



DSS Pro V7.01.000

User Manual

Table of Contents

1	OVERVIEW.....	- 12 -
1.1	Product.....	- 12 -
1.2	Highlight.....	- 12 -
2	OVERALL FLOW WORD.....	- 13 -
3	DSS SERVER INSTALLATION AND UNINSTALLATION	- 14 -
3.1	Server Config Requirement	- 14 -
3.2	Installation	- 14 -
3.3	Uninstall	- 17 -
4	DISTRIBUTED DEPLOYMENT	- 19 -
4.1	Slave Server Installation.....	- 19 -
4.2	Slave Server Config	- 23 -
4.3	Slave Server Status Display.....	- 24 -
5	ENABLE/DISABLE SERVER	- 28 -
5.1	Stop Server	- 28 -
5.2	Enable Server	- 28 -
5.3	Reboot DSS Server	- 29 -
6	CHANGE SERVER PORT	- 31 -
6.1	Change CMS Port.....	- 31 -
6.2	Change Other Server Port.....	- 32 -
7	LAN/WAN MAPPING	- 34 -
7.1	Flow	- 34 -
7.2	Router Config	- 34 -
7.3	DSS Platform Config.....	- 34 -

8	LOGIN TO THE DSS MANAGER	- 36 -
8.1	Login Web	- 36 -
8.2	System Configuration	- 37 -
9	ADD ORGANIZATION AND LOGIN USERS	- 41 -
9.1	Add Organization	- 41 -
9.2	Add User Role	- 43 -
9.3	Add User	- 45 -
10	DOMAIN USER	- 47 -
10.1	Scene	- 47 -
10.2	Domain Info Setup	- 47 -
10.3	Import Domain User	- 49 -
10.4	Domain User Login	- 51 -
11	DEVICE.....	- 53 -
11.1	Device Initialization	- 53 -
11.2	Modify Device IP Address	- 57 -
11.3	Modify Device Password	- 59 -
12	INSTALLATION AND UNINSTALLATION OF THE CLIENT	- 61 -
12.1	Requirement for PC	- 61 -
12.2	Installation	- 61 -
12.3	Uninstall	- 63 -
13	LOGIN TO THE CLIENT	- 65 -
13.1	Logging In	- 65 -
13.2	Local Configuration	- 66 -
14	VIDEO PREVIEW	1
14.1	Flow	1

14.2	ADD General Encoding Device	1
14.2.1	Add Manually.....	1
14.2.2	Auto Search Encoder	5
14.3	Live Preview	6
14.3.1	Organization Preview	6
14.3.2	Device Preview.....	7
14.3.3	Channel Preview	9
14.3.4	Display Previous live Image when it boots	10
14.3.5	Preview Display.....	11
14.4	Electronic Focus	14
14.5	PTZ Setup	17
	Preset Point	20
	Cruise.....	20
	Cruise Track.....	21
	Linear Scan.....	22
14.6	Single Window with Multiple Splits	22
14.7	View	23
14.8	Favorite	25
15	PANORAMA PTZ	28
15.1	Application Scene and Function	28
15.2	Add Device	28
15.3	Client Application	31
15.3.1	Preview	31
15.3.2	Auto Track	31
16	E-MAP	33
16.1	Flow	33
16.2	Add Map	33
16.2.1	Google Online Map	33
16.2.2	Google Offline Map.....	35
16.2.3	Raster Map.....	36
16.2.4	Channel Display	38
16.3	Map Use	39
16.3.1	Preview Window.....	39
16.3.2	Alarm flashes on the Map.....	39
16.3.2.1	Configure Alarm Scheme on the Manager.....	39

16.3.2.2	Activate Alarm Flash from the Client.....	42
16.3.2.3	Client Triggers Alarm.....	42
16.3.3	Channel Filtration	44
16.3.4	Initial Angel Adjustment	45
17	RECORD SERVICE	47
17.1	Flow	47
17.2	Configure Storage Plan	47
17.2.1	Storage Config.....	47
17.2.2	Record Plan Setup	50
17.2.3	Enable/disable Record Plan	51
17.2.4	Modify Record Plan	51
17.2.5	Delete Record Plan	52
17.2.6	Add Time Template.....	52
17.2.7	Add Backup Record Plan	55
17.2.7.1	Condition Being Time	55
17.2.7.2	Condition Being WIFI	57
17.2.8	Group Quota.....	59
17.2.8.1	Function introduction.....	59
17.2.8.2	Configuration Steps.....	59
17.2.9	Preview Remote Record	61
17.3	Record Search.....	62
17.3.1	Procedures	62
17.3.2	Select Search Time	62
17.3.3	Select Storage Path	65
17.4	Video playback	65
17.4.1	Video filter.....	65
17.4.2	Record Control	66
17.4.3	Lock Record	66
17.4.4	Add Mark	67
17.5	Download Record.....	68
17.5.1	Record Search.....	68
17.5.2	Cut Record	68
17.5.3	Timeline	69
17.5.4	File list	71
17.5.5	Label.....	72
17.6	Download Management	73
17.6.1	Downloading.....	73
17.6.2	Completed	73
18	ALARM.....	75

18.1	Intro to Flow	75
18.2	Add Alarm Source	75
18.3	Add Alarm Device.....	77
18.4	Create Alarm Scheme	79
18.5	Alarm Link Video Preview	87
18.6	Alarm Sound.....	91
18.7	View Alarm	92
18.8	Process Alarm	93
19	EMAIL SERVER	95
19.1	Scene.....	95
19.2	Email Server Config	95
19.3	User Email Config	96
20	VIDEO WALL.....	99
20.1	General Video Wall Flow.....	99
20.2	Alarm Video Wall Flow	99
20.3	Add Decoding Device	99
20.4	Create Video Wall	101
20.5	Execution of TV Wall.....	105
20.6	Create Video Wall Plan	108
20.6.1	Timer Plan	108
20.6.2	Tour Plan	109
20.7	Execution of TV Wall.....	109
21	ITC	111
21.1	Business Flow	111
21.2	Add ANPR Device.....	111
21.3	Vehicle Blacklist	115
21.4	Road Monitoring Application	118

21.4.1	Default Display	118
21.4.2	Passed Vehicle Picture Browse.....	119
21.4.3	Video/Picture Preview	119
21.5	ANPR	120
21.6	Vehicle Pattern	122
21.7	Arm Record.....	123
21.8	Violation Search	123
22	POS	127
22.1	POS Business Flow	127
22.2	Add POS Device	127
22.3	Bind POS and Video Channel	130
22.4	Set POS END	132
22.5	Client Demonstration.....	133
22.6	View Report.....	134
23	PEOPLE COUNT	137
23.1	Flow	137
23.2	Add Smart IPC	137
23.3	People Count Statistics	138
23.4	View People Count in Preview	140
23.5	Heat Map	141
24	FACE RECOGNITION.....	143
24.1	Business Flow	143
24.2	Add IVS Server	143
24.3	Bind Video Channel	147
24.4	User Resource Management.....	149
24.4.1	User Type Management	149
24.4.2	Add User-Manager	152
24.4.3	Add User Info-Client	154

24.5	Client Application	156
24.5.1	Face Recognition	156
24.5.2	Snapshot Search	159
24.5.3	Info Search	160
24.5.4	Arm Record	162
25	SMART TRACK	164
25.1	Flow	164
25.2	Add Monitor Task	164
25.3	Execution of Fisheye Monitor Task	167
26	RADAR SMART TRACK	169
26.1	Business Flow	169
26.2	Add Radar	169
26.3	Add Smart Track	173
26.4	Smart Track Plan Setup	177
26.5	Application Display	182
27	BACKUP AND RESTORE	184
27.1	System Backup	184
27.1.1	Intro to Function	184
27.1.2	Manual Backup	184
27.1.3	Auto Backup	186
27.2	System Recovery	188
27.2.1	Intro to Function	188
27.2.2	Restore Local File	188
27.2.3	Restore Server File	190
28	LOG	191
28.1	Intro to Function	191
28.2	Intro to Operation	191
29	STATISTICS	195
29.1	Overview	195
29.2	Running State	196

29.3	Status Info	197
29.3.1	Server State.....	197
29.3.2	Device Status	197
29.4	Event Information	199
29.5	Source Info	199
30	SYNC TIME	201
30.1	Device&Slave Server Sync Time	201
30.1.1	Function.....	201
30.1.2	Principle.....	201
30.1.3	Config	201
30.2	Client Sync Time	202
30.2.1	Function.....	202
30.2.2	Config	202
31	FTP	204
31.1	Usage.....	204
31.2	Config.....	204
31.3	Usage Display.....	205
32	VERSION	206
32.1	Client Version	206
33	NAMING RULE SETUP	207
34	PATH SETUP	208
35	HELP	209
36	SHORTCUT	210
	APPENDIX 1 SERVER MODULE	211

Welcome

Thank you for using our Digital Surveillance System (DSS) Pro!

This user's manual is designed to be a reference tool for operation of your system.

Here you can find detailed operation information about DSS.

Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

1 Overview

1.1 Product

DSS Professional is an importance surveillance platform product of Dahua Security Software family. It is designed for medium-large project. DSS Professional can effectively combine business of surveillance and user-friendly method to complete video view, PTZ control, talk, record play, event link and etc. DSS Professional has is simple, reliable, expansible, and other features. It provides users with HD, intelligent, secure and other terrific experiences. Meanwhile, DSS Professional adopts B/C, C/S structures taking into account needs of different users. It supports multi-point operation and management.

1.2 Highlight

- Brand new web manager operation interface, control client interface. Easier to use. User-friendly.
- Control client supports two types of skin (deep and light colors), and user can select accordingly.
- Hardware decoding, output more HD videos by maximizing PC performance.
- Import domain user, batch import corporate users.
- Find device, quickly add device, quickly manage device.
- Lock user when password input is wrong. Find back password.
- https certificate import.
- Remote disaster recovery and backup (DRB).
- ONVIF protocol device import, provide secondary development SDK matching to improve product expansibility.

