ day(s): perform a backup every n day(s).

Backup Time 🕒 00:00

Max. Number of Backups - 30 + Max number of backups to retain.

Backup Now

Save

### Configure scheduled backup

Configure scheduled backup on the **Parameter Config** tab so the VMS backs up databases automatically in accordance with the set period, frequency and time.


- Scheduled Backup: Select **On** to enable this function.
- Backup Period: Choose to back up by day, week or month.
  - By day: Set backup frequency, that is to perform a backup every *n* days.
  - By week: Choose the days of a week on which a backup will be performed.
  - By month: Choose the days of a month on which a backup will be performed.

- **Backup Time:** Set the time to perform a backup.
- **Max. Number of Backups:** Set the maximum number of backup files. Up to 30 backups are allowed. When the number of backups reaches the maximum number, new backups will overwrite old backups.


### Backup manually

On the **Parameter Config** tab, click **Backup Now** to perform a backup manually. A backup record appears on the **Backup Records** tab.

### View backup records

View scheduled and manual backup records on the **Backup Records** tab. You can click  in the **Operation** column to export a backup file.

### Use a backup to restore configurations

On the **Backup Records** tab, choose a backup record and then click  in the **Operation** column. A message appears indicating the device will restart in order to complete this operation. Click **Yes** to proceed.

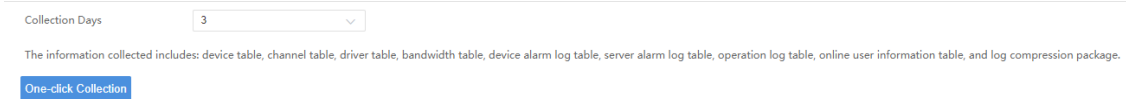
### Back up maintenance statistics

Create tasks to automatically back up maintenance statistics.

On the **Maintenance Statistics Backup** tab, click **Add** to create a task. Set backup period, backup frequency and backup time (see [Configure scheduled backup](#)). You can choose device type (such as encoding device, decoding device), device status (such as online/offline), export type (device or channel). You need to add recipients to receive the backup file. If the mail sending failed, a record will be generated on the **Maintenance Statistics Backup Record** tab (no record is generated if mail sending is successful). You can select one or more records and export.

## 6.6.9 One-click Collection


1. Select the number of days to collect.
2. Click **One-click Collection** to collect the related information.



## 6.7 Map Configuration

### System > Map Config

To use image maps on the software client, select **Image Map**. To use the online map on the software client, select **Online Map** and then set longitude, latitude and initial zoom level.

 **Note:**  
Only image map is available on the local client.

## 7 Statistics

View server statistics, device statistics, and logs. Server statistics include server status, online status, and network parameters.

### 7.1 Server Statistics

#### 7.1.1 Server Status

##### Statistics > Server > Server Status

View VMS information, including server name, IP address, serial number and status (online or offline), and export information to a CSV file. You can switch the list to a pie chart and place the mouse pointer on the pie chart to view the number and percentage.

Name	IP	Serial No.	Type	Status
VMS	127.0.0.1		Primary	Online

## 7.1.2 S.M.A.R.T. Test

### Statistics > Server > S.M.A.R.T. Test

Test the current health status of disks and view reference statistics after the test is finished.

The system provides three test types:

- Short: A short test checks less items than an extended test and it takes less time.
- Extended: An extended test checks more thoroughly than a short test and it takes longer time.
- Conveyance: A conveyance test mainly checks for data transmission problems.

Select Disk: 1

Test Type: Short Test Not tested

Manufacturer: WDC

Model: WDC

Disk temperature(°C): 27

Operation Time(day): 646

Overall Evaluation: Healthy

Test Result: Pass

Continue to use the disk if it fails to pass the test.

AttributeID	AttributeName	Status	Hex	CurrentValue	WorstValue	Thresh	ActualValue
200	Multi_Zone_Error_Rate	Normal	8	100	253	0	0



#### Note:

It is recommended to replace the disk if **Overall Evaluation** is not **Healthy**.

## 7.1.3 Network

### Statistics > Server > Network

Select an NIC to view its configurations. For details, see [TCP/IP](#).

Select NIC	NIC4/Optical1/Optical2
DHCP	Disable
IPv4 Address	192.168.4.47
IPv4 Subnet Mask	255.255.0.0
IPv4 Default Gateway	192.168.4.1
Gateway MAC Address	
MTU	1500
Connection Status	Online
Rate	1000M Full-Duplex
Preferred DNS Server	192.168.2.230
Alternate DNS Server	8.8.8.8
Default Route	NIC4

## 7.1.4 Online User

### Statistics > Server > Online User

View information about current online users, including username, client IP address, login time, and client type (WEB for Web client and CS for software client).

