DSS General Surveillance Management Center

User's Manual

V1.0.0

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

"Nice to have" recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:

● Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.

● These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

● Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.

● You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

7. Disable Auto-Login on DSS:

Those using DSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

8. Use a Different Username and Password for DSS:

In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a

different username and password for your security system will make it more difficult for someone to guess their way into your system.

9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:

● UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.

● If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

General

This user's manual (hereinafter referred to be "the Manual") introduces the initialization and operations of the DSS general surveillance management center (hereinafter referred to be "the Device" or "the System").

Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

Signal Words	Meaning
⚠ DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
⚠ CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
⚡ TIPS	Provides methods to help you solve a problem or save you time.
📖 NOTE	Provides additional information as the emphasis and supplement to the text.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

Revision History

No.	Version	Revision Content	Release Time
1	V1.0.0	First Release.	August 2018

About the Manual

The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.

We are not liable for any loss caused by the operations that do not comply with the Manual.

The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.

All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.

There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.

Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.

All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.

Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.

If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

This Chapter describes the contents covering proper handling of the Device, hazard prevention, and prevention of property damage. Read these contents carefully before using the Device, comply with them when using, and keep it well for future reference.

Operation Requirement

- Do not place or install the Device in a place exposed to sunlight or near the heat source.

- Keep the Device away from dampness, dust or soot.

- Keep the Device installed horizontally on the stable place to prevent it from falling.

- Do not drop or splash liquid onto the Device, and make sure there is no object filled with liquid on the Device to prevent liquid from flowing into the Device.

- Install the Device in a well-ventilated place, and do not block the ventilation of the Device.

- Operate the device within the rated range of power input and output.

- Do not dissemble the Device.

- Transport, use and store the Device under the allowed humidity and temperature conditions.

Electrical Safety

- Improper battery use might result in fire, explosion, or inflammation.

- When replacing battery, make sure the same model is used.

- Use the recommended power cables in the region and conform to the rated power specification.

- Use the power adapter provided with the Device; otherwise, it might result in people injury and device damage.

- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited power Source requirement according to IEC60950-1. Please note that the power supply requirement is subject to the device label.

- Connect the device (I-type structure) to the power socket with protective earthing.

- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.

Table of Contents

1 Overview

General Introduction

The product is positioned as a lightweight application for small and medium-sized projects, it can be applied to simple, easy to use and reliable VMS for single-service deployment, provides basic video monitoring services required for small and medium-sized projects, it also provides solutions for organizations that need integrated access control and VDP devices., which can be widely used in residential areas, supermarkets, factories and casinos.

Product Highlights

- Supports GPU decoding, supports preview of several HD cameras at the same time.
- Interface adopts vector graphic design and supports 4K display perfectly.
- The administrator and the operator use the client operation uniformly, realize stronger control experience.
- Supports LAN cross-network segment device automatic search and display device list, one-click add management, effectively save deployment time.
- Supports auto add manual backup database. It can be quickly restored when system abnormity occurs.
- Supports video locking, for important video footage, it can be kept forever and will not be overwritten due to storage space.

2 System Initialization

The DSS general surveillance management center has built-in Windows OS. It has installed server and client when it is shipped out of the factory. Connect a monitor to the server and then modify server IP after it boots up, then go to the DSS Server to modify service IP, finally use default account (user name is **system**, password is **123456**) to initialize the client.

2.1 Configuring Server IP

⚠️

When the system first boots up, it can autmatically get a server IP by default. The IP address may not be fixed. You need to set a fixed IP address for the server.

Step 1   Use 1000Mbps network cable to connect the server and the switch.

Step 2   Connect a monitor to the server and then boot up the server.

Step 3   Click Start and then select Network Connections. See Figure 2-1.
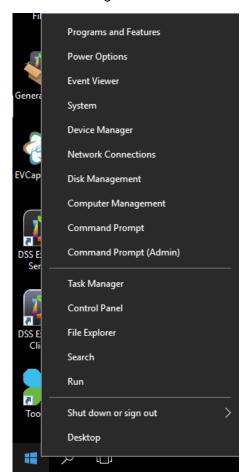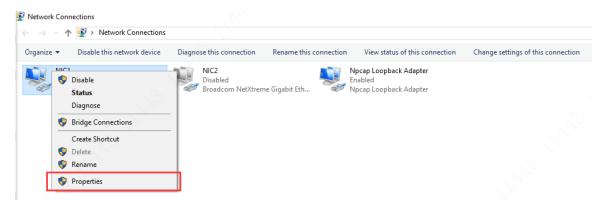
Figure 2-1

Step 4   On the pop-up interface, select a network internet card (NIC, or so called network adapter), right click Properties. See Figure 2-2.

Figure 2-2

Step 5 In pop-up interface (Figure 2-3), select the the IP V4 address of the corresponding NIC. See See Figure 2-4.
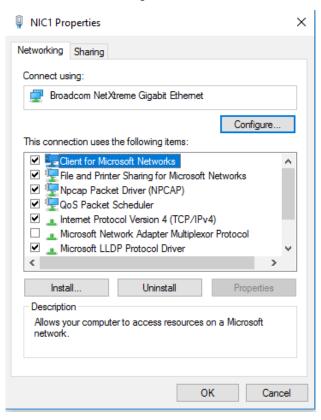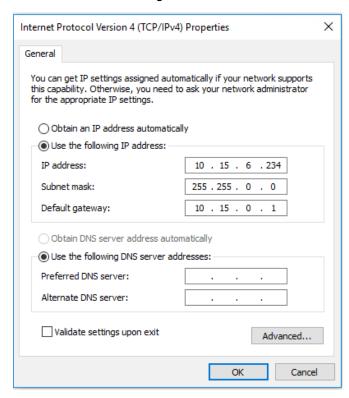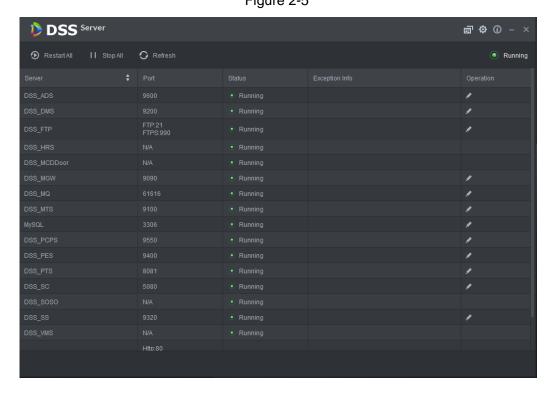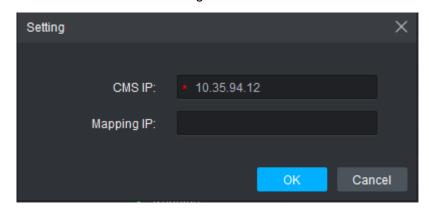
Figure 2-3

Figure 2-4

2.2 Configuring Service IP Address

Step 1 Double click on the desktop of the Windows OS.

The server configuration interface is displayed. See Figure 2-5.
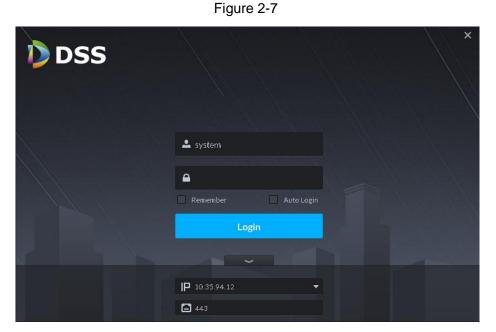
Figure 2-5

Step 2 Click ![settings icon].

The network setting interface di displayed. See Figure 2-6.

Figure 2-6

Step 3 Enter server IP address. It is the fixed IP address of the OS.
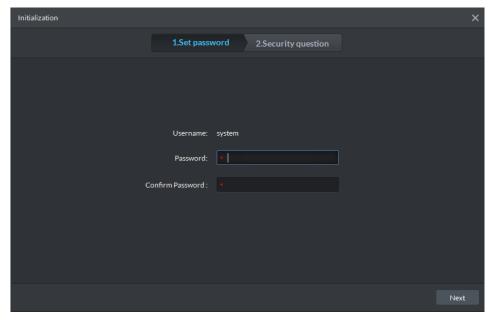
Step 4 Click OK to complete the settings.

2.3 Logging in and Initializing Client

Step 1 Double click the icon ![DSS icon] on the desktop of the Windows OS.

The login interface of the client is displayed. See Figure 2-7.
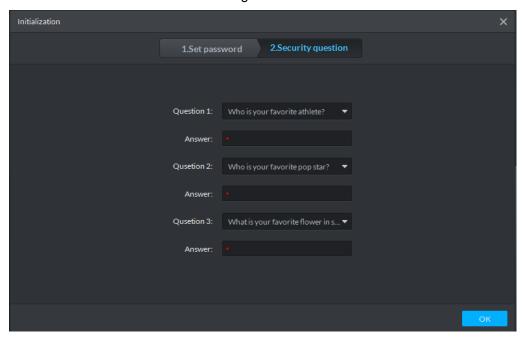
Figure 2-7

Step 2 Input default user name and password (user name is **system**, password is **123456**),
server IP address, WEB service port (Default value is 443). Click Login.

The password initialization interface is displayed. See Figure 2-8.

Figure 2-8

Step 3 Input new user password and then confirm. Click Next.

The password security interface is displayed. See Figure 2-9.

Figure 2-9

Step 4 Select three questions and then set corresponding answers. Click OK to enter the client homepage.

3 DSS Client Operations

The server has installed the client. You can set client parameters and realize various operations. Or you can install client on other PC to configure or operate.

3.1 PC Configuration Requirements

Please refer to Table 3-1 for PC config of client installation.

Table 3-1

DSS Client PC Config Requirements	
Recommended Config	CPU: i5-6500 Dominant frequency: 3.20GHz Memory: 8GB VGA card: Intel® HD Graphics 530 Network card: 1Gbps DSS client installation directory space: 100GB
Min. Config	CPU: i3-2120 Memory: 4GB VGA card: Intel（R）Sandbridge Desktop Gra Network card: 1Gbps DSS client installation directory space: 50GB

3.2 Download and Install Client

Step 1　Input "DSS Platform IP Address" into the browser, press Enter button.
The interface of downloading client is displayed. See Figure 3-1.
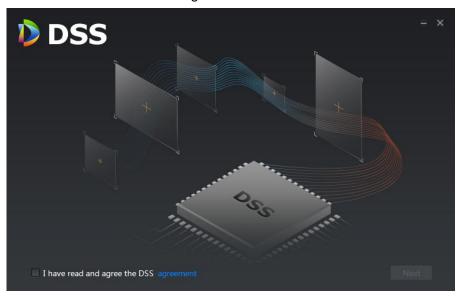
Figure 3-1

Step 2 Click [Client] to download installation package.
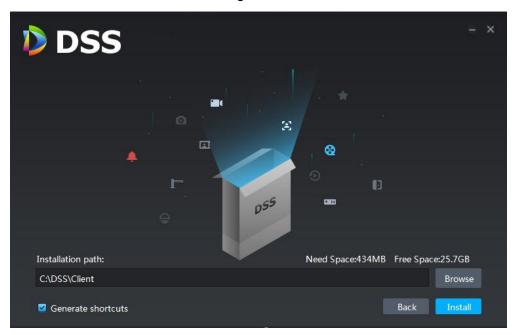
The client installation package is
"General_DSS_Client_x64_V1.000.0000000.0.R.20180724".

Step 3 Double click installation package to enter installation mode. See Figure 3-2.

Figure 3-2

Step 4 Select "I have read and agree the DSS agreement", click "Next".

The interface of installation path is displayed. See Figure 3-3.

Figure 3-3

Step 5 Click "Browse", select installation path, click "Install" to start installation.

The interface of installation progress is displayed. See Figure 3-4. The running interface is displayed after installation is completed. See Figure 3-5. Click "Run" if you need to enter client and click the close icon on the upper right corner if it is unnecessary.

- The system default installation path is C:\DSS\Client。
- Please select "Add Desktop Shortcut" if it needs to create shortcut mode on the desktop, it is selected by default.
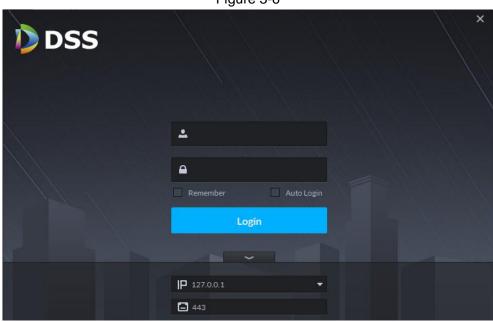
Figure 3-4

Figure 3-5

3.3 Log in Client

Step 1 Click "Run" when installation is completed, or double click [icon] icon on the desktop of the Windows OS.

The login interface is displayed. See Figure 3-6.

Figure 3-6

Step 2 Enter user name, password, platform IP address and WEB service port number, click "Login" to enter client interface.

- The default user name is system, default password is 123456, it needs to initialize and modify user password for the first login.
- WEB service port number is 443 by default.

- After selecting "Remember Password", it does not need to enter password when you open the client next time.
- After selecting "Auto Login", it will log in client automatically when you open client next time.

3.4 Initializing Client

It needs to initialize password and set security question when it is your first time to log in client. Refer to chapter 2 System initialization for detailed information.

3.5 Home Page

The home page of DSS client is displayed. See Figure 3-7. Please refer to Table 3-2 for more details of each module.
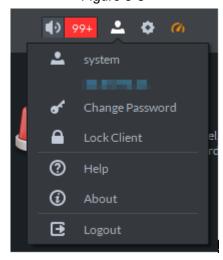
Figure 3-7
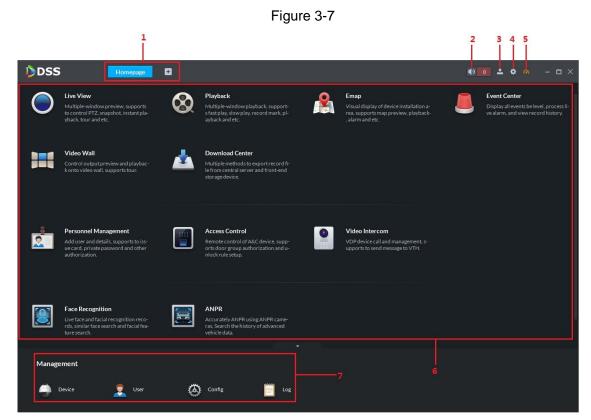
Table 3-2

SN	Name	Note
1	Function Tab	It displays "Homepage" tab and ⊞ in the default status. The "Homepage" tab will be hidden when you enter other function interface, at this moment you can click ⊞ to display "Homepage" tab and enter homepage interface.
2	Alarm	• 🔊: The switch of event alarm prompt tone, the prompt tone is enabled by default, click the icon and it switches to 🔇, and then

SN	Name	Note
		the prompt tone is disabled. ● ▢ 0 : Number of alarm, when the number is not zero, you can click and quickly enter the event center interface to check alarm information.
3	User Info	Click the icon 📇 and the interface will be display in Figure 3-8. ● Display the system login user name and platform IP address. ● Click "Modify Password", enter "Old Password", "New Password" and "Confirm Password", click "OK" to modify current login password. ● Click "Lock Client", enter user password and it can lock the current client. ● Click "Help" to open help document. ● Click "About" to check the client version info and release data. ● Click "Logout", it will return to client login interface after it is confirmed.
4	Config	Click the icon and it can realize the local setting functions such as general, video, playback, snapshot setup, record, alarm and shortcut key. Please refer to chapter 3.6 Local Config for more details.
5	System Status	Click the icon and you can check the application status of server network, CPU and RAM.
6	Function	It displays live view, playback, Emap, event center, video wall, download center, personnel management, access control and video intercom etc., click to enter the operation interface of corresponding function.
7	Management	It displays the device management, user management, config management and log management, click to enter the specific management interface. Click the arrow above to conceal the area. 📖 General users do not have the operation authority of management area.

Figure 3-8

3.6 Local Config

⚠

The parameters of local config are in one interface, you can directly set other parameters; click "Save" after all the settings are completed.
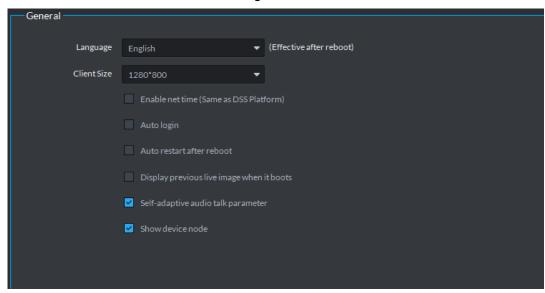
3.6.1 General

It is to set the client language, client size, timing, auto restart, self-adaptive and display device node etc.

Step 1   Select "⚙ > General" on the upper right corner of the client.

The interface of "General" is displayed. See Figure 3-9.

Figure 3-9

Step 2   Sets relevant parameters, please refer to Table 3-3 for more details.

Table 3-3

Parameters	Note
Language	It supports simplified Chinese and English, it needs to reboot the client after modification and make it valid.
Client Size	Selects client display resolution, supports 960×680、1024×768、1280×800、1280×1024、1440×900 and 1680×1050.
Enable timing (in accordance with server time)	After it is selected, the time between the platform server and the client can be calibrated when the system is timed or immediately calibrated
Auto Login	After selected, open client and the system will be automatically logged in with the last user.
Auto Restart after Reboot	After selected, the client login interface will be opened automatically after PC starts, 📖

	You will enter the client interface directly if you also select "Auto Login".
Display previous live image when it starts	After selected, the window status of preview video is recorded at that time when the software is closed. When you log in again and open the preview interface, video will be restored before closing.
Self-adaptive audio talk parameter	After selected, when the channel intercom is opened, no popup box is needed and each parameter value is automatically adjusted.
Display device node	After selected, the device node will be displayed in the device organization tree of the real-time preview interface, otherwise the included channel will be displayed directly under the organization node.

Step 3 Click "Save" to complete settings.
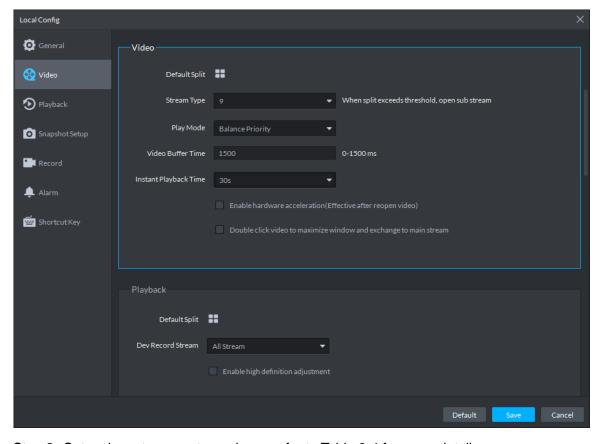
3.6.2 Video

It is to set the parameters of client video split, stream type, play mode, video buffer time, instant playback time, enable hardware acceleration and double click video to maximize window and switch main stream.

Step 1 Select " > video" on the upper right corner of the client.

The interface of "Video" is displayed. See Figure 3-10.

Figure 3-10

Step 2 Sets relevant parameters, please refer to Table 3-4 for more details.

Table 3-4

Parameter	Note
Default Split	Click split icon, and select window default split of the real-time live image.
Stream Type	Selects stream type, supports 1, 4, 6, 8, 9, 13, 16, 20, 25 and 36. When number of split is bigger than the stream type, open video preview, video stream will be automatically switched to sub stream.
Play Mode	Sets the video play mode, it supports balance priority, real-time priority, fluency priority and customize.
Video Buffer Time	The buffer time when the video is opened, it is 1500s by default.
Instant Playback Time	It is the time of instant video playback on the preview interface.
Enable hardware acceleration (Effective after reopen video)	Enable hardware acceleration function, it needs to reopen the video and make it valid.
Double click video to maximize window and exchange to main stream	After selected, it will switch to max when double click the video window, it will be automatically switched to main stream.

Step 3 Click "Save" to complete setting.
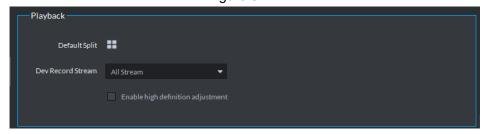
3.6.3 Playback

It is to set the default split and DVR stream type on the playback interface.

Step 1 Select " > Playback" on the upper right corner of the client.

The interface of "Playback" is displayed. See Figure 3-11.

Figure 3-11

Step 2 Sets relevant parameters, please refer to Table 3-5.

Table 3-5

Parameter	Note
Default split	Click split icon and select the default split of playback interface.
DVR stream type	Selects the stream type of playback, supports all stream, main stream and sub stream.
Enable HD Adjustment	After selected, it will adopt HD network frame extraction for playback.

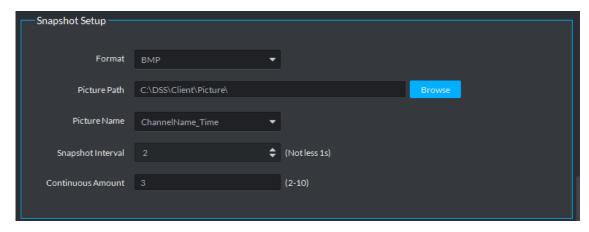Step 3 Click "Save" to complete setting.

3.6.4 Snapshot

It is to set the picture format, path, name and snapshot mode etc.

Step 1 Select " ![gear icon] > Snapshot" on the upper right corner of client.

The interface of "Snapshot" is displayed. See Figure 3-12.

Figure 3-12

Step 2 Sets relevant parameters, please refer to Table 3-6 for more details.

Table 3-6

Parameter	Note
Format	It is to set the picture format, supports BMP and JPEG.
Picture Path	Click "Browse" to set picture path.
Picture Name	It is to set the name when the picture is saved; it supports channel name_time, channel number_time, time_channel name, time_channel number.
Snapshot Interval	It is to set the interval between each picture when setting taking several snapshots continuously.
Continuous Amount	It is to set the continuous amount.

Step 3 Click "Save" to complete setting.
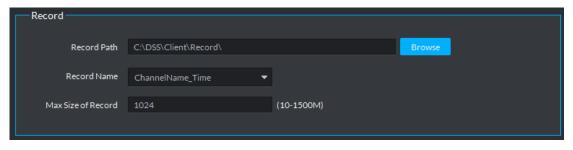
3.6.5 Record

It is to set record path, name and size.

Step 1 Select " ![gear icon] > Record" on the upper right corner of client.

The "Record" interface is displayed. See Figure 3-13.

Figure 3-13

<u>Step 2</u> Set relevant parameters; please refer to Table 3-7 for more details.

Table 3-7

Parameter	Note
Record Path	Click "Browse" to set the record path.
Record Name	It is to set name rule when it is saved, supports channel name_time, channel number_time, time_channel name, time_channel number.
Record Size	It is to set the size of each record file.

<u>Step 3</u> Click "Save" to complete setting.
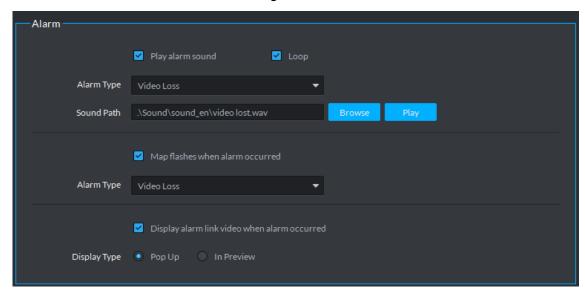
3.6.6 Alarm

It is to set alarm play mode, audio file path, alarm type and display type etc.

<u>Step 1</u> Select "⚙ > Alarm".

The "Alarm" interface will be displayed. See Figure 3-14.

Figure 3-14

<u>Step 2</u> It is to set relevant parameters, please refer to Table 3-8 for more details.

Table 3-8

Parameter	Note
Play Alarm Sound	After selecting "Play Alarm Sound", it means that it will play alarm sound when alarm occurs, at this moment, you can set if it is loop, alarm type and audio file.
Loop	
Alarm Type	
Sound Path	📖 The play alarm sound here is synchronized with the alarm tone switch in the upper corner of the client.
Map flashes when alarm occurs	After selecting "Map flashes when alarm occurs" and setting alarm type, the alarm device will flash on the map when alarm like this occurs.
Alarm Type	
Display alarm link video	After selecting "Display alarm link video" and setting video display type, it will display device relevant video via the selected mode when alarm occurs.

Video Display Type

Step 3   Click "Save" to complete setting.

3.6.7 Shortcut Key

Select " ⚙ > Shortcut Key" on the upper right corner of client, the "Shortcut Key" interface is displayed. See Figure 3-15. It can check the corresponding shortcut keys provided by system.
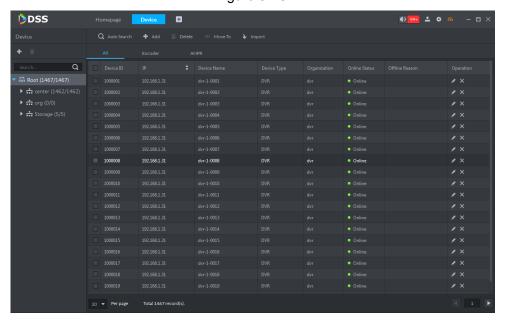
Figure 3-15

3.7 Device Management

It is used to add access control, encoder, decoder, video wall, ANPR, matrix and so on, it supports manual add and auto add.

In the management area, click [Device] to enter device management interface. See Figure 3-16. It means the device is online when the status is green while it is offline when the status is red.

Figure 3-16
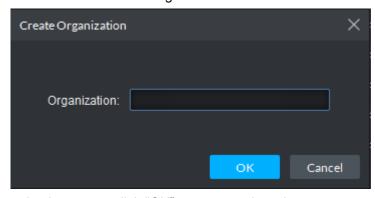
3.7.1 Creating Organization Tree

The device organization tree area is on the left of device management interface, it can add
and delete organization node or search device or node.

Step 1   Select node on the device management interface, click ➕

The interface of "Create Organization" is displayed. See Figure 3-17.

Figure 3-17

Step 2   Enter organization name, click "OK" to create sub node.

● Select node, click 🗑 to delete selected node and sub node. It cannot be
   deleted if there is node in the device.

● Enter content in the text box, click 🔍 to search the device or node which is
   related to the content.
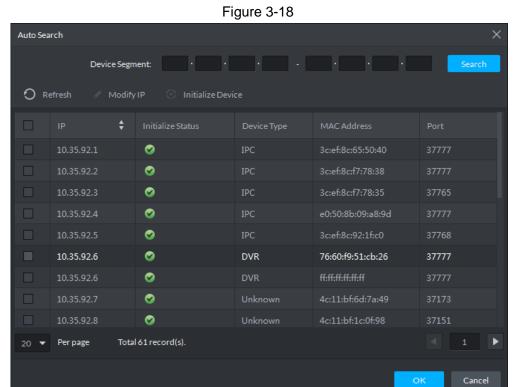
3.7.2 Search and Add Device

It is recommended to add the device by searching if you need to add the device in batches and the device is in the same network segment, or if you only get the network segment where the device is located but the exact IP is unknown.

Step 1 Click "Auto Search" in the device management interface.
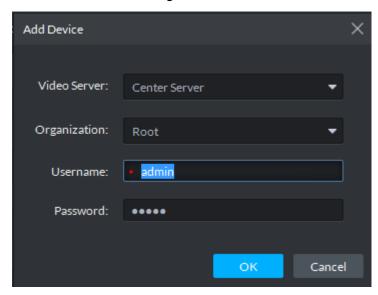
The "Auto Search" interface is displayed. See Figure 3-18.

📖

- Click "Refresh" to update the device info. It can enter device segment if there are too many updated devices, click "Search" to filter the devices in the exact segment.
- Select device, click "Modify IP" to modify the device IP address, please refer to Chapter 3.7.8 Modify IP Address for more details.
- Select the uninitialized device, click "Initialize Device" to initialize the device, please refer to Chapter 3.7.9 Initializing Device for more details.

Figure 3-18

Step 2 Select the devices which need to be added, click "Add". The "Add Device" interface is displayed. See Figure 3-19.

Figure 3-19

Step 3 Enter device "username" and "Password", click "OK".

- Please make sure the username and password of all the added devices are the same if the devices are added in batches.
- After devices are added, the system will continue to stay in the interface of "Auto Search", you can continue to add devices or click "Cancel" to exit the "Auto Search" interface.
- After the device is added, the platform automatically logs in the device, it will display "Online" if it logs in successfully otherwise it is "Offline". Online devices can edit, delete and configure device.

3.7.3 Add All Devices

You can add devices via manual adding if you have acquired device info.

Step 1 Click "Add" in the device management interface.

The "Add All Devices" interface is displayed. See Figure 3-20,Figure 3-21, Figure 3-22, Figure 3-23, Figure 3-24 and Figure 3-25.

Figure 3-20

Figure 3-21

Figure 3-22
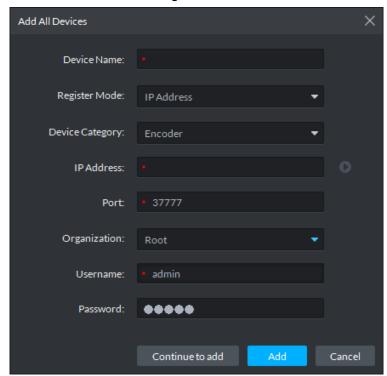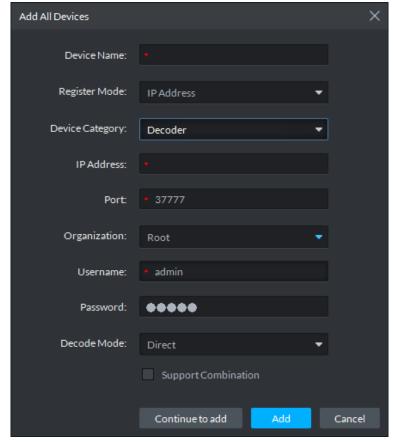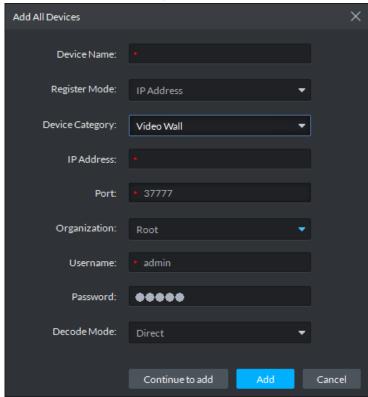
Figure 3-23
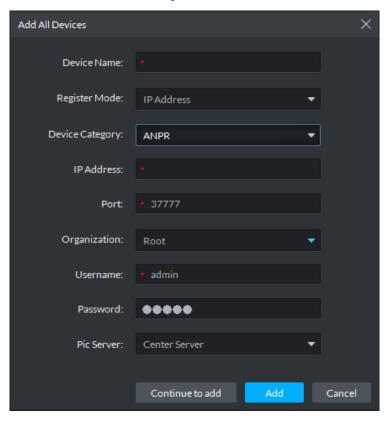
Figure 3-24
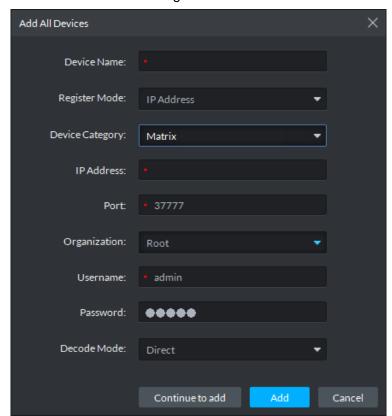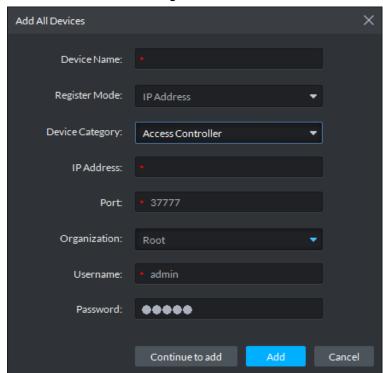
Figure 3-25

Step 2 It is to set parameters, please refer to Table 3-9 for more details.

- It has to fill in the item with *, it needs to set different parameters according to different access devices.

- Click [▶] after device info setting is completed, preview the device video. See Figure 3-26.

Table 3-9

Parameter	Note
Device Name	Custom. It is only used to recognize.
Register Mode	Supports IP address and serial number. 📖 System supports two registration modes: IP and ONVIF .
Device Category	Select according to the added device.
IP Address	Enter device IP address.
Port	The port that TCP protocol communication provides service, it can be set according to the users' requirements, it is 37777 by default.
Organization	Select the organization node of the device.
Username/ Password	Enter username and password to log in device.
Decode Mode	Select decode mode according to the access device. ● Pull: decoder acquires stream from platform via URL address, the decode mode of the device is pulling stream. ● Direct: Decoder acquires stream from front-end coding device directly, the decode mode of device end is direct. In this mode, it needs to add the decoder IP when adding white list. ● Push: VMS pushes stream directly to decoder; currently it only supports NVD without fusion screen. Matrix, video wall and NVD with fusion mode fail to support push mode.
Support Fusion	If it is to support fusion function select according to access device.
Picture Server	Select picture server.