2 Overall Flow Word

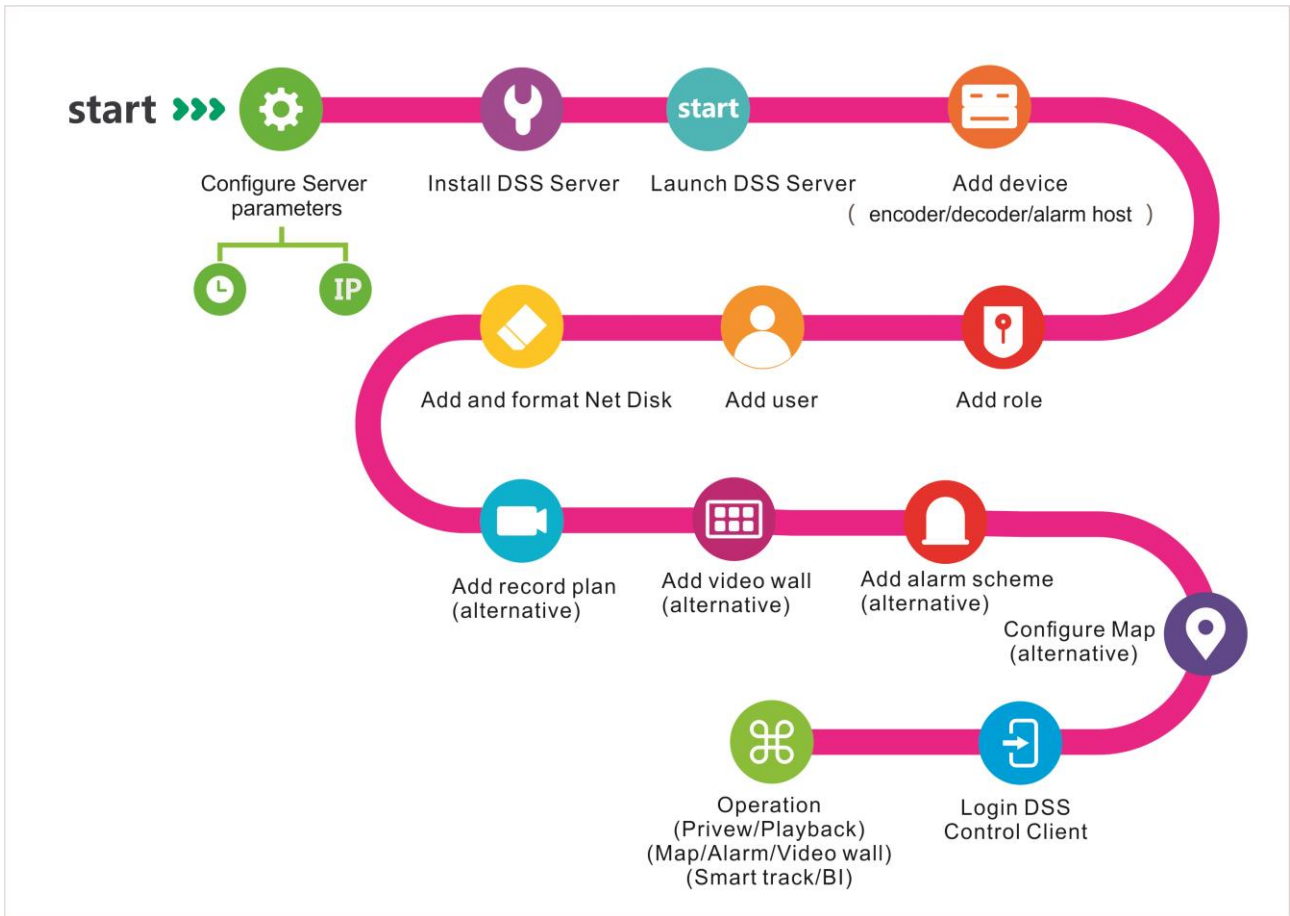


Figure 2-1

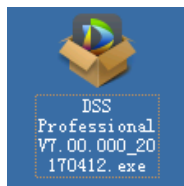
3 DSS Server Installation and Uninstallation

3.1 Server Config Requirement

Requirement of DSS Server	
Recommend	CPU: E5-2640 v3@2.60GHz 2.60GHz 8core RAM: 16GB Ethernet port: 1Gps System Disk: 1TB, 500G free for DSS.
Low-end	CPU: E3-1220 v5 @3.00GHz 3.00GHz 4core RAM: 8GB Ethernet port: 1Gps System Disk: 1TB, 500G free for DSS.

Chart 3-1

3.2 Installation



Step 1. Double click to enter installation mode, see Figure 3-1.



Figure 3-1

Step 2. Check I have read and agree the agreement, click Next.

Step 3. Select installation path, and you can use the default path, or customize path..

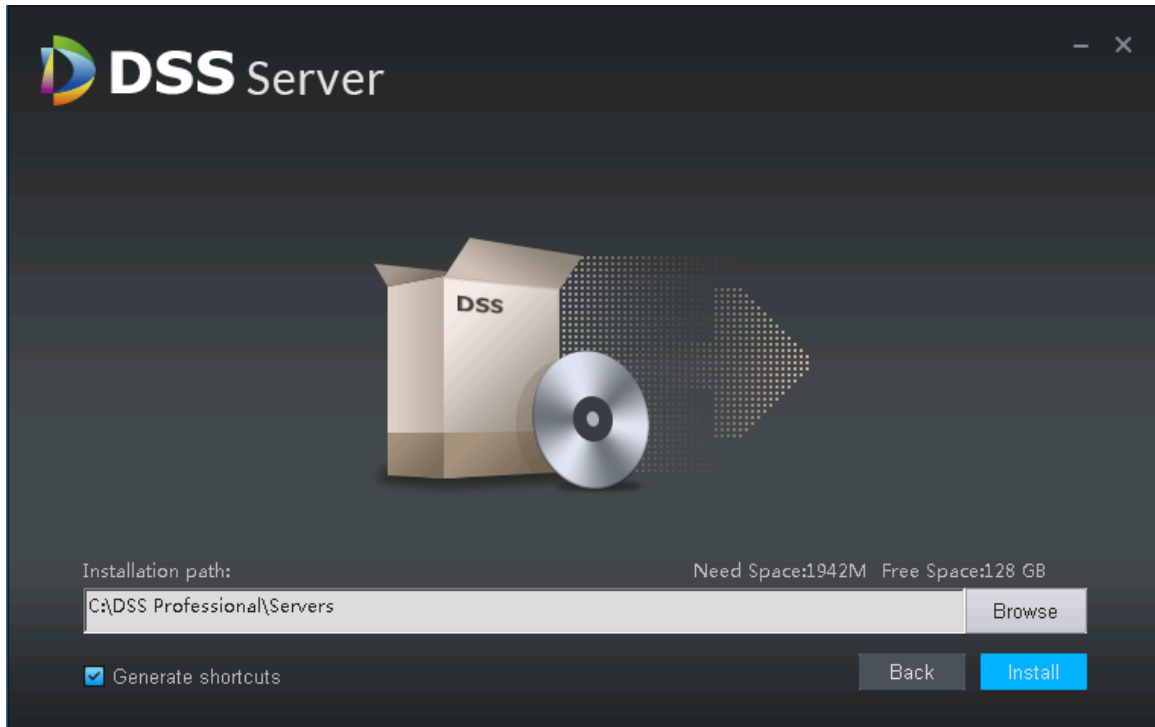


Figure 3-2



Figure 3-3

Note:

- After you select path, it will show space required to install and available space in the selected path, see Figure 3-2

- If “Install” button is grey, please check if installation path is correct, or if space available in installation path is enough.

Step 4. Customize installation path, click Install to start installation.

Step 5. It shows progress bar of installation and this takes about 3-5 minutes, please wait.

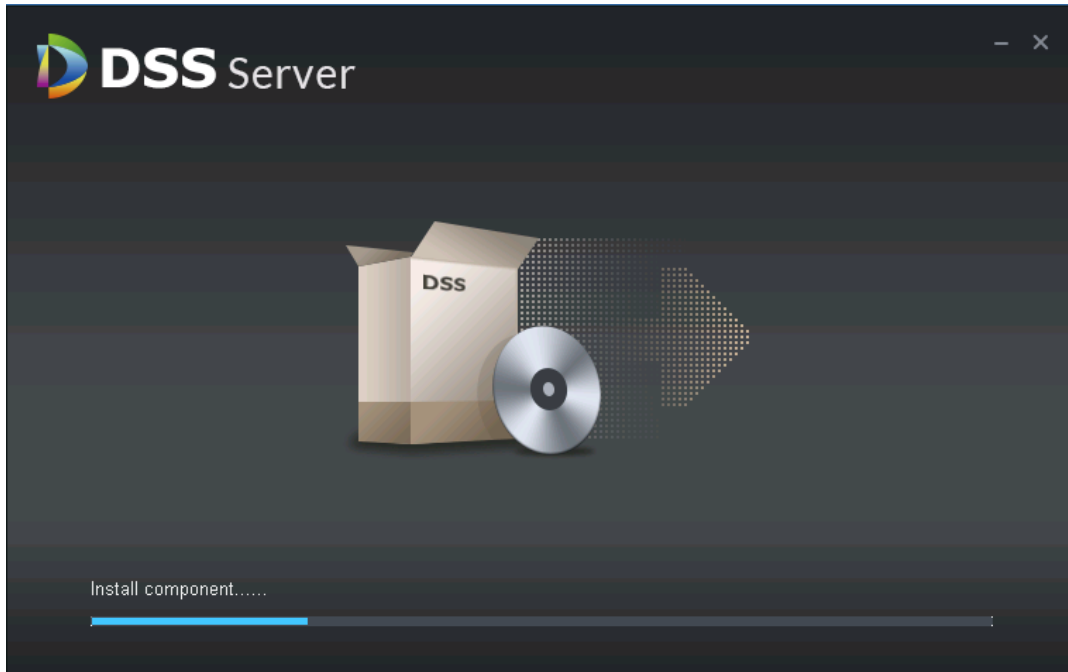



Figure 3-4

Step 6. Installation is complete, click Start New to enable DSS Pro, see Figure 3-5.



Figure 3-5

Step 7. Open  DSS Server shortcut icon to check server status which is normally running.

Service Name	Service Port	Status	Edit
DMS	9200	● Online	
MTS	9100	● Online	
SS	9320	● Online	
ADS	9600	● Online	
ARS	9500	● Online	
PCFS	14509	● Online	
MGW	9090	● Online	
MQ	61616	● Online	
WEB	80	● Online	

3.3 Uninstall

Step 1. Click Start>All Programs, select DSS Professional folder, click Uninstall DSS Professional.



Figure 3-6

Step 2. Click Uninstall button in Figure 3-7.

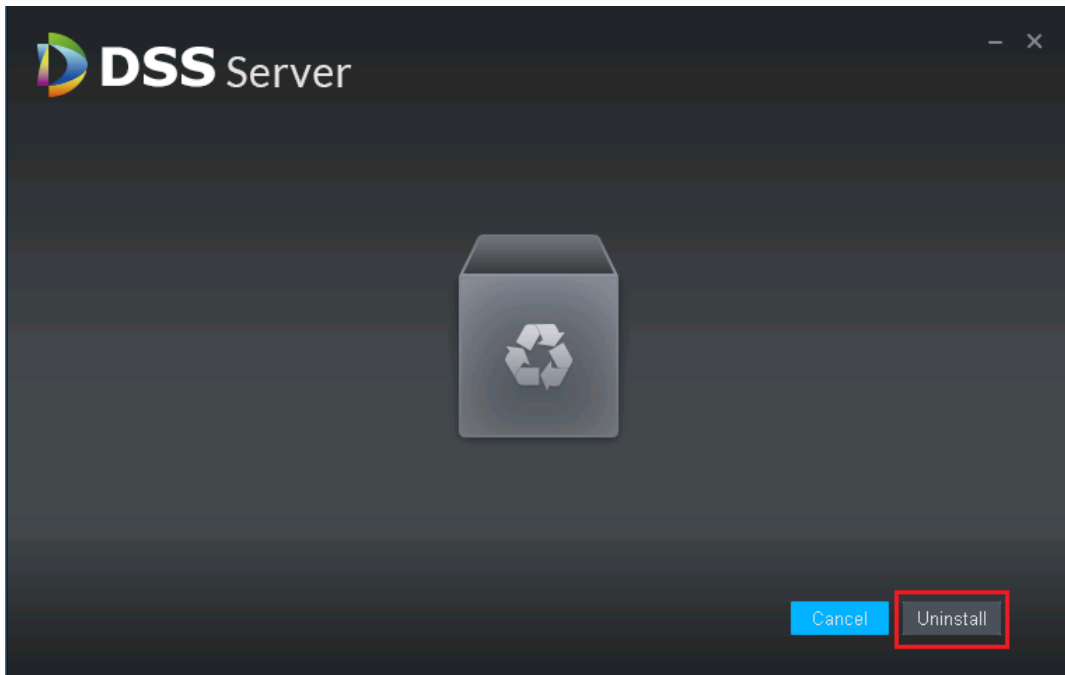


Figure 3-7

Step 3. After uninstallation is complete, if you see the pop-up, click OK.