Admin can force other users to log out by selecting the target user(s) and clicking **Logout**. The target user(s) are logged out.

Logout				Please enter keywords.
<input type="checkbox"/>	Username	Login IP Address	Login Time	Client
<input type="checkbox"/>	admin	192.168.4.110	2022/01/24 15:15:45	WEB
<input type="checkbox"/>	admin	192.168.4.110	2022/01/24 11:40:37	WEB

## 7.1.5 Bandwidth

### Statistics > Server > Bandwidth

View the current bandwidth usage of the VMS. See [Network Statistics](#).

Device Name	IP	Device Type	IP Channel	Remote Playback	Remote Live View	Remote Playback & Download	Idle Receive Bandwidth	Idle Send Bandwidth
VMS	192.168.4.48	Replica	0Kbps	0Kbps	0Kbps	0Kbps	0Kbps	0Kbps
VMS	127.0.0.1	Primary	4Mbps	0Kbps	0Kbps	0Kbps	508Mbps	384Mbps

## 7.1.6 Packet Loss

### Statistics > Server > Packet Loss

View the packet loss rate of channels from which the VMS is receiving streams. Click **Start Calculation** and **Stop Calculation** buttons.

Channel Name	Device Name	Organization	Stream Type	Result	Operation
192.168.4.234_V_1	192.168.4.234	root	Third	--	<a href="#">Start Calculation</a>
192.168.4.239_V_1	192.168.4.239	root	Third	--	<a href="#">Start Calculation</a>
192.168.4.239_V_1	192.168.4.239	root	Main	--	<a href="#">Start Calculation</a>
192.168.4.234_V_1	192.168.4.234	root	Main	--	<a href="#">Start Calculation</a>

## 7.1.7 Server Performance


### Statistics > Server > Server Performance

View the current CPU usage, RAM (physical memory) usage, and receive (input) and send (output) bandwidths of the VMS.

The Web client starts calculation when you open the page and displays statistics of the recent 240 seconds. Place the mouse pointer anywhere on the chart (see 1 in the figure below) to view details at the specific point. If more than one NIC is in use, statistics of the NICs are shown in different colors. You may click under x-axis (see 2 in the figure below) to collect statistics of certain NICs only. The statistics are cleared when you switch to another page.