Figure 3-26

Step 3 Click "Add" to complete adding devices.

Please click "Continue to add" if it needs to add other devices continuously, add other devices in turn.
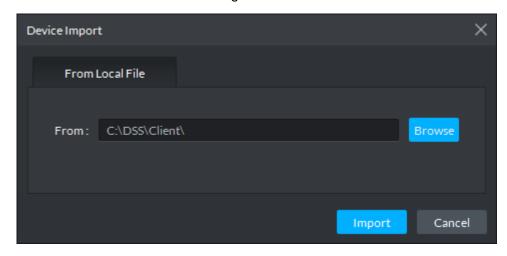
3.7.4 Import Device

The system supports importing device info from local file.

Step 1 Click "Import" in the device management interface.

The "Device Import" interface is displayed. See Figure 3-27.

Figure 3-27

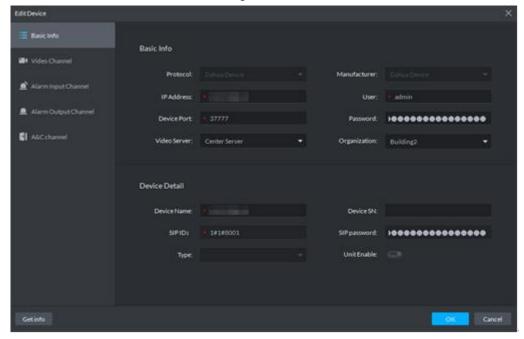Step 2 Click "Browse", select device info file, click "import".

3.7.5 Edit Device

It is used to modify the device info in the list.

Step 1 Click ✎ in the device info line on the "Device Management" interface.

The "Edit device" interface is displayed. See Figure 3-28. According to user requirement, it can modify device IP address, username, password, device port, organization, device name and type etc.
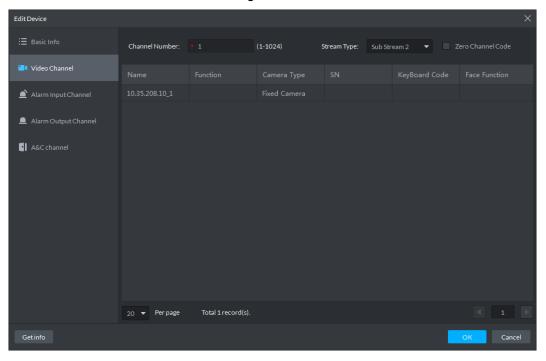
Figure 3-28

Step 2 Click "Video Channel" on the left.

The "Video Channel" interface is displayed. See Figure 3-29. It is to modify the device channel number, stream type of the access platform.
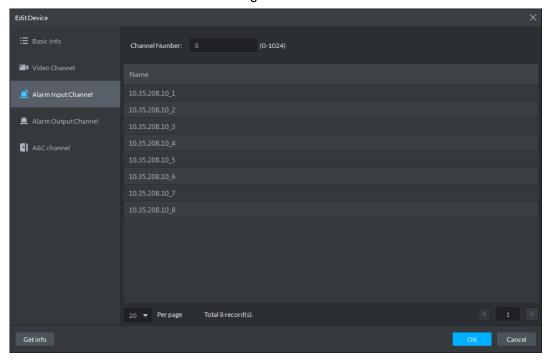
Figure 3-29

Step 3 Click the "Alarm Input Channel" on the left.

The "Alarm Input Channel" is displayed. See Figure 3-30. It is to modify the alarm input channel number of the access platform.
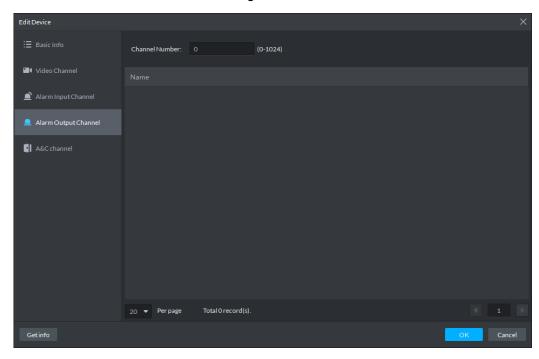
Figure 3-30

Step 4 Click the "Alarm Output Channel" on the left.

The "Alarm Output Channel" is displayed. See Figure 3-31. It is to modify the alarm output channel number of the access platform.

Figure 3-31

Step 5 Click "OK" to complete modification.

3.7.6 Delete Device

It can delete device individually or in batches.
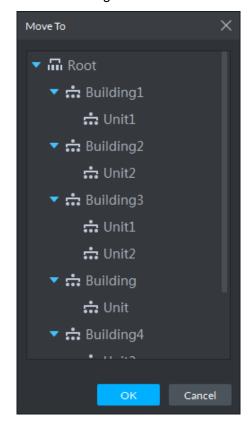
Click [icon] in the device info line on the "Device Management" interface, and delete device individually; or you can select several devices, click "Delete" to delete devices in batches.

3.7.7 Move Device

You can move the devices to other organization nodes.

Select the devices you need to move on the "Management" interface, click "Move To". See Figure 3-32. Select organization node, click "Ok" to complete moving the device.

Figure 3-32

3.7.8 Modify IP Address

It can modify device IP address via auto search interface.
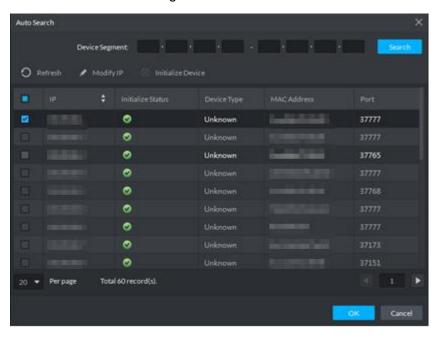
Step 1 Click "Auto Search" in the "Management" interface.

The system will pop out the dialog box of "Auto Search".

Step 2 Sets device segment, click "Search".

The system will display search result. See Figure 3-33.

Figure 3-33
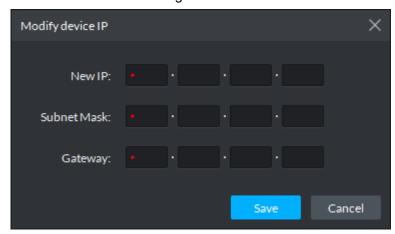
Step 3 Select the device whose IP address needs to be modified, click "Modify IP".

The system will pop out the dialog box of "Modify Device IP".

Step 4 Modify device IP info and click "OK".
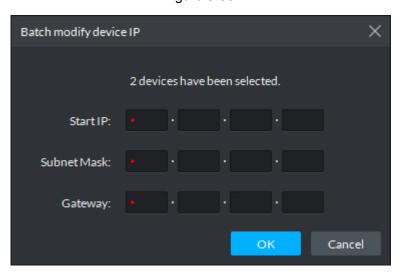
● When selecting one device, the system will pop out the dialog box of "Modify Device IP". See Figure 3-34.

Figure 3-34

● When selecting several devices, the system pops out the dialog box of "Batch Modify Device IP". See Figure 3-35.

Figure 3-35

Step 5 Set the new IP address or start IP, subnet mask and gateway.

Step 6 Click "OK" to complete IP address modification.

3.7.9 Initializing Device

If the device is not initialized, you can initialize the device on the "Auto Search" interface.

Step 1 Click "Auto Search" on the device management interface.

The "Auto Search" interface is displayed.
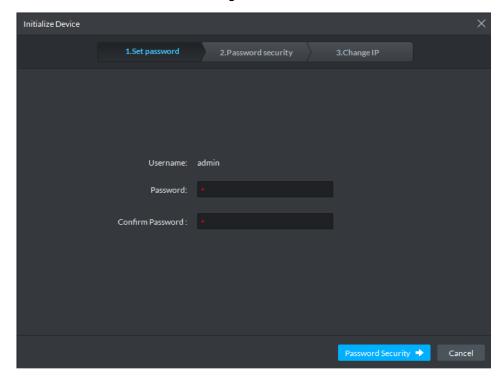
Step 2 Select the uninitialized device, click "Initialize Device".

The "Set Password" interface is displayed. See Figure 3-36.
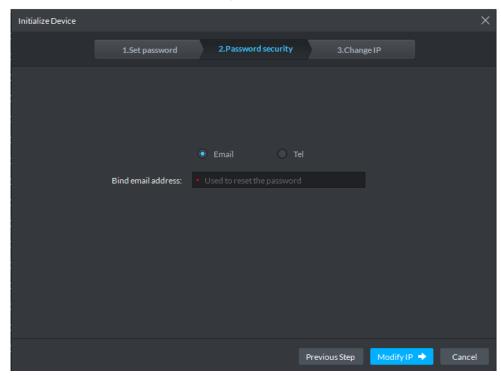
If you select several devices to initialize together, then the passwords for those devices will be set as the same.

Figure 3-36
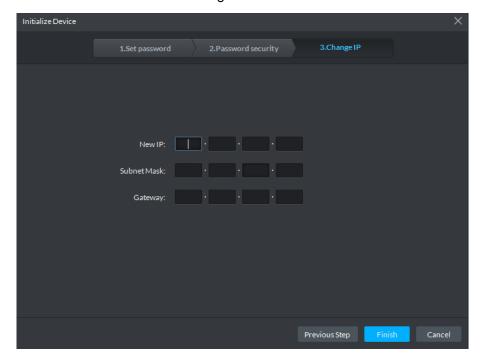
Step 3 Enter password, click "Password Security".

The "Password Security" interface is displayed. See Figure 3-37.

Figure 3-37

Step 4 Select email or phone, enter corresponding email address or phone number, click "Modify IP". The "Modify IP" interface is displayed. See Figure 3-38.

Email or phone number is used to reset password when you forget password, please make sure it is correct and remember it.

Figure 3-38

Step 5 Enter the new "IP Address", "Subnet Mask" and "Gateway", click "Finish" to complete initialization.

3.8 User

It is used to manage login user of client, it can realize the operation of adding user, modifying user, deleting user and setting user permission etc.

The system provides 3 types of users, which are admin, advanced user and general user. Different type of user has different permissions; each type of user can make adjustment over permission within certain range.
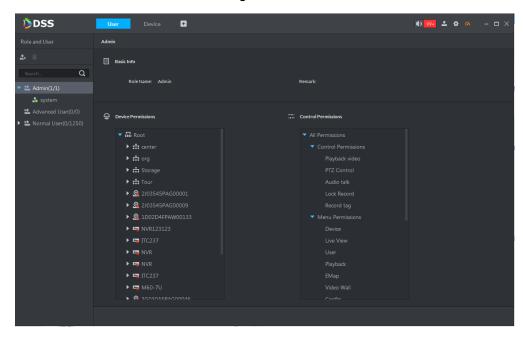
- Admin: Owns all control permissions.
- Advanced user: Owns all the permissions excluding system config.
- General user: Owns some other permission excluding device management, user management, system config, config management, video wall config, Emap config and log management etc.

In management area, click ![User] to enter user management interface. See Figure 3-39.

Figure 3-39
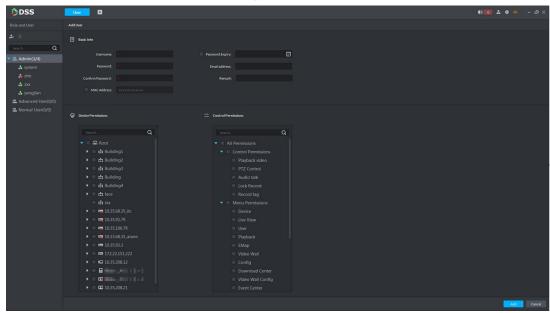
3.8.1 Adding User

Step 1 Select user type on the left of the list, click the [icon] above.

The interface of adding user is displayed on the right. See Figure 3-40.

Figure 3-40

Step 2 Sets user info, please refer to Table 3-10 for more details.

Table 3-10

Parameter	Note
Username	Enter username, only Chinese character, letter, number and symbol (-、_、,、;、#、()、（）、[]、+、＋ and blank) are allowed.
Password	Enter user password and confirm password, supports strong password.

Parameter	Note
Confirm Password	
MAC Address	Select "MAC Address", enter MAC address of PC, it needs to verify the MAC address of PC when users log in.
Password Expiry	Select "Password Expiry", click ⊞, select date, and then the user can be used during the validity period.
Email Address	Enter email address.
Remark	Enter remark info.

Step 3 Select the device that can be used by users in device permission.

Step 4 Select the permission that the user owns in control permission.

It can select different permission with different user type.

Step 5 Click "Add" to add user.

After it is added, click the user under the user type on the left, it will display user basic info, device permission and control permission on the right. See Figure 3-41.
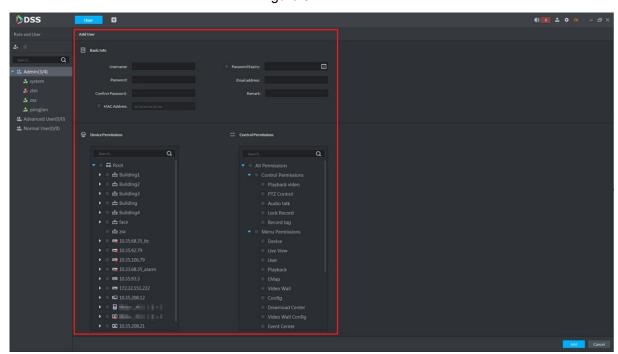
Figure 3-41

3.8.2 Modify User Info

It can only modify user basic info and permission but not the the category to which the user belongs. It needs to delete and add again if it needs to modify user type.

Step 1 Select user on the left list, click ✎.
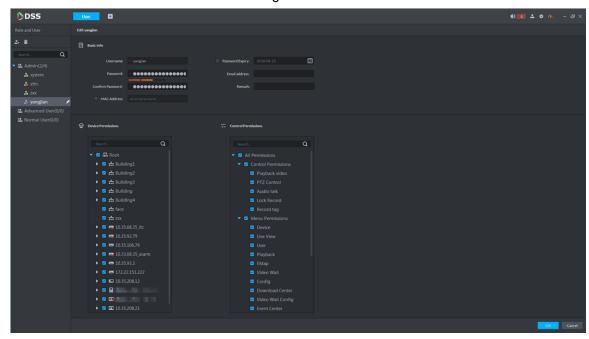
The interface of "Edit User Info" is displayed on the right. See Figure 3-42.

If there are too many users, which is not convenient to search, so you can enter username keyword in the search box and click 🔍 to search.

Figure 3-42

Step 2 Modify use info, device permission and control permission.
Step 3 Click "OK" to complete modification.

3.8.3 Delete Use

⚠

System user cannot be deleted.

Select users on the left list, click the ▢above and it can be deleted after it is confirmed.

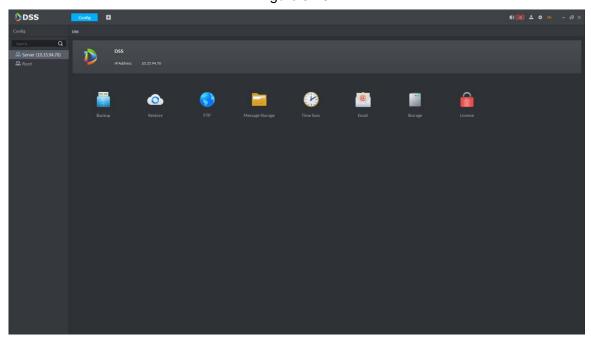## 3.9 Config

3.9.1 Configuring Server

It is used to backup and restore server data, set server FTP, message storage, time sync, Email, storage and license etc.

Click ⚙ Config in the homepage management area, the interface of "Config Management" is displayed. See Figure 3-43. Server node and device organization tree are on the left while config area is on the right.

Figure 3-43

3.9.1.2 Backup

In order to guarantee the security of user data, the platform provides the function of data backup. Backup mode includes manual backup and auto backup.
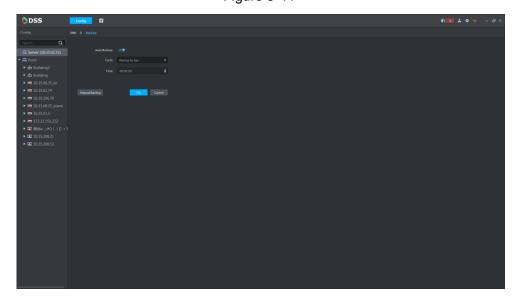
3.9.1.2.1 Auto Backup

The system can auto back up data according to the backup mode and time.

Step 1   Select "Server > Backup" in the config interface.

The backup interface is displayed. See Figure 3-44.

Figure 3-44

Step 2   Enable the switch of "Auto Backup", select "Cycle" and "Time".

Cycle includes backup by day, backup by week and backup by month. Time is different according to the selected cycle, the time set is the point at which the backup is performed.

Step 3   Click "OK" to save config.

The system pops out the interface of "Backup File Password".

Step 4 Enter password, click "OK" to complete config.

It is to guarantee backup data security via setting file password. Please remember password after setting, it needs to verify password to open or restore backup file. The storage path of backup file is "/DSS/Client/Backup File".

3.9.1.2.2 Manual Backup

It is to manually back up current system data.
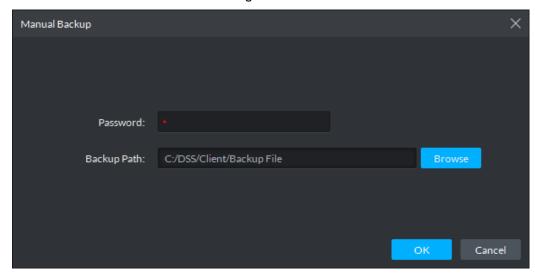
Step 1 Select "Server > Backup" in the interface of config management.

The backup interface is displayed. See Figure 3-44.

Step 2 Click "Manual Backup".

The interface of "Manual Backup" is displayed. See Figure 3-45.

Figure 3-45

Step 3 Enter password, select backup path, and click "OK".

It will prompt the backup progress in the lower right corner of PC. See Figure 3-46.

Click 🗀 to check backup file. See Figure 3-47.

📖

It is to guarantee backup data security via setting file password. Please remember password after setting. It needs to verify password to open or restore backup file.

Figure 3-46
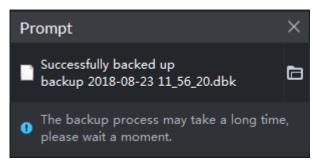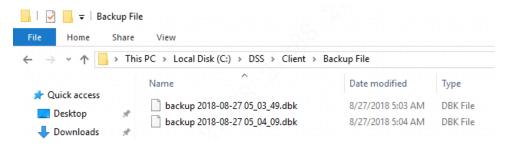
Figure 3-47

3.9.1.3 Restore

When the user database is abnormal, the system restore function can be used to restore the data to the time point of the last backup, which can quickly restore the system and reduce the user loss.

⚠

When performing system restore, you need to stop other users from using the system. Use with caution since the feature can change data information.
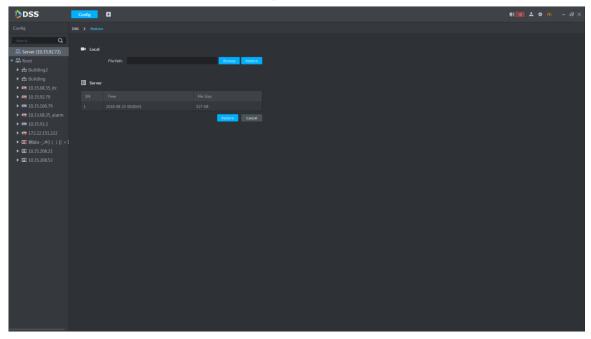
3.9.1.3.1 Local

Restore files that the user manually backed up to the server.

Step 1   Select "Server > Restore" in the config interface.

The restore interface is displayed. See Figure 3-48.

Figure 3-48
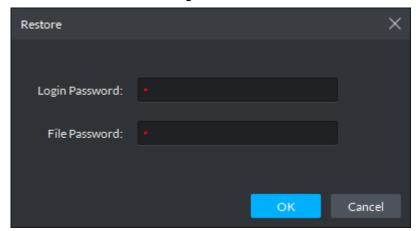
Step 2   Click "Browse" and select backup data file.

Step 3   Click "Restore".
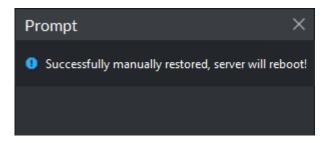
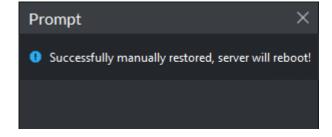The system pops out the "Restore" prompt box. See Figure 3-49.

Figure 3-49

Step 4 Enter admin password and file password, click "OK" to restore.

It will display progress during data restoration, it will prompt that it is successfully restored on the lower right corner of PC after restoration is successful. See Figure 3-50. The system service will reboot after restoration.

Figure 3-50
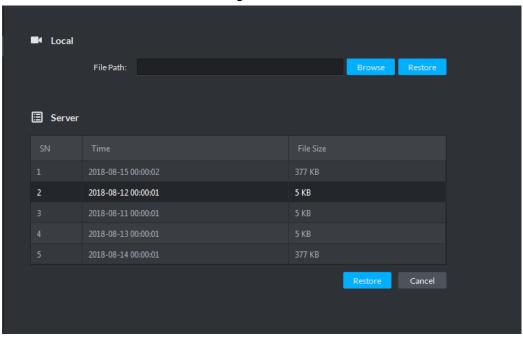
3.9.1.3.2 Server

Please make sure the auto backup function of the system has been enabled when it is to restore data from the backup file of the server end. The server end backs up database according to the set cycle and then forms backup file.

Step 1 Select "Server > Restore" in the config interface.

The restore interface is displayed. See Figure 3-51.
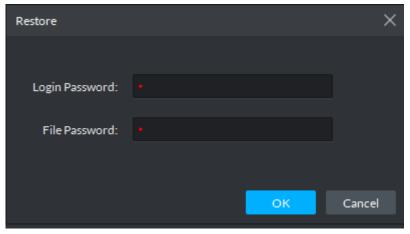
Figure 3-51

Step 2 Select backup file in the list, click "Restore".

The system pops out "Restore" prompt box. See Figure 3-52.

Figure 3-52

Step 3 Enter admin password and file password, click "OK" to restore.

It will display progress during data restoration, it will prompt that it is successfully restored in the lower right corner of PC after it is successfully restored. See Figure 3-53. The system service will reboot after restoration.

Figure 3-53
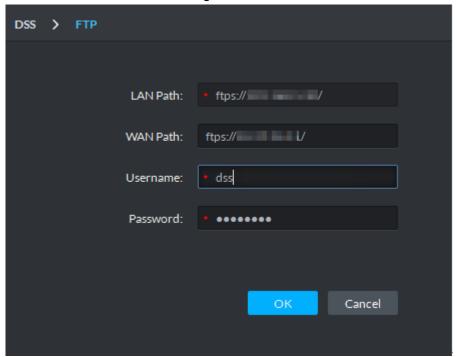
3.9.1.4 FTP

Enable FTP and the device uploads alarm snapshot to FTP. FTP can be equipped by platform itself, it can also configure user to establish FTP server.

Step 1 Select "Server>FTP" in the config interface.

The system displays FTP interface. See Figure 3-54

Figure 3-54

Step 2 Set FTP address, username and password.

It has to fill in the items with *, the standard format of FTP address is ftps://x.x.x.x/. The FTP address is the IP address of platform server; both username and password are dss/dss.

Step 3 Click "OK" to complete setting.
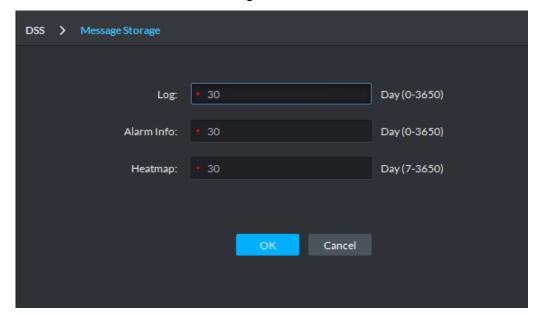
3.9.1.5 Message Storage

It is to set the storage duration of log info and alarm info, the default storage is 30 days, the max storage can be set up to 3650 days.

Step 1 Select "Server > Message Storage" in the config interface.

The interface of "Message Storage" is displayed. See Figure 3-55

Figure 3-55

Step 2　Set the storage time of log, alarm info and heatmap.

Step 3　Click "OK" to complete config.

3.9.1.6 Time Sync
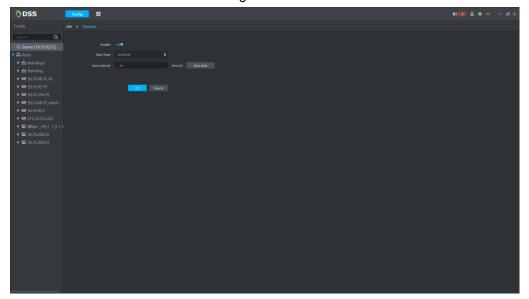
3.9.1.6.1 Device Time Sync

Take the system time of platform server as the base time when the front-end equipment is calibrated with the platform server time. The platform supports time correction for all devices connected by Onvif protocol. It supports automatic time correction and manual time correction. Auto time sync means that the system automatically initiates time sync within designated period and time. Manual time sync means that it initiates time sync request manually, the system responds to the request immediately and then time sync is implemented.

Auto Time Sync

Step 1　Select "Server > Time Sync" in the interface of config management.

The interface of "Time Sync" is displayed. See Figure 3-56.

Figure 3-56

Step 2 Enable the switch and set start time and sync interval.

Step 3 Click "OK" and save config.

Manual Time Sync

Step 1 Select " > Time Sync" on the homepage management tab.

The interface of time sync is displayed. See Figure 3-56.

Step 2 Click "Sync Time" and the system will synchronize time upon front-end device immediately.

3.9.1.6.2 Client Time Sync

Take the system time of platform server as base time when it is to synchronize time between client and platform server. Client enables time sync, which means that it enables time sync for both device and client at the same time, but it needs to enable separately in the local config of client if client is to accept the time sync of platform server.

Auto Time Sync
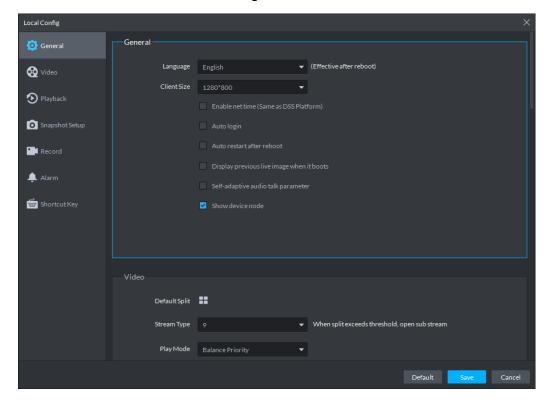
Step 1 Click the on upper right corner of the client, open "Local Config".

Step 2 Click "General Config: tab, enable client time sync, click "Save" to save config info. See Figure 3-57.
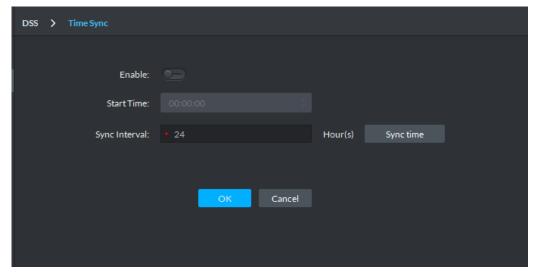
Enable the client time sync in local config, the client will make time sync request to server immediately and then complete time sync.

Figure 3-57

Step 3 Select "Server > Time Sync" in the interface of config management.
The interface of time sync is displayed. See Figure 3-58.

Figure 3-58

Step 4 Enable the switch and set start time and interval.
Step 5 Click "OK" to save config.

Manual Time Sync

Step 1 Select " > Time Sync" in the management area of tab.
The time sync interface is displayed. See Figure 3-58.
Step 2 Click "Sync Time" and the system will make time sync upon front-end devices immediately.
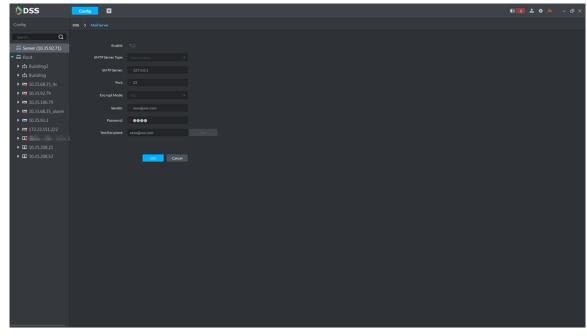
3.9.1.7 Email

It is to configure email server. It can activate and send alarm info to other users when alarm event occurs.

Step 1 Select "Server > Email" in the interface of config management.

The interface of "Email Server" is displayed. See Figure 3-59.

Figure 3-59

Step 2 Enable the switch, select SMTP server type and set email info.

As for encryption mode, it is recommended to adopt TSL encryption mode which is more secure.

Step 3 Click "Email Test" to verify if config is successful.

Step 4 After config succeeded, click "OK" to complete config.
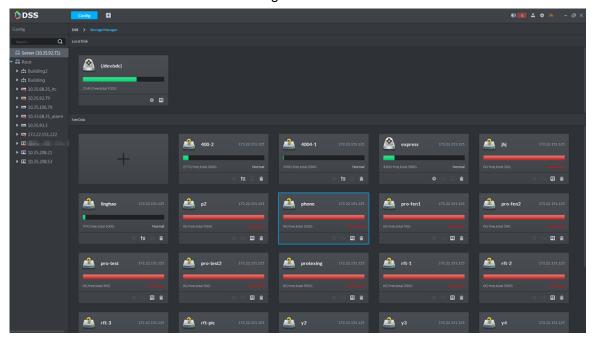
3.9.1.8 Storage

After all-in-one device is started, DSS service automatically identifies the local disks that are not partitioned on all-in-one device.

Select "Server > Storage" in the config interface. The interface of storage management is displayed. See Figure 3-60.

● The capacity bar is black: It indicates that storage space is not used.

● The capacity bar is green: It indicates that there is still storage space.

● The capacity bar is red: It indicates that storage space is fully occupied.
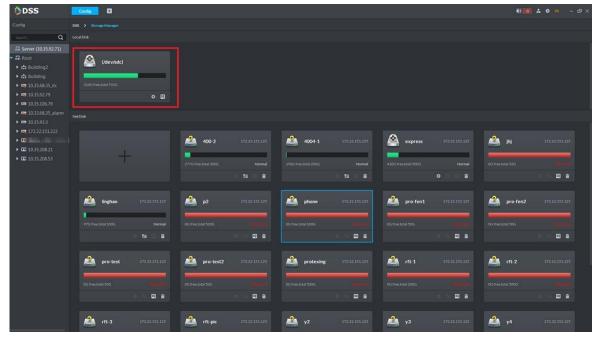
Figure 3-60

3.9.1.8.1 Local Disk

The local disk is equipped by server itself; the platform will automatically detect disk info of the server (disk info of non PC client). See Figure 3-61.
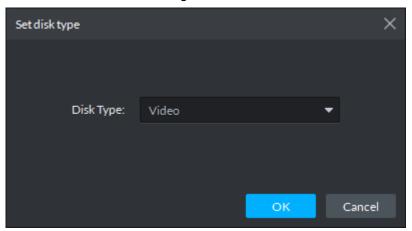
Figure 3-61

Click ![settings icon] and select the storage space type of the disk, which is the storage purpose of the disk. See Figure 3-33.

📖

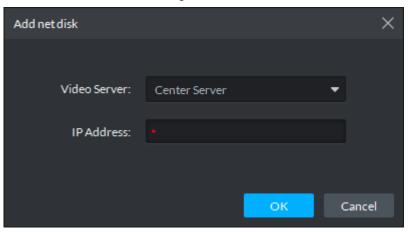It needs to set storage space type as picture if it needs to store pictures of ANPR device.

Figure 3-62

3.9.1.8.2 Net Disk

Net disk can be added and deleted freely; meanwhile it can use the net disk of other devices.

Step 1 Click "+".

The interface of "Add Net Disk" is displayed. See Figure 3-63.

Figure 3-63
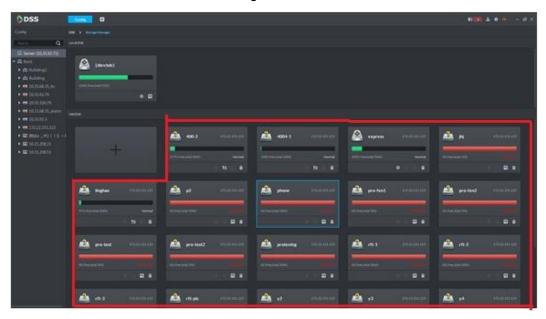
Step 2 Enter IP address of net disk.

Step 3 Click "OK" to complete adding.