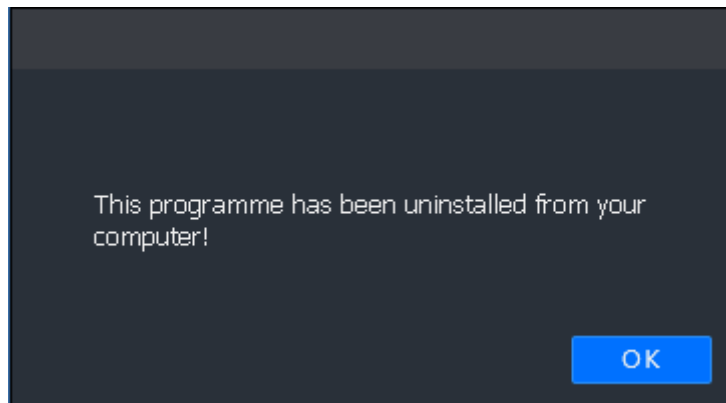



Figure 3-8

4 Distributed Deployment

4.1 Slave Server Installation



Step 1. Double click  to enter installation mode, see Figure 4-1. Check “I have read and agree the agreement”. Click Next to enter installation mode.

Step 1. Note:

Step 2. Program name includes version no. and date, please check it before installation.

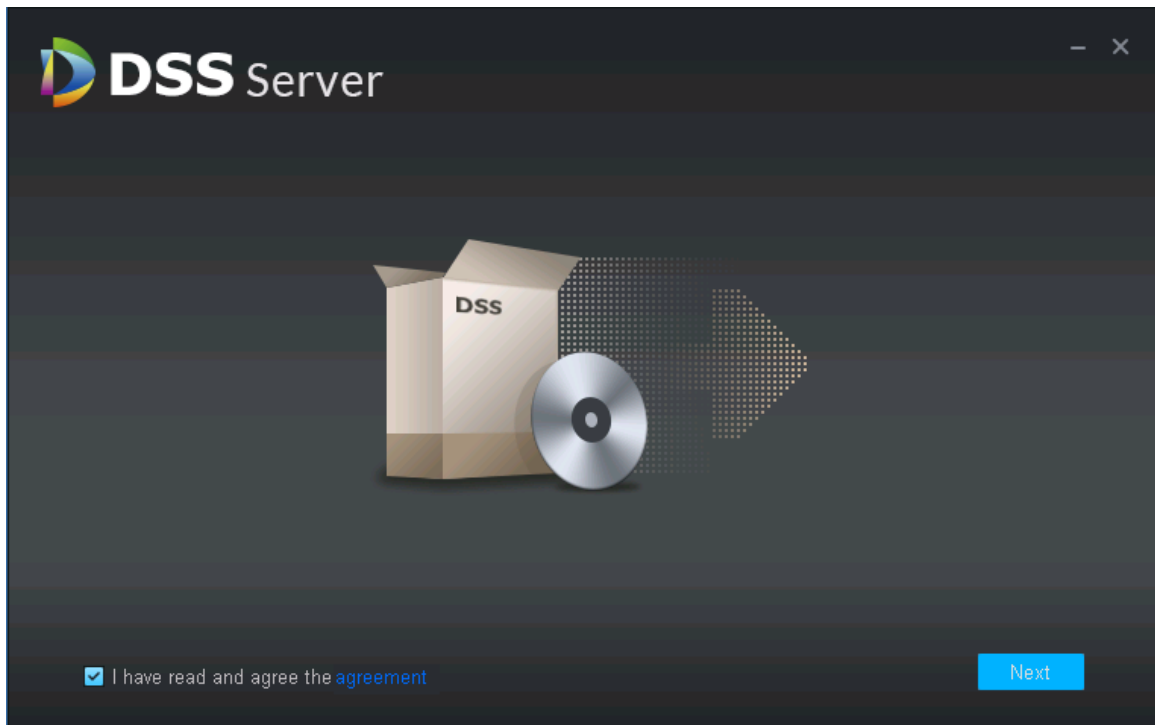


Figure 4-1

Step 2. Select installation mode, see Figure 4-2. Master is master mode, slave is slave mode. Set Https port, click Next to enter installation directory.

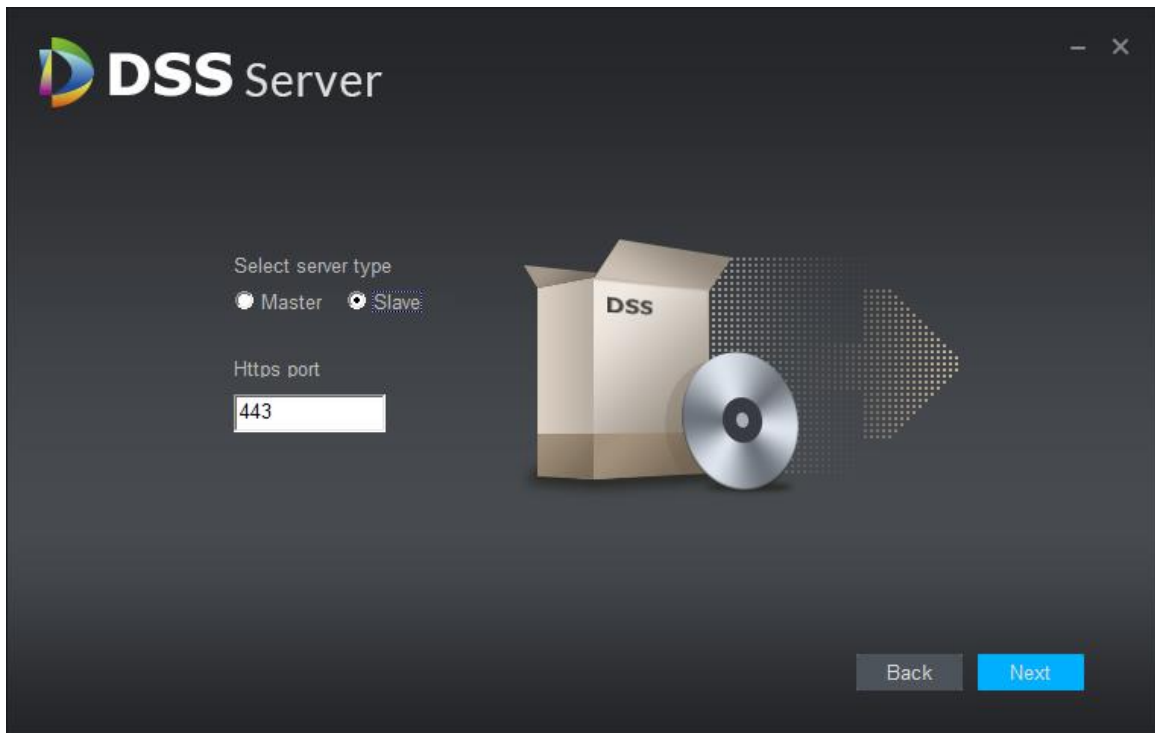


Figure 4-2

Step 3. Select storage path, you can use system default installation directory, as well as click **Browse** to customize installation directory. After you select installation directory, it shows space required and available path, see Figure 4-3.

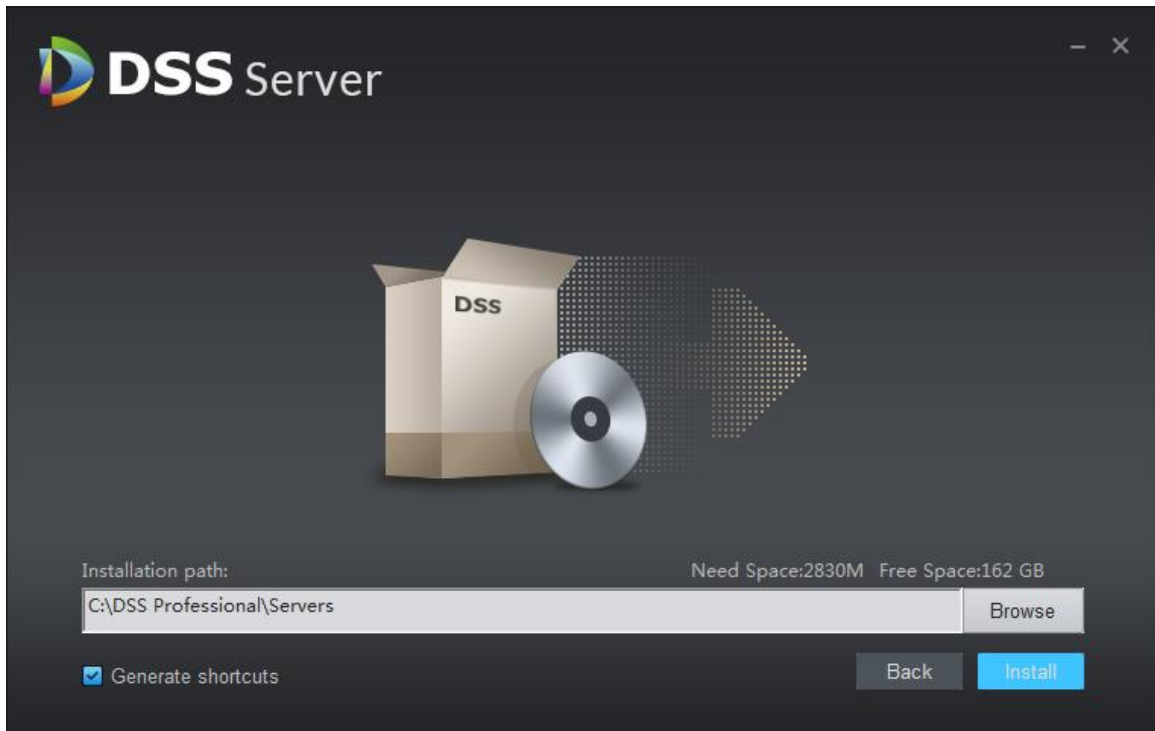


Figure 4-3

Step 4. Select storage path, you can use system default installation directory, as well as click **Browse** to customize installation directory. It shows space required for installation and available space in the path, see Figure 4-4.

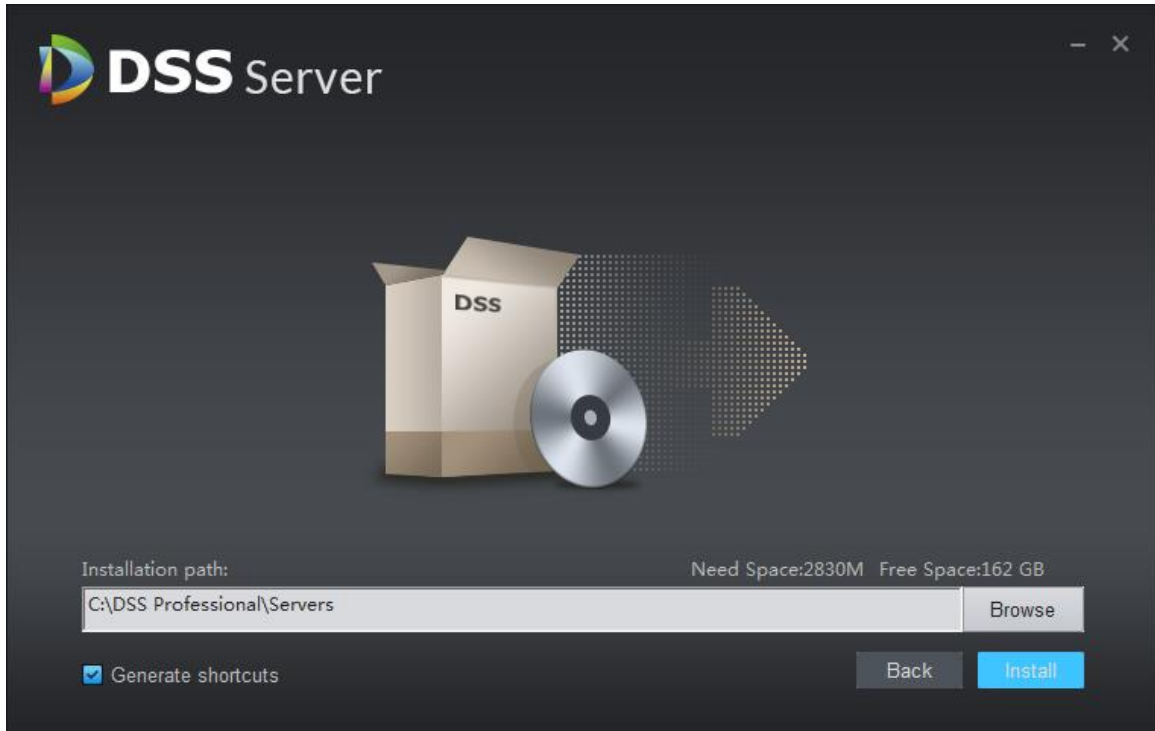


Figure 4-4

Note:

- If “Install” button is grey, please check if installation directory is correct, or space of installation directory is enough for the installation.