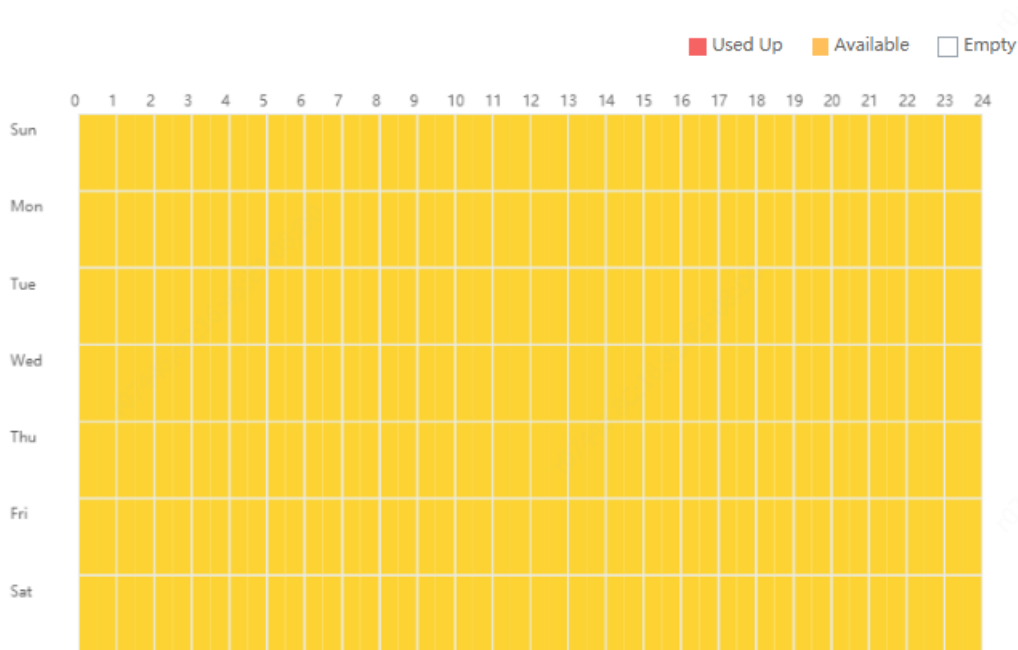


## 7.1.8 Storage Capacity

 **Note:** This function is not available to VMS-10A1.

### Statistics > Server > Storage Capacity

If the system indicates full storage capacity when you are configuring a recording schedule (**Basic > Recording Schedule**) or recording backup (**Recording Backup > Auto Backup**), you can analyze the usage of storage capacity on this page and then alter the current recording schedules or recording backup accordingly to free up certain storage capacity.



The vertical axis means days (Sunday to Saturday), and the horizontal axis means time (00:00 to 24:00, divided into 48 segments). Three colors represent three different statuses. And by placing the mouse pointer on the diagram you can view the used storage capacity of the corresponding period.

- Red: No idle storage capacity, and no recording schedule or recording backup schedule is allowed during this period.
- Yellow: Idle storage capacity, and recording schedule or recording backup schedule is allowed during this period.
- White: No storage capacity has been used during this period, and you can configure recording schedule and recording backup.

If the system indicates full storage capacity, try the following to release storage capacity.

Service Type	Try
Recording schedule (Basic > Recording Schedule)	Delete unnecessary recording schedules.
Recording Backup (Recording Backup > Auto Backup)	<ul style="list-style-type: none"> <li>Deselect unnecessary recording types. The more recording types you choose, the more storage capacity will be used.</li> <li>Alter the selected recording types. The Normal type uses more storage capacity than other recording types.</li> <li>Alter backup times, for example, from seven days a week to three days a week.</li> <li>Alter recording start time and recording end time to reduce same backup periods every day.</li> <li>Lower the backup speed. A higher backup speed uses more storage capacity than a lower backup speed.</li> </ul>



**Note:**

Both recording schedule and recording backup consume storage capacity. When storage capacity is used up, you may alter recording schedule to release storage capacity for recording backup; likewise, you may also alter recording backup schedule to release storage capacity for recording schedule.

## 7.1.9 Recording Status



**Note:** This function is not available to VMS-10A1.

### Statistics > Server > Recording

Search recording statistics by recording status and recording type. Export search results to a CSV file. You can switch the list to a pie chart and place the mouse pointer on the chart to view the number and percentage.

Channel Name	Device Name	Organization	Recording Type	Status	Diagnosis	Recording Spac	Stream Type	Frame Rate(fps)	Bit Rate(Kbps)	Resolution
206.2.7.102_V_1	206.2.7.102	IPC	Normal Recording	Recording...	Normal	324	Main	30	5146	1920x1080 (1080P)
206.2.7.104_V_1	206.2.7.104	IPC	Normal Recording	Recording...	Normal	329	Main	30	5104	1920x1080 (1080P)
206.2.7.114_V_1	206.2.7.114	IPC	Normal Recording	Recording...	Normal	323	Main	30	3926	1280x960 (960P)
206.2.7.113_V_1	206.2.7.113	IPC	Normal Recording	Recording...	Normal	163	Main	25	1966	1280x720 (720P)
206.2.7.112_V_1	206.2.7.112	IPC	Normal Recording	Recording...	Normal	328	Main	30	5139	1920x1080 (1080P)
206.2.7.111_V_1	206.2.7.111	IPC	Normal Recording	Recording...	Normal	328	Main	30	5238	1920x1080 (1080P)
IP Camera 03	206.2.7.4	GB	Normal Recording	Recording...	Normal	309	Main	25	5103	1920x1080 (1080P)
206.2.7.100_V_1	206.2.7.100	IPC	Normal Recording	Recording...	Normal	324	Main	30	5137	1920x1080 (1080P)
206.2.7.101_V_1	206.2.7.101	IPC	Normal Recording	Recording...	Normal	324	Main	30	4025	1920x1080 (1080P)

## 7.2 Device Statistics

### Device Status

#### Statistics > Device > Device

Choose the organization on the left-side organization tree. Search device statistics by device type or device status.

Click > on the left side of the device list to view the online/offline status of channels under a device.