See Figure 3-64 for adding results.

- Click ⚙ to modify the storage space type of disk.

- Click ⬆ to rob net disk from other devices and make it use for local device.

  Please make sure other devices stop recording or snapshot before robbing, otherwise it may cause video or picture loss.

- Click 🗑 to delete net disk, please make sure it has stopped recording or snapshot before it is deleted, otherwise it may cause video or picture loss.
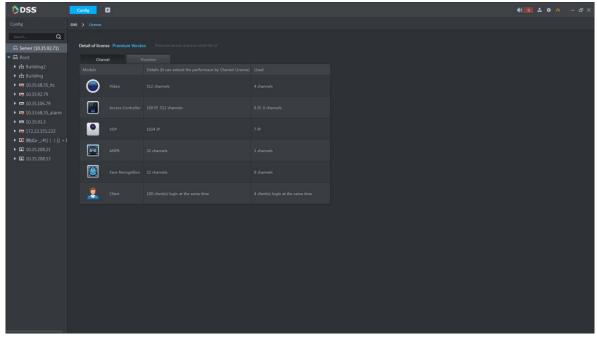
Figure 3-64

3.9.1.9 License

Select "Server > License" in the config management interface. The license interface is displayed. See Figure 3-65. It is to check the channel number and function list of video, access controller and ANPR devices.

Figure 3-65
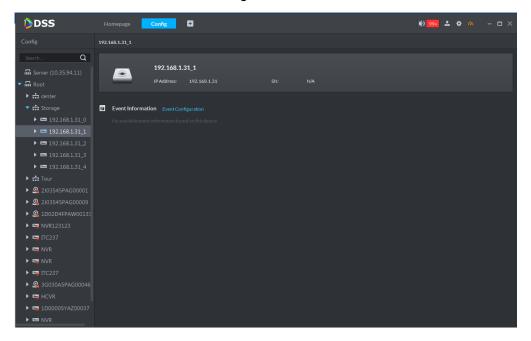
3.9.2 Configuring Device/Channel

It is used to check device info, config time info and config device parameters.

Click [Config] in the homepage management area. The interface of config management is displayed. See Figure 3-66. The server node and device organization tree are displayed on the left while the config area is on the right.

Figure 3-66

3.9.2.1 Event
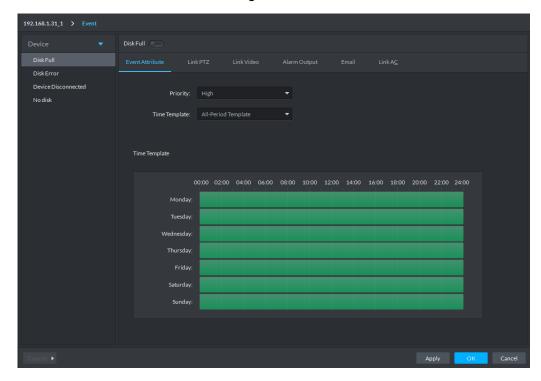
The supported alarm event type is different according to different accessed device type, but the event parameter which needs to be configured is the same. In this chapter, it will take "Disk Full" as an example to introduce event attribute, link parameter and some other config processes.

⚠

● Each alarm type needs to be configured separately.
● The link item is independent, which can be configured individually or together as well.

Step 1 Select device or device channel from device tree which is on the left of config management interface, click "Event". The interface of "Event" is displayed. See Figure 3-67.

Figure 3-67

Step 2 Select alarm event type as disk full.

Step 3 Click ⬚ to enable disk full event, the switch is ⬚.

At this moment, the alarm event type on the left list displays ✓.

3.9.2.1.1 Configuring Event Attribute

It is to configure level of alarm event and valid period triggered by time.

Step 1 Click "Event Attribute". See Figure 3-67.

Step 2 Select priority.
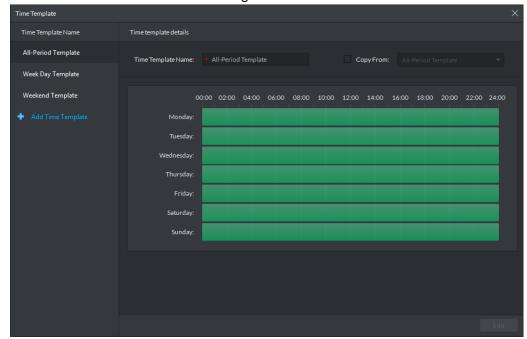
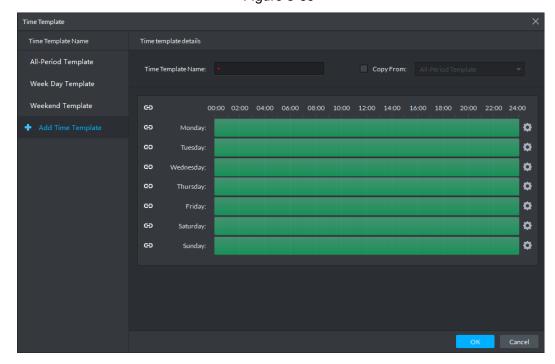Priority is only used to recognize alarm message.

Step 3 Select time template.

Time template system includes all-period template, weekday template and weekend template by default. It will display the time info of the template below after it is selected. Please add new template according to the following steps if the default template fails to meet the requirements.

1) Select "Manage Time Template".

The interface of "Time Template" is displayed. See Figure 3-68.

Figure 3-68

2) Click "Add Time Template"
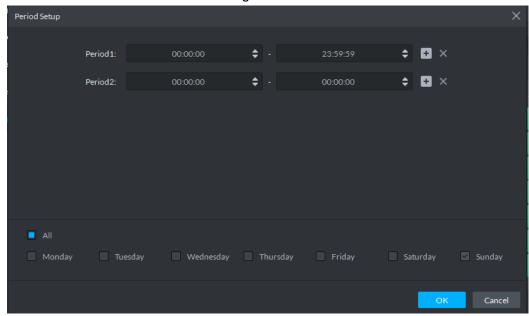
The interface of "Time Template Details" is displayed. See Figure 3-69

Figure 3-69

3) Enter time template name and set time according to the three following modes.

◇ Select "Copy", selects the existing default template and copy time directly from the default template.

◇ Use mouse to drag time line directly. It will display eraser if the time is already set, it will erase the time of drag location; it will display pen if time is not set and add the time of drag location.

◇ Click and see Figure 3-70. Set time period and week, click to add several time periods.

◇ Click to delete time period. Click "OK" after setting is completed, save and return to the interface of "Time Template Details".

Figure 3-70

4) Click "OK" to complete adding time template.

Step 4 Click "OK" to complete setting.
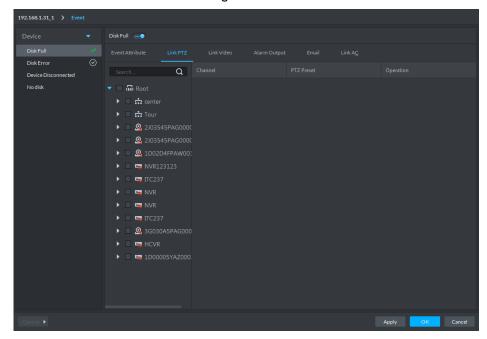
3.9.2.1.2 Configuring Link PTZ

The link PTZ device will move to the preset location and realize monitoring when alarm event occurs.

Step 1 Click "Link PTZ".

The interface of "Link PTZ" is displayed. See Figure 3-71.

Figure 3-71

Step 2 Select PTZ device from the device tree.

Step 3 Click drop-down box and select PTZ preset.

Step 4 Click "OK" to complete setting.
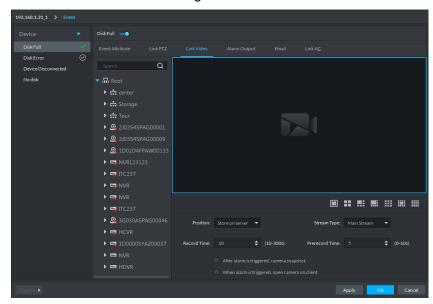
3.9.2.1.3 Configuring Link Video

It will link relevant devices to record, snapshot and client to pop out video when alarm event occurs.

Step 1 Click "Link Video".

The interface of "Link Video" is displayed. See Figure 3-72.

Figure 3-72
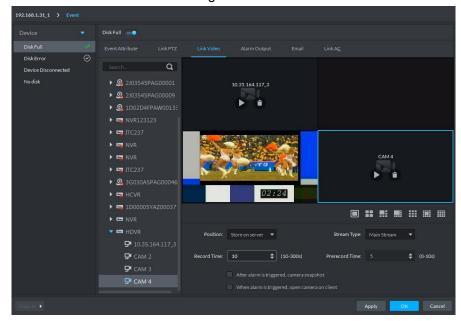
Step 2 Select window; drag the device channel which needs to be linked to the window. See Figure 3-73.

📖

- Click the icon under the window to select window split.

- After dragging channel to the window, click ▶ to display real-time video, click

  🗑 to delete channel. Please move the mouse to window and click ✕ to

  delete it if it is already played.

Figure 3-73

Step 3 Set link parameters; please refer to Table 3-11 for more details.

Table 3-11

Parameter	Note
Position	It is to set the storage location of record and snapshot, it supports storage on server, on device or no storage.
Stream Type	It is to select the video stream of channel, supports main stream, sub stream 1 and sub stream 2.
Record Time	It is to set the time of linking video after alarm time is triggered.
Prerecord Time	It is to set the prerecord time before linking video.
Take camera snapshot after alarm is triggered	After it is selected, it will link corresponding camera to capture after alarm event is triggered.
Open camera on client when alarm is triggered.	After it is selected, it will open camera real-time video in client after alarm output is triggered.

Step 4 Click "OK" to complete setting.
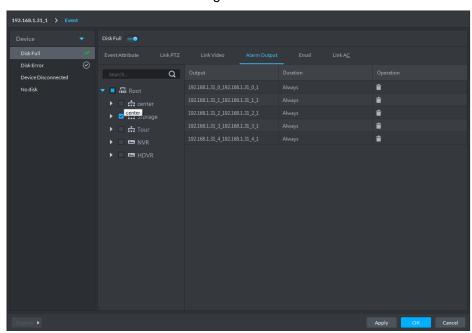
3.9.2.1.4 Configuring Alarm Output

When alarm event occurs, it will link external alarm output device and output alarm info.

Step 1 Click "Alarm Output"

The interface of "Alarm Output" is displayed. See Figure 3-74.

Figure 3-74

Step 2 Select alarm output device.

Step 3 Click the drop-down box of "Duration" in the right list, select alarm duration.

Click the ![trash icon] in the list or cancel selecting device, then you can delete alarm output device.

Step 4 Click "OK" to complete setting.

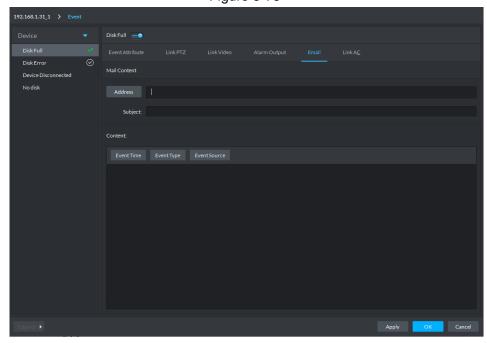### 3.9.2.1.5 Configuring Email

When alarm event occurs, you can remind relevant personnel to deal with alarm event via sending email.

Step 1 Click "Email".

The interface of "Email" is displayed. See Figure 3-75.

Figure 3-75

Step 2 Enter email address of receiver into the address bar directly, or click "Address" to select the email address of receiver.

It needs to make sure that the email address has been set when adding user if it clicks "Address" to select email address of receiver, otherwise, it will not displayed in the list.

Step 3 Enter email theme.

Step 4 Click the option and set email content or enter email content directly.

For example: Select "Event Time", then the message sent to the receiver will have the time of the event.

Step 5 Click "OK" to complete setting.
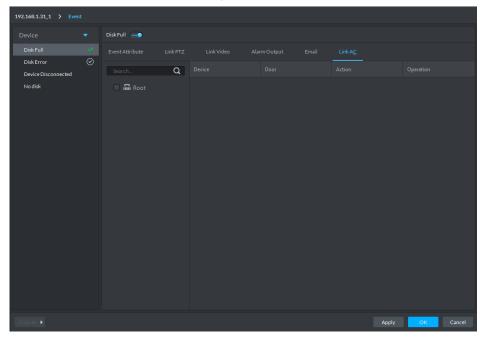
3.9.2.1.6 Configuring Link AC

When alarm event occurs, it will link several AC channels to open or close, each channel can be set status individually.

Step 1 Click "Link AC".

The interface of "Link AC" is displayed. See Figure 3-76.

Figure 3-76

Step 2 Select the channel of AC device.

Step 3 Select the action of AC channel in the action list on the right.

It supports open, close, NO and NC.

● Open: The door is linked to open when alarm event is triggered.

● Close: The door is linked to close when alarm event is triggered.

● NO: Link door is always open when alarm event is triggered.

● NC: Link door is always close when alarm event is triggered.

Click the in the list, or cancel selecting device to delete AC channel.

Step 4 Click "OK" to complete setting.
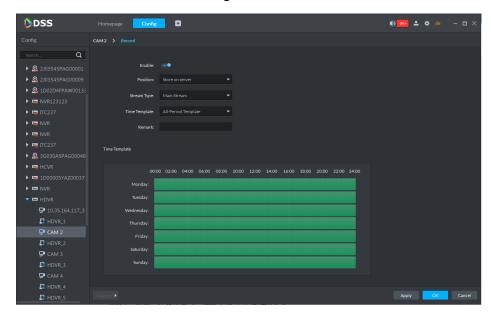
3.9.2.2 Configuring Record

It can configure record plan if the accessed device supports record function. You can set main stream, sub stream, and set record file storage position (on the the platform or the local device)

Step 1 Select device or device channel from the device tree in the left of config management interface, click "Record Config".

The "Record" interface is displayed. See Figure 3-77.

Figure 3-77

Step 2 Click enable switch to enable record function.

Step 3 Select "Position", "Stream Type" and Time template.

- Storage position supports storing on server and storing in device.
- Time template system provides default option. It can create new template if it fails to meet requirements. Please refer to "3.9.2.1.1 Configuring Event Attribute" for more details.

Step 4 Click "OK" to complete record config. See Figure 3-78.

- Click to enable or disable record.

- Click to modify record info.

- Click to delete record info.

Figure 3-78

3.10 Log
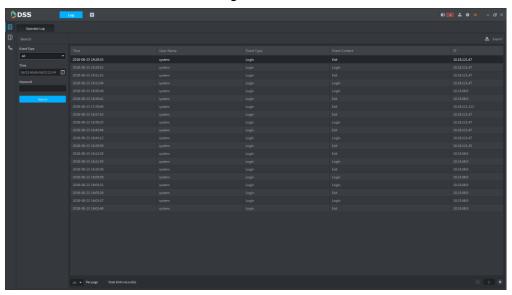
The system supports search, manage or export management log, access control log and video talk log.

3.10.1 Management Log

It supports searching operator log and system log, take "Search operator log" for an example, it is to introduce search and export process.

Select " Log > " in the homepage management area, click "Operator Log" tab, the system displays the interface of "Operator Log". See Figure 3-79.

Figure 3-79

Search Log

It supports search according to event type, time and keyword.
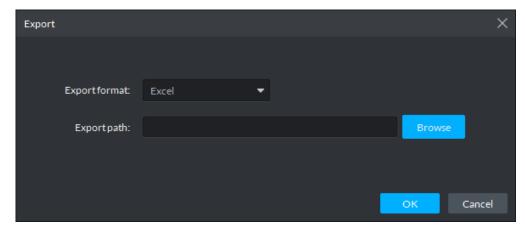
It sets search condition, click "Search" and it will display log info which meets search condition on the right list.

Export Log

Step 1   After it is searched, click [icon] or "Export" on the upper right corner.

The "Export" interface is displayed. See Figure 3-80.

Figure 3-80

Step 2   Click the arrow and select export format, it supports Excel and TXT.

Step 3   Click "browse" and select export path.

Step 4   Click "OK" to complete export.

3.10.2 A&C Log

It supports various log info of each access control device.
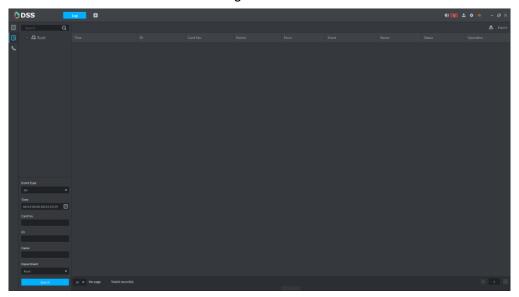
Select " > " in the homepage management area, the interface of access control log is displayed. See Figure 3-81. Select access control device, set search condition, click "Search" and it will display search result on the right.

- Search condition supports event type, time, card number, name and department etc.
- Please refer to "3.10.1 Management Log" for more details.

Figure 3-81

4.1 Live View

It is to view the real-time video data from the camera. During the live view process, system can record local video file, snapshot, enable audio, bidirectional talk, instantly playback video record, switch bit stream, PTZ control, tour operation, etc. It supports multiple-window preview too.

4.1.1 Function Flows

Refer to the following figure to realize live view function. See Figure 4-1.

Figure 4-1

The above function flows are for reference only. You can skip some steps according to your actual situation.

4.1.2 Adding Device

It is to add device organization tree and add the corresponding device. Refer to chapter 3.7
Device management for detailed information.

4.1.3 Entering Preview Interface

On function zone, click Live view button, enter Preview interface. See Figure 4-2. Refer to
Table 4-1 for more details.

Figure 4-2
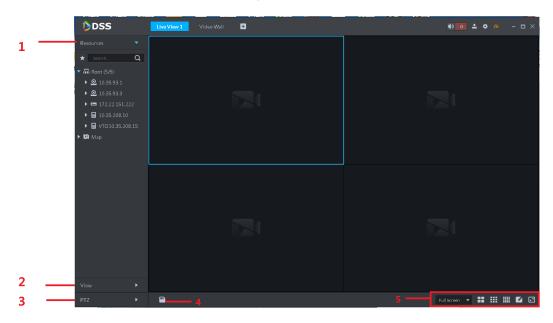
Table 4-1

SN	Name	Function
1	Resources	It is to display device organization tree and added e-map. ● On the node of the organization tree, it displays device total amount and online amount. ● The map preview supports raster map.
2	View	It is to save current video window to the view as the scheme. It supports 3 levels. The first level is the root, the second level is group and the third level is view. It supports root, group node video tour. The tour interval includes 10s, 30s, 1min, 2min, 5min, 10min. System maximally supports 100 views.
3	PTZ	It is to display PTZ control panel. It is to operate the PTZ devices.
4	Save	It is to save current preview scheme as view.

SN	Name	Function
5	Preview window setting	It is to adjust preview window. ● Full/original scale: It is to select window height/width rate. It supports two play video modes: by actual rate or full-window. ● Original scale: The preview window is at original scale to display. ● ⊞: 4-split. ● ⊞: 9-split. ● ⊞: 16-split. ● ◰: Select other split mode or customized split mode. ● ◳: Switch to full screen. Click 【Esc】 to exit.

4.1.4 Open Live Preview

It supports organization preview, device preview, channel preview, map preview, view preview, etc.

4.1.4.1 Organization Preview

Drag the organization tree node to the video window, you can open video channel according to window split amount.
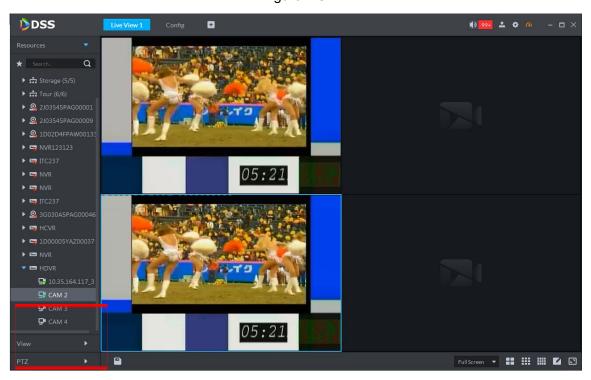
Step 1 Click the icon at the right bottom corner, and then set window split amount such as 4.

Step 2 Drag the organization node on the left device tree to the window on the right side.

The system opens the first 4 online channels of current organization on the right side. See Figure 4-3.

📖

- If the split amount is smaller than the current online channel of organization, system displays online channel from front to the back.
- If the split amount is larger than the current online channel of organization, system displays video channel on the window one by one.

Figure 4-3
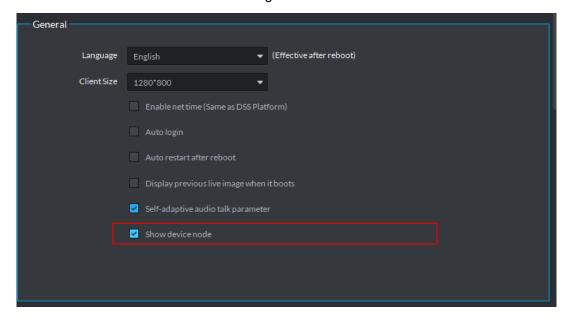
4.1.4.2 Device Preview

Drag the device node to the video window, you can open video channel according to window split amount.

Step 1 At the top right corner, from ⚙️ > General.

Make sure the show device node is checked. See Figure 4-4. If not, please check the box and then reboot client.

Figure 4-4

Step 2 Click the icon at the right bottom corner, and then set window split amount such as 4.

Step 3 Drag the organization node on the left device tree to the window on the right side.

The system opens the first 4 online channels of current organization on the right side. See Figure 4-5.

📖

- If the split amount is smaller than the current online channel of organization, system displays online channel from front to the back.
- If the split amount is larger than the current online channel of organization, system displays video channel on the window one by one.

Figure 4-5
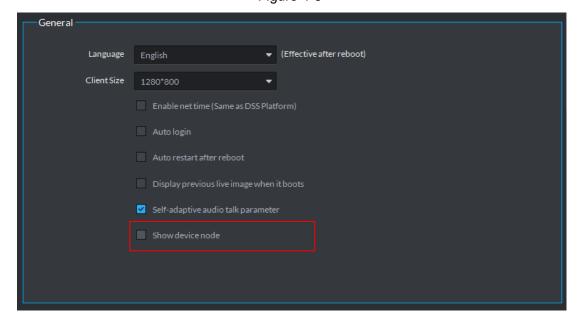
4.1.4.3 Channel Preview

Drag the video channel to the video window to view.

Step 1 At the top right corner, from ⚙ > General.
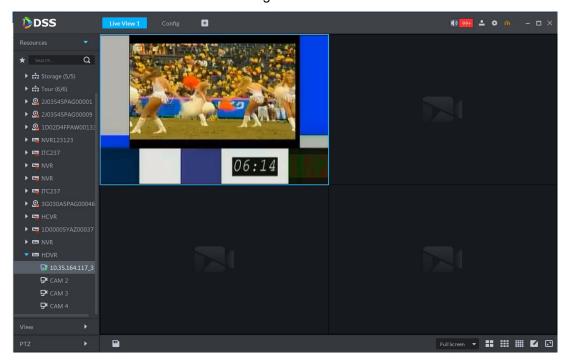
Make sure the show device node is not checked. See 0. If not, please cancel the box and then reboot client.

Figure 4-6

Step 2   One live view interface, select the window you want to play the video.

Step 3   Drag the video channel of the device organization tree on the left to the window.
It is to open the video channel. See Figure 4-7.

Figure 4-7
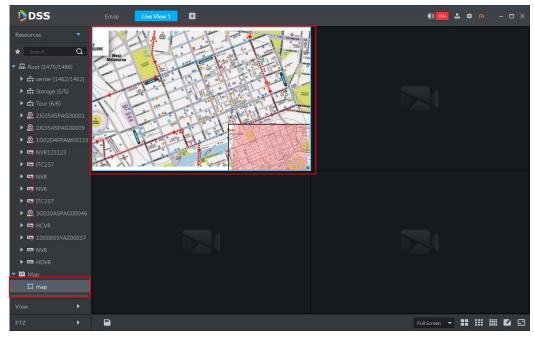
4.1.4.4 Map Preview

It is to open the added e-map, view the device installation position on the map and video.

Step 1   Refer to chapter 4.9 E-map to add e-map and device.

Step 2   On the Live view interface, select a window.

Step 3   On the e-map list on the left, select a map.
It is to open the map. See Figure 4-8.

Figure 4-8

Step 4   Click the online device on the map. See Figure 4-9. Select .

Select an idle window to open the channel video to view. See Figure 4-10.

Figure 4-9
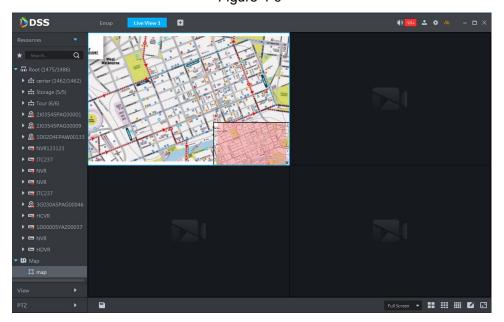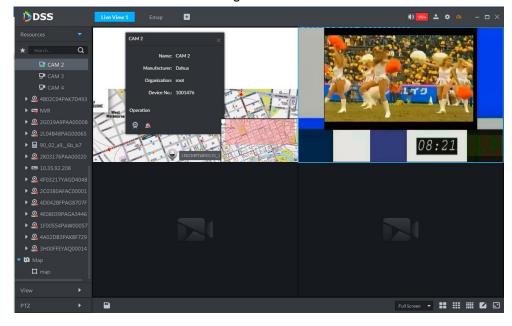
Figure 4-10
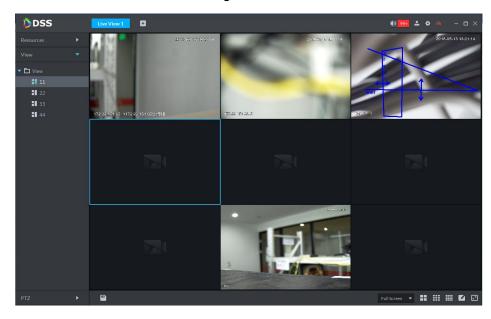
4.1.4.5 View Preview

Open the view; it is to see the video channel of current view.

Step 1   Click to add e-map and device. Refer to chapter 4.9 E-map for more details.

Step 2   On the Live interface, switch to the view list. Double click the view you want to see.
It is to view all channel video of current view. See Figure 4-11.

Figure 4-11

4.1.5 Preview Operations

4.1.5.1 Tour

System supports organization node tour, device node tour, view node tour. All tour operations are the same. Here we use organization node tour to continue.

Step 1 On the Live view interface, select window split amount.

Step 2 Right click organization node and then select Tour, and then select tour interval. System displays channel video by current window split amount. From window 1 to window N, it is called one tour period. The tour period interval supports 10s, 30s,

1min, 2min, 5min, 10min. During the tour process, system displays tour icon [icon].

Click the icon to stop tour.

4.1.5.2 Sort

The device organization tree supports descending, ascending, default sequence.

On Live view interface, right click root and then select Sort, you can select sort type. The organization tree displays by the specified sequence.
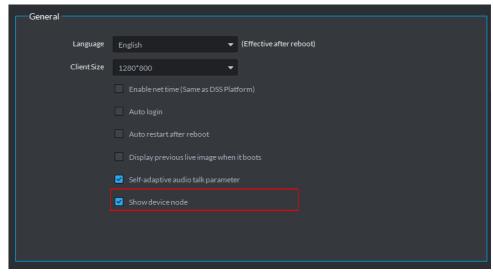
4.1.5.3 Display Type

When Show device node function is enabled, you can set display type of device node. The display type includes by device name or device IP address.

Step 1 At the top right corner, from [icon] > General.

Make sure the show device node is checked. See 0. If not, please check the box and then reboot client.

Figure 4-12

Step 2 One Live view interface, right click root and then select display type. The organization
tree will be displayed at the specified type.

4.1.5.4 Hide Offline Node

It is to hide offline node or offline channel of the device organization tree. So that it is easy for
you to view the online node or channel.
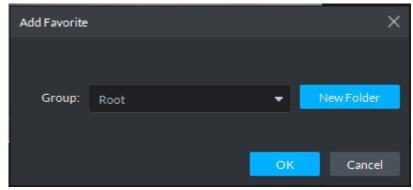
On Live view interface, right click node, and then select Hide offline, system displays online
nodes only. On hide mode, right click node, select Display offline, system displays all node
information.

4.1.5.5 Add to Favorites

It is to add video channel to Favorites to view.

Step 1 On Live view interface, right click the channel on the left, select Add to favorites.
Add Favorites interface is displayed. See Figure 4-13.

Figure 4-13

Step 2 Select a group from the dropdown list and then click OK button.

Step 3 If you want to add new favorites group, click New folder and then select a group.

After adding the video channel to the favorites, click to open the favorites folder
to view.

4.1.5.6 Saving View
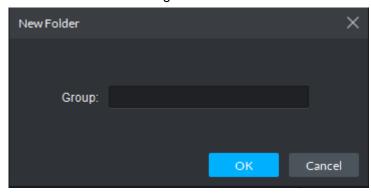
It is to save current live interface as view. The next time, you can open the view to see the channel video.

⚠️

- System provides view node. You can save view to the root, or you can create sub-node of current root.
- Cannot save view if system is in tour process.

Step 1   On Live view interface, click View.

Step 2   Right click view root, and then select New folder.

The New folder interface is displayed. See Figure 4-14.
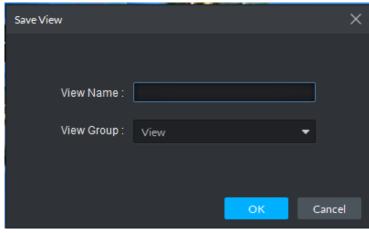
Figure 4-14

Step 3   Input a folder name and then click OK. It is to create view group.

Step 4   On live view status, click the 💾 at the bottom of the interface.

The Save view interface is displayed. See Figure 4-15.

Figure 4-15

Step 5   Input view name and then select view group. Click OK to save new view.

4.1.5.7 Preview Window Operations

Move the mouse to the Live view window, you can view bit stream, instantly play file, set audio, bidirectional talk, record local file, snapshot, etc.

On Live view status, move the mouse to the preview window, system displays window information. See Figure 4-16. Please refer to Table 4-2 for more details.

Figure 4-16

Table 4-2

Icon	Function
H.264, 1920*1080, 6480kbps	It is to display encode format, resolution, bit stream information.
⊙	It is to playback record file of current channel. During playback process, click ⊙ to go back to live view status. 📖 ● Make sure there is record file on the center or on the device. The record file on the center has higher priority. ● Go to Local Config>General to set playback time.
◀×	Enable/disable audio of the channel.
🎤	Enable/disable device bidirectional talk. 📖 If the Self adaptive audio tall parameter item is checked (Local Config>General), system is automatically self-adaptive all paramters when you enable bidirectional talk, there is no pop-up window.
📹	Enable/disable local record and then save on the local PC.
▢	Snapshot an image.
✕	Close window video.

On Live view status, right click video window. See Figure 4-17. Please refer to Table 4-3 for more details.

Slight difference may be found on the following interface. Different camera series supports different functions.

Figure 4-17
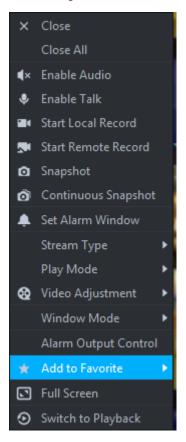
Table 4-3

Name	Function
Close	It is to close current video window.
Close all	Close all video windows.
Enable audio	Enable/disable camera audio function. It is the same as the function of [icon].
Enable talk	Enable/disable device bidirectional talk function. It is the same as the function of [icon]. If the Self adaptive audio tall parameter item is checked (Local Config>General), system is automatically self-adaptive all paramters when you enable bidirectional talk, there is no pop-up window.
Start local record	It is to record audio/video of current video window and then save on the local PC. It is the same as the function of [icon].
Start remote record	It is to record audio/video of current video window and then save on the HDD of the platform.
Snapshot	It is to save current video on the image folder (Click it, system snapshots one image by default.) It is the same as the function of [icon].
Continuous snapshot	It is to save current video on the image folder (Click it, system snapshots three images by default.)