Step 5. Customize the installation directory, click “Install”, see Figure 4-5.

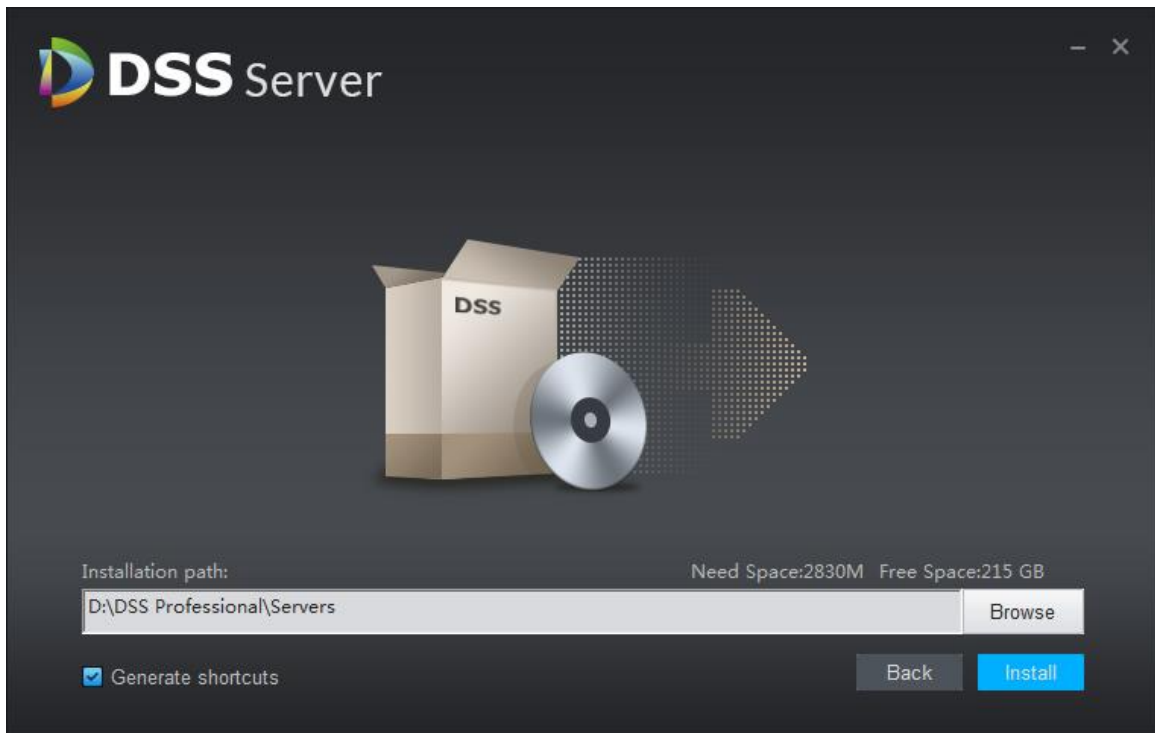


Figure 4-5

Step 6. Installation is complete, click “Start Now” to enable the program, see Figure 4-6.

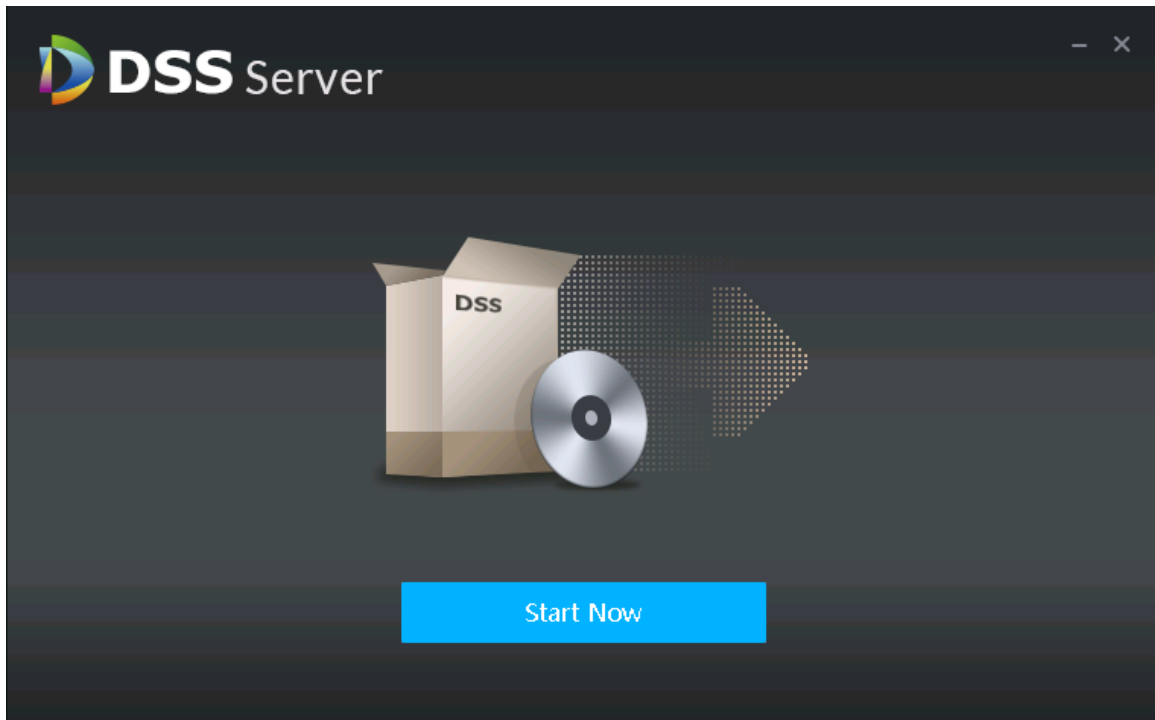



Figure 4-6

Step 7. Open  “DSS Server” to check server status, see Figure 4-7.

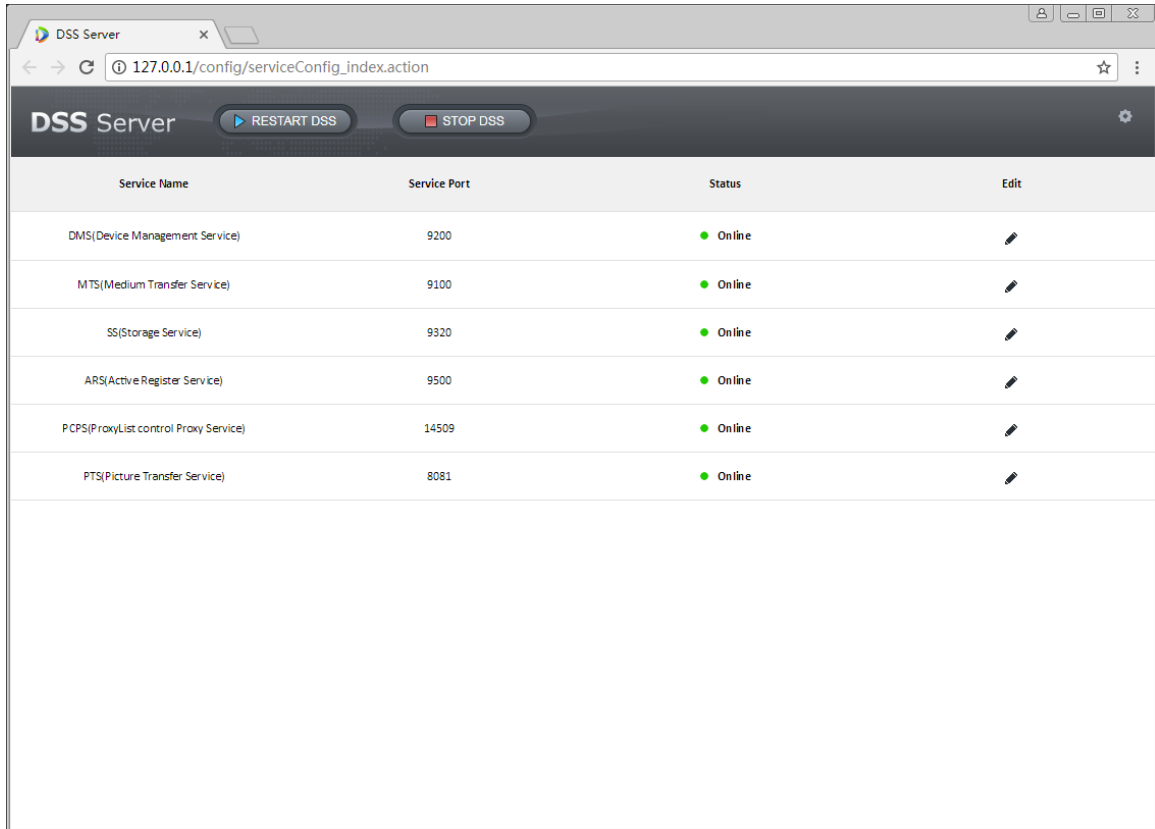


Figure 4-7

4.2 Slave Server Config

Slave server only configures master server's IP and port as to register on master server.

Step 3. Open DSS Server system on slave server, see Figure 4-8. Click the config button, and in pop-up interface, set master server IP address and port, default port is 80.