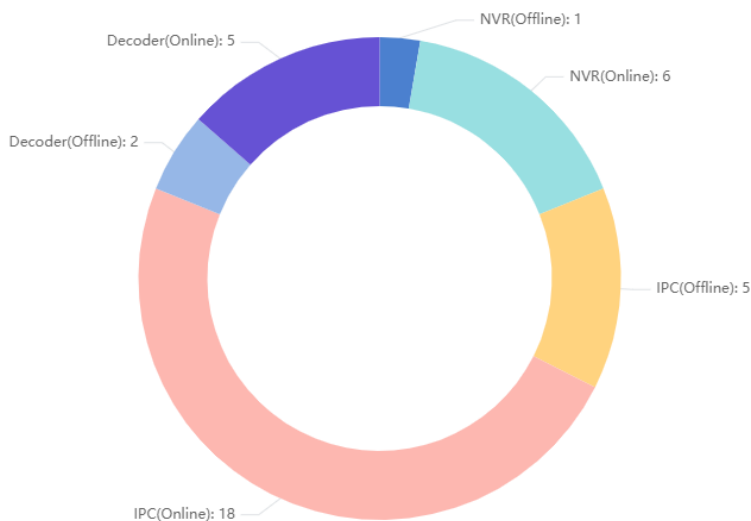
Export search results to a CSV file.

Device Type... NVR IPC Encoder Status: All Search Reset

Export Please enter keywords.

Device Name	Device Type	Organization Name	IP Address	Server	Manufacturer	Serial No.	Version	MAC Address	Disk Status	Status	Operation
> 192.168.2.104	NVR	root	192.168.2.104						Normal	<span>Online</span>	

You can switch the list to a pie chart and place the mouse pointer on the pie chart to view the number and percentage.



## Device Disk Status

### Statistics > Device > Device Disk Status

Choose the organization on the left-side organization tree. You can search a device by entering the device name in the top right corner.

Click > on the left side of the device list to view the online/offline status of a hard disk.

Click **Export Disk Info** to export information about online disks on the current page to a CSV file.

Organization Please enter keywords.

- root
- cloud
- hr

Export Disk Info Please enter keywords.

Device Name	Device Type	Organization	IP	Server	Manufacturer	Serial No.	Version	MAC Address	Disk Status	Status	Operation
> 192.168.2.107	NVR	root	192.168.2.107						Normal	<span>Online</span>	

## 7.3 Logs

Search and export alarm logs of the VMS and devices; search and export operation logs of the VMS.

### 7.3.1 Server Alarm Logs

#### Statistics > Log > Server Alarm Logs

Search, acknowledge or export alarm logs of the VMS server. You can switch the list to a diagram.

Time Period: 2022/02/15 00:00:00 - 2022/02/21 23:59:59 Today Last 3 days Last 7 days Custom

Alarm Type: All

Server: All

Status: All Alarm Level: Level 1 Level 2

Search Reset

Alarm Time	Alarm Source	Alarm Type	Alarm Level	Server	Operation	Acknowledged By	Acknowledged At	Remarks	Details
2022/02/17 23:40:25	VMS-设备-未识别	Network Disconnection Cleared	Level 5	VMS-设备-未识别					



**Note:**

The acknowledge operation is irreversible. The Acknowledged status cannot be revoked.

### 7.3.2 Device Alarm Logs

Statistics > Log > Device Alarm Logs

Search, acknowledge and export alarm logs of devices managed by the VMS.

Alarm Source: All Please enter keywords.

Time Period: 2024/03/27 00:00:00 - 2024/04/02 23:59:59 Today Last 3 days Last 7 days Custom

Server: All

Status: All Alarm Level: level 1 level 4

Search Reset

Alarm Time	Alarm Source	Alarm Type	Alarm Level	Server	Operation	Acknowledged By	Acknowledged At	Remarks	Details
2024/03/29 20:01:53	VMS-设备-144_V_1	Vehicle Recognition Not Match Alarm Cleared	Level 5	VMS-设备-144_V_1					
2024/03/29 20:01:53	VMS-设备-143_V_1	Vehicle Recognition Not Match Alarm Cleared	Level 5	VMS-设备-143_V_1					



**Note:**

- For **Alarm Source**, when selecting **All**, you can search for alarm sources by keywords (supports fuzzy matching); when selecting a specific type, you can specify the alarm source and select the alarm type.
- The acknowledge operation is irreversible. The acknowledged status cannot be revoked.

### 7.3.3 Operation Logs

Statistics > Log > Operation Logs

Search and export user operation logs.