Name	Function
Set alarm window	。 It is to set current video channel as alarm channel.
Stream type	It supports main stream, sub stream 1, sub stream 2. ▭ If you select sub stream 1, sub stream 2, when you are adding encoder on the manager, select sub stream 1, sub stream 2 from the bit stream dropdown list.
Play mode	It includes real-time priority/fluency priority/balance priority/customize.
Video adjustment	It is to set vide brightness, contrast, saturation and hue.
Split mode	It supports window standard mode, 1+3 mode, 1+5 mode.
Alarm output control	It is to control alarm output.
Add to favorites	It is to add current channel or all channel(s) to the favorites.
Full screen	It is to switch current video window to full screen. Double click the video window again or right click mouse and then select exit to exit.
Switch to playback	It is to quickly switch to playback interface. There is no need to go back to the homepage.
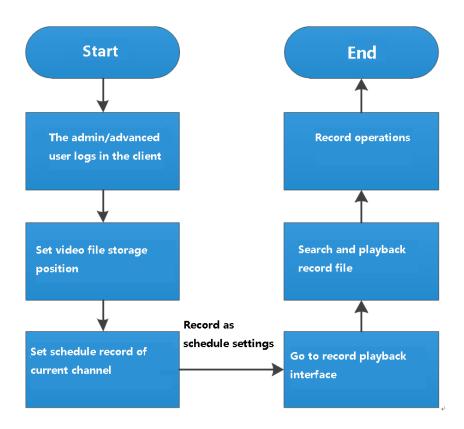
4.2 Record Settings and Playback

It is to set record file storage position and record schedule, search, playback and download file.

4.2.1 Function Flows

It is to realize record settings and playback function. Refer to Figure 4-18 for more details.

Figure 4-18

The above function flows are for reference only. You can skip some steps according to your actual situation.

4.2.2 Configuring Local HDD

If you want to save record file on the device, refer to chapter 3.9.1.8.1 Local HDD Management for detailed information.

4.2.3 Configuring Network HDD

If you want to save record file on the server, refer to chapter 3.9.1.8.2 Network HDD Management for detailed information.
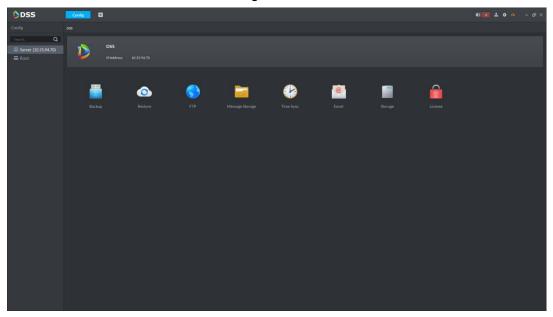
4.2.4 Configuring Record Schedule

Step 1   On Homepage management interface, click   .

Config interface is displayed. See Figure 4-19.
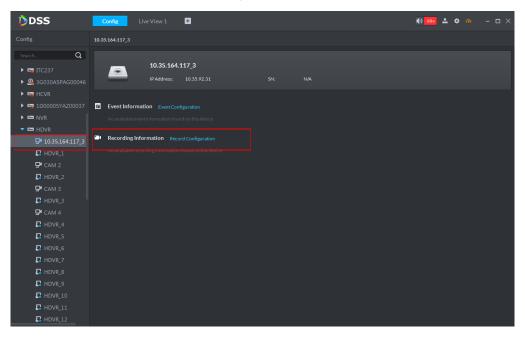
Figure 4-19

Step 2   Select a device channel on the left.

Channel setting interface is displayed. See Figure 4-20.
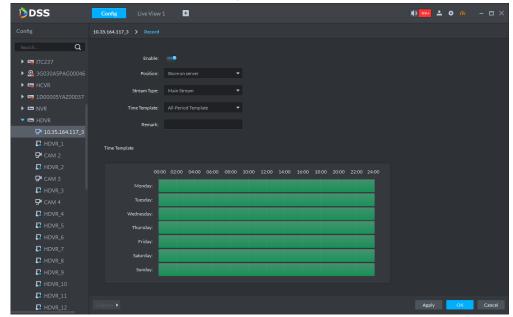
Figure 4-20

Step 3   Click Record configuration.

Record configuration interface is displayed. See Figure 4-21.

Figure 4-21
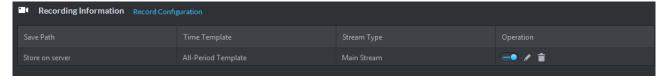
Step 4 Click the Enable to enable record function. Select storage position, stream type, and time template.

- If you want to save the record file on the server, make sure you have set network HDD.
- If you want to save the record file on the device, make sure the device has installed the HDD.
- If the default time template is not suitable for your actual requirements, select Manage time template from the time template dropdown list to create new one. Refer to chapter 3.9.2.1.1 Configuring event properties for more details.

Step 5 Click OK to complete record schedule settings. See Figure 4-22.

- Click ____, start/stop record.

- Click ____, modify record file information.

- Click ____, delete record file information.

Figure 4-22

4.2.5 Go to Playback Interface

After configuring and starting record schedule, system can record file and then save on the corresponding HD. You can go to the playback interface to search the record file and playback.

On Function pane, click Playback, the playback interface is displayed. See Figure 4-23. Refer to Table 4-4 for more details.

Figure 4-23
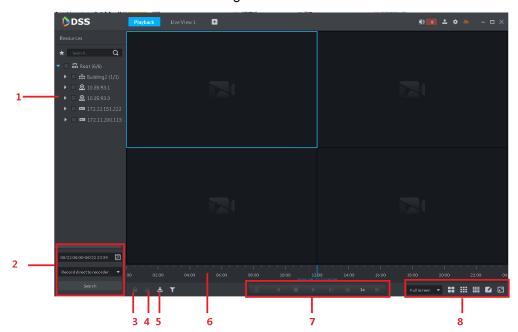
Table 4-4

SN	Name	Function
1	Device organization tree	It is to display device organization node, and device/channel information.
2	Search record	It is to search the record file on current channel.
3	Lock record	It is to lock the record file. The locked record file cannot be overwritten. Cannot lock the record file that is writing or overwritten.
4	Click footages	Click footages.
5	Download	Click to enter Download interface.
6	Timeline	It is to display file recorded period.
7	Playback control	It is to control playback speed, process during playback process.
8	Window settings	It is to set playback window amount.

4.2.6 Search and Playback

The searched record bit stream is the same as the Device record stream on the

⚙ >Playback.
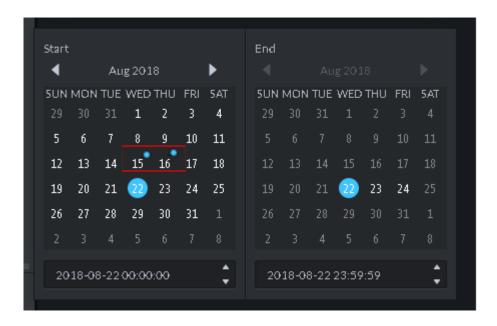
Step 1 On device organization tree, select a device channel.

Step 2 Click 📅, set start time and end time.

The blue highlighted date means current date has record. See Figure 4-24.

Figure 4-24

Step 3 Select search position.

Step 4 Click Search.

System displays searched results on the window. See Figure 4-25. If the selected channel amount is larger than the window amount, click the window adjust icon at the right bottom corner to adjust window amount.
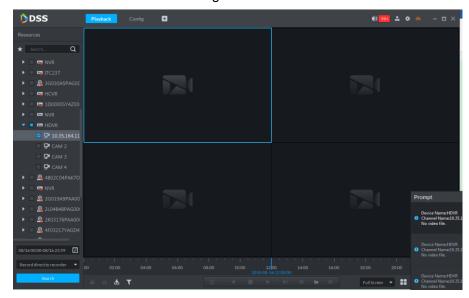
Figure 4-25

Step 5 Click the Playback button, system begins playback record file from the earliest date.

- 在 During the playback process, move the mouse to the video window and then click the corresponding icon to mark the record file, save local record file, snapshot, etc.

- Click ▼ to filter record type.

4.2.7 Record Operations

During the playback process, you can lock some record file, clip footages, download record file, control playback speed and process, and locate the playback position.

4.2.7.1 Locating the Playback Position

During the playback process, move the mouse on the timeline to zoom in and then drag the timeline to select playback start time.

4.2.7.2 Control Playback

During record file playback process, click the icon at the bottom of the interface. See Figure 4-26.

Figure 4-26

- Click ⊞, synchronization playback.

- Click ◀, backward playback.

- Click ■, stop playback.

- Click ❚❚/▶, pause/resume playback.

- Click ▶❘, frame by frame playback.

- Click ◀◀/▶▶, slow/fast playback.

4.2.7.3 Lock Record File

⚠
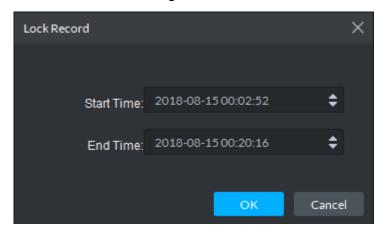
It is to lock the record file on the platform only.

Step 1 Click 🔒, the icon becomes 🔓.

Step 2 On the timeline that has the record file, use the mouse to drag and the click the timeline to select a record file.
The local record interface is displayed. See Figure 4-27.

Figure 4-27

Step 3 Set start time and end time, click OK to lock the record files on current period.
The locked files will not be overwritten when system is overwriting old record files
once the HDD is full.
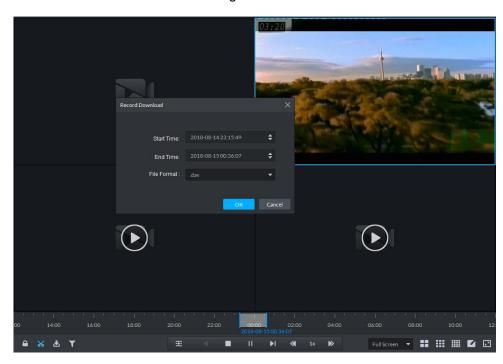
4.2.7.4 Clip Footages

It is to clip footages from the record file.

Step 1 Click [icon], the icon becomes [icon].

Step 2 On the timeline that has the record file, use the mouse to drag and the click the
timeline to select a record file.
The download interface is displayed. See Figure 4-28.
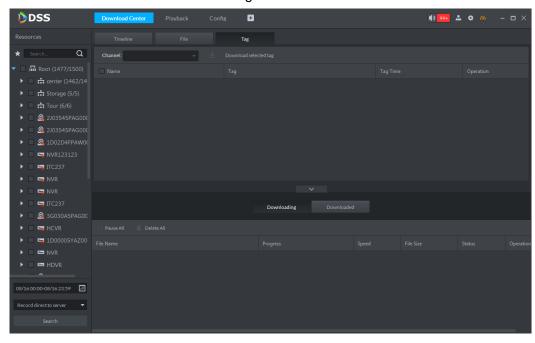
Figure 4-28

Step 3 Select time and then select record format such as dav, avi, mp4, flv, asf. Click OK to
download the footages.
The download interface is displayed. See Figure 4-29. The record file is saved on the
Record folder of the client installation path.

Figure 4-29

4.2.7.5 Download File

Click ![icon] to enter download center. You can download record files according to record tab or list. Refer to chapter 4.3 Download Center for detailed information.
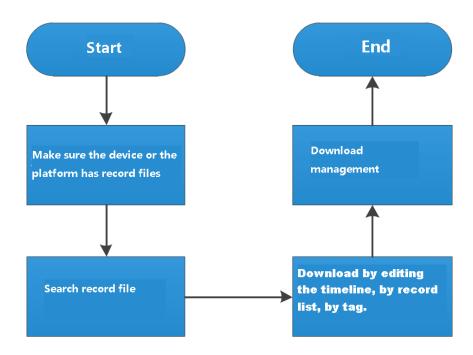
4.3 Download Center

The download center supports three download modes: edit the timeline, by the record list, by the tab record. You can pause, delete download files, etc.

4.3.1 Function Flows

It is to download record files. Refer to Figure 4-30 for more details.

Figure 4-30

The above function flows are for reference only. You can skip some steps according to your actual situation.

4.3.2 Go to Download Center Interface

On the function pane, click Download center, enter download center interface. See Figure 4-31.

Figure 4-31

4.3.3 Search

⚠️

The searched record bit stream is the same as the Device record stream on the

⚙️ >Playback.

Before you download the record file, you need to select channel, time, storage position to search record file according to actual requirements.

Select a device channel, set record time and storage position on the left pane, click Search button, the search interface is displayed. See Figure 4-32.
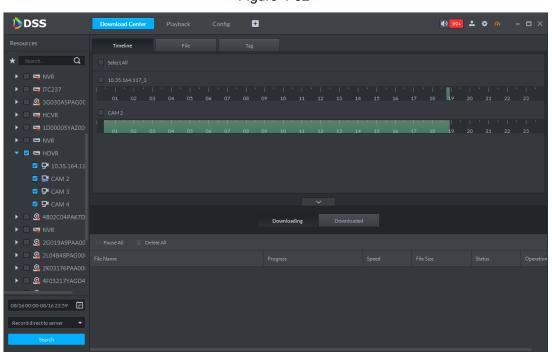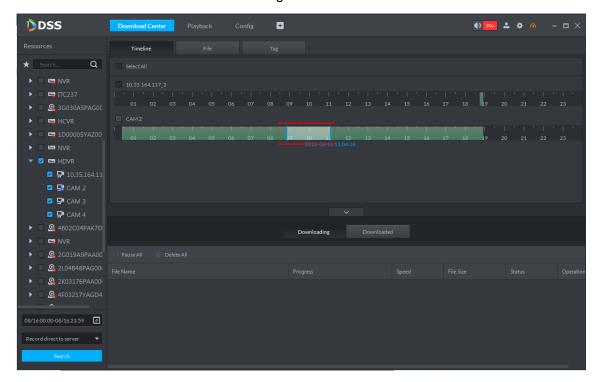
Figure 4-32

4.3.4 Download

4.3.4.1 Download by Editing Timeline
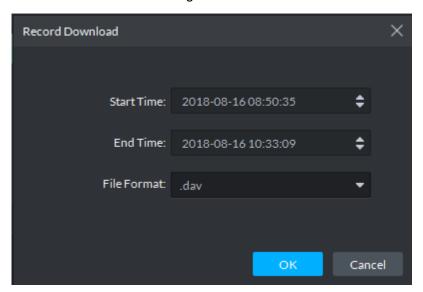
Step 1 After searching record file, click Timeline tab.
System displays record file by timeline. See Figure 4-32.

Step 2 Move the cursor to the timeline, you can see a cursor like a pair of scissors, click the timeline to set start time and end time. See Figure 4-33.

Figure 4-33
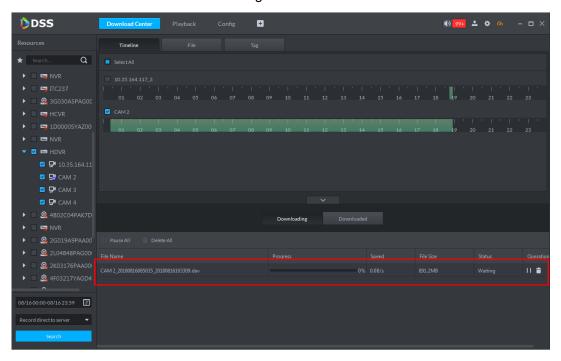
System pops up the following dialogue box. See Figure 4-34.

Figure 4-34
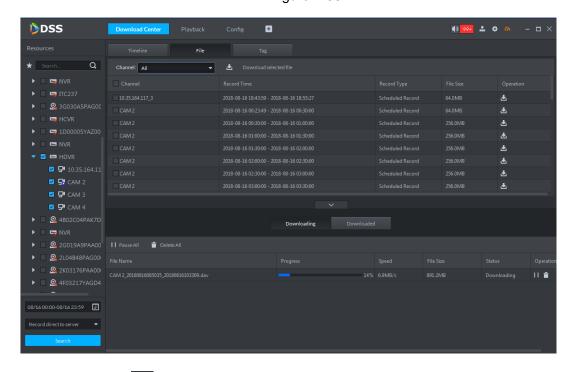
Step 3   Select time range and then select record file format.

There are five file formats: dav, avi, mp4, flv and asf.

Step 4   Click OK. System begins downloading record file. See Figure 4-35.

During the download process, you can pause/resume/delete download.

Figure 4-35

4.3.4.2 Download by File
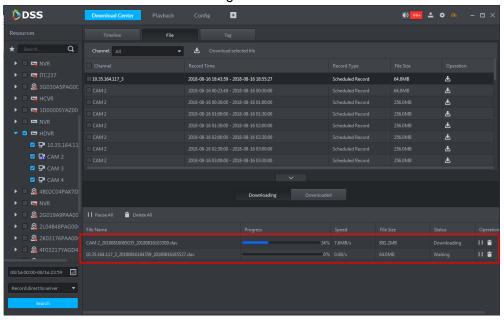
Step 1   After searching record file, click File tab.

System displays record file by list. See Figure 4-36.

Figure 4-36

Step 2   Click the ![icon] of the record file, it is to download one file. Or you can select several

record files at the same time, and then click the ![icon] at the top to download at the

same time.

The process status is shown as in Figure 4-37. You can pause/resume/delete download file(s) according to the actual requirements.

Figure 4-37

4.3.4.3 Tag Record
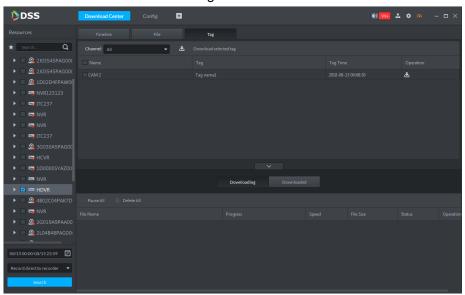
When system is playing back the record file, move the mouse to the window and then click

 to mark the tag. Only the tag record is displayed on the tag record file list.

Step 1   After searching the record file, click Tag tab.
System displays tag file. See Figure 4-38.

Figure 4-38
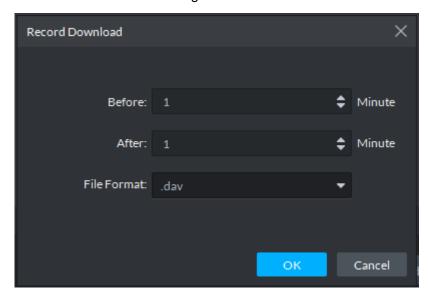
Step 2   Click the of the record file, it is to download one file. Or you can select several
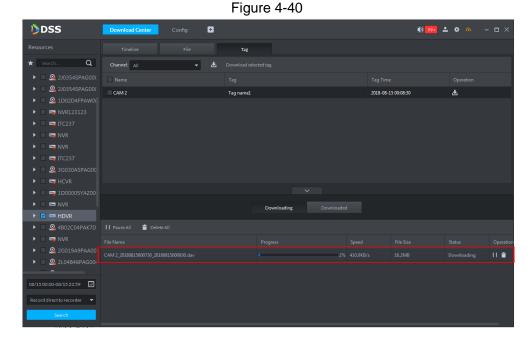
record files at the same time, and then click the at the top to download at the

same time.
The record download interface is displayed. See Figure 4-39.

Figure 4-39

Step 3   Select the time period before and after the tag. Select the file format.
Step 4   Click OK to download. System begins downloading record files. See Figure 4-40.
During the download process, you can pause/resume/delete download process.

Figure 4-40
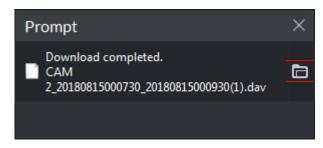
4.3.5 Download Manager

4.3.5.1 Download Completed

After the download is complete, system automatically pops up a dialogue box at the right
bottom corner. See Figure 4-41. Click the folder icon to view the downloaded record files.

Figure 4-41

4.3.5.2 Pause/Resume Download

On download tab, click [| | Pause All] to pause all download tasks. Click [II] to pause one download task. If you want to resume download, click the corresponding icon.

4.3.5.3 Delete Download Task

On Downloading tab, click [Delete All] to delete all download tasks. Click [🗑] to delete a download task.
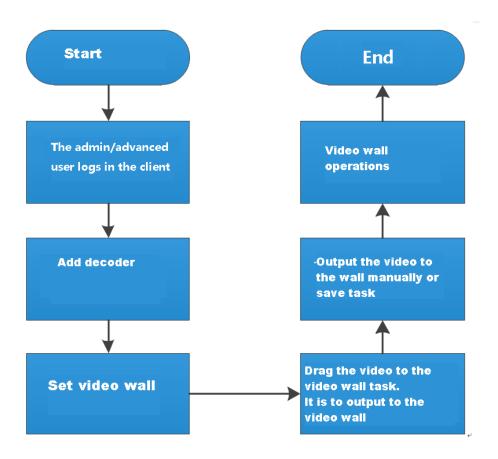
4.4 Output Video to the Wall

It is to output the device video signal to the corresponding window of the TV wall. You can view the signal video on the screen.

4.4.1 Function Flows

It is to output video to the video wall. Refer to Figure 4-42 for more details.

Figure 4-42
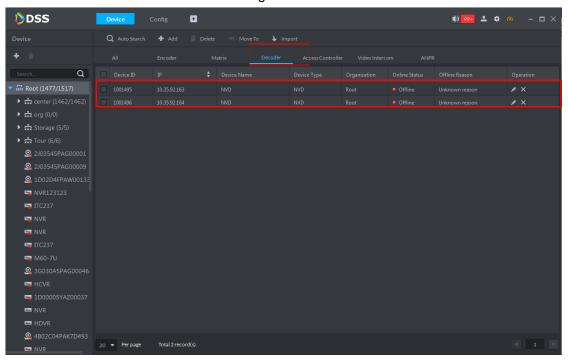
The above business flows are for reference only. You can skip some steps according to your actual situation.

4.4.2 Adding Decoder

On the device management interface, you can create device organization tree and add the corresponding decoder. Right now, system supports decoder (NVD), matrix device (M60/M70-E/M70-D) and video wall (DSCON3000/DSCON1000，DSCON1000(so called M30)). Refer to chapter 3.7 Device management for more details.

After adding the decoder, system automatically generates decoder interface. You can view decoder information on current tab. See Figure 4-43.

Figure 4-43

4.4.3 Go to Video Wall

Please set a video wall task first if you want to see a task after you enter the interface.

On the function pane, click Video wall, the video wall interface is displayed. See Figure 4-44. Refer to Table 4-5 for more details.

Figure 4-44
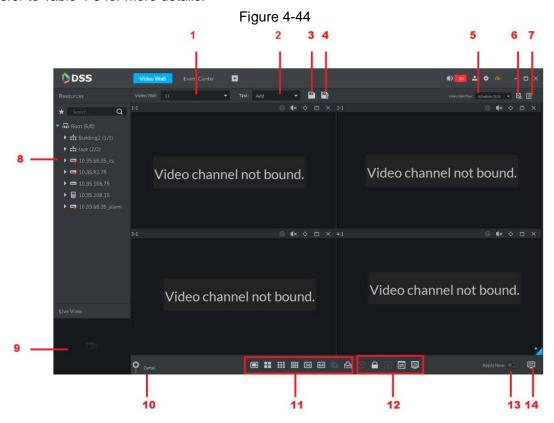
Table 4-5

SN	Name	Function
1	Video wall	Click the dropdown list to add or select video wall plan.
2	Task	Click the dropdown list to add or select a task.
3	Save task	Click to save current video wall setup as a task.
4	Save as task	Click to save current video wall setup as another task.
5	Video wall task	Select a task and then click to output the video to the video wall. Click to stop outputting the video to the video wall.
6	Start/stop task	
7	Video wall task	Click the icon, add/modify/delete/enable video wall task and video wall tour task.
8	Device organization tree	It is to display device organization node, device channel information, etc.
9	Preview	It is to display channel real-time video.
10	Detail	Click the icon; it is to display the video channel information of current window. You can set interval time, bit stream type, preset and display sequence.
11	Window adjustment	It is to set video wall display window. ● : 1-split. ● : 4-split. ● : 9-split ● : 16-split ● : Select other split mode, or customized split mode.
12	Screen/video wall control	● : Clear all binding video channel on the screen. ● /: Enable/disable all tours. ● : Once system is open a window on the splicing screen, all windows are locked if you select to lock the window. ● : Add frame to the window. ● : On the decoded window of the video wall to display the real-time video from the corresponding channel. ● : Enable/disable some(all) screens of the decode matrix.
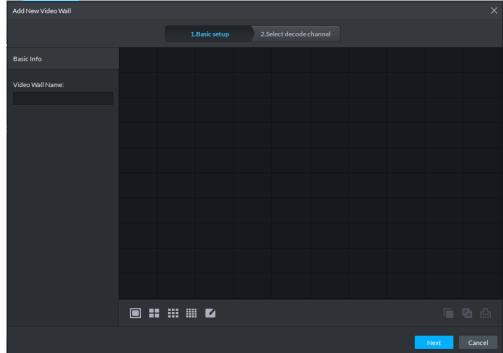
SN	Name	Function
13	Apply Now	Click to output the video to the wall immediately. When system is outputting video to the wall by schedule, the system automatically stops Apply now function.
14	Output to the wall	You changed the binding video channel when system is outputting the video to the wall; you need to click the icon to output again.
15	Eagle eye	When you are setting channels to output to the video wall, you can click the icon to view details of the video wall if the screen amount is too much.

4.4.4 Adding Video Wall
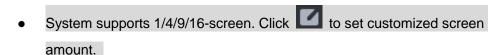
It is to create video wall and bind the decoded channel on the screen.

Step 1   Select Video wall dropdown list, and then select Add new video wall.

Add new video wall interface is displayed. See Figure 4-45.

Figure 4-45

Step 2   Input video wall name and then select screen amount at the bottom of the interface. Click any place on the screen to add.

- System supports 1/4/9/16-screen. Click [icon] to set customized screen amount.
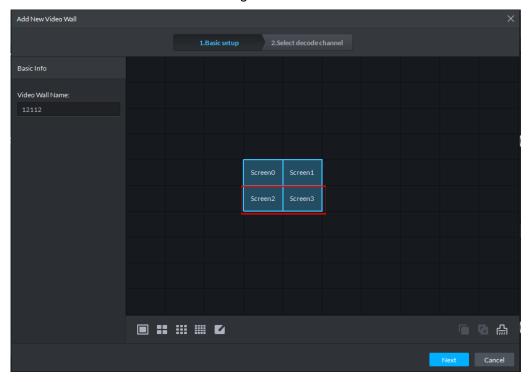
- Click [icon] to delete current screen setup and then add again.

Step 3   （Optional）Press【Shift】button and then select several screens , click [icon] to set as splicing scene. See Figure 4-46.

- Skip the above step if you do not want to set splicing screen.

- Select a splicing screen and then click to cancel the splicing video wall setup.
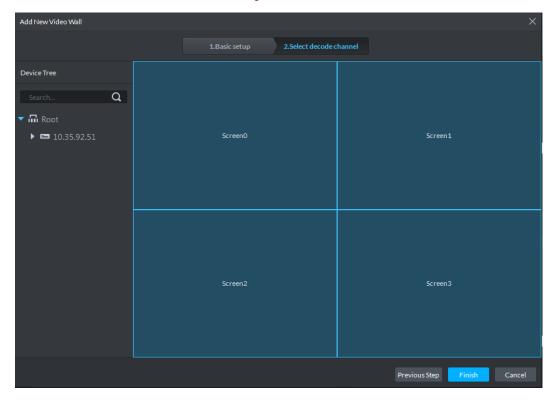
Figure 4-46

<u>Step 4</u> Click Next.

The select decode channel interface is displayed. See Figure 4-47.

Figure 4-47
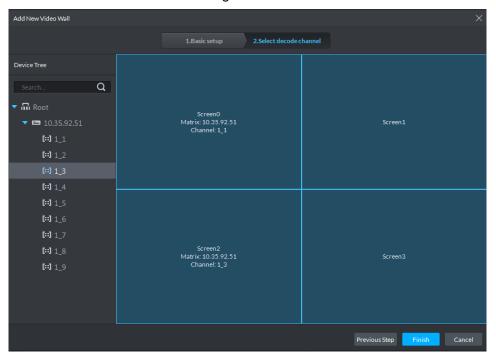
Step 5 Drag the decoded channel on the left to the screen on the right to bind. See Figure 4-48.

📖
- Each screen of the splicing wall shall bind a decoded channel.
- One video wall can bind several decoded channels.

Figure 4-48

Step 6 Click Finish. The adding video wall process is complete.

4.4.5 Outputting Video to the Wall

System can output video to the wall according to task, apply manually or by schedule plan.

4.4.5.1 Apply Now (Manually Outputting)
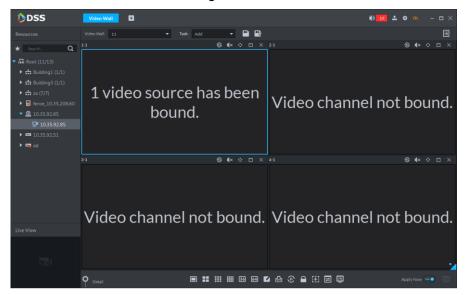
It is to drag the video channel to the video wall so that to output the video to the wall.

Step 1 Select a video wall from dropdown list.

Step 2 Click Apply Now to output the video to the wall immediately.
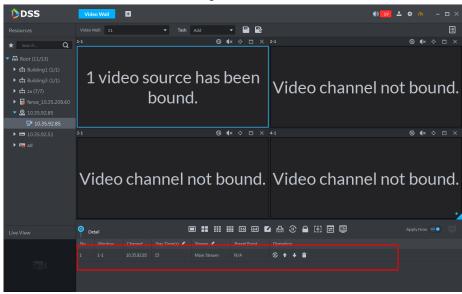
Step 3 Drag the video channel on the left to the screen on the right to bind. See Figure 4-49.

Figure 4-49

Step 4 Select a screen and then click the Detail button at the bottom of the interface. System displays channel setup interface. See Figure 4-50. It is to view screen binding channel information. At the same time, you can set the each channel stay period, bit stream type, preset and display sequence, etc.

- Click ⬦, it is to open real-time video of current channel.

- When there are several binding channels, click ⬆/⬇ to adjust video channel display sequence.

- Click 🗑 to delete video channel.

Figure 4-50

4.4.5.2 Output Task to the Wall

It is to save current video wall setup as task. Next time, you can select the task to output the corresponding video to the video wall directly.

Step 1 From the Task dropdown list, select Add.

Step 2 Drag the video channel on the left to the screen on the right.
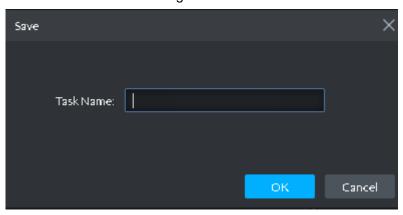
Step 3 Click 。

The Save interface is displayed. See Figure 4-51.

If you have selected a task, drag the video channel to bind and then click , it is to save it as another task.

Figure 4-51
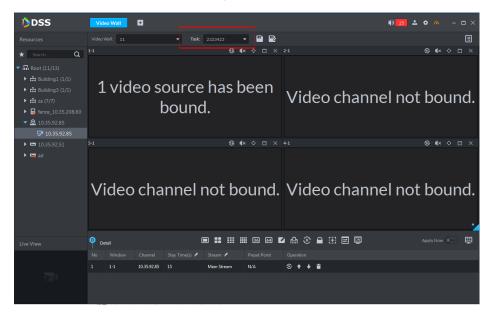
Step 4 Input task name and then click OK.

System automatically outputs current task to the video wall. See Figure 4-52.

- If you have selected a task, drag the video channel to bind and then click , it is to save it as another task. The newly saved task will be output to the wall automatically.

- After outputting the task to the video wall, you can click at the bottom right corner to manually output video to the wall if you have changed the binding video channel.

- After outputting the task to the video wall,, click / at the bottom, you can enable/disable tour.

Figure 4-52

Step 5 Select a screen and then click Detail.

It is to view screen binding channel information. At the same time, you can set the each channel stay period, bit stream type, preset and display sequence, etc.

● Click ![icon], it is to open real-time video of current channel at the bottom left corner.

● When there are several binding channels, click ![icons] to adjust video channel display sequence.

● Click ![icon] to delete video channel.

4.4.6 Configuring Video wall Plan

The video wall plan is to set several video wall tasks together according to their working time and length.

Click the ![icon] at the top right corner, the video wall plan interface is displayed. See Figure 4-53. You can set schedule plan and tour plan according to actual requirements.

● Schedule plan: It is to set start time/end time of each task. If the specified task is not for one day (24 hours), you can set to run other task.

● Tour plan: It is to set the interval of each task and sequence of the tasks. System outputs these tasks repeatedly.

Figure 4-53

4.4.6.1 Adding Schedule Plan

<u>Step 1</u> Move the cursor to the and then select Schedule. See Figure 4-54.
The Schedule plan interface is displayed. See Figure 4-55.