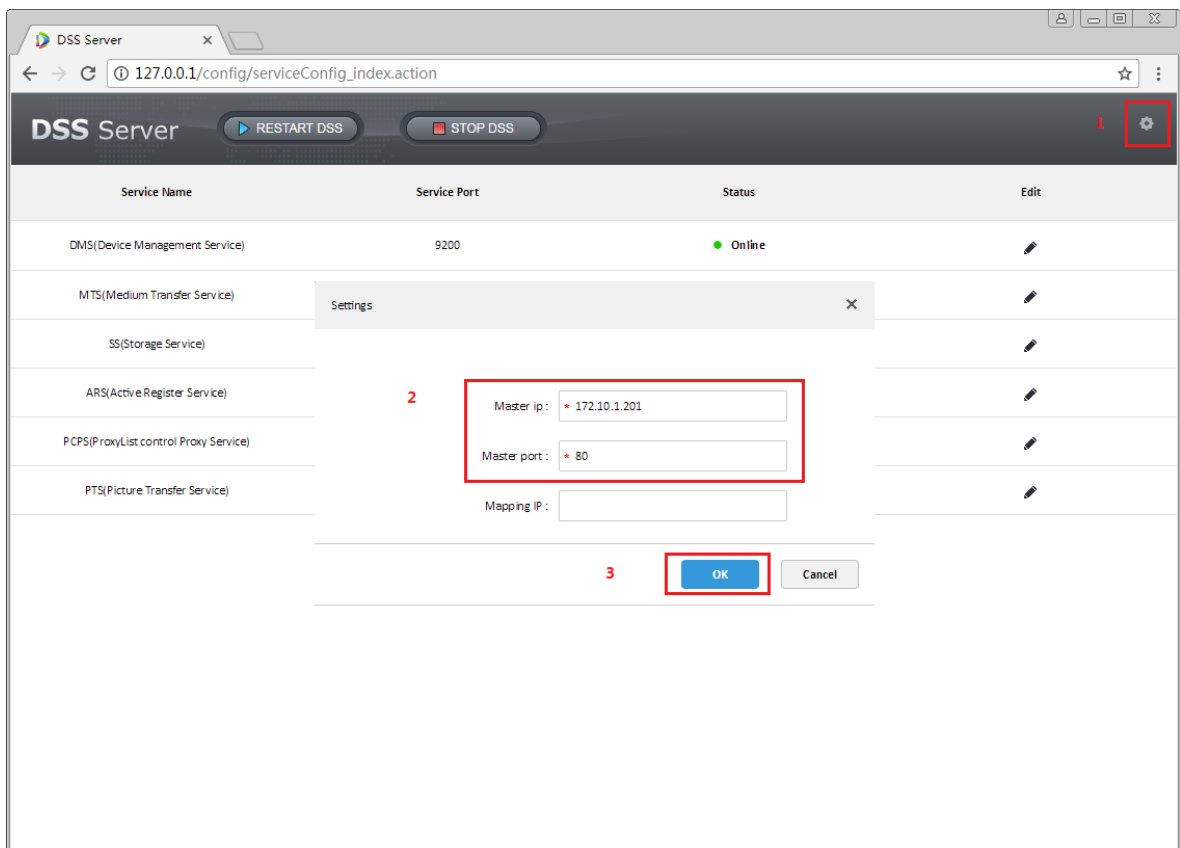


Figure 4-8

Step 4. Set server IP and port, click OK button. System will auto check master server IP and port for validity. If valid, it will auto reboot each server of slave server. DSS Server system will re-load. If invalid, then it pops up Figure 4-9, and you must set again.

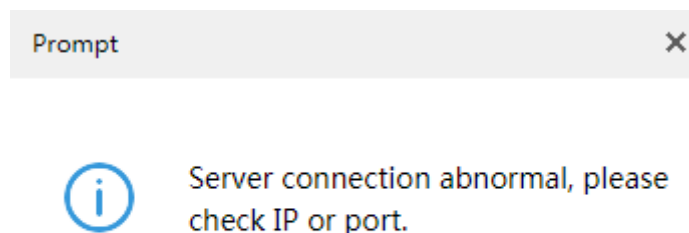


Figure 4-9

4.3 Slave Server Status Display

Registration and operation status shall be viewed on master server manager, detailed path is: master server manager—operation and management statistics.

Step 1. Log in master server manager, enter operation and maintenance statistical module. In status info module, you can see quantity and status of all server, see Figure 4-10.

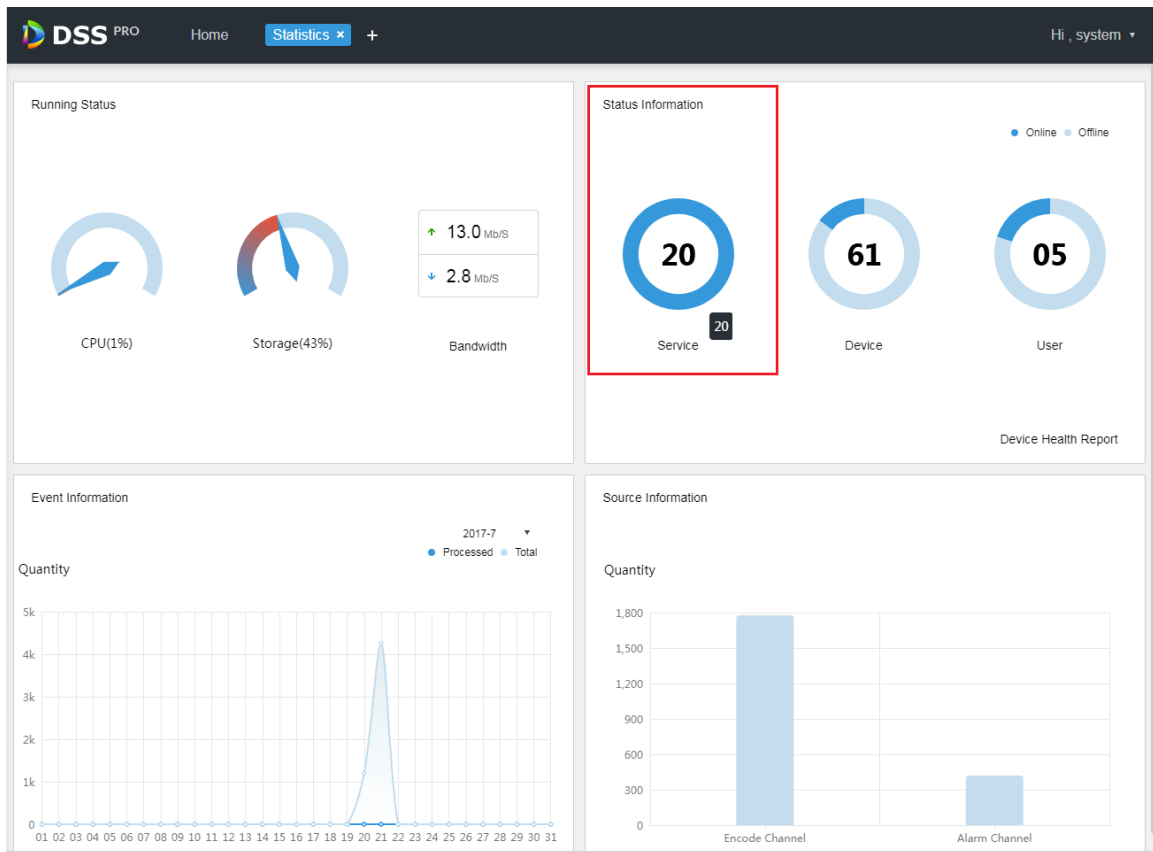


Figure 4-10


Step 2. Click Service to view server details, see Figure 4-11. Device ID is master as master server, and others are slave servers.

The screenshot shows the 'Server Status' page in the DSS PRO application. The page features a sidebar on the left with navigation links: 'Server Status' (selected), 'Device Status', 'User Status', and 'Device Health Report'. The main content area displays a table with the following data:

Name	IP Address	Server Status	Device ID
▶ Center Server	172.10.1.177	Type: Home Server Running Status: ▶ Running Enable Status: ● Enable	master
▶ 172.10.1.172	172.10.1.172	Type: Home Server Running Status: ▶ Running Enable Status: ● Enable	e8:61:1f:14:2d:a9

At the bottom of the table, it indicates 'Total 2 record(s)'. There are also pagination controls showing 'Go to page 1' and a 'Go' button.

Figure 4-11

Step 3. Click  to expand server details of this server, see Figure 4-12.

Server Status				
	Name	IP Address	Server Status	Device ID
	Center Server	172.10.1.177	Type:Home Server Running Status: Running Enable Status: Enable	master
	172.10.1.172	172.10.1.172	Type:Home Server Running Status: Running Enable Status: Enable	e8:61:1f:14:2d:a9
Video Unit	Name	Service Type	Status	
	ARS(8001)	ARS(Active Register Service)	Online	
	MTS(2001)	MTS(Medium Transfer Service)	Online	
	DMS(4001)	DMS(Device Management Service)	Online	
	PCPS(9001)	PCPS(ProxyList Control Proxy Service)	Online	
	MCDRADAR(49001)	MCDRADAR(Radar Management Service)	Online	
	MCDPOS(39001)	MCD_POS(Multi-Control Device)	Online	
	SS(1001)	SS(Storage Service)	Online	
	PTS(13001)	PTS(Picture Transfer Service)	Online	

Figure 4-12


5 Enable/Disable Server

5.1 Stop Server

Warning:

For security reason, DSS Server only can be opened on DSS server.

To stop server:

Step 1. Login DSS installation server, double click  DSS Server desktop shortcut.

Step 2. Click STOP DSS button, see Figure 5-1.

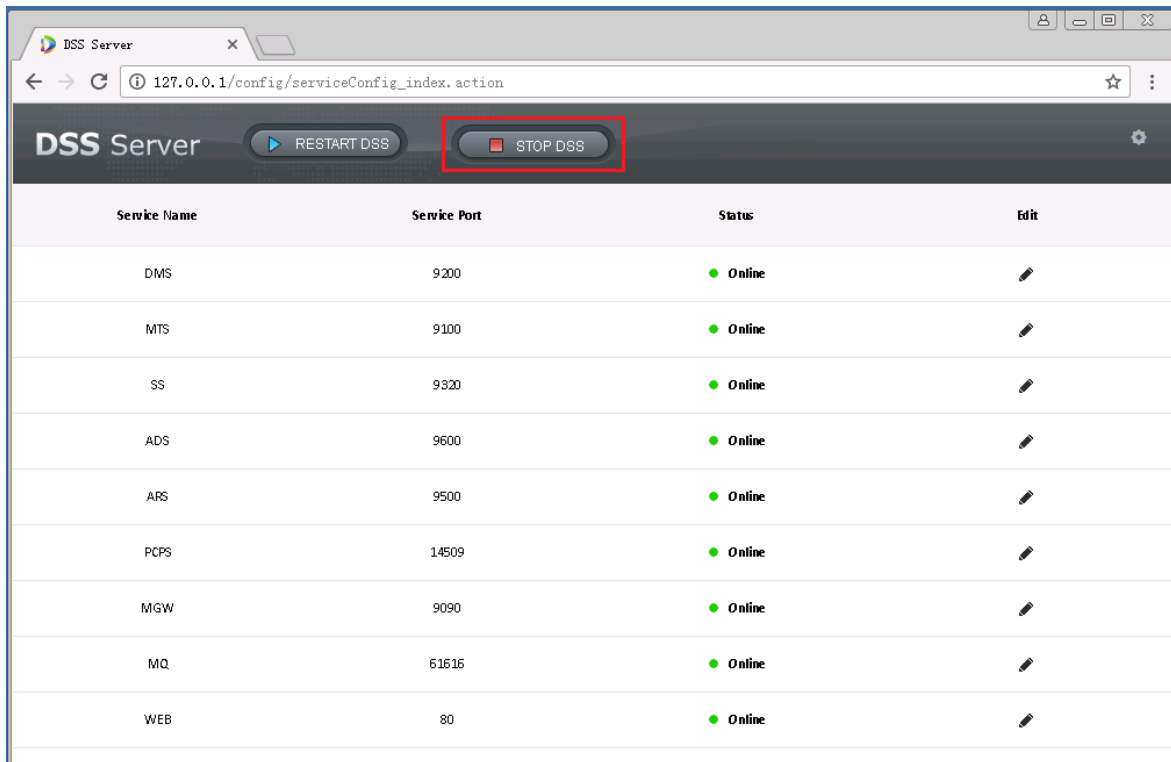



Figure 5-1

Step 3. In pop-up box below, click  to stop server.