User:

Service Type: All Operation Type: All

Time Period: Today 2021/03/25 00:00:00 - 2021/03/25 23:59:59

Export Reset Search

Time	User	IP Address	Main Type	Sub Type	Objective	Device	Organization	Result
2021/03/25 16:42:19	admin	192.169.1.101	Live View	User Stop Operation	192.168.4.239_V_1	192.168.4.239	root	Succeeded.
2021/03/25 16:42:18	admin	192.169.1.101	Live View	User Stop Operation	192.168.4.234_V_1	192.168.4.234	root	Succeeded.



**Note:**

For operation logs of playing live or recorded video on video wall, the objective is in this format: video wall name/screen number/window number. If video wall name/screen number/window number is followed by "-", the information following "-" indicates encoding channel/stream type by default (if not modified by user). For example, -203.130.1.35-1/0, where 203.130.1.35-1 indicates the 1st encoding channel of the encoding device with the IP address 203.130.1.35; 0: main stream (1: sub stream, 2: third stream).

## 8 Access Control

Manage access control devices, assign access permissions, and cards.

Use this function to achieve access control and personnel management by configuring door groups, time templates, and binding cards for persons to assign access permissions.

### 8.1 Permissions

Access Control > Permissions

Manage time templates, door groups and access permissions.

## 8.1.1 Time Template

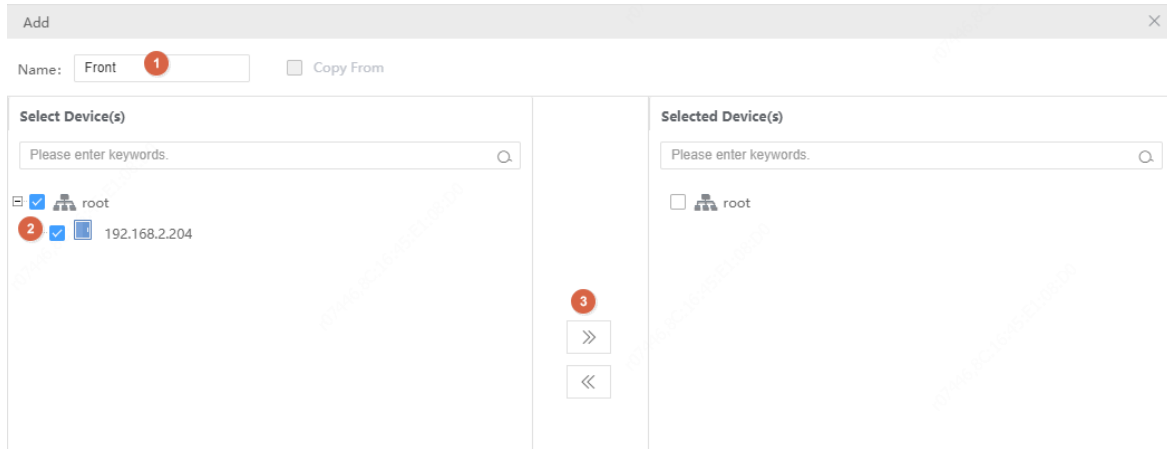
Use a time template to restrict access time. You will need to choose a time template when configuring access permissions.

All-day is the default template in the system which can be edited but cannot be deleted. Using this template means there are no restrictions on access time.

See [User Time Template](#) in User Management. The configuration steps are similar.

## 8.1.2 Door Group

A door group is a group of doors, which provides convenience when you assign access permissions. Doors must be added first at **Basic > Device**. See [Access Controller](#) and [Door Channel](#) for details.



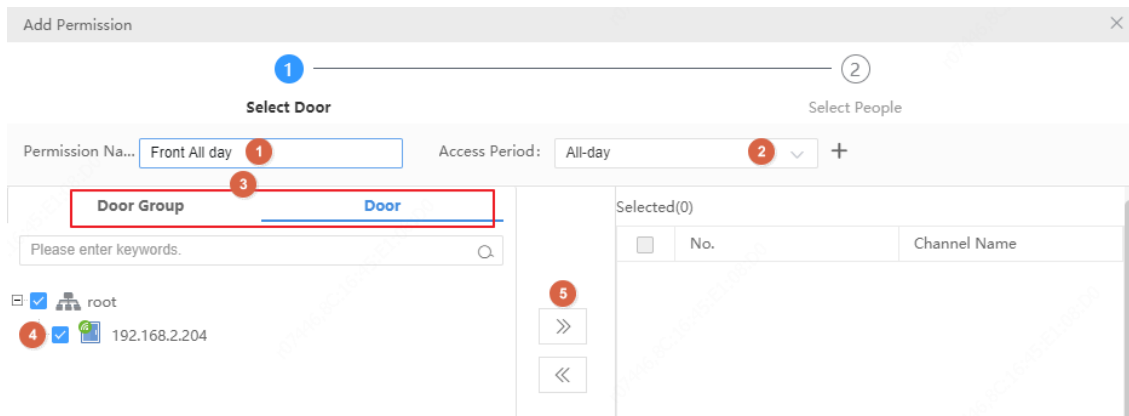
**Note:**

You can select **Copy From** and copy settings from an existing door group.