Figure 4-54
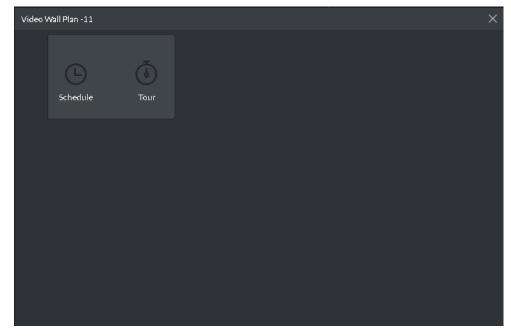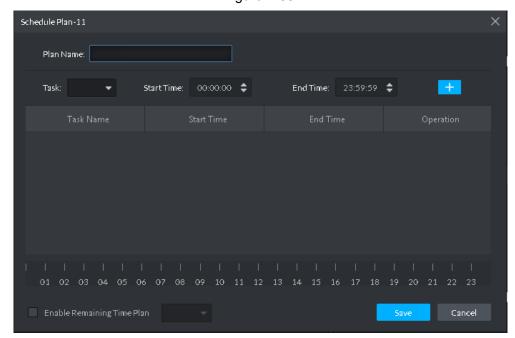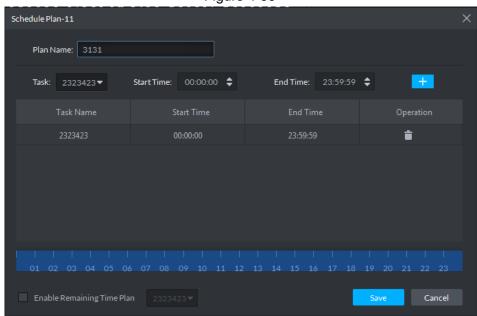
Figure 4-55

Step 2 Input a plan name.

Step 3 Select a task and then input task start time/end time. Click + to add to the list.
Repeat the above operations to add more tasks. Make sure the start time/end time of
each task is not the same. See Figure 4-56.

If the specified task is not for one day (24 hours), you can check the box to enable
remaining time plan at the bottom left corner to run other task.

Figure 4-56
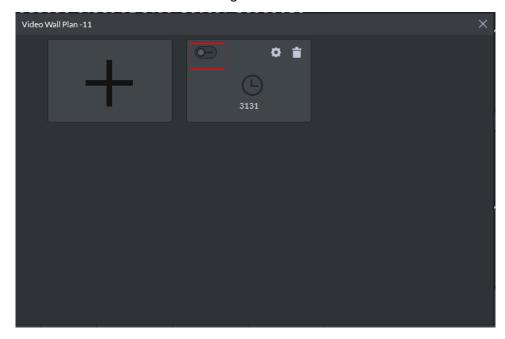
Step 4 Click Save to complete the adding process.

Step 5 On the plan list, click ▢ to output the video by schedule plan. See Figure 4-57.

● Cannot output video of several plans to the video wall at the same time. Once
one plan is valid, the previous one is null.

- Click to modify plan.

- Click to delete plan.
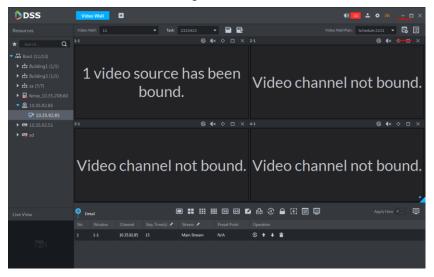
Figure 4-57

When the video wall plan is working, click to stop current plan. See Figure 4-58.

The icon becomes , click to output the video to the wall again. If you want to use another video wall plan, go to the schedule list to enable other plan.

Figure 4-58

4.4.6.2 Adding Tour Plan

Step 1 Move the cursor to the + and then select tour. See Figure 4-59.
The tour plan interface is displayed. See Figure 4-60.

Figure 4-59
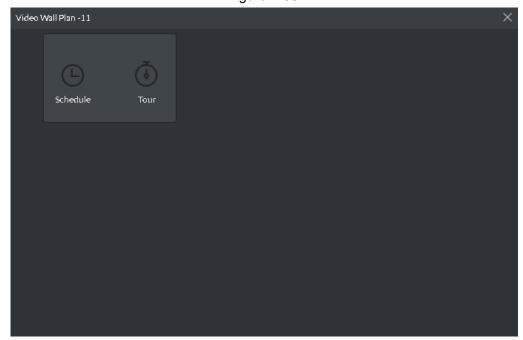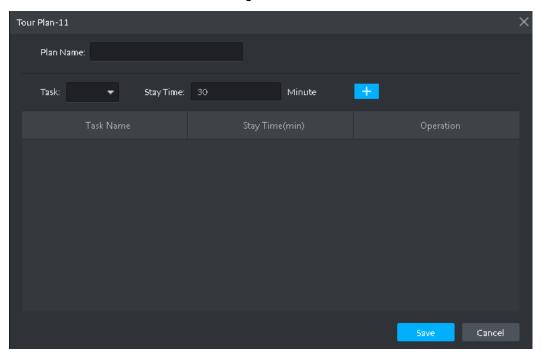
Figure 4-60

<u>Step 2</u> Input a plan name.
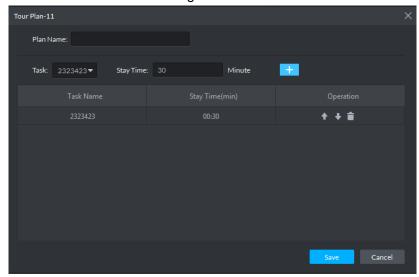
<u>Step 3</u> Select a task, input interval, click + to add to the list.

Repeat the above steps to add more tasks. See Figure 4-61.

Click ⬆/⬇， it is to adjust task display sequence.
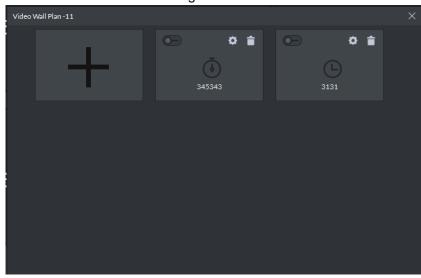
Step 4 Click Save to complete adding process.

Step 5 On the plan list, click [icon] to output the video by tour plan. See Figure 4-62.

- Cannot output video of several plans to the video wall at the same time. Once one plan is valid, the previous one is null.

- Click [icon] to modify plan.

- Click [icon] to delete plan.

Figure 4-62

When the video wall plan is working, click [icon] to stop current plan. See Figure 4-63

The icon becomes [icon], click to output the video to the wall again. If you want to use another video wall plan, go to the schedule list to enable other plan.

Figure 4-63

4.5 Access Control

Carry out remote control of access control (A&C) devices; support door group authorization and unlock rule setup.

4.5.1 Function Flows

To realize access control, please complete the following flow. See Figure 4-64.

Figure 4-64

4.5.2 Adding Access Control Device

At **Device** interface, set up device tree and add access control devices. Please refer to chapter 3.7 Device Management" for more details. After adding, **Device** interface generates **Access Control** tab automatically, which displays access control device info. See Figure 4-65.
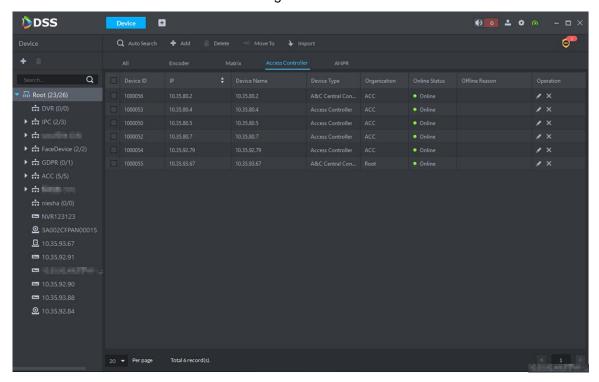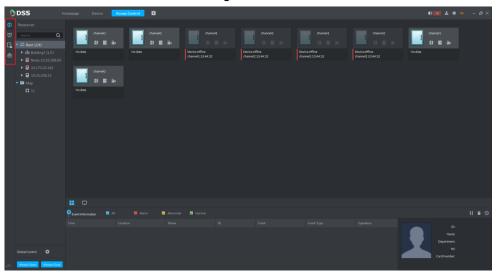
Figure 4-65

4.5.3 Entering Access Control Interface

At function zone, click **Access Control** to enter access control interface. See Figure 2-6. Click tabs in the left, to enter corresponding setting interface.

Figure 4-66
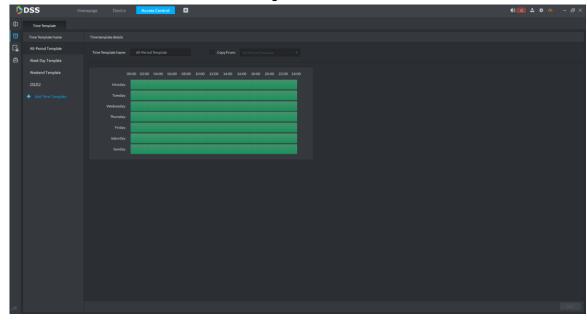
4.5.4 Adding Time Template

Step 1 Click in the left of **Access Control** interface.

The system displays **Time Template** interface. See Figure 4-67. Default time template includes all-period template, week day template and weekend template.
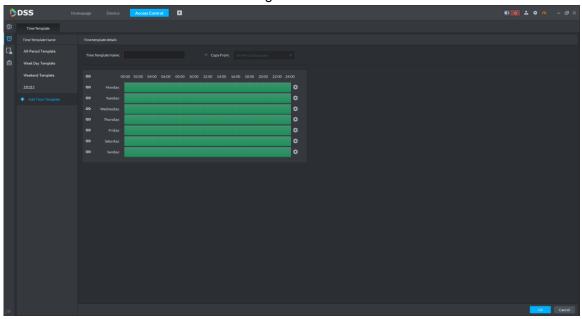
Figure 4-67

Step 2 Click **Add Time Template**.
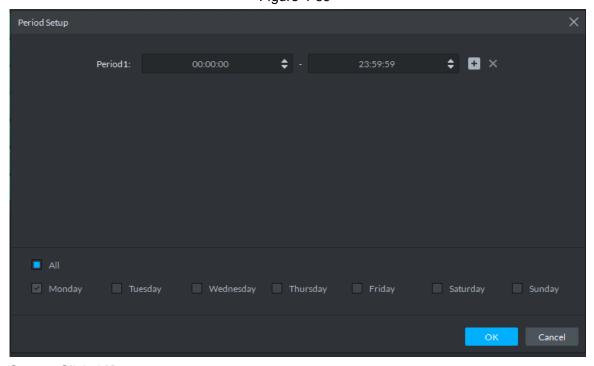
The system displays **Time template details** interface. See Figure 4-68.

Figure 4-68

Step 3 Enter time template name and set the time in three ways.

- Tick **Copy from**, select existing default template and copy time from the default template.
- Drag the time axis with mouse directly. If the time has been set, an eraser will be displayed, which will erase the time at the dragged position. Otherwise, a pen will be displayed, which will add the time at the dragged position.
- Click [icon]. See Figure 4-69. Set period and week, click [icon] to add multiple periods, or click [icon] to delete them. On completion, click **OK**, save and return to **Time template details** interface.
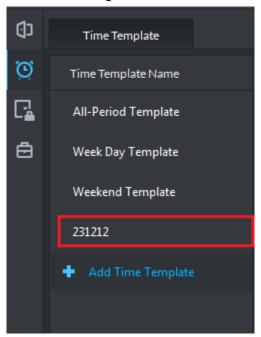
Figure 4-69

Step 4 Click **OK**,

A time template has been added. See Figure 4-70.

Figure 4-70
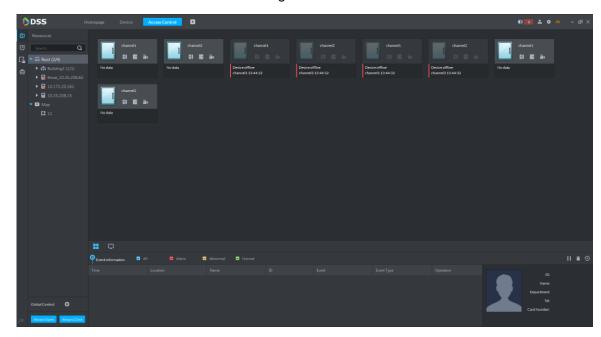
4.5.5 Configuring Access Control Channel

Set channel parameter and bind video.

Step 1   Click ![icon] in the left of **Access Control** interface.

The system displays **Console** interface. See Figure 4-71.

Figure 4-71

Step 2   In the left device tree, click right mouse button on a channel, and select **Door Configuration**. See Figure 4-72.

The system displays **Door Configuration** interface. See Figure 4-73.

Figure 4-72
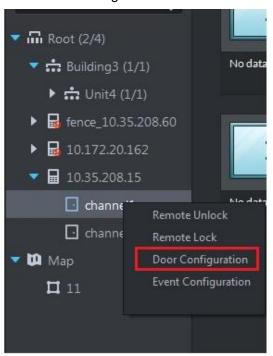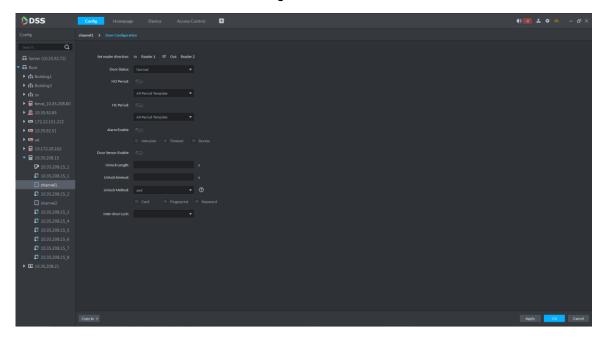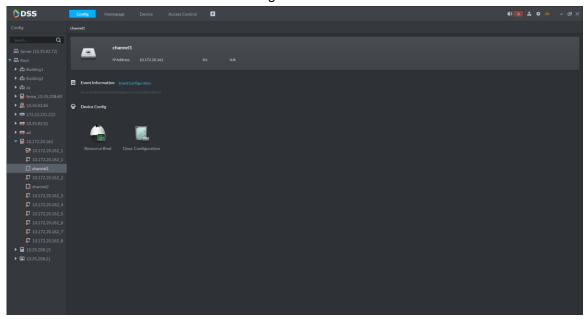
Figure 4-73

Step 3 According to actual conditions, set reader direction, door status, NO/NC period, alarm enable, door sensor enable, unlock length, unlock timeout, unlock method and inter-door lock.

Step 4 Click **OK** to save the settings.

Switch to **Config** interface. See Figure 4-74. Click **Copy to**, so this parameter config can be applied to other channels.
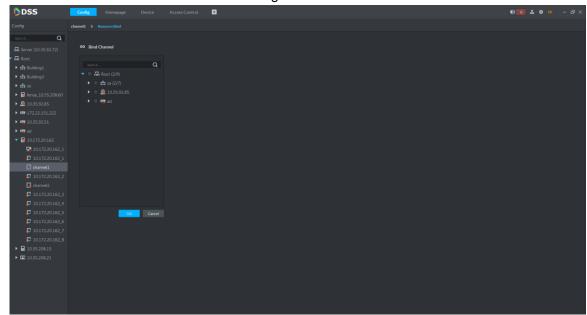
Figure 4-74

Step 5 Click **Resource Bind**.

The system displays **Resource Bind** interface. See Figure 4-75.

Figure 4-75

Step 6 Select a video channel and click **OK**.
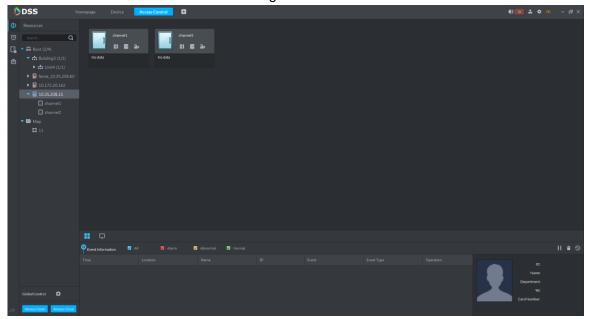
4.5.6 Console Operation

4.5.6.1 Channel Control

Control the doors to be open or closed.

Click in the left of **Access Control** interface. In the left device tree, click right mouse button on a channel. See Figure 4-76.

Figure 4-76

- When a door is closed, click to open it. See Figure 4-77. After certain period (which is set in config. It is 5 seconds by default. It is 10 seconds in this example), the door will be closed automatically, and a record is generated in Event Information column. See Figure 4-78.

Figure 4-77
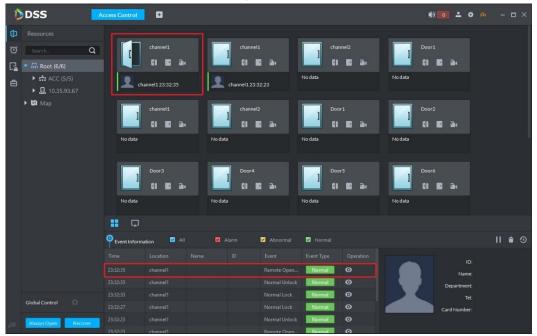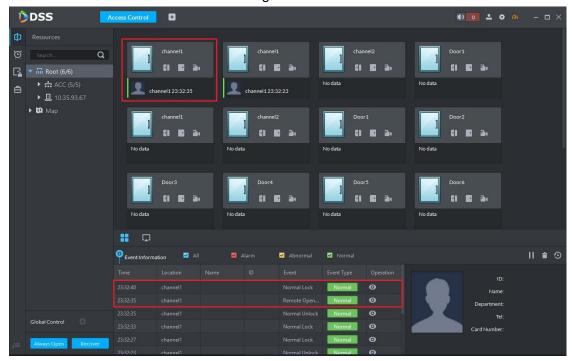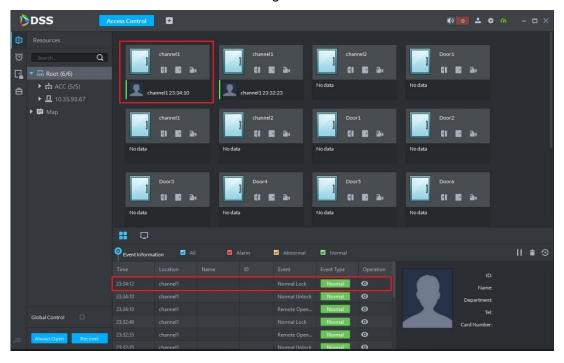
Figure 4-78

● When a door is open, click ▣ to close it. See Figure 4-79.

Figure 4-79

● Click ▣ᵢ, preview video channel that is bonded with this channel. See Figure 4-80.

Card swiping info can be overlaid on the video.

Figure 4-80

4.5.6.2 View Event Information

Click ⊙ in event list, and view details about this event, including event information, real-time video, snapshot and recording.

📖

- The access control channel shall bind video channel in door config, in order to view real-time video.
- Select to configure linkage video in plan management, in order to generate snapshot and recording. Please refer to "4.5.6.4 Plan Management" for more details.

Figure 4-81

4.5.6.3 Global Control

Select one or multiple channels to be always open, always close and restore to normal.

<u>Step 1</u> At the lower left corner of **Console** interface, click ![gear icon].

The system displays **Access control global control** interface. See Figure 4-82.

Figure 4-82

<u>Step 2</u> Select channels for global control, and click **OK**.

● If all doors are closed, click "Always Open" and enter password. See Figure 4-83.
    Click "OK" to open all doors of the selected channel. See Figure 4-84.

Figure 4-83
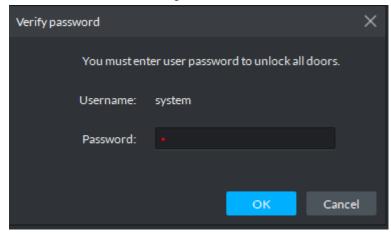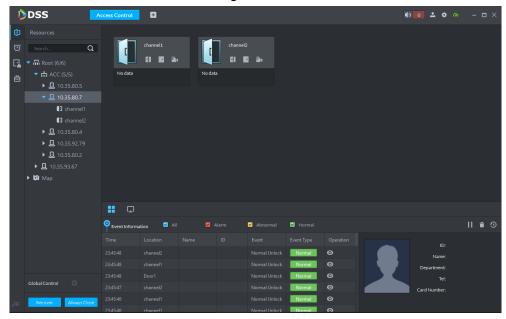
Figure 4-84

- If all doors are open, click "Always Close" and enter password. See Figure 4-83. Click "OK" to close all doors of the selected channel.

📖

Doors that are opened in global control won't be closed at the set time, but shall be closed by clicking "Recover" or "Always Close" manually.

Step 3 Click "Recover" to exit global control.

4.5.6.4 Plan Management

Configure alarm event of access control channel, including alarm type, priority, time template, link PTZ, link video, link snapshot & recording, link alarm output, Email and link AC to be always open or always closed.

⚠️
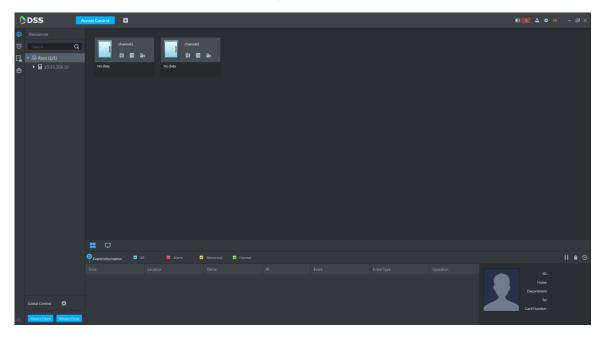
In link config, every alarm type shall be configured independently.

Step 1 Click [icon] in the left of **Access Control** interface.

The system displays **Console** interface. See Figure 4-85.

Figure 4-85

Step 2 In the left device tree, click right mouse button on a channel, and select **Event Configuration**. See Figure 4-86.

The system displays **Event** interface. See Figure 4-87.

Figure 4-86
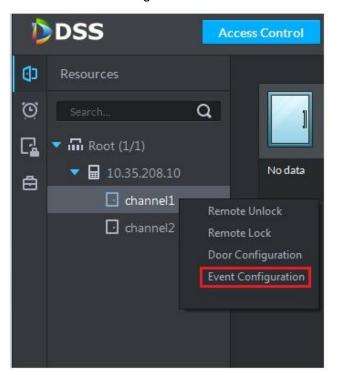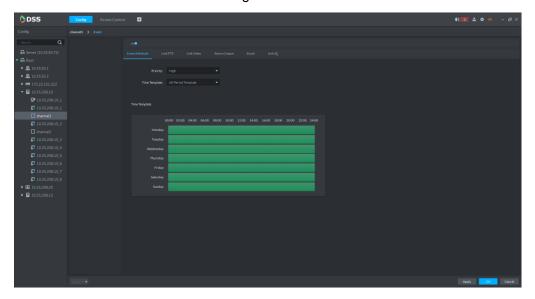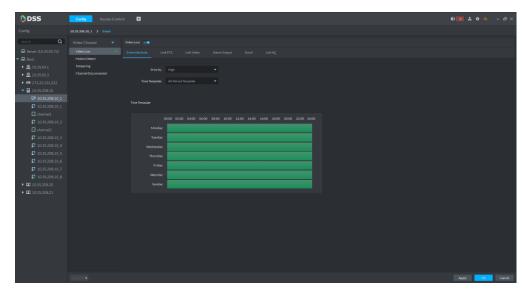
Figure 4-87

Step 3 Select alarm event type, click [image] to enable the event, and the switch turns to
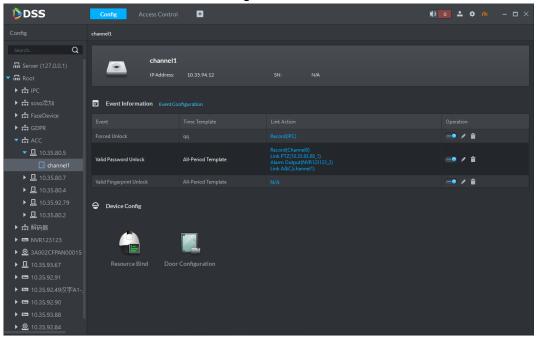
[image] . In the left list, this alarm event type displays [image] . See Figure 4-88.

Figure 4-88

Step 4 Refer to "3.9.2.1.1 Configuring Event Attribute" to "3.9.2.1.6 Configuring Link AC", configure event attribute, link PTZ, link video, alarm output, Email and link AC. On completion, event info is displayed. See Figure 4-89.

Figure 4-89

4.5.7 Door Group Setting

Door group and door rule can be configured according to the user's needs.

4.5.7.1 Door Group
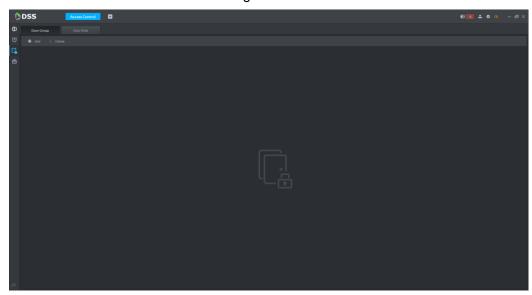
Set up a group of multiple doors.

Step 1   Click in the left of **Access Control** interface to enter door group management interface.

Step 2   Click **Door Group** tab.

The system displays **Door Group** interface. See Figure 4-90.
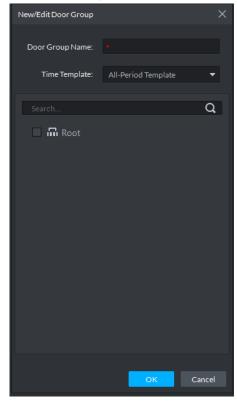
Figure 4-90

Step 3 Click **Add**.

The system displays **New/Edit Door Group** interface. See Figure 4-91.

Figure 4-91
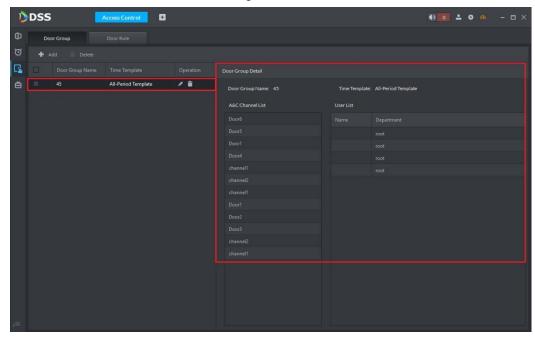
Step 4 Enter door group name; select time template and channel.

Step 5 Click **OK** to finish.

See Figure 4-92. Select a door group, and the bonded channel and user list are displayed in the right.

If the door group hasn't been authorized and bonded by user, there will be no user info in the user list.

Figure 4-92

4.5.7.2 Add User

Add user info and issue card. Please refer to "4.6 Personnel Management" for details.

4.5.7.3 Door Rule

It is to bond users with door groups in order to authorize them.

⚠️
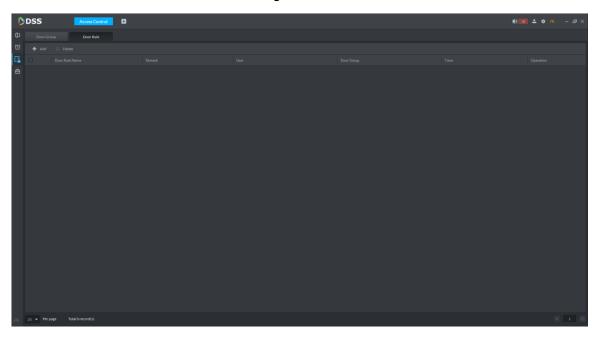
If door groups have been authorized when adding users, it is unnecessary to add again in door rule.

Step 1 Click ![icon] in the left of **Access Control** interface to enter authority management interface.

Step 2 Click **Door Rule** tab.

The system displays **Door Rule** interface. See Figure 4-93.

Figure 4-93

Step 3 Click **Add**.
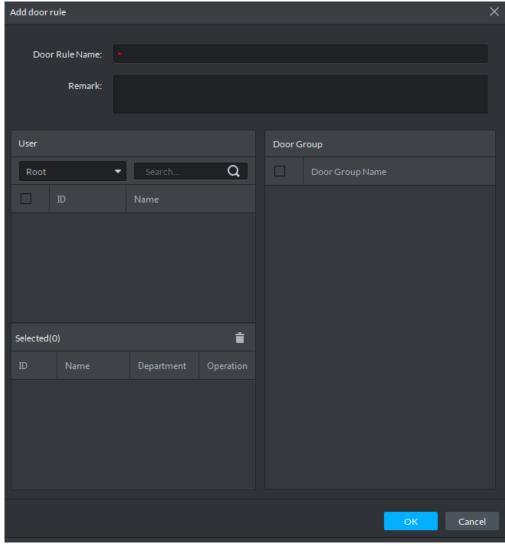
The system displays **Add door rule** interface. See Figure 4-94.

Figure 4-94

Step 4 Select user and door group.
Step 5 Click **OK** to finish.

4.5.8 Advanced Function

4.5.8.1 First Card Unlock
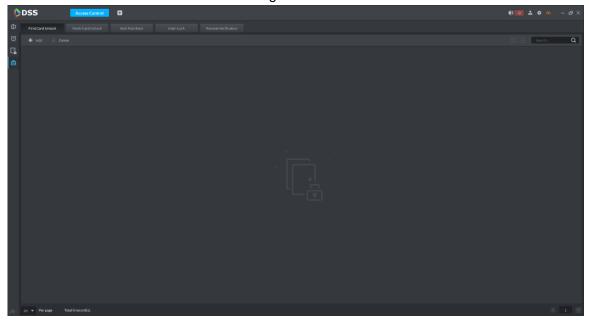
After configuring first card unlock, other cards can be swiped to unlock the door, only after the first card is swiped. If multiple first cards are configured, other cards can be swiped to unlock the door, as long as one first card is swiped.

Step 1 Click [icon] in the left of **Access Control** interface to enter advanced function interface.

Step 2 Click **First Card Unlock** tab.
        The system displays **First Card Unlock** interface. See Figure 4-95.
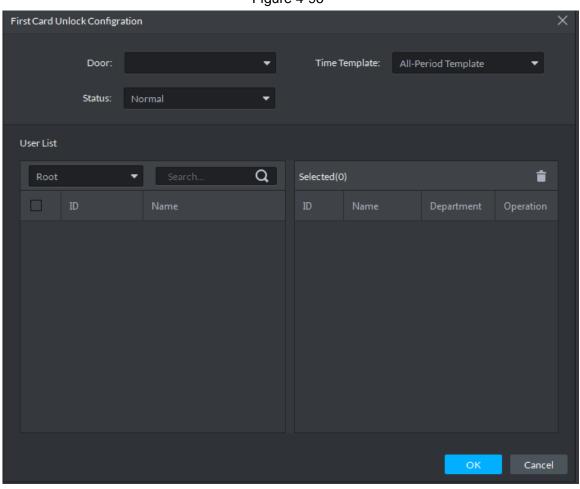
Figure 4-95

Step 3 Click **Add**.
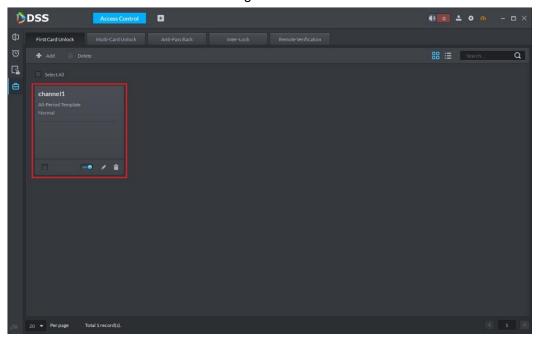
The system displays **First Card Unlock Configuration** interface. See Figure 4-96.

Figure 4-96

Step 4 Select door, time template, status and user.

Step 5 Click **OK** to add the first card. See Figure 4-97.
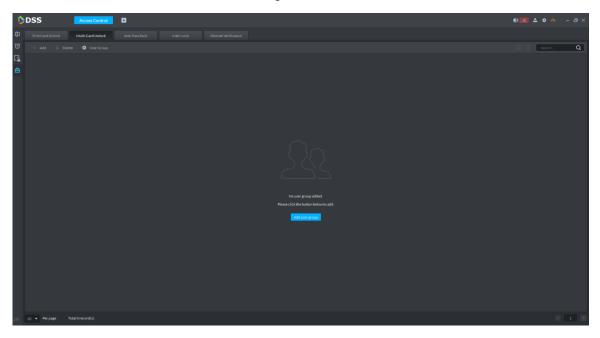
Figure 4-97

4.5.8.2 Multi-card Unlock

One door can be unlocked after multiple groups of users swipe cards according to group sequence. Moreover, each group has set valid quantity; as long as valid unlocking quantity is reached, the door can be unlocked. Max. 4 groups can be selected, and max. valid quantity of user is 5.

Step 1 Click ![icon] in the left of **Access Control** interface to enter advanced function interface.

Step 2 Click **Multi-card Unlock** tab.
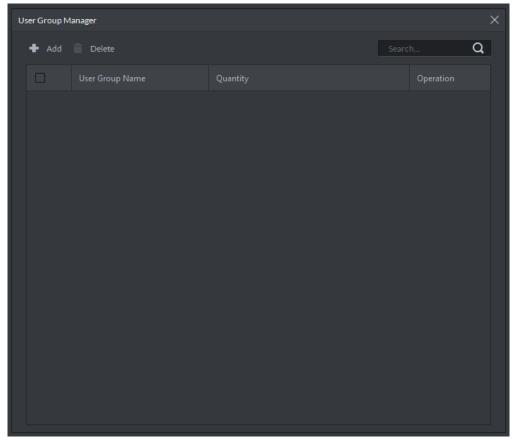
The system displays **Multi-card Unlock** interface. See Figure 4-98.