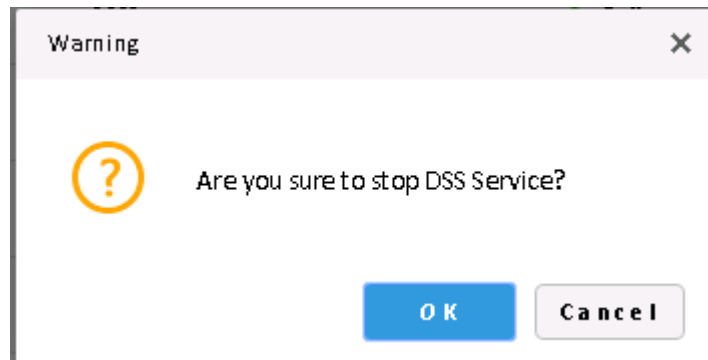



Figure 5-2

5.2 Enable Server

- Step 1. Login DSS installation server, double click  DSS Server desktop shortcut.
- Step 2. DSS server needs a few minutes to boot up, please wait. It will show Figure 5-3.

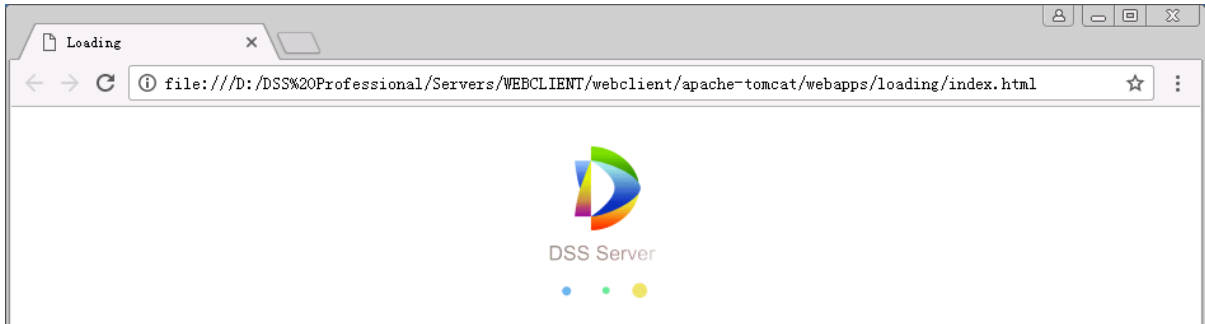


Figure 5-3

- Step 3. Successfully boot system, see Figure 5-4.

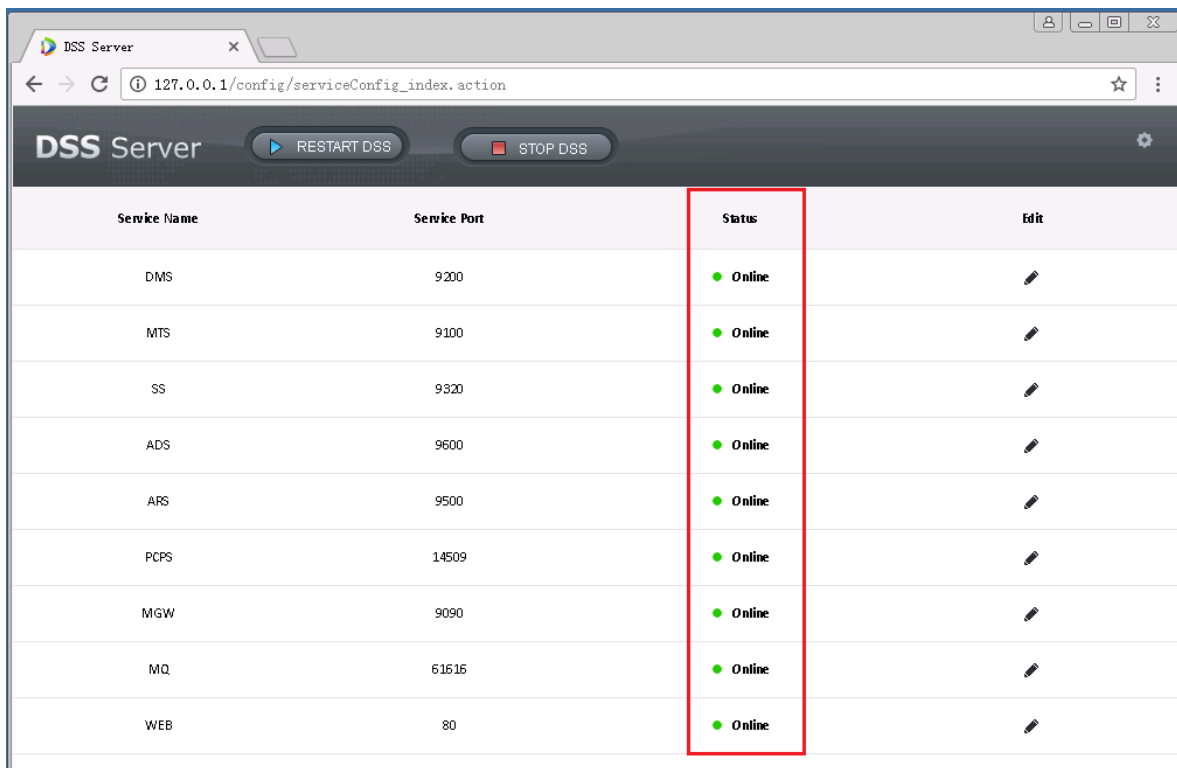




Figure 5-4

5.3 Reboot DSS Server

- Step 1. Login DSS Server, double click  DSS Server desktop shortcut.
- Step 2. Click  button to reboot all DSS servers, see Figure 5-5.

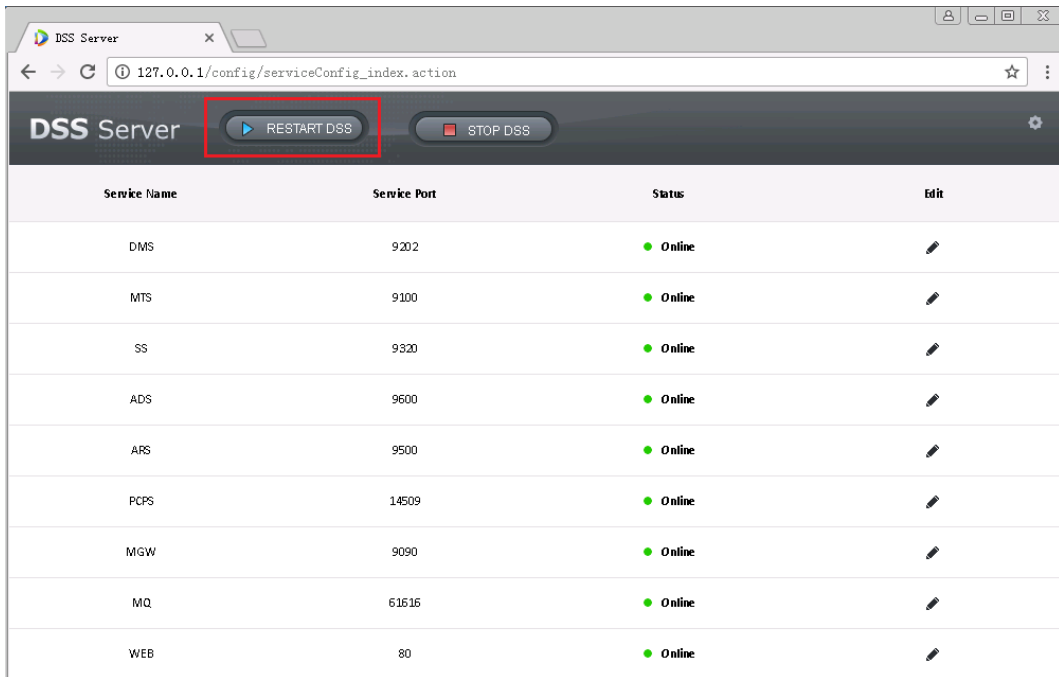


Figure 5-5

Step 3. In figure below, click  button to reboot all servers.

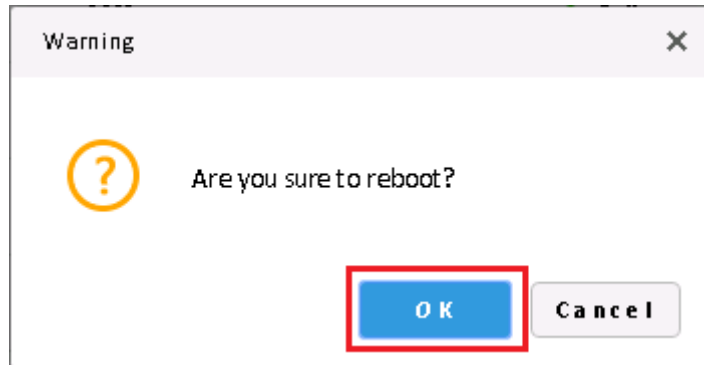




Figure 5-6

Step 4. Double click to open  DSS Server desktop shortcut to confirm all boot up statuses.

6 Change Server Port

6.1 Change CMS Port

Step 1. Login DSS installation server, double click to open  DSS Server desktop shortcut.

Step 2. Click Config button at the upper-right corner, see Figure 6-1.