## 8.1.3 Assign Access Permission

Assign permissions so the specified persons have access to the specified doors during the specified time.

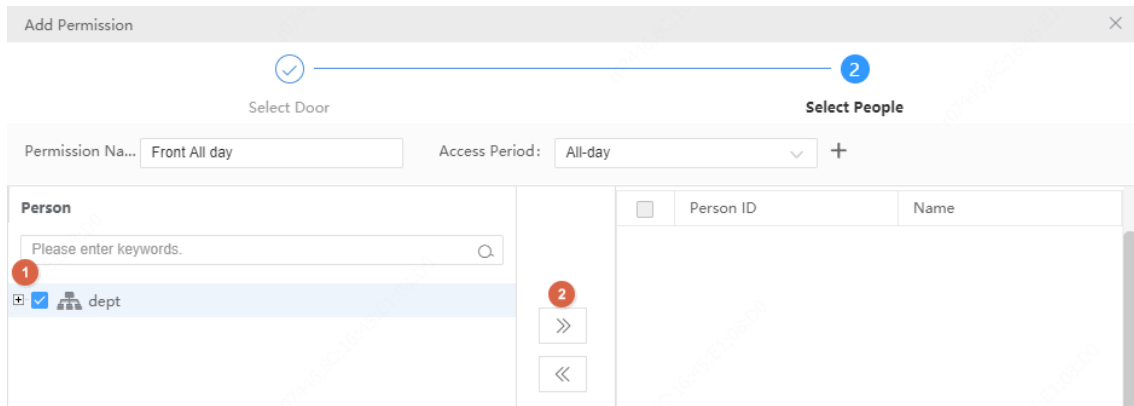
1. Select doors.




**Note:**

- Step 2: You can choose an existing time template or create a new one to restrict access time.
- Step 3: You can click the **Door Group** or **Door** tab and then select door group(s) or door(s) to grant access permission.

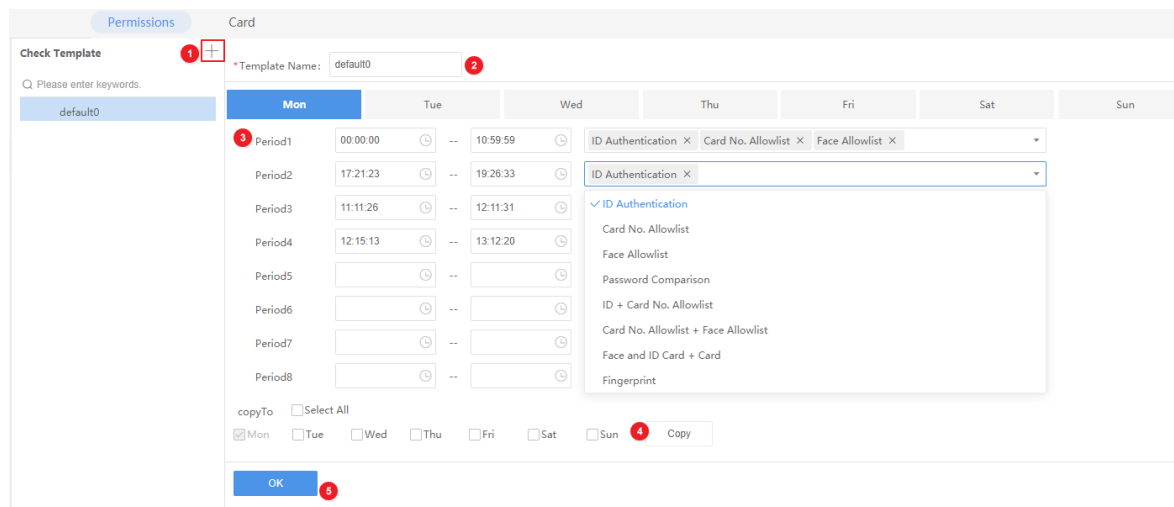
2. Select person(s) to assign permissions to.