Figure 4-98
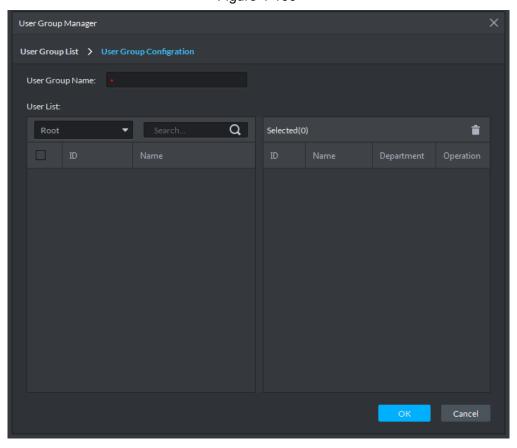
Step 3 Click Add user group.

The system displays **User Group Manager** interface. See Figure 4-99.

Figure 4-99

Step 4 Click **Add**.

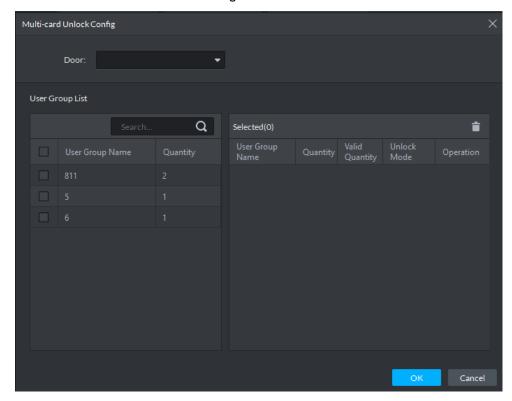The system displays **User Group Configuration** interface. See Figure 4-100.

Figure 4-100

Step 5 Set group name, select users and click **OK** to create user group.
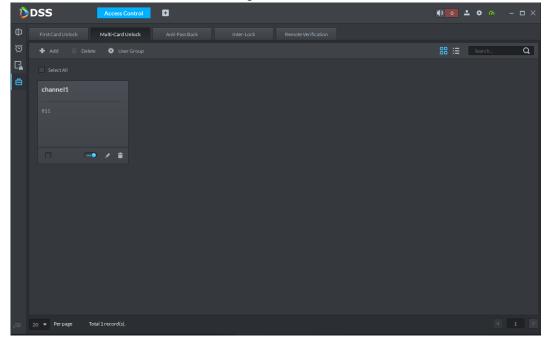Return to **Multi-card Unlock** interface.

Step 6 Click **Add**.
The system displays **Multi-card Unlock** interface. See Figure 4-101.

Figure 4-101

Step 7 Select door and user group; adjust group sequence, valid quantity, unlock mode (card, password and fingerprint), and click OK to finish. See Figure 4-102.

Figure 4-102

4.5.8.3 Anti-Pass Back

Set unlock route for one person/multiple persons, who can unlock only according to the preset group sequence.
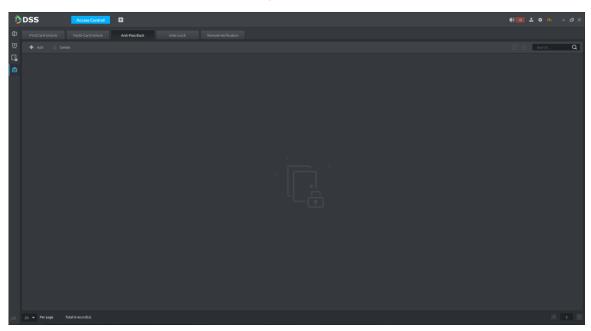
After 1, 2 and 3 anti-pass back have been set, anti-pass back alarm will be triggered if 1 is swiped and followed by 3 (after ordinary access alarm, the door can still be unlocked in sequence). The door cannot be unlocked even if 1, 2 and 3 are swiped, until the card is swiped after the reset time.

Step 1 Click ![icon] in the left of **Access Control** interface to enter advanced function interface.

Step 2 Click **Anti-pass Back** tab.
The system displays **Anti-pass Back** interface. See Figure 4-103.
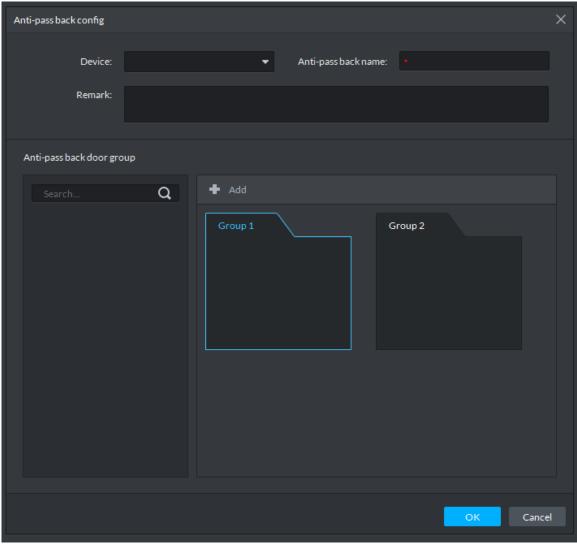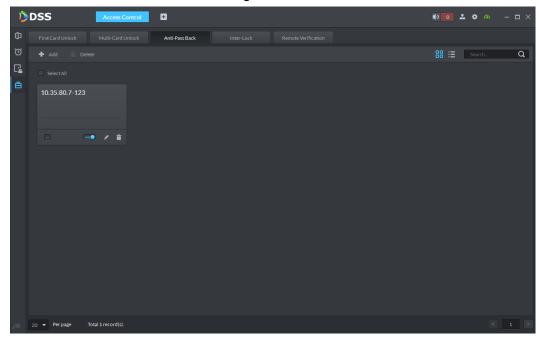
Figure 4-103

Step 3 Click **Add**.
The system displays **Anti-pass back config** interface. See Figure 4-104.

Figure 4-104

Step 4 Select device and enter the anti-pass back name.
Step 5 Click **Add** to set group quantity.
Step 6 Select group and reader, to bond them.
Step 7 Select user (support multiple choice), and click OK to finish adding the anti-pass back
plan. For list display, see Figure 4-105.

Figure 4-105

4.5.8.4 Inter-lock

Ordinary access owns inter-lock in the group, whereas master controller owns inter-lock among groups.

- Ordinary access: if one door is opened in the inter-lock group, other doors cannot be opened.
- Master controller: channels in the groups are not affected by inter-lock; all of them can be opened. However, as long as any one channel of one group is opened, channels of other groups cannot be opened.

Take master controller for example.

Step 1 Click ![icon] in the left of **Access Control** interface to enter advanced function interface.

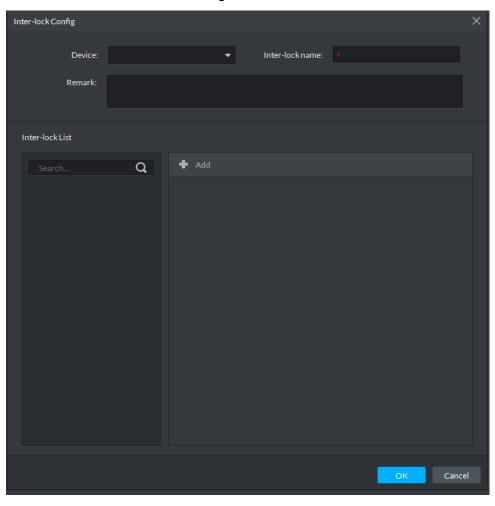Step 2 Click **Inter-lock** tab.

The system displays **Inter-lock** interface. See Figure 4-106.
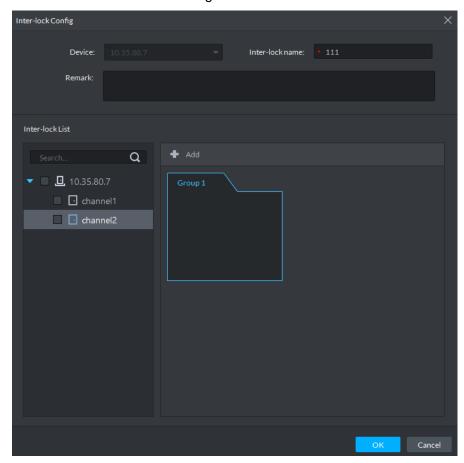
Figure 4-106

Step 3 Click **Add**.

The system displays **Inter-lock Config** interface. See Figure 4-107.

Figure 4-107

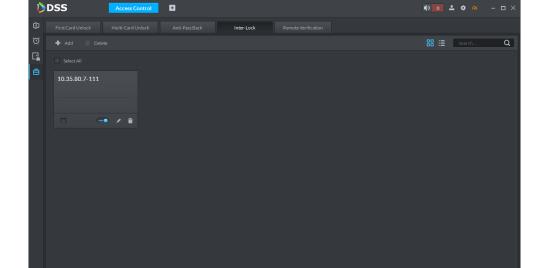Step 4 Select device; enter inter-lock name and remark.

The system displays inter-lock list and group. See Figure 4-108.

Figure 4-108

Step 5 Select group and then select access control channel. Add channels in each group.

If 2 default groups fail to meet needs, please click **Add** to add more groups.

Step 6 Click **OK** to finish.

For successfully added plans, see Figure 4-109. It is enabled by default.

Figure 4-109

4.5.8.5 Remote Verification

Set remote verification device. When the user opens the door with card, fingerprint or password within the set time period, the user of platform client shall confirm in the pop-up confirmation box at the client, and then the door can be opened.

Step 1 Click [icon] in the left of **Access Control** interface to enter advanced function interface.

Step 2 Click **Remote Verification** tab.

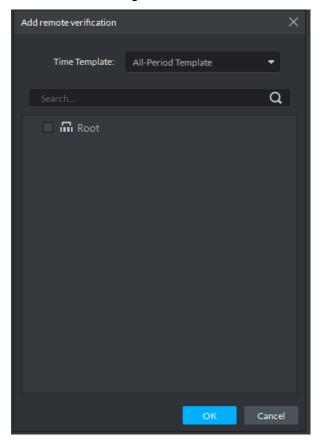The system displays **Remote Verification** interface. See Figure 4-110.

Figure 4-110

Step 3 Click **Add**.

The system displays **Add remote verification** interface. See Figure 4-111.
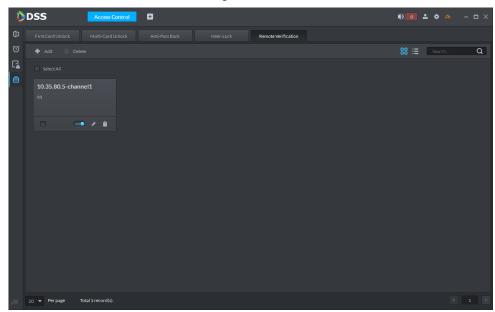
Figure 4-111

Step 4 Select remote verification time and channels that can be opened only after remote verification. Click **OK**.

For the added plan list, see Figure 4-112. Enabled and disabled status of each channel can be controlled independently.

Figure 4-112

Step 5 When a channel is opened with card, fingerprint or password, a dialog box will pop up at the client. See Figure 4-113. The user can select to open the door or ignore; the dialog box will be closed automatically after corresponding button is clicked.
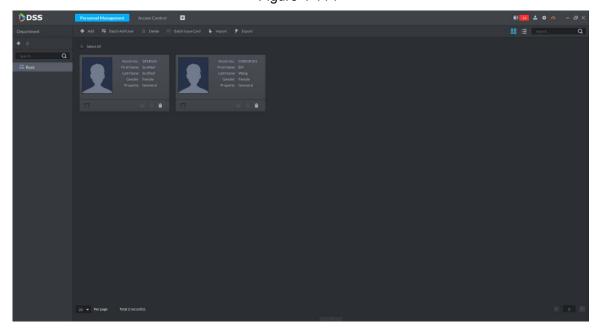
Figure 4-113

4.6 Personnel Management

Add personnel and details, support to issue card, fingerprint and private password.

4.6.1 Entering Personnel Management Interface

At function zone, click **Personnel Management** to enter the interface. See Figure 4-114.
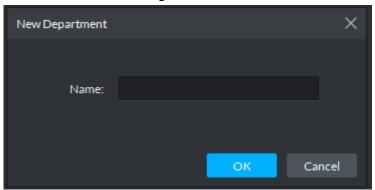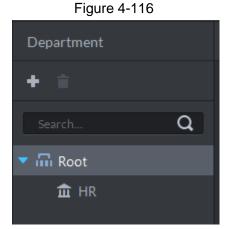
Figure 4-114

4.6.2 Add Department

Step 1   Select department node and click + in the left.

The system displays **New Department** interface. See Figure 4-115.
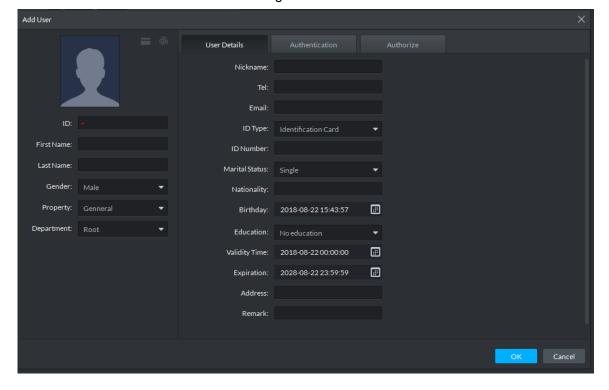
Figure 4-115

Step 2 Enter department name and click **OK** to finish. See Figure 4-116.

Figure 4-116

4.6.3 Add One User

Step 1 Click .

The system displays **Add User** interface. See Figure 4-117.

Figure 4-117

Step 2 Set user ID, name, gender, property and department info. Upload user's photo.
Photo supports jpg format, and pixel shall not exceed 640×480.
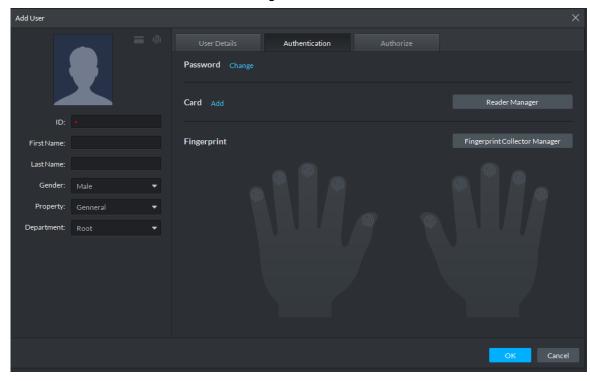
Step 3 Click **User Details** to set details.

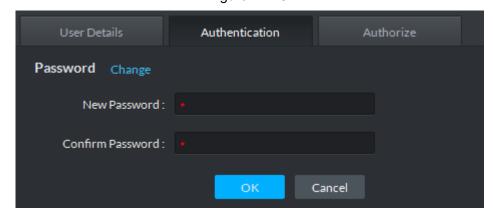When the property is Guest, card times shall be set at **User Details** interface.

Step 4 Click **Authentication**.
The system displays **Authentication** interface. See Figure 4-118.
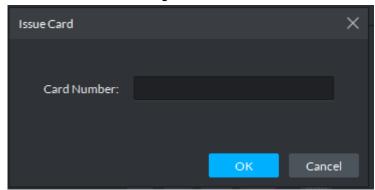
Figure 4-118

1) Click **Change**. See Figure 4-119. Change password and click **OK** to save.

Figure 4-119

2) Click **Add**. See Figure 4-120. Enter card number and click OK to save, or click **Reader Manager** to add a reader, and read card info via the reader.

Figure 4-120

Issue Card

Card Number:

OK   Cancel

3) Click **Fingerprint Collector Manager**, and select the device. See Figure 4-121. Select finger, click **Add Fingerprint**, put your finger onto the reader and collect fingerprint according to prompt. See Figure 4-122, Figure 4-123 and Figure 4-124.
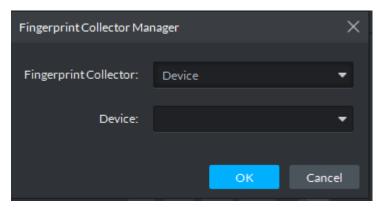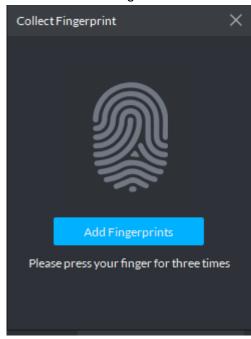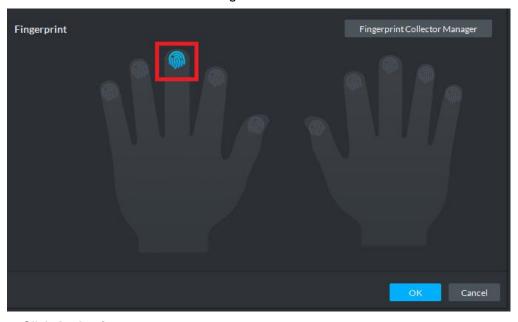
Figure 4-121

Fingerprint Collector Manager

Fingerprint Collector: Device

Device:

OK   Cancel

Figure 4-122

Collect Fingerprint

Add Fingerprints

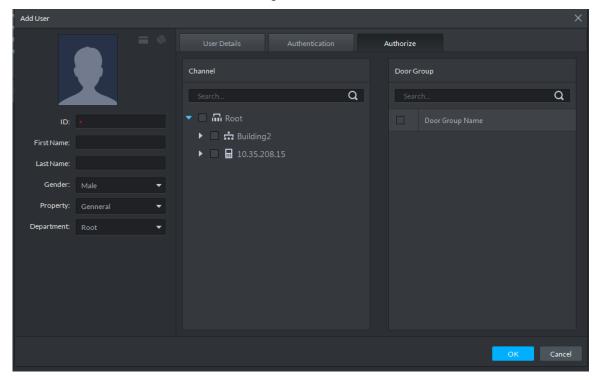Please press your finger for three times
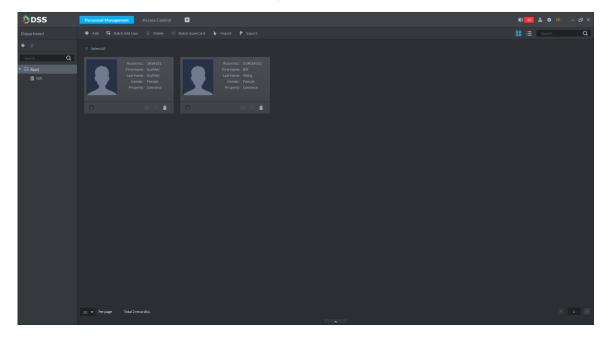
Figure 4-123

Figure 4-124

Step 5   Click **Authorize**.

The system displays **Authorize** interface. See Figure 4-125. Select authorized channel or door group. For door group setting, please refer to "4.5.7 Door Group Setting".

Figure 4-125

Step 6   Click **OK** to finish adding. See Figure 4-126.

Figure 4-126

4.6.4 Batch Add User

During batch adding, only card can be authorized, rather than password and fingerprint. If necessary, edit corresponding user authorization independently.
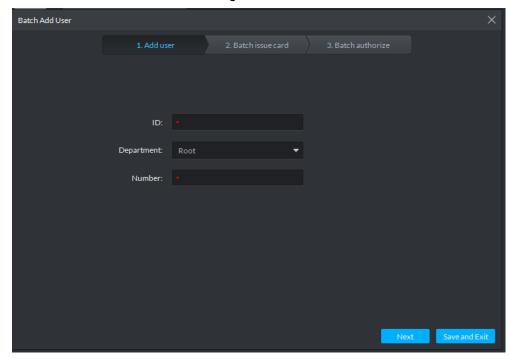
Batch adding is to add user, batch issue card and batch authorize. You can save and exit after any one operation is finished.

Step 1   Click ![Batch Add User] .

The system displays **Batch Add User** interface. See Figure 4-127.
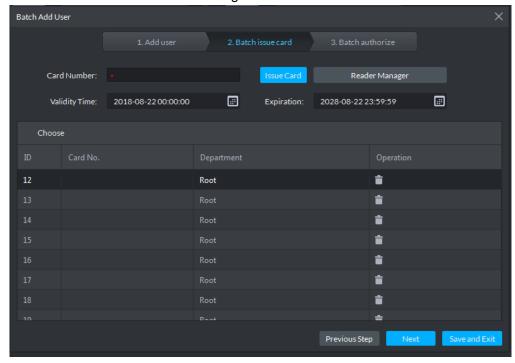
Figure 4-127

Step 2   Set user ID, department and number; click **Next**.

The system displays **Batch issue card** interface. Figure 4-128.
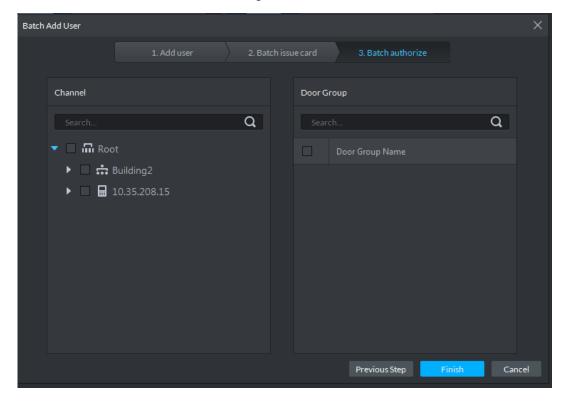
Figure 4-128

Step 3   Select user from the list, enter card number or read the card number via reader, and click **Issue Card**.

Repeat the operation, until all users' cards are issued.

Step 4 Set validity time and expiration, and click **Next**.

The system displays **Batch authorize** interface. See Figure 4-129.
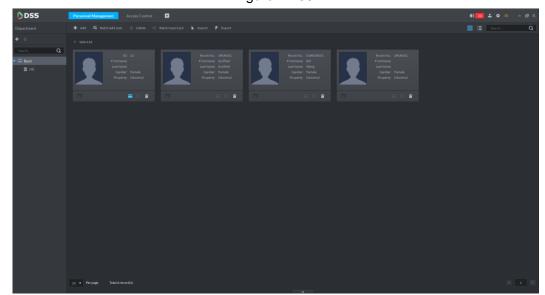
Figure 4-129

Step 5 Select authorized channel or door group, and click **Finish**. See Figure 4-130.

📖

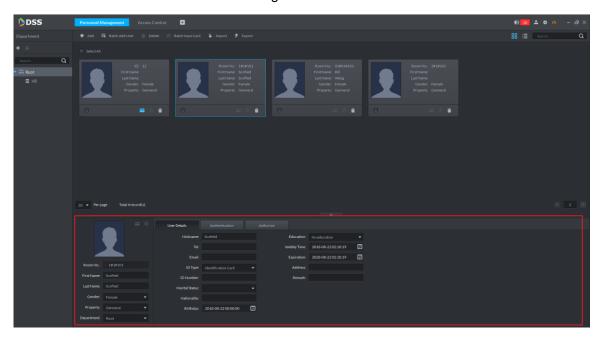If there is no door group, please add door group by reference to "4.5.7 Door Group Setting".

Figure 4-130

To edit user info, click [image] at the bottom, so as to display user info and edit. See Figure 4-131. Upload or change the user's photo, complete basic info, update authorization mode (adding password and fingerprint) and update channel. On completion, click [image] to refresh user list.

Figure 4-131

4.6.5 Delete User

The system supports to delete one/multiple/all users.

Select a user, and click 🗑 **Delete** to delete the selected user.
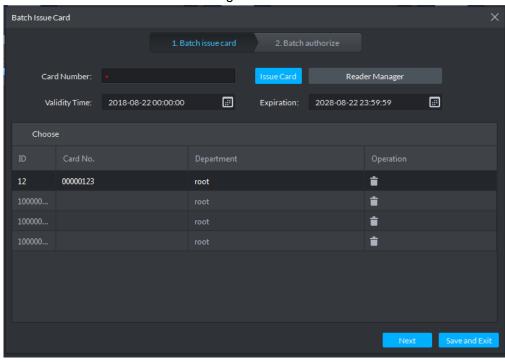
4.6.6 Batch Issue Card

The system supports to batch issue card to users.

Step 1　Select users and click 📧 **Batch Issue Card**.

The system displays **Batch Issue Card** interface. See Figure 4-132.

Figure 4-132

Step 2 Select users from the list, enter card number or read the card number via reader, and
        click **Issue Card**.
        Repeat the operation, until all users' cards are issued.

Step 3 Set validity time and expiration, and click **Next**.
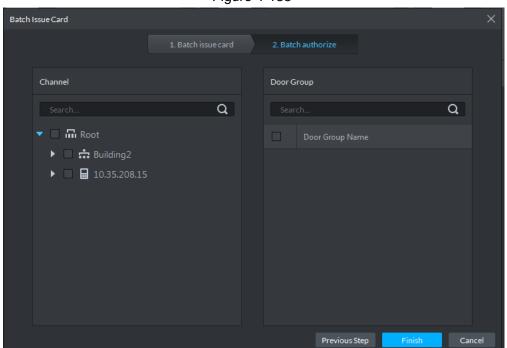   The system displays **Batch Authorize** interface. See Figure 4-133.

Figure 4-133

Step 4 Authorize the channel or door group, and click **Finish**.

4.7 Face Recognition

Application of face recognition client includes:

● Live preview

Live preview interface supports to view live video, user snapshot and recognition record. Meanwhile, view panorama and video related with user snapshot, download related video and register the snapshot user.

● Snapshot search

According to feature info or photo, search corresponding users in the library or snapshot record.

● Recognition search

According to the set feature info, search corresponding recognition record.

● Report

Provide the snapshot number report according to snapshot time and user's age in a channel.

4.7.1 Function Flows

To realize face recognition, please complete the following flow. See Figure 4-134.

Figure 4-134

The above function flows are for reference only. You can skip some steps according to your actual situation.

4.7.2 Add Face Recognition Device
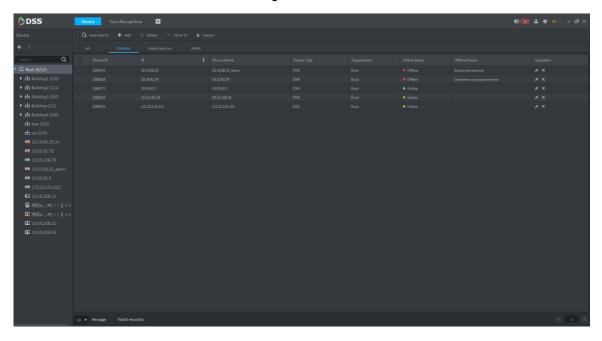
At **Device** interface, set up device tree and add face recognition devices. Please refer to "3.7 Device Management" for more details.

After adding, **Device** interface generates **Encoder** tab automatically, which displays face recognition device info. See Figure 4-135.

● Support to add IVSS and face recognition camera according to actual conditions.
● If IVSS is added, camera shall be added at IVSS config interface. Please refer to IVSS user's manual for more details.

Figure 4-135

4.7.3 Entering Face Recognition Interface

At function zone, click **Face Recognition** to enter the interface. See Figure 4-136. Click tabs in the left to enter face recognition, face search, recognition search, report and face database interface.
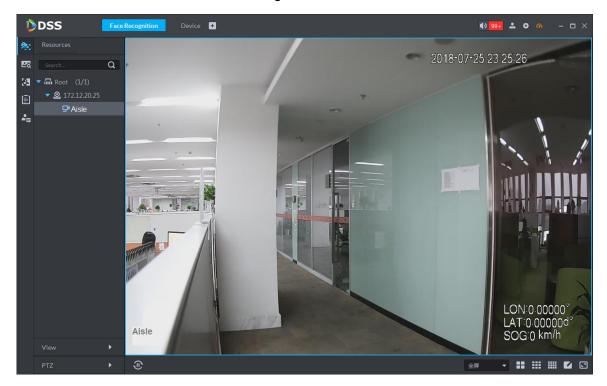
Figure 4-136

4.7.4 Setting Storage Plan

4.7.4.1 Picture Storage

- Snapshot pictures are stored under installation path of the server: ..\DSS\Server\WEBCLIENT\ webclient\apache-tomcat\webapps\upload\face.
- Storage capacity: 2 pictures are snapshot each time, and average capacity is 200kb each time.
- They are stored for 30 days by default. Please set reasonable storage days according to scene snapshot frequency and server storage capacity.
  Modification method: at installation path of the server,
  ..\DSS\Server\WEBCLIENT\webclient\apache-tomcat\bin\webapps-conf\config,   open configurations.properties to modify storage days.
  #Face ClearDays
  face.clearDays=30

4.7.4.2 Record Storage

If recording storage plan has been configured, and recordings before and after the snapshot time have been stored, the platform supports to play back recordings 10s before and 10s after snapshot picture (with 20s recordings in total). Otherwise, no recording can be played back.

Enter recording configuration interface in two ways.

- At **Face Recognition** interface, right click the device channel and select **Record Configuration**. See Figure 4-137. Enter record plan configuration interface. See Figure 4-138. Configure record plan. Please refer to "3.9.2.2 Configuring Record Plan" for more details.
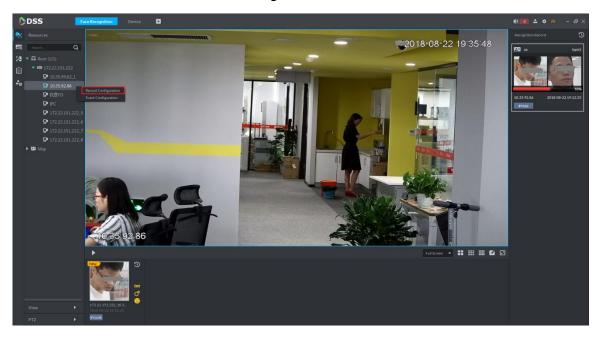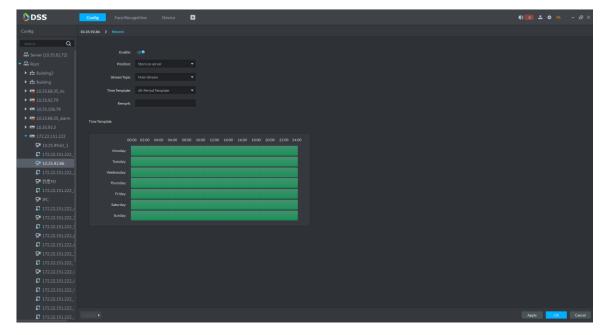
Figure 4-137

Figure 4-138

- At management zone of homepage, click **Config** to enter **Config** interface. Right click the device channel and select **Record Configuration**. See Figure 4-138. Configure record plan. Please refer to "3.9.2.2 Configuring Record Plan" for more details.

4.7.5 Face Library

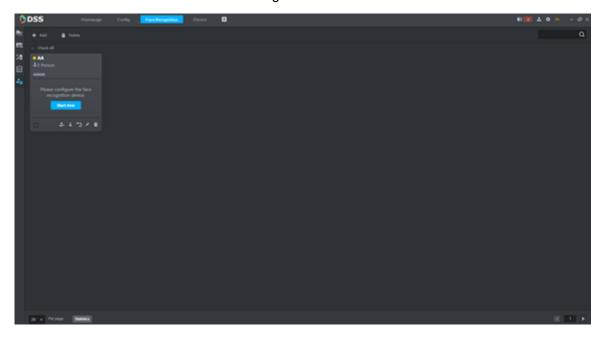Face library management includes the following functions.

- Add face library, in order to store user info and carry out further arm of face library. Edit and delete face library.
- Add person to the face library. Support to edit and delete person.
- Arm and disarm the face library. After arm, face recognition device (such as face recognition camera and IVSS) will compare the snapshot with pictures in the face library. If it is judged that similarity is ≧ set value, face recognition device (such as face recognition camera and IVSS) will regard them to be the same person, and upload the comparison record to the platform.

4.7.5.1 Adding Face Library

Step 1 At **Face Recognition** interface, click [icon] in the left.
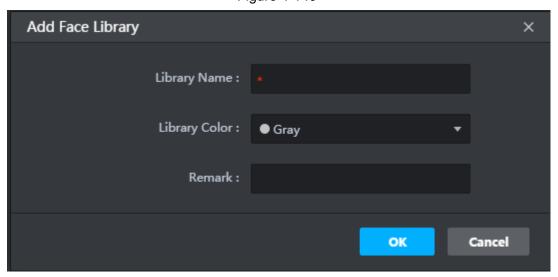
The system displays **Face Database** interface. See Figure 4-139.

Figure 4-139

Step 2   Click **Add**.
The system displays **Add Face Library** interface. See Figure 4-140.