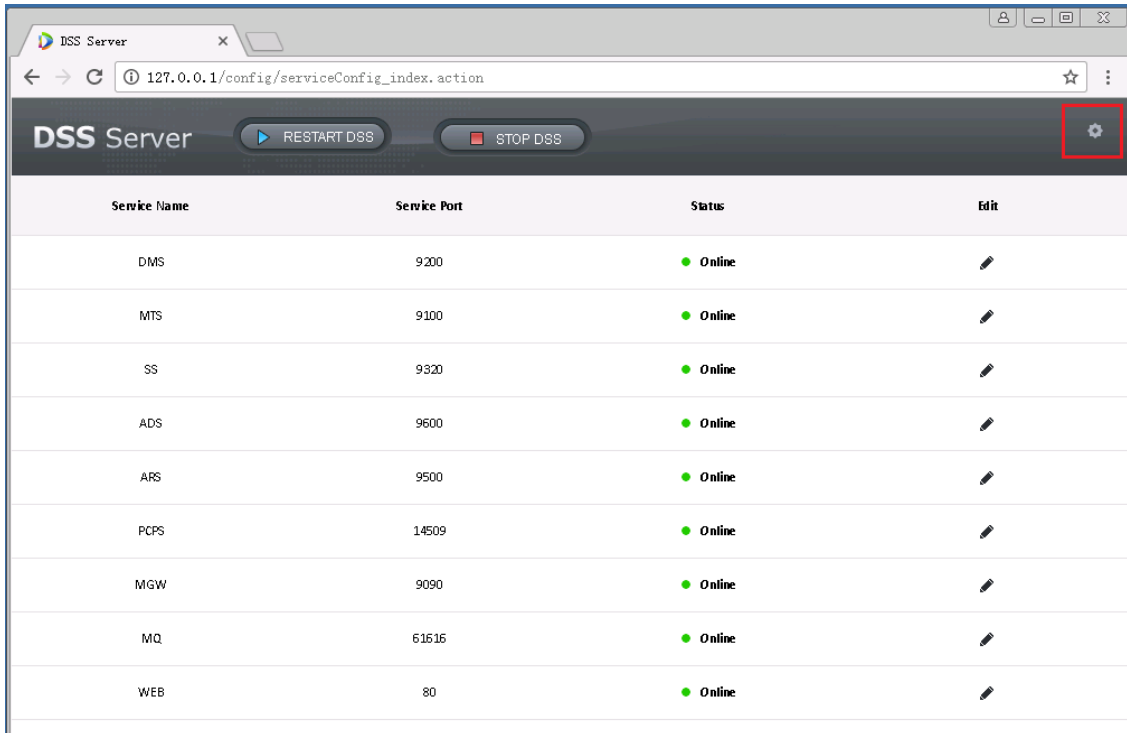
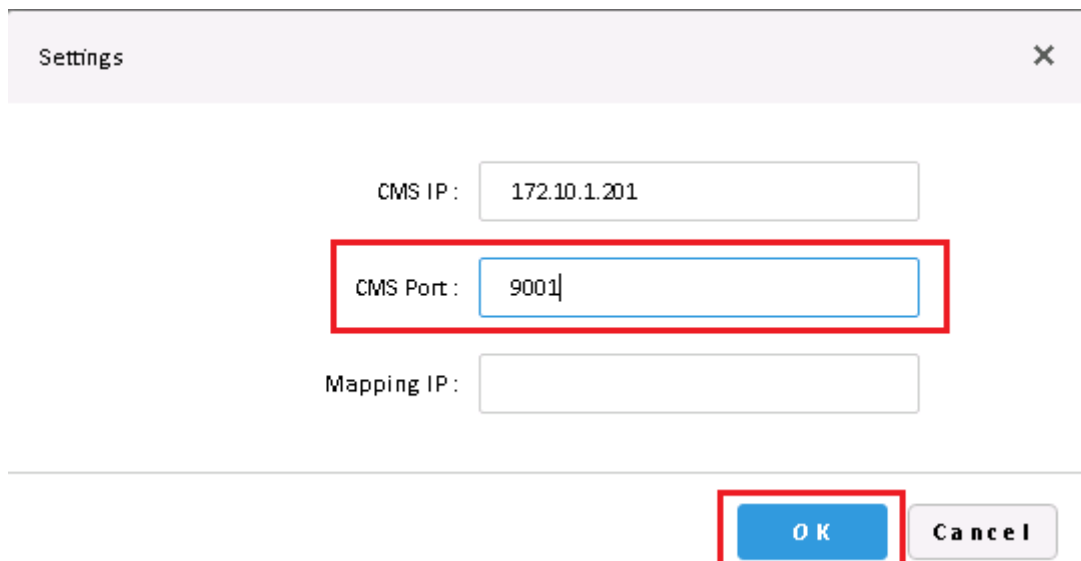


Figure 6-1

Step 3. Fill in CMS port value, see Figure 6-2. Click  button and system will reboot server.



Settings

CMS IP : 172.10.1.201


CMS Port : 9001


Mapping IP :

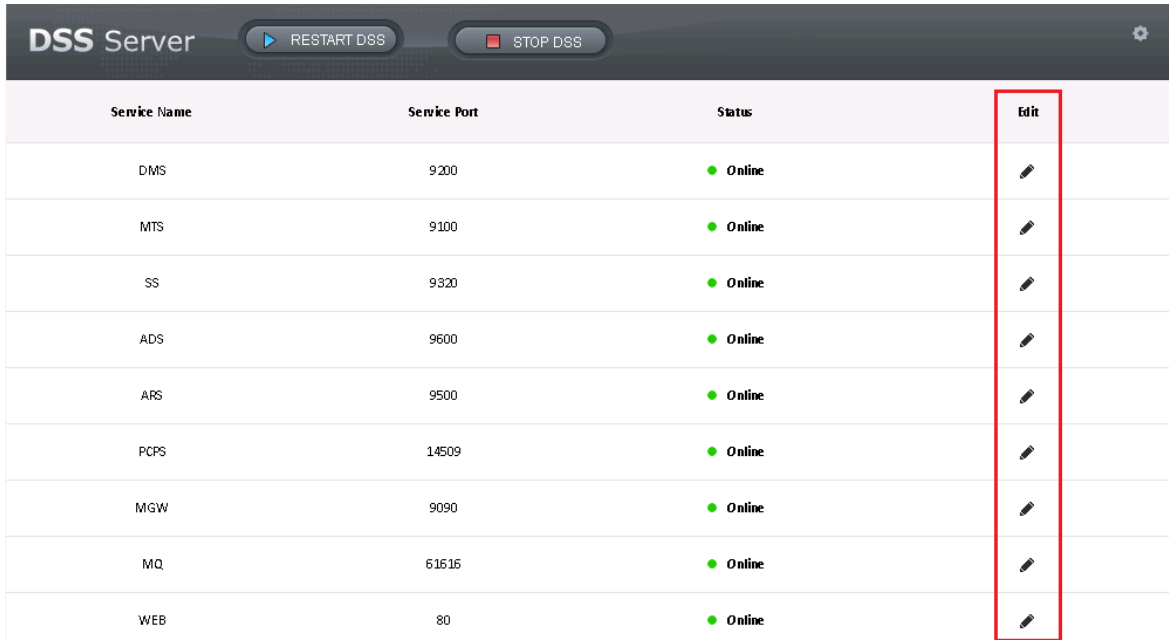
OK Cancel

Figure 6-2

6.2 Change Other Server Port

Step 1. Login DSS installation server, double click to open  DSS Server desktop shortcut.

Step 2. Click , to modify corresponding server port info. If it has LAN/WAN setup, you shall change LAN and WAN to a identical customized value by user. See Figure 6-3.












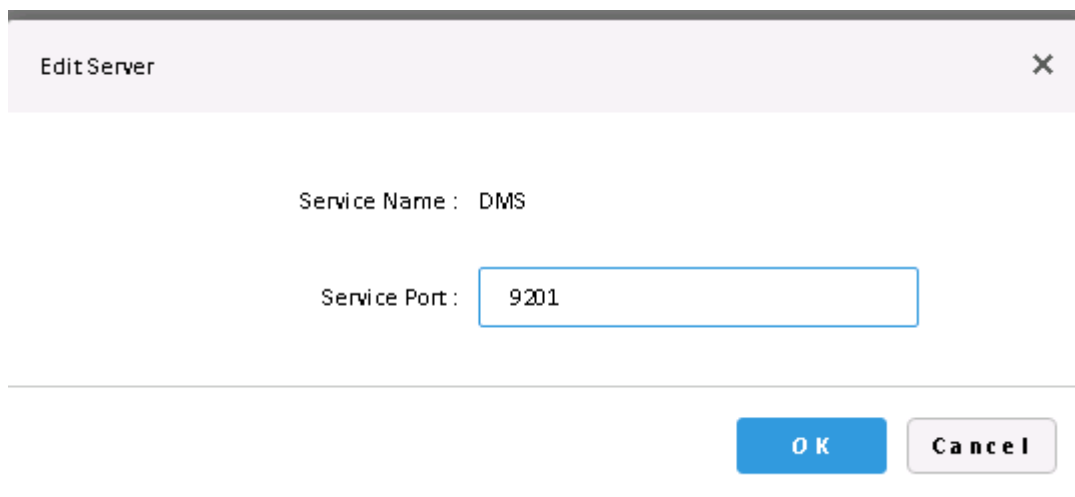
Service Name	Service Port	Status	Edit
DMS	9200	● Online	
MTS	9100	● Online	
SS	9320	● Online	
ADS	9600	● Online	
ARS	9500	● Online	
PCPS	14509	● Online	
MGW	9090	● Online	
MQ	61616	● Online	
WEB	80	● Online	

Figure 6-3

For example to change DMS server port to 9201.

Step 3. Click  button of DMS server, and fill in port value.




Dialog box titled "Edit Server" with a close button (X).

Service Name : DMS

Service Port :

Buttons: **OK** (blue), **Cancel** (grey)

Figure 6-4

Step 4. Click  button to save config. If the port is occupied, you will see Figure 6-5.

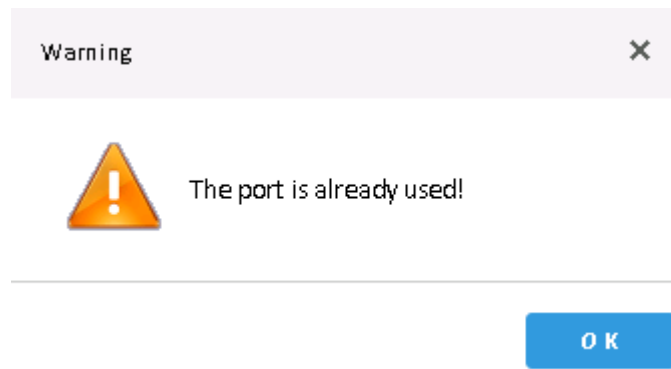



Figure 6-5

Step 5. Click  to modify port again. If you change to 9202, you can confirm it in server list after being successfully modified.


Service Name	Service Port	Status	Edit
DMS	9202	● Online	

Figure 6-6

7 LAN/WAN Mapping

Warning:

Current DSS Server config system does not differentiate LAN and WAN, and their port config are the same.

7.1 Flow

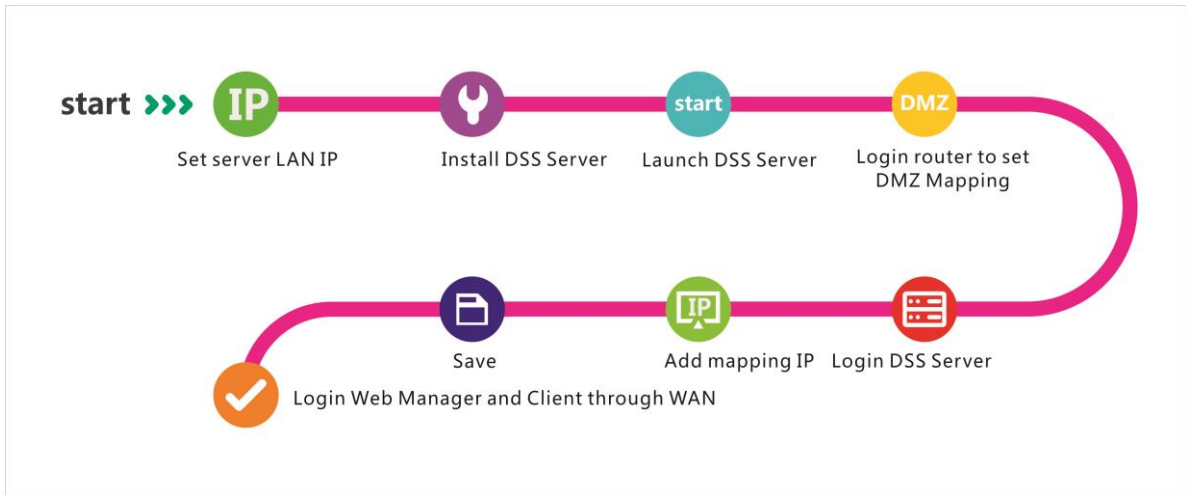



Figure 7-1

7.2 Router Config

We recommend DMZ mapping. If it is not supported by the environment, you need to open the following ports: 80, 61616, 9090, 14509, 9500, 9600, 9320, 9100, 9200. Please see appendix 1.

If port is occupied already, for example port 80 has been occupied and instead to use port 81, see Ch 4.2., and add mapping rule on router.

7.3 DSS Platform Config

Step 1. Login DSS installation server, double click  DSS Server desktop shordcut.

Step 2. Click Config button at the upper-right corner, see Figure 7-2.