3. Click **Save**.
4. Click  in the **Operation** column to check whether permissions are assigned successfully.

## 8.1.4 Check Template

The check template (verification template) is used to set different access control verification methods for different time periods. You can directly associate the check template with the door channel when configuring the channel.



1. Click **+** to add a new check template, or select an existing check template on the left and edit based on it.
2. Set the template name.
3. Set the verification time period(s) and verification method(s) for each day.
4. After completing settings for a day, you can select other days and click **Copy** to copy the settings to those days.
5. Click **OK**.

## 8.2 Card Management



### Access Control>Card

View cards of different status, report lost cards and activate suspended cards.

### Active card

### Access Control>Card>Active

Active cards are cards that are usable. You can change the valid period of an active card or report lost.

Report Lost										Please enter keywords.
<input type="checkbox"/>	No. ↕	Card Number	Card Status	Name	Gender	Person ID	Department	Phone Number	Operation	
<input type="checkbox"/>	1	005	Active	Ann	Male	005	dept			 

## Suspended card

### Access Control>Card>Suspended

Cards are suspended when they are reported lost. Suspended cards are unusable until being activated.

A suspended card can also be replaced by another card. A suspended card is cancelled when it is replaced.

No.	Card Number	Card Status	Name	Gender	Person ID	Department	Phone Number	Operation
1	008	Suspended	David	Male	008	dept		

## Blank card

### Access Control>Card>Blank

Blank cards are cards that are not assigned. Click **Add** or **Import** to add blank cards.

No.	Card Number	Card Type	Card Status	Operation
1	006	IC Card	Blank	
2	007	IC Card	Blank	

## Cancelled card

### Access Control>Card>Cancelled

A suspended card is cancelled when it is replaced by another card. Cancelled cards are unusable.

No.	Card Number	Card Status
1	008	Cancelled

# 9 Appendix

## 9.1 Customize Comprehensive Management Dashboard

Customize the comprehensive management dashboard including the data modules displayed and the dashboard layout.



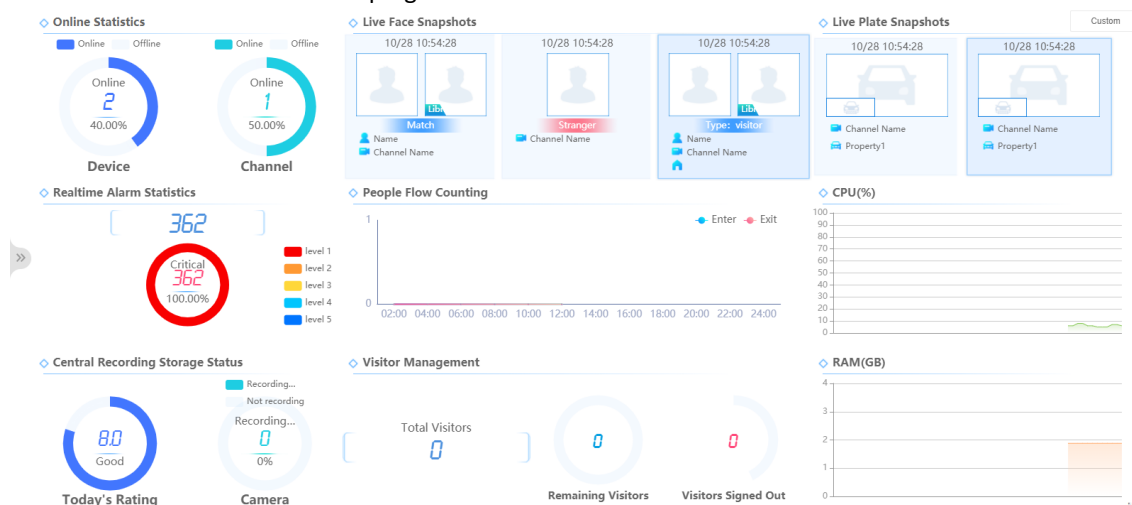
### Note:


The figure below is only an example. The actual data modules displayed may vary depending on your device model and firmware version.