Figure 4-140

Step 3   Enter library name and remark; select library color to mark the library.
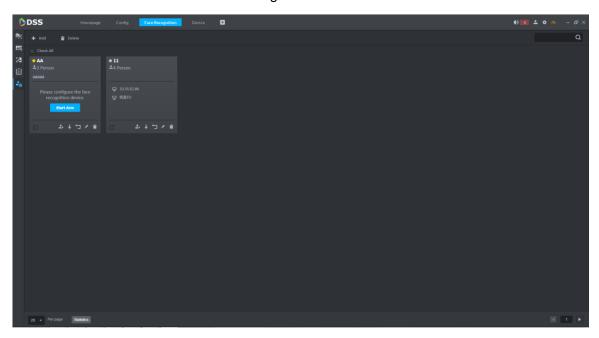Step 4   Click **OK** to finish adding. See Figure 4-141.

- Click 🗑 on the face library, or select multiple libraries and click **Delete** to delete them.

To delete all face libraries (there are many face libraries), it is recommended to tick **Check All**, in order to select all of them at once.

- Click ✎ on the face library; modify library color and remark.
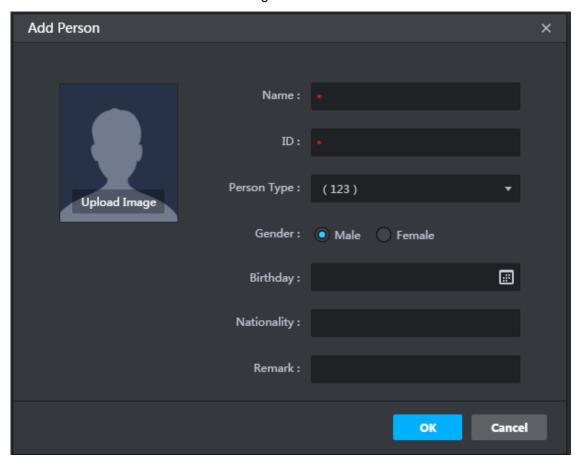
Figure 4-141

4.7.5.2 Adding Person

If person info (including person picture) has been collected, the platform supports to add one person or batch add persons to face library. Meanwhile, the platform supports to register the snapshot persons in face library.

4.7.5.2.1 Adding One Person

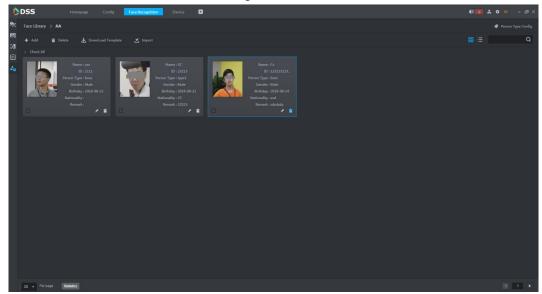<u>Step 1</u>   Enter the person adding interface in two ways.

- At **Face Database** interface, click ![icon] on the face library. The system displays **Add Person** interface. See Figure 4-142.

Figure 4-142

- At **Face Database** interface, click face library to enter person list interface. See Figure 4-143. Click **Add**, and the system displays **Add Person** interface. See Figure 4-142.
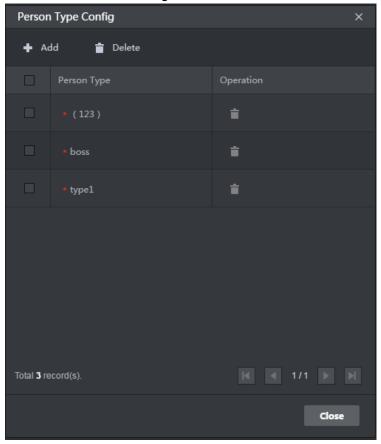
Figure 4-143

Step 2 According to interface prompt, upload the person's picture and fill in the info.

- Picture can be jpeg and jpg format, and picture size shall not exceed 5M.
- At person type, click the drop-down box to select **Add Person Type**, or click Person Type Config at the top right corner of Figure 4-143, See Figure 4-144. Click **Add** to manage person type.
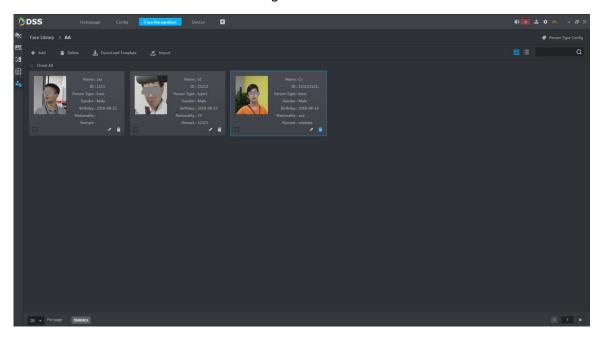
Figure 4-144

Step 3   Click **Close** to finish adding.

4.7.5.2.2 Batch Add Persons

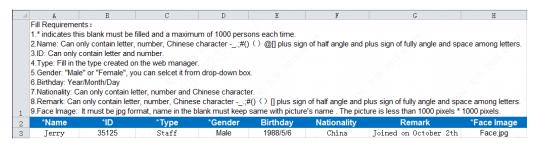Step 1   At **Face Database** interface, click face library to enter person list interface. See Figure 4-145.

Figure 4-145

Step 2   Click Download Template, and save templates in local device.
A package is download, including excel form (face-CN.xls) and picture (Face.jpg).

Step 3 Fill in person info in excel form. See Figure 4-146. Info in the face picture column shall be consistent with picture file name.

Figure 4-146
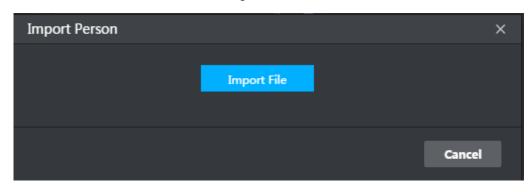
Step 4 Excel form and all face pictures are packed and compressed to zip/rar/7z pack.

Step 5 Click **Import**.

The system displays **Import** interface. See Figure 4-147.

Figure 4-147

Step 6 Click Import File to select packages.

After uploading is finished, close the interface.

4.7.5.2.3 Registering Snapshot Persons in Face Library

Step 1 Enter the registration interface in the following ways.

- At **Face Recognition** interface, double click the snapshot pictures. See Figure 4-148. Enter **Person Detail** interface. See Figure 4-149. Click [icon] to enter **Registration** interface. See Figure 4-150.

Figure 4-148
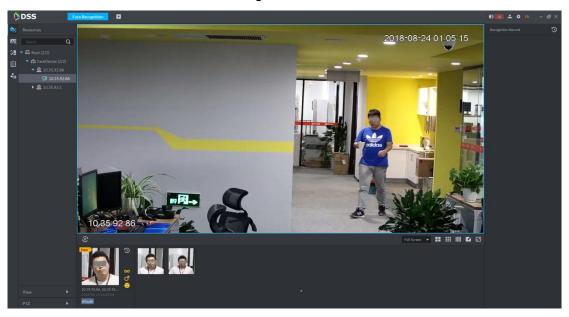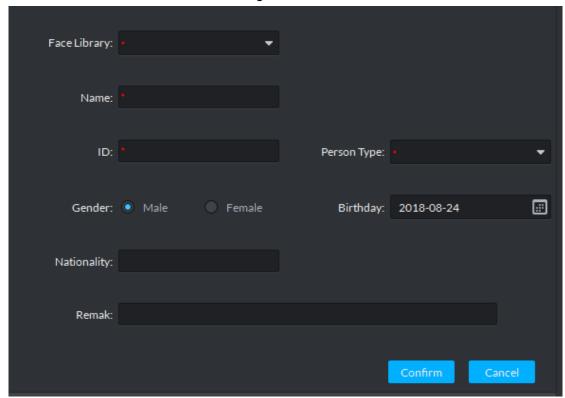

Figure 4-149

Figure 4-150

- At **Face Recognition** interface, move the mouse to snapshot, right click and select **Registration**. See Figure 4-151. Enter **Registration** interface. See Figure 4-150.

  📖

  If there are recognition records about the snapshot person, the person is in the library already. Right click, and registration option won't appear.
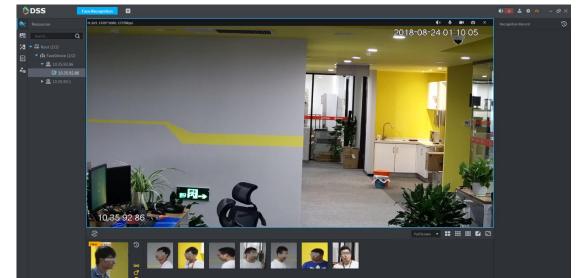
Figure 4-151

- Among record search results at **Face Search** interface, click 🖼️ to enter **Registration** interface, or double click the search result, enter person detail, and click 🖼️ to enter **Registration** interface.
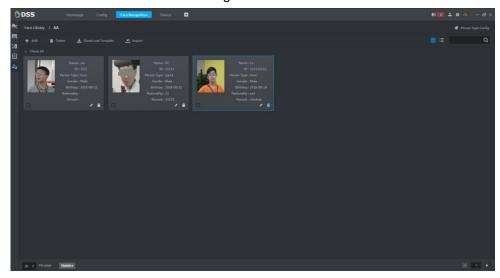
Step 2   Select the library, input person info and click **OK** to finish.

4.7.5.3 Modify Person Info

At person list interface of the library, modify and delete person info. See Figure 4-152.

Figure 4-152

- Click ![edit]. See Figure 4-153. Click the picture to replace it, and modify info in the right.

Figure 4-153
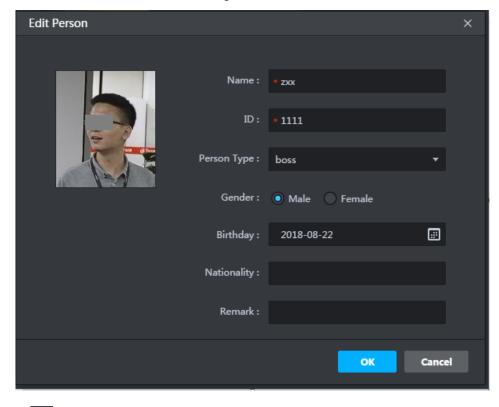
- Click ![delete], or select multiple persons and click Delete to delete them.
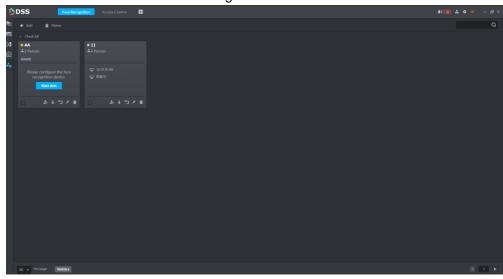
To delete all persons (there are many persons), it is recommended to tick **Check All**, in order to select all of them at once.

4.7.5.4 Library Arm

Step 1 At **Face Recognition** interface, click in the left.

Enter **Face Database** interface. See Figure 4-154.
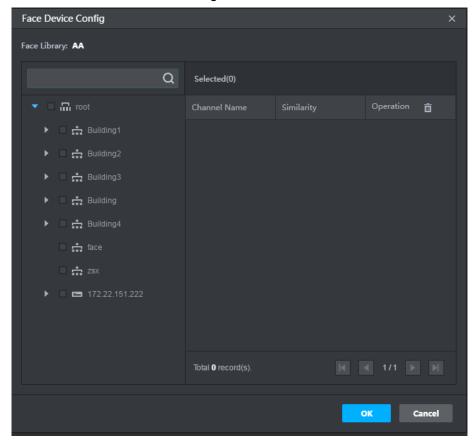
Figure 4-154

Step 2 Click **Start Arm** or .

The system displays **Face Device Config** interface. See Figure 4-155.

Figure 4-155

Step 3 Select device channel and set similarity.

Report the recognition record when actual comparison is larger than or equal to this similarity.

- Click ⬑ to disarm.

- Click ✎ to modify library info.

- Click 🗑 to delete library.

Step 4 Click **OK** to finish.

4.7.6 Face Device Config

Application of face recognition client includes:

- Live preview

 Live preview interface supports to view live video, user snapshot and recognition record. Meanwhile, view panorama and video related with user snapshot, download related video and register the snapshot user.

- Snapshot search

  According to feature info or photo, search corresponding users in the library or snapshot record.

- Recognition search

  According to the set feature info, search corresponding recognition record.

- Report

Provide the snapshot number report according to snapshot time and user's age in a channel.

4.7.6.1 Face Recognition

4.7.6.1.1 Live Preview

Step 1   At **Face Recognition** interface, click [icon] in the left.
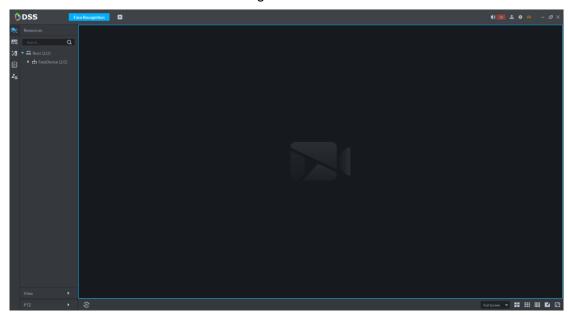
The system displays preview interface. See Figure 4-156.

Figure 4-156

Step 2   Select a monitoring window, double click device channel in the left, or drag the device channel to the window.

Open live monitoring interface. See Figure 4-157.

Figure 4-157

Table 4-6

No.	Name		Description
1	Resource		Display device tree and the added E-map. ● Every node displays its total number of devices and online devices. ● Map preview supports GIS map and raster map.
2	View		Save the present video window to the view, as preview plan. Support three-level catalog: the first level is root node, the second level is group and the third level is view. Support tour video of root node and group node. Tour time can be 10s, 30s, 1min, 2min, 5min and 10min. Support to create max. 100 views.
3	PTZ		Display PTZ console, to control PTZ device.
4	Snapshot Record Display Zone		Display the snapshot face pictures. Right click the snapshot, ● If this person is only snapshot person, ◇ Select Register, and register the person in library according to interface prompt. ◇ Select **Record Search**, and jump to snapshot search interface. Search the person's all snapshot records in the snapshot history. ◇ Select **Export** to save snapshot to local client. Default path is..\DSS\Server\WEBCLIENT\webclient\apache-tomcat\webapps\upload\face. ● If this person is recognition person, ◇ Select Recognition Record Search, and jump to recognition search interface. Search the person's all recognition records in the snapshot history. Select **Export** to save snapshot and library picture to local client. Default path is..\DSS\Server\WEBCLIENT\ webclient\apache-tomcat\ webapps\upload\face. ● Double click snapshot to view details, including cutout and panorama. Please refer to "4.7.6.1.2 Viewing and Processing Snapshot Detail".
5	Pause/Start Refresh		● ▶: When this icon appears, snapshot display zone doesn't refresh face snapshot. Click this icon to refresh snapshot in a real-time way. ● ⏸: When this icon appears, snapshot display zone refreshes face snapshot. Click this icon to pause.
6	全屏 ▼	Proportion	Support full screen and original proportion.
	⬛ ⬛ ⬛ ⬛	Window	Support to switch window quantity, which can be self-defined.
	⬛	Full screen	Display in full screen.

No.	Name	Description
7	Recognition Record Display Zone	Display recognition record. ● Right click the snapshot, ◇ Select Recognition Record Search, and jump to recognition search interface. Search the person's all recognition records in the snapshot history. ◇ Select **Export** to save snapshot and library picture to local client. Default path is \DSS\Server\WEBCLIENT\webclient\ apache-tomcat\webapps\upload\face. ◇ Double click recognition record to view details, including cutout and panorama, together with picture in library and person info. Please refer to "4.7.6.1.3 Viewing and Processing Recognition Record". ● Click [icon] at the top right corner, and jump to recognition search interface.
8	Monitoring Window	Display channel preview video. ● Multi-window/single window switch In multi-window display mode, double click the designated window and switch to single window display mode. Double click it again to return to multi-window display mode. ● Full screen mode Right click the window to enter full screen mode. In full screen mode, right click to exit the full screen. ● Exit tour To stop tour, right click the preview picture, and select **Stop Tour**.

4.7.6.1.2 Viewing and Processing Snapshot Detail

View Snapshot Detail

At Snapshot Record Display Zone, double click snapshot to view details, including cutout and panorama. See Figure 4-158.
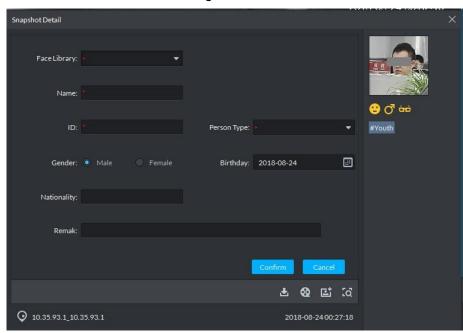
Figure 4-158

Register Snapshot Person

Step 1 Click at snapshot detail window.

Enter registration interface. See Figure 4-159.

Figure 4-159

Step 2 Select library and fill in info according to actual conditions.

* is required item.

Step 3 Click **OK** to finish.

View/Download Recording

- At snapshot detail window, click ![download icon] to enter download center, and download recording according to needs. Please refer to "4.3 Download Center" for more details.

- At snapshot detail window, click ![playback icon] to enter recording playback interface. If the snapshot owns recordings, play back the recordings. Otherwise, it prompts no recording file.

Search Record

At snapshot detail window, click ![search icon] to enter search interface. See Figure 4-160. Set search time and channel, and click **Search**.
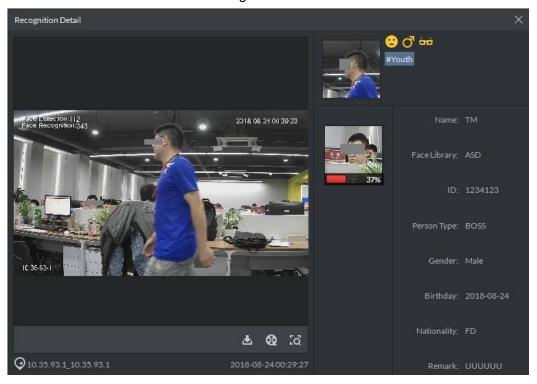
Figure 4-160

4.7.6.1.3 Viewing and Processing Recognition Record

View Recognition Detail

At Recognition Record Display Zone, double click recognition record to view details, including cutout and panorama, together with picture in library and person info. See Figure 4-161.
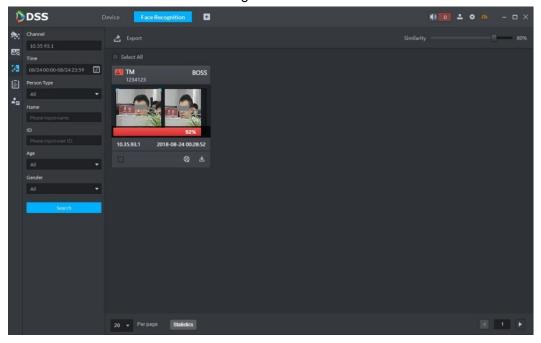
Figure 4-161

View/Download Recording

- At recognition detail window, click ![download icon] to enter download center, and download recording according to needs. Please refer to "4.3 Download Center" for more details.

- At recognition detail window, click ![playback icon] to enter recording playback interface. If the snapshot owns recordings, play back the recordings. Otherwise, it prompts no recording file.

Search Record

At recognition detail window, click ![search icon] to enter search interface. See Figure 4-162. Set search condition, and click **Search**.

Figure 4-162

4.7.6.2 Record Search

Search qualified persons in snapshot records, according to feature info or picture.

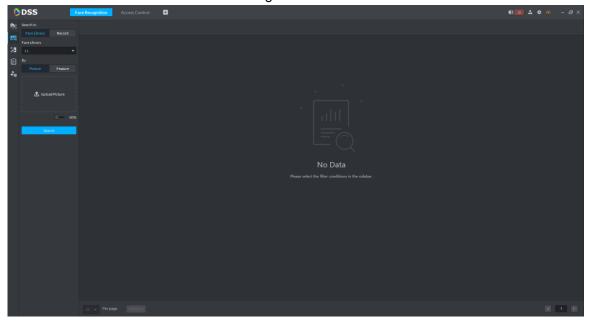### 4.7.6.2.1 Search with Picture

📖

- If the device doesn't support to search qualified persons in snapshot records according to picture, the platform cannot search with picture.
- If the device doesn't support to search with picture, when selecting a channel, the platform prompts that the channel doesn't support either.

Step 1 At **Face Recognition** interface, click 🔲 in the left.

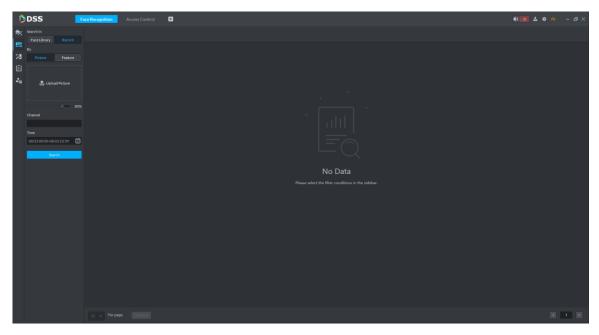Enter snapshot search interface. See Figure 4-163.
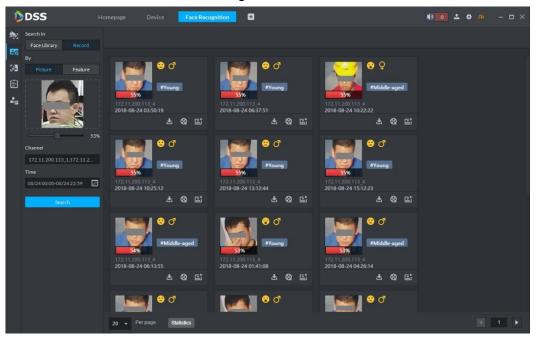
Figure 4-163

Step 2 Click **Record** tab.

Enter record search interface. See Figure 4-164.

Figure 4-164

Step 3 Select **Picture**, click **Upload Picture** to upload one picture, and set the similarity.

Step 4 Select a channel (or multiple channels), set search time period and click **Search**.

For search result, see Figure 4-165.

● Double click the picture to view details.

● Click [icon] to download recordings related with the picture.

● Click [icon] to display recording playback interface. If the snapshot owns recordings, play back the recordings. Otherwise, it prompts no recording file.

● Click [icon] to display person interface. The person can be registered.
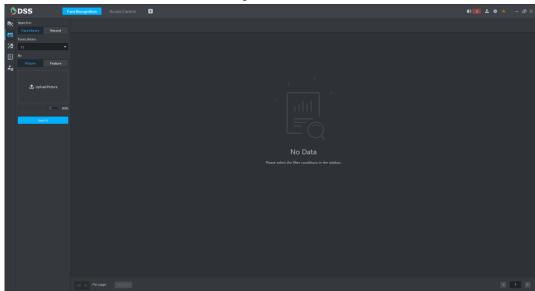
Figure 4-165

4.7.6.2.2 Search according to Condition

Step 1 At **Face Recognition** interface, click [icon] in the left.

Enter snapshot search interface. See Figure 4-166.
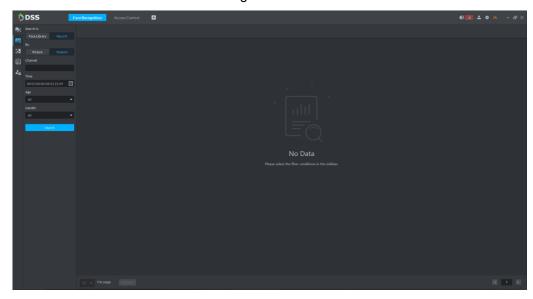
Figure 4-166

Step 2 Click **Record** tab.

Enter record search interface.

Step 3 Select **Feature**. See Figure 4-167.

Figure 4-167

Step 4 Select a channel (or multiple channels), set search time period, age and gender, and click **Search**. For search result, see Figure 4-168.

- Double click the picture to view details.

- Click [icon] to download recordings related with the picture.

- Click [icon] to display recording playback interface. If the snapshot owns recordings, play back the recordings. Otherwise, it prompts no recording file.

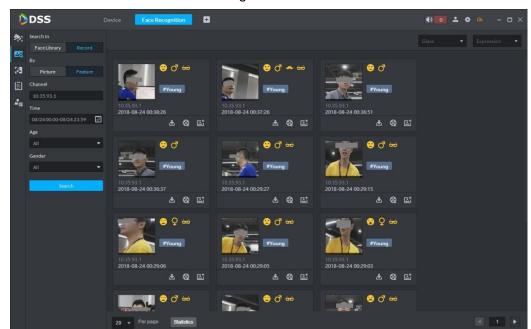- Click [icon] to display person interface. The person can be registered.

Figure 4-168

4.7.6.3 Library Search

Search qualified persons in the library, according to feature info or picture.
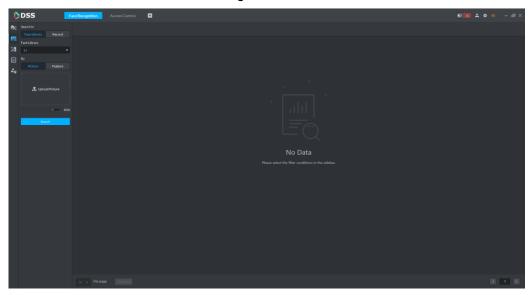
4.7.6.3.1 Search with Picture

📖

- If the device doesn't support to search qualified persons in snapshot records according to picture, the platform cannot search with picture.
- If the device doesn't support to search with picture, when selecting a channel, the platform prompts that the channel doesn't support either.

Step 1 At **Face Recognition** interface, click in the left.

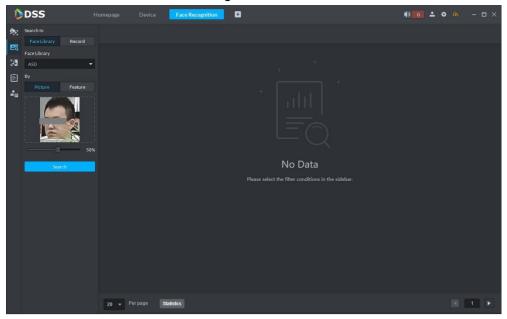Enter snapshot search interface. See Figure 4-169.

Figure 4-169

Step 2 Click **Face Library** tab.

Enter library search interface.

Step 3 Select the face library.

Step 4 Select **Picture**, click **Upload Picture** to upload one picture, and set the similarity.

Step 5 Click **Search**.

For search results, see Figure 4-170. Click on the found picture, and jump to recognition search interface. Set search conditions and search recognition records within the scope of condition.
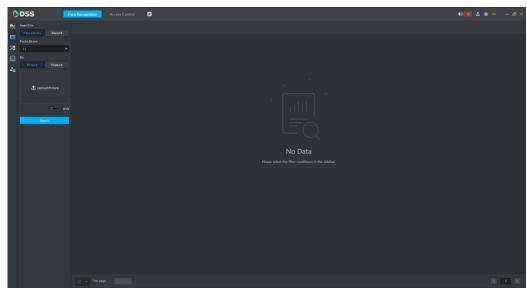
Figure 4-170

4.7.6.3.2 Search according to Condition

Step 1 At **Face Recognition** interface, click [icon] in the left.

Enter snapshot search interface. See Figure 4-171.
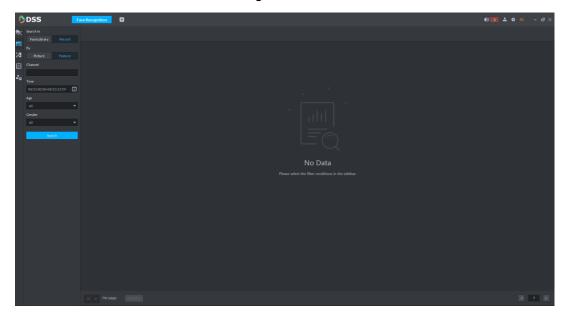
Figure 4-171

Step 2 Click **Face Library** tab.
Enter library search interface.
Step 3 Select the face library.
Step 4 Select **Feature**. See Figure 4-172. Select a channel (or multiple channels), set search time period, age and gender, and click **Search**.

Functions 166

Figure 4-172

Step 5 Click **Search**.

For search results, see Figure 4-173. Click [icon] on the found picture, and jump to recognition search interface. Set search conditions and search recognition records within the scope of condition.
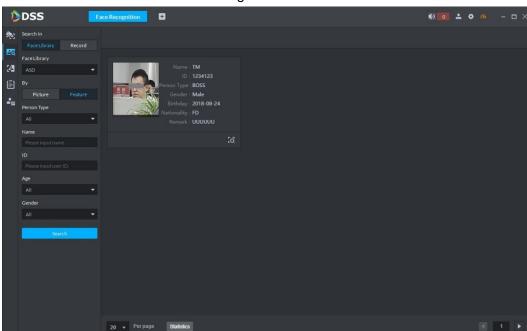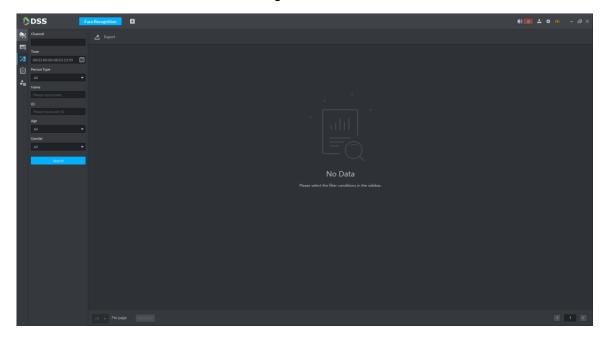
Figure 4-173

4.7.6.4 Recognition Search

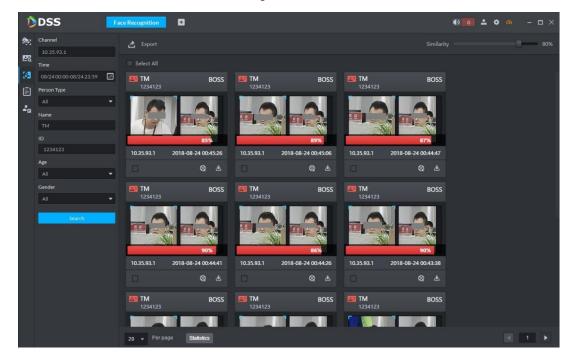Set conditions, and search qualified recognition records.

Step 1 At **Face Recognition** interface, click [icon] in the left.

Enter recognition search interface. See Figure 4-174.

Figure 4-174

Step 2 Set the channel and time, person type, name, ID, age and gender, and click **Search**.
For search results, see Figure 4-175.

Figure 4-175

- Double click the picture to view details.

- Click [icon] to download recordings related with the picture.

- Click [icon] to display recording playback interface. If the snapshot owns
recordings, play back the recordings. Otherwise, it prompts no recording file.

- Select a recognition record and click **Export** to export the result.

4.7.6.5 Report

Step 3 At **Face Recognition** interface, click [icon] in the left.

The system displays **Report** interface. See Figure 4-176.

Figure 4-176
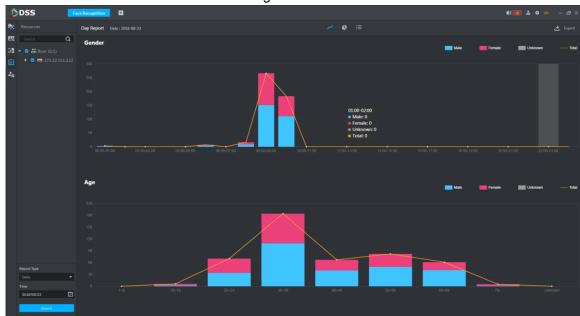

Step 4 Select device channel, report type and time, and click **Search**.

Generate a report according to the data in the selected cycle. Click [icon]/ [icon]/ [icon] at the top, to switch display mode.

● For line chart, see Figure 4-177.
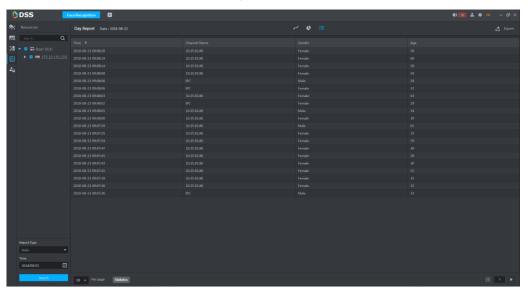
Figure 4-177

● For pie chart, see Figure 4-178.

Figure 4-178

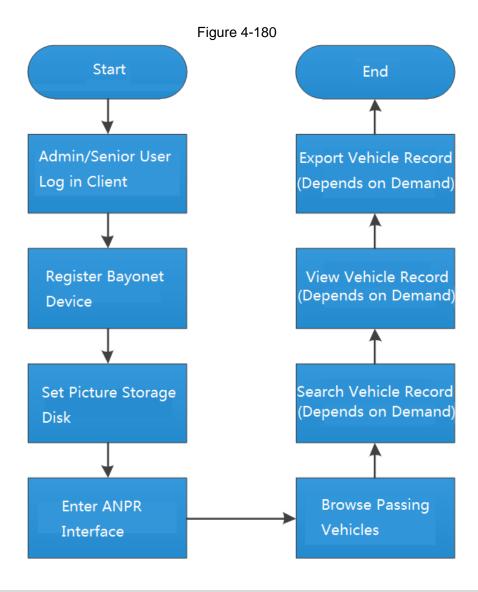● For list, see the following figure.