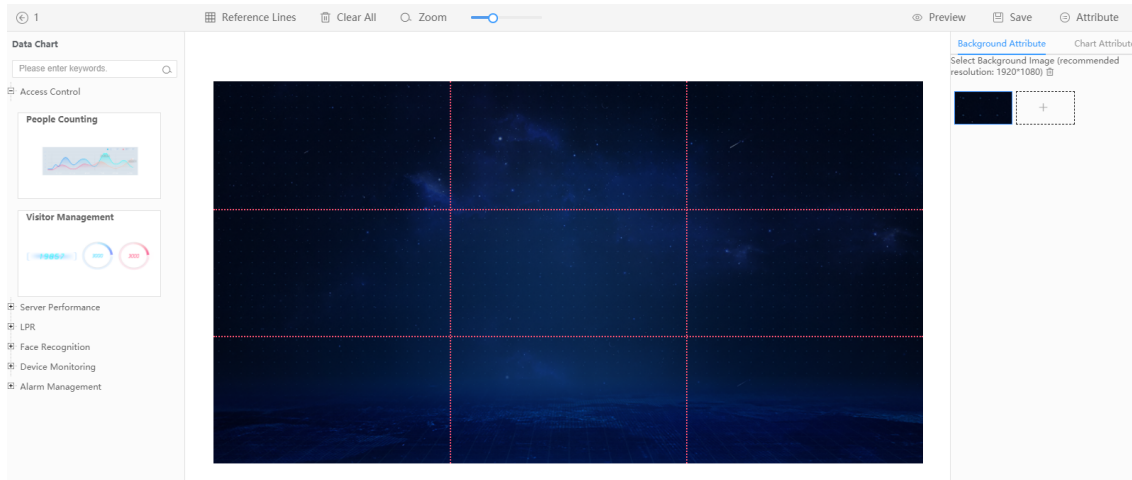
1.

Click the expand button ( ) on the right side on the home page.

2. Click the **Custom** button in the top right corner.

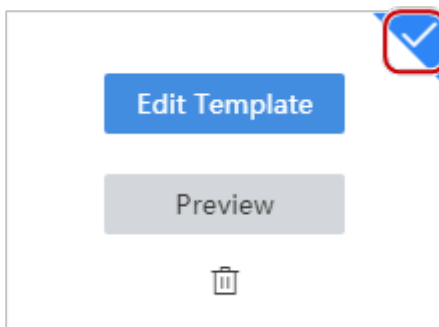


- Click  and then set the template name.
- In the **Data Chart** area on the left, click to expand the nodes and find the data modules you want to display, and then drag the data modules to the desired positions on the panel, for example, **Online Statistics**, **Central Recording Storage Status**, and **Realtime Alarm Statistics**.



Some buttons are described as follows:

- Reference Lines: Select or customize the red dotted lines on the panel.
  - Clear All: Click to remove all the data modules that are currently displayed on the panel.
  - Zoom: Drag the slider to adjust the display ratio.
  - Preview: Click to preview the customized dashboard.
  - Save: Click to save the settings.
  - Attribute: Set background attribute (background image) and chart attribute (whether to display chart title, such as Online Statistics).
- When you complete the settings, click **Save**.
  - To enable the template, move the mouse cursor onto the template and then click in the top right corner (blue background means that the template is enabled).



## 9.1.1 Data Chart

### Access control

- People counting: Count people coming and leaving in the current day. Hover your mouse over a line to view the corresponding data. The line chart refreshes every two hours.
- Visitor statistics: Count the total number of visitors and the currently present in the day.

### Server performance

- RAM usage: View the server's RAM usage. Statistics start to display when the dashboard opens, and statistics of up to the latest 180 seconds are displayed. Hover your mouse over the chart to view statistics.
- CPU usage: Refer to descriptions of RAM usage.

## License plate recognition (LPR)

View the captured license plates with relevant information including the capture time, captured image, and channel name.

## Face recognition

View face comparison information, including time, degree of match, face library image, captured image, name, and channel name.

## Device monitoring

- Online/offline status: View information about online/offline devices and channels. Hover your mouse over the pie chart to view the percentage and quantity. Click the device chart to view detailed device information at **Statistics > Device > Device Status**. Click the channel chart to view detailed channel information at **Device > Channel > Encoding Channel**.
- Central recording storage status: View channels' video recording status such as recording, not recording. Hover your mouse over a slice to view the percentage. Click the camera chart to view detailed recording information at **Statistics > Server > Recording**. The pie chart refreshes every 30 minutes.

## Alarm management

Different colors indicate different levels of alarms and the quantities. Hover your mouse over the pie chart to view the quantity and percentage. Click the pie chart to view detailed alarm information at **Statistics > Log > Device Alarm Logs**. The pie chart refreshes every minute.