Figure 4-179

4.8 ANPR Surveillance

The platform accurately identifies vehicles through the license plate recognition camera, and supports vehicle record data search.

4.8.1 Function Flow

To realize access control, the following flow shall be completed. See Figure 4-180.
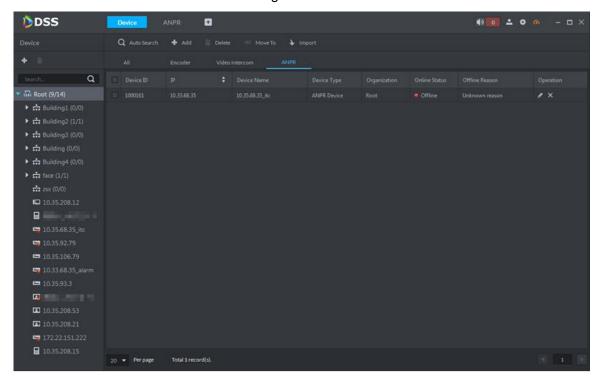
Figure 4-180

```
    ┌─────────────┐              ┌─────────────┐
    │    Start    │              │     End     │
    └─────────────┘              └─────────────┘
           │                            ▲
           ▼                            │
  ┌─────────────────┐        ┌───────────────────────┐
  │ Admin/Senior User│       │  Export Vehicle Record │
  │  Log in Client   │       │  (Depends on Demand)   │
  └─────────────────┘        └───────────────────────┘
           │                            ▲
           ▼                            │
  ┌─────────────────┐        ┌───────────────────────┐
  │ Register Bayonet │       │   View Vehicle Record  │
  │     Device       │       │  (Depends on Demand)   │
  └─────────────────┘        └───────────────────────┘
           │                            ▲
           ▼                            │
  ┌─────────────────┐        ┌───────────────────────┐
  │ Set Picture Storage│     │  Search Vehicle Record │
  │      Disk        │       │  (Depends on Demand)   │
  └─────────────────┘        └───────────────────────┘
           │                            ▲
           ▼                            │
  ┌─────────────────┐        ┌───────────────────────┐
  │   Enter ANPR     │──────▶│   Browse Passing       │
  │    Interface     │       │     Vehicles           │
  └─────────────────┘        └───────────────────────┘
```

📖

The above function flows are for reference only. You can skip some steps according to your actual situation.

4.8.2 Registering ANPR Device

Build organization tree on the **Device** interface and register the needed ANPR device.

After the adding, the **ANPR** tab automatically appears on the **Device** interface and the detailed ANPR information is displayed on the tab. See Figure 4-181.
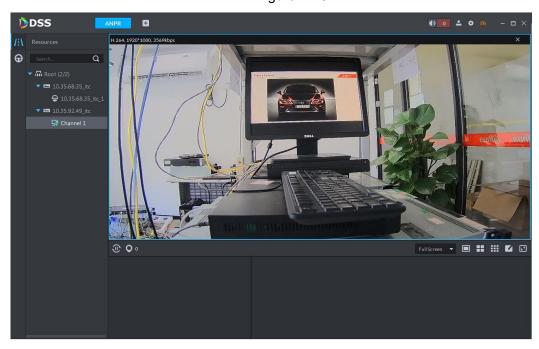
Figure 4-181

4.8.3 Picture Storage Disk Settings

You need to configure the appropriate storage disk for the ANPR channel before road surveillance. Otherwise, all the pictures in road surveillance will not be displayed.

4.8.4 Entering ANPR Interface

On the homepage, click **ANPR** to enter the ANPR interface. See Figure 4-182. Click the tab on the left to enter the corresponding vehicle record search interface. By default, the road monitoring interface displays the electronic map in a single window. You can manually switch the window number. Click the ANPR channel on the left to preview video.
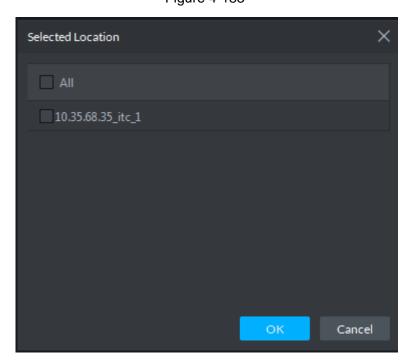
Figure 4-182

4.8.5 Browsing Passing Vehicles

Step 1 Click ![icon] on the left side of **ANPR** interface. See Figure 4-182.

Step 2 Click ![icon].

The **Selected Location** interface is displayed. See Figure 4-183.

Figure 4-183
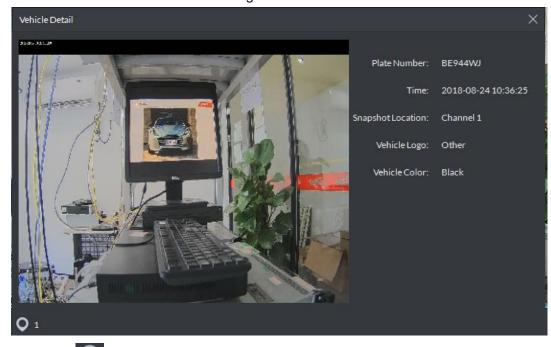
Step 3 Select the channel you need to view the vehicle pictures and then click **OK**.

The platform displays the selected channel number and shows the latest passing vehicle picture. See Figure 4-184.

Figure 4-184

Step 4 Double-click the picture to view the detailed information.

It includes plate number, snapped time, ANPR channel name, car logo and color. See Figure 4-185.

Figure 4-185

Step 5 Click [icon] to pause refreshing vehicle records.
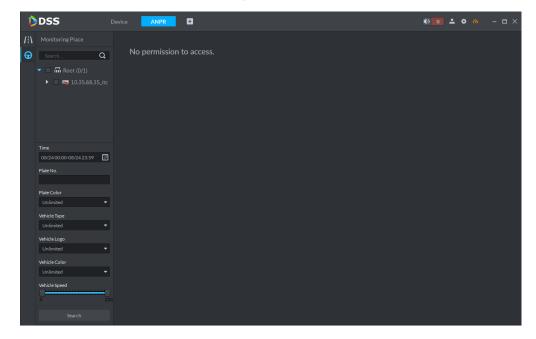
4.8.6 Searching Passing Vehicle Records

In practical application, you can search the past vehicle records according to the actual needs.

Step 1 Click [icon] on the left of **ANPR** interface.

The passing vehicle record interface is displayed. See Figure 4-186.

Figure 4-186
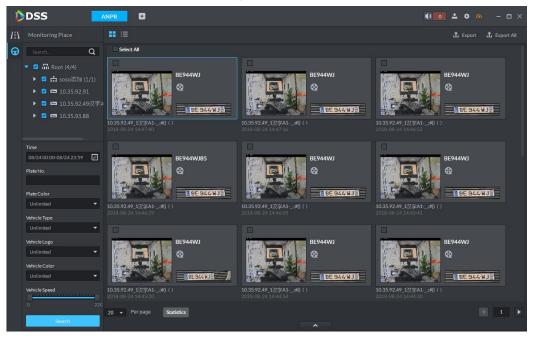
Step 2 Select the channel to search and configure the time, plate No., plate color, vehicle type, vehicle logo, vehicle color and vehicle speed. Click **Search**.

The search results are displayed. See Figure 4-187. Click to view in thumbnail mode and click to view in list mode.
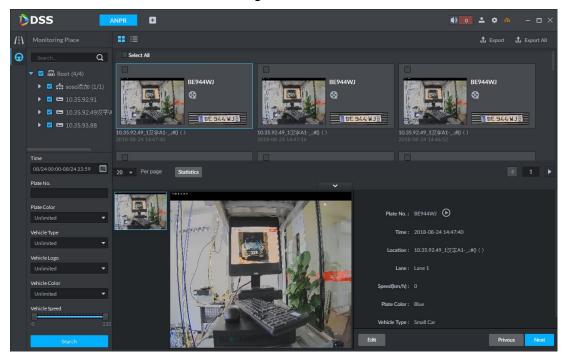
Figure 4-187

Step 3 Double-click the picture to view details, including local zoom to view vehicle picture, plate number, snapped time, ANPR channel name, lane, speed, plate color, vehicle type, vehicle logo and vehicle color. See Figure 4-188.

Figure 4-188

If some information in the vehicle details recognized by the platform is incorrect, click

Edit   to modify them manually. See Figure 4-189. The information you can edit

includes plate No., plate color, vehicle type, vehicle logo and vehicle color, and click
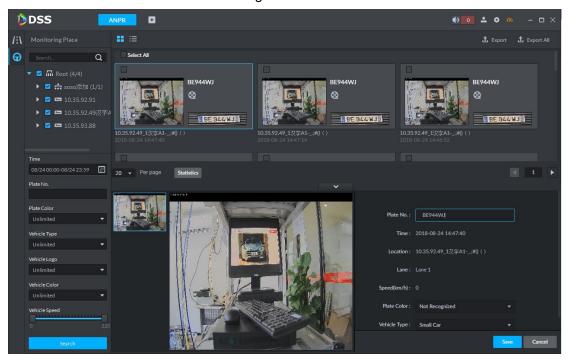**Save** after the editing or click **Cancel** to cancel the editing. See Figure 4-189.
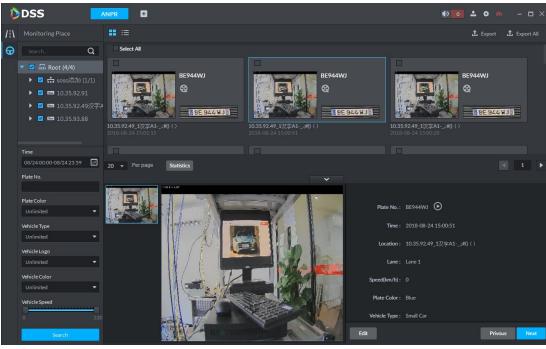
Figure 4-189
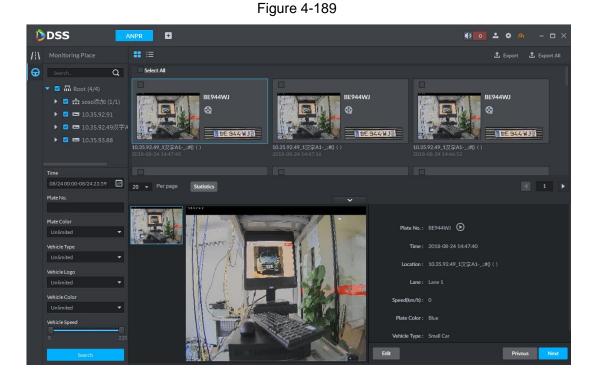
Figure 4-190

4.8.7 Viewing Passing Vehicle Records

⚠️**CAUTION**

Before searching passing vehicle records, you need to configure general record schedule for the ANPR channel. The way to configure record schedule is the same as video channel.
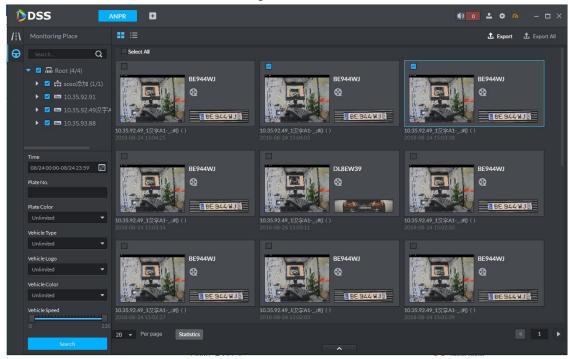
In the search result list, select the corresponding vehicle record and then click 🔘 or click 🔘 in **Details**, you can view the record before and after the snapped picture. See Figure 4-191.
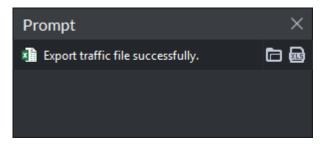
Figure 4-191

4.8.8 Exporting Passing Vehicle Records

You can export all or part of the selected vehicle records according to the actual needs.

Step 1 In the search result list, selected the records you need to export, and then click **Export** or **Export All**. See Figure 4-192.
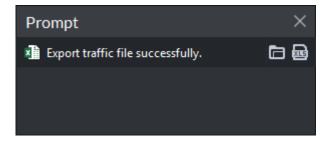
Figure 4-192

Step 2 Select the save path according to the platform prompt. After the export is successful, the platform pops up a prompt box. See Figure 4-193.

Figure 4-193

Step 3 Click the open button in the prompt box to view the exported file. See Figure 4-194.

Figure 4-194

4.9 E-Map Application

It is to import the raster map into the platform, and then add the device to the map to simulate the actual application environment.

On the homepage, click **Emap** and the **Emap** interface is displayed. See Figure 4-195 and Figure 4-196.
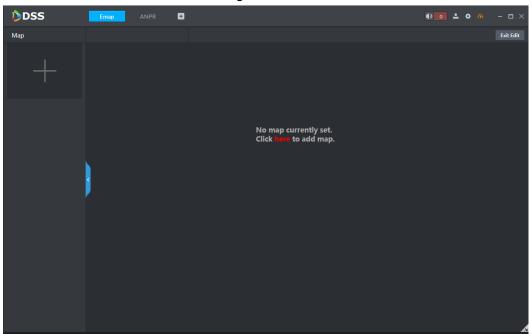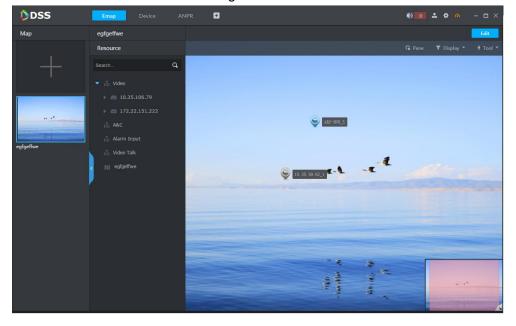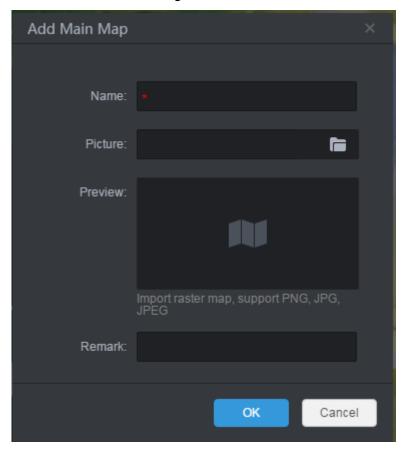
Figure 4-195

Figure 4-196

4.9.2 Adding Maps

The platform supports to add multiple maps.

Step 1 Click **Here** if you operate it for the first time. Click + on the left of the window if you have operated it before.

The **Add Main Map** interface is displayed. See Figure 4-197.

Figure 4-197

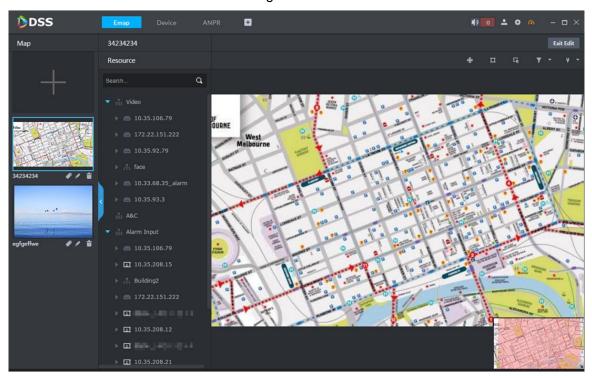Step 2 Enter the name and remark, and click [folder icon] to select the picture.

     📖 **NOTE**

- The platform supports raster map and pictures in the format of PNG, JPG, JPEG, etc.
- After adding the picture, the platform displays the added picture on the preview interface.

Step 3 Click **OK** to import to the platform. See Figure 4-198.

- You can zoom in and out the Emap by rotating the middle button of the mouse.
- If the picture is too large to display completely, you can move the red module in the lower right corner by dragging the mouse.

Figure 4-198

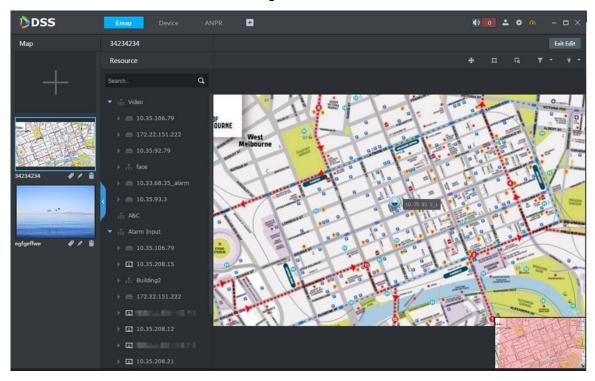## 4.9.3 Adding Device Channel

You can add the video channel, access control channel or alarm channel to the map according to the actual needs.

In the resource list, select the device channel and drag it to the appropriate position on the map. See Figure 4-199.

📖 NOTE

In edit mode, this operation takes effect in real time. If you are in non-edit mode, click **Edit** on the upper right corner to switch to edit mode.

Figure 4-199

4.9.4 Adding Submaps

A map can contain multiple layers. Click in edit mode to add submaps.

Step 1   Click **Edit** on the upper right corner to switch to the map edit mode.

Step 2   Click and the cursor becomes a map icon. Select a position on the map and click

the left button of the mouse.

The **Add Sub Map** interface is displayed. See Figure 4-200.

Figure 4-200

Step 3 Enter name and remark, and click [icon] to select picture.

📖 **NOTE**

- The platform supports raster map and pictures in the format of PNG, JPG, JPEG, etc.
- After adding the picture, the platform displays the added picture on the preview interface.

Step 4 Click **OK** to import to the platform. See Figure 4-201.
The list on the left displays the map hierarchy and the map on the right displays the submap icons. Click the submap name on the left or the submap icon on the right to open the submap. See Figure 4-202.

📖 **NOTE**

On the submap, you can follow the above operations to continually adding a submap.
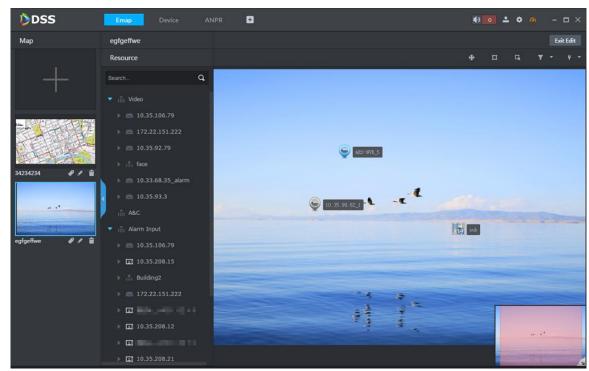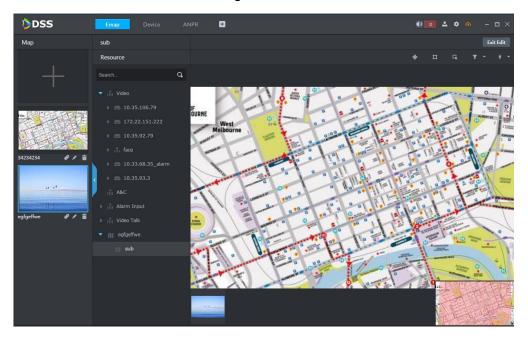
Figure 4-201

Figure 4-202

4.9.5 Managing Maps

4.9.5.1 Main Map Settings

In the map list on the left, click ![tag icon] on the bottom to set the map as the main map. The main map is marked yellow on the upper left corner. See Figure 4-203. When there are several maps at the same time, system displays main map by default.
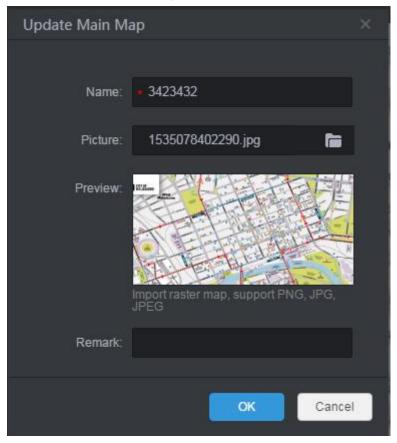
Figure 4-203

4.9.5.2 Modifying Map Information

In the map list on the left, click ![edit icon] on the bottom of a map to modify the map information.
See Figure 4-204.

Figure 4-204

4.9.5.3 Deleting Maps

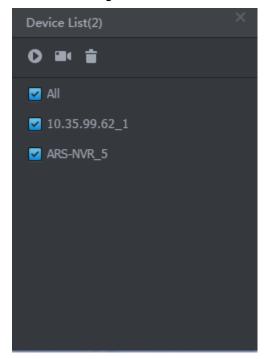In the map list on the left, click [icon] on the bottom of a map to delete the map.

4.9.5.4 Moving Device Position

On the upper right corner, click [icon] and the icon becomes [icon], and then you can drag the

device to change the position on the map. Click [icon] to close the moving mode.

4.9.5.5 Selecting Devices

On the upper right corner, click [icon] and the icon becomes [icon]. You can select a region on
the map and the platform displays the device list in this region. Select a device and click the
corresponding icon to preview videos, play back records or delete the device.

Figure 4-205

4.9.5.6 Filtering Devices

On the upper right corner, click [icon] to select the device type and the platform displays the devices of the selected type. By default, the platform selects all types.

4.9.5.7 Marking Position

On the upper right corner, click [icon], select **Mark**, and then you can add mark to a position.

4.9.5.8 Resetting Maps

On the upper right corner, click [icon] and select **Reset** to reset the map to the default size.

4.10 Alarm Event Management

⚠️**CAUTION**

The precondition for generating alarm record is to set various alarm events and event linkage conditions for the device channel.

When alarm occurs, you can view the alarm number on the upper right corner. See Figure 4-206. Click this prompt or click **Event Center** on the homepage, you can enter the alarm event management interface to view live alarms and alarm records. See Figure 4-207.
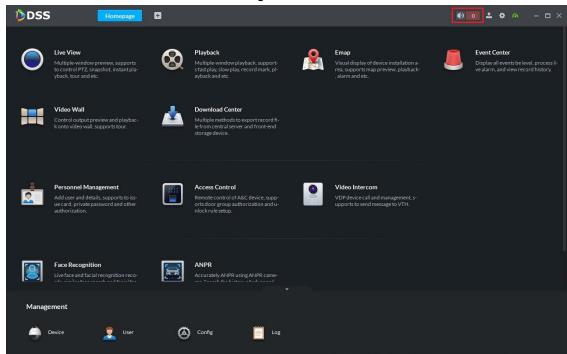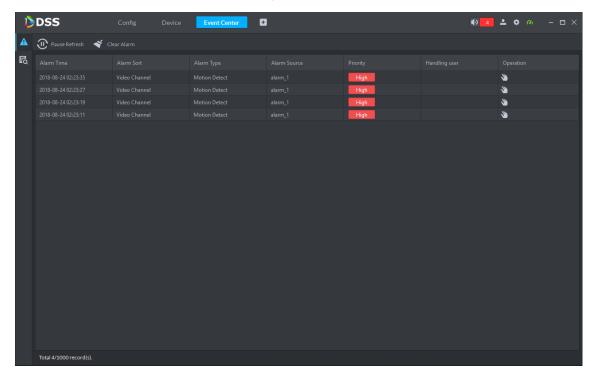
<figcaption>Figure 4-206</figcaption>

<figcaption>Figure 4-207</figcaption>

4.10.1 Live Alarms

On the alarm management interface, click on the left and you can enter the interface to view live alarms. See Figure 4-207.

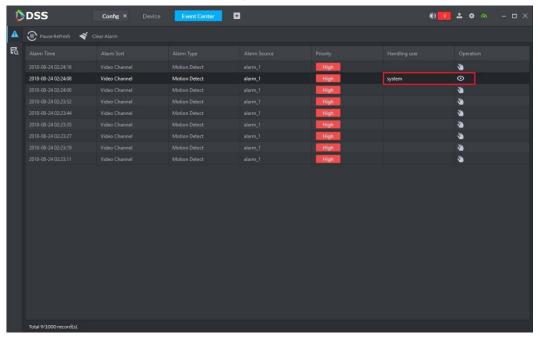### 4.10.1.1 Refreshing Alarm Records

Click to refresh alarm records.

4.10.1.2 Claiming Alarm Events

Step 1 Click to claim and deal with the alarm event.

The handling user is displayed and the icon becomes . See Figure 4-208.
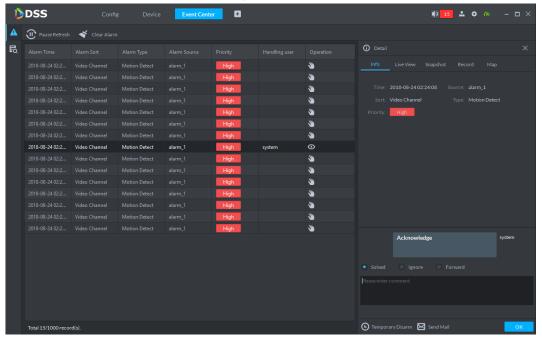
Figure 4-208

Step 2 Click .

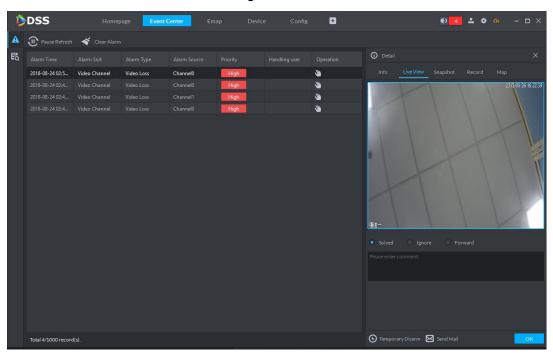The detailed alarm information is displayed. See Figure 4-209.

📖 **NOTE**

If the alarm event is claimed, it will not appear in the live alarm interface of other users. But it can be viewed in alarm search.
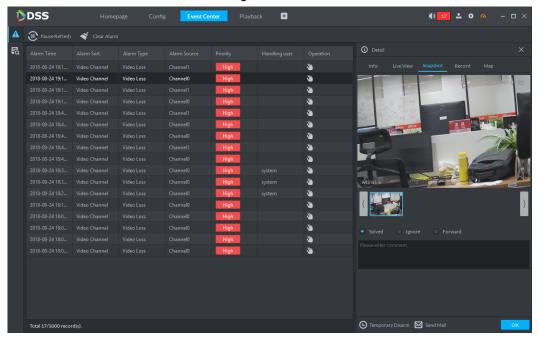
Figure 4-209

Step 3 Click **Information** tab to view the alarm occurrence time, alarm type, alarm source (channel/device) and alarm level. See Figure 4-209.

Step 4 Click **Preview** tab to view the video information of the corresponding channel when the alarm occurs. See Figure 4-210.
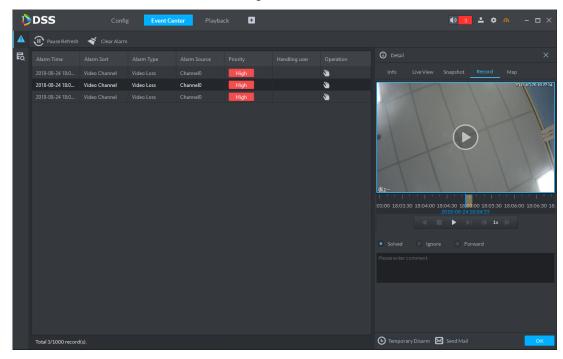
Figure 4-210

Step 5 Click **Snap** tab to view the snapshot information of the corresponding channel when the alarm occurs. See Figure 4-211.
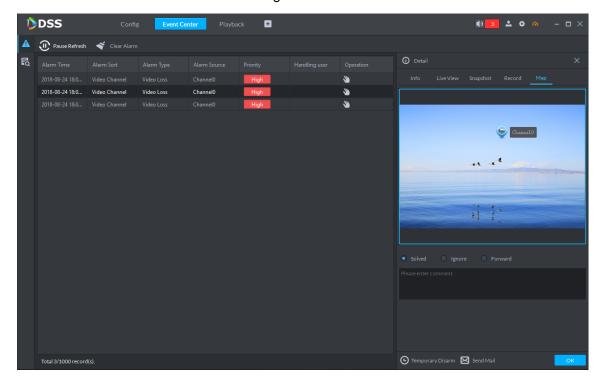
Figure 4-211

Step 6   Click **Record** tab to view the record of the corresponding channel when the alarm
        occurs. See Figure 4-212.
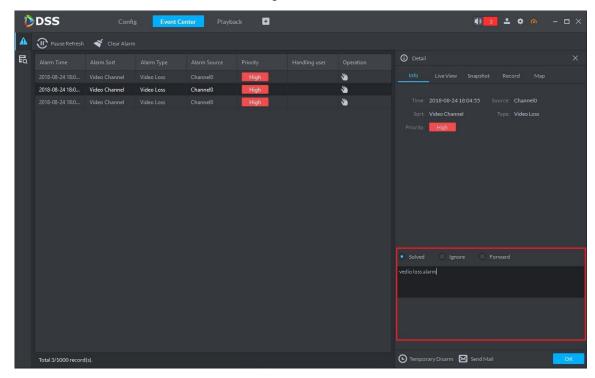
Figure 4-212

Step 7   Click **Map** tab to view the map in which the corresponding channel locates when the
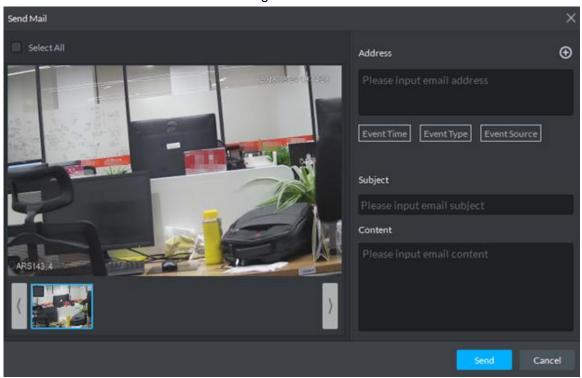   alarm occurs. See Figure 4-213.

Figure 4-213

Step 8 Select the alarm handling way and enter the remark information. See Figure 4-214.

Figure 4-214

Step 9 Click **Temp Disarm** to disarm the specified alarm in the corresponding channel for a certain period.

Step 10 Click **Send Email**. See Figure 4-215.

Figure 4-215

1) Select the picture.
2) Enter the email address and configure the email subject and contents.
3) Click **Send** to manually send email to the relevant personnel.

Step 11 Click **OK** to save the results.

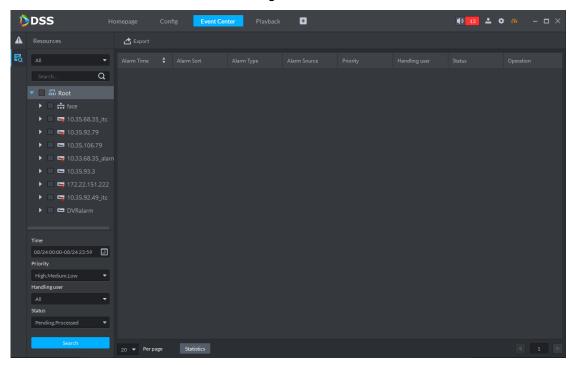### 4.10.1.3 Clearing Alarm Records

Click ![Clear Alarm] to delete the alarm records on the current interface. The alarm records still exist on the system and you can search the alarm records on the search interface.

4.10.2 Searching Alarms

Search detailed alarm records according to conditions such as channel, time, priority, handling user and alarm status, and then handle the unclaimed alarm records or view the handled alarm information.
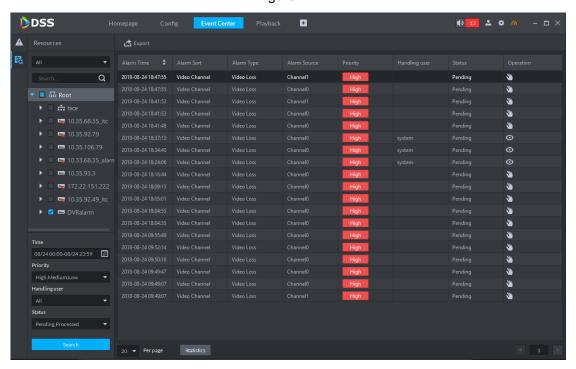
Step 1 On the alarm management interface, click ![icon] on the left to enter the alarm search interface. See Figure 4-216.

Figure 4-216

Step 2 Select the device channel, configure the search criteria (including time, priority, handling user and status), and then click **Search**.

The alarm records meeting the criteria are displayed on the right. See Figure 4-217.

Figure 4-217

- Click to claim and handle the alarm event. For details, see "4.10.1.2 Claiming Alarm Events."

- Click to view the alarm information, snapped pictures, records, maps and the corresponding handling status. For details, see "4.10.1.2 Claiming Alarm Events."

Functions   194