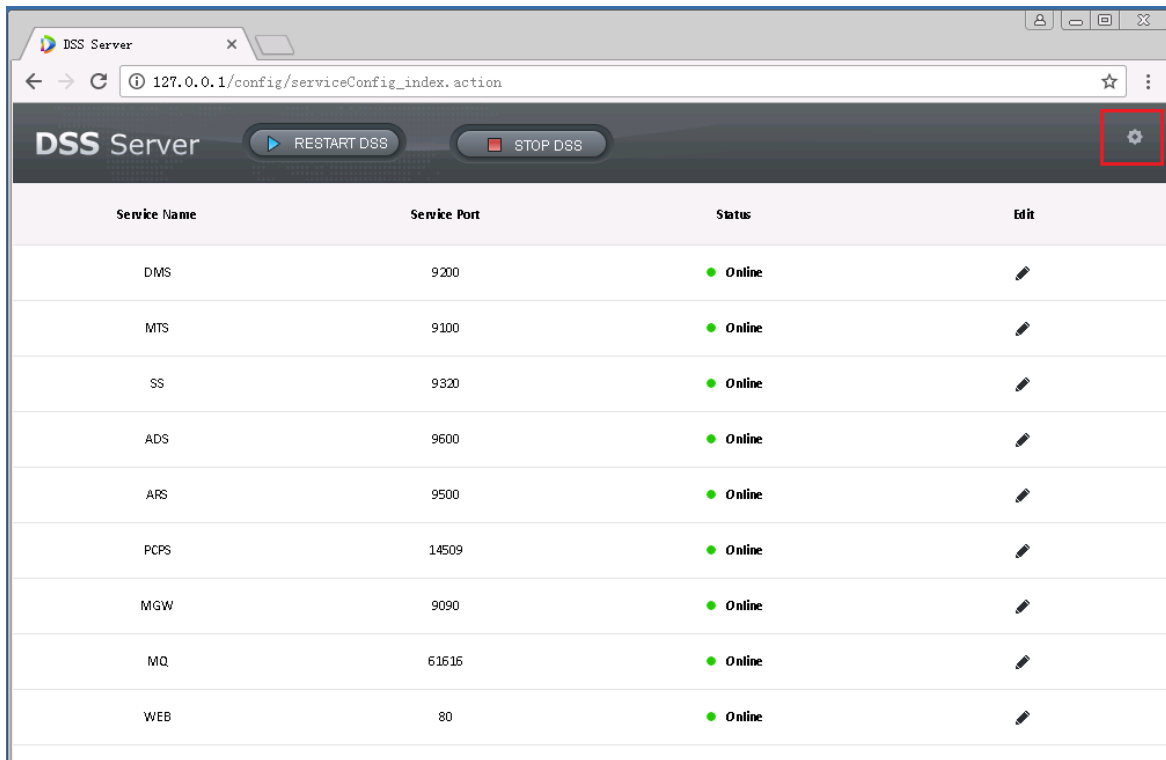



Figure 7-2

Step 3. Fill in WAN address, which is mapping address, see Figure 7-3. Click  to complete server config and reboot.

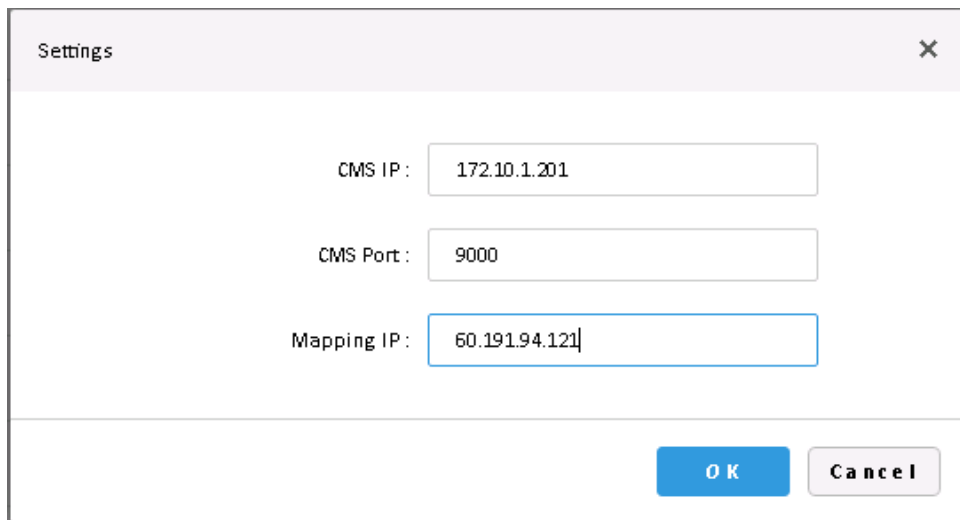


Figure 7-3

8 Login to the DSS Manager

For login to the DSS PROFESSIONAL platform, IE9 and higher, Google Chrome, or Firefox is required.

8.1 Login Web

Step 1. Input the IP address of the DSS platform in IE and click “Enter”,The system will display the “Login” interface as shown in Figure 8-1. Click  to download the Client

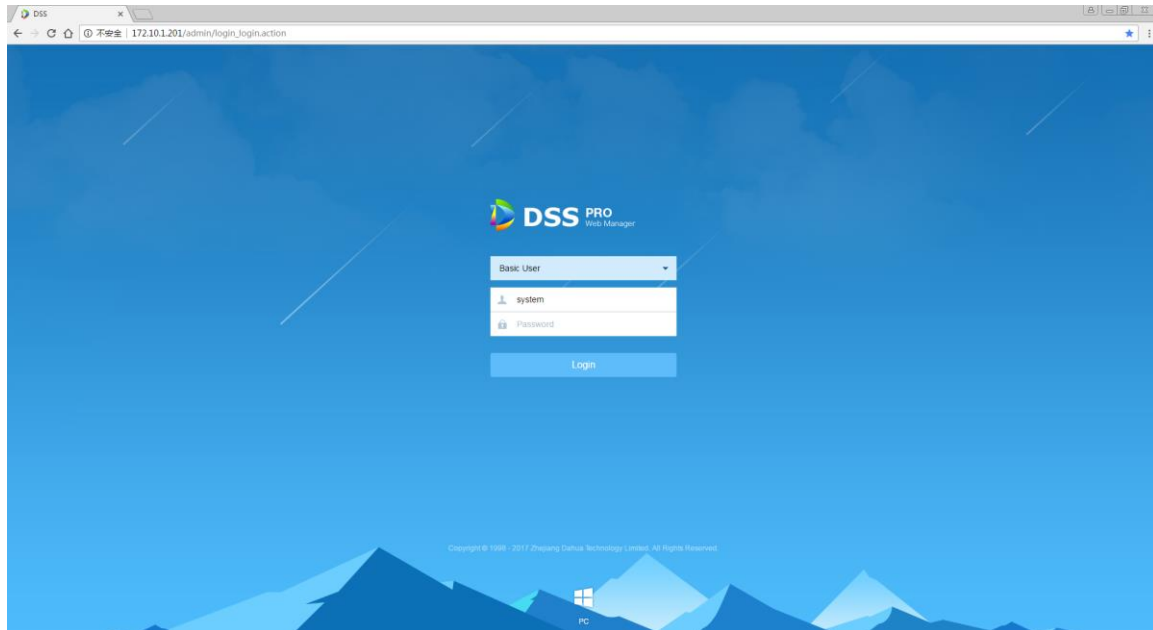


Figure 8-1

Step 2. Enter username and password, default is system and 123456 respectively. For the homepage pops up after logging in. See Figure 8-2.

Note

When logging in with the initial password, a dialogue box for changing the password will pop up. In order to continue logging in, users must change the initial password.

If it's your first-time logging into the DSS system, then please add this IP to the trust list.

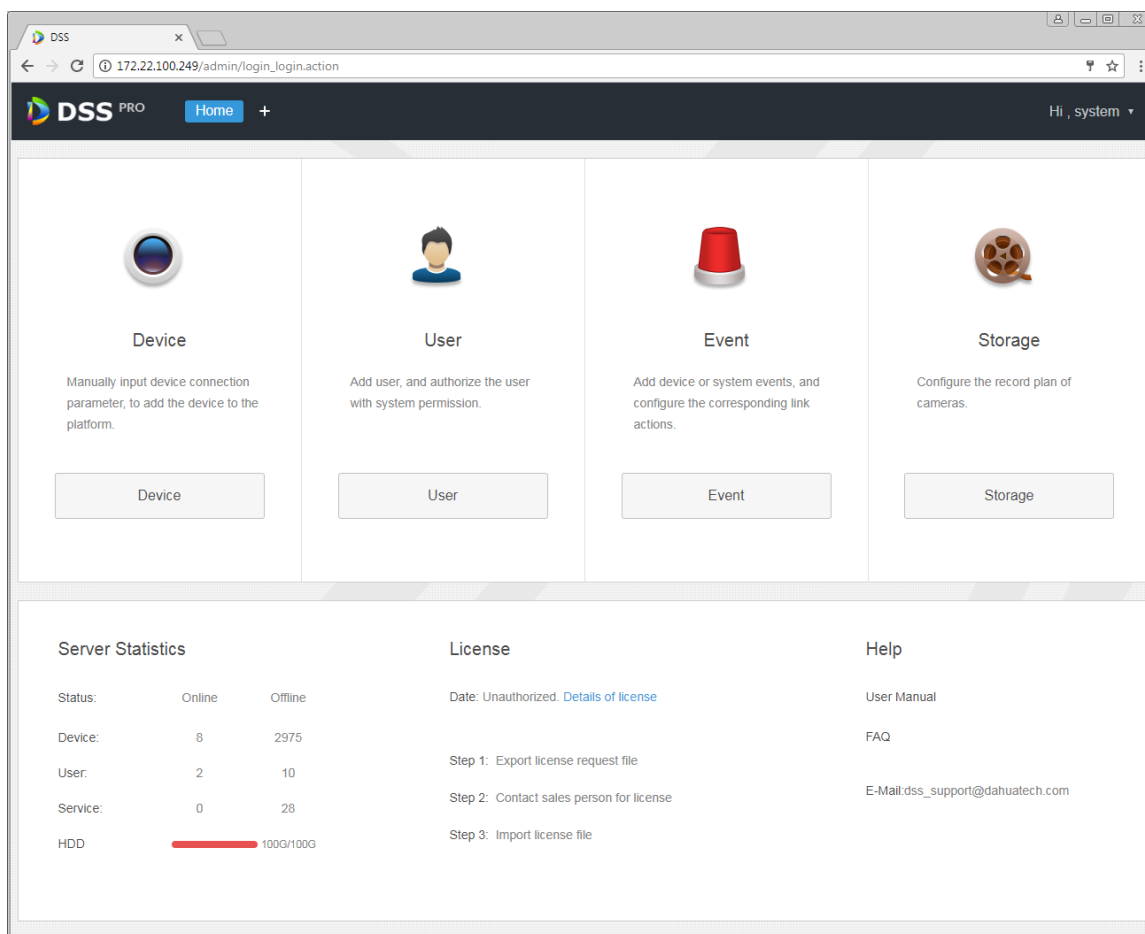




Figure 8-2

- In order to change the password or log out, click username on the right upper corner.
- Quick entry of commonly used modules are displayed on the interface. To display all functional modules or open a new one, click the  on the right of the Home button.
- Overview: For displaying the online/offline status of devices, users, services, etc., as well as the occupied space on the hard discs.
- Authorization: To view the authorization details, and purchase the license file by following related procedures if necessary.
- Help: To view the user guide, operation manual for mobile clients, FAQ files, etc.

8.2 System Configuration

For the first-time login to the DSS system, please configure the system parameters first to ensure a normal operation. Steps for configuring system parameters:

- Step 1. Click  on the right side of the “Home” button, All functional blocks will be displayed on the interface, as shown in Figure 8-3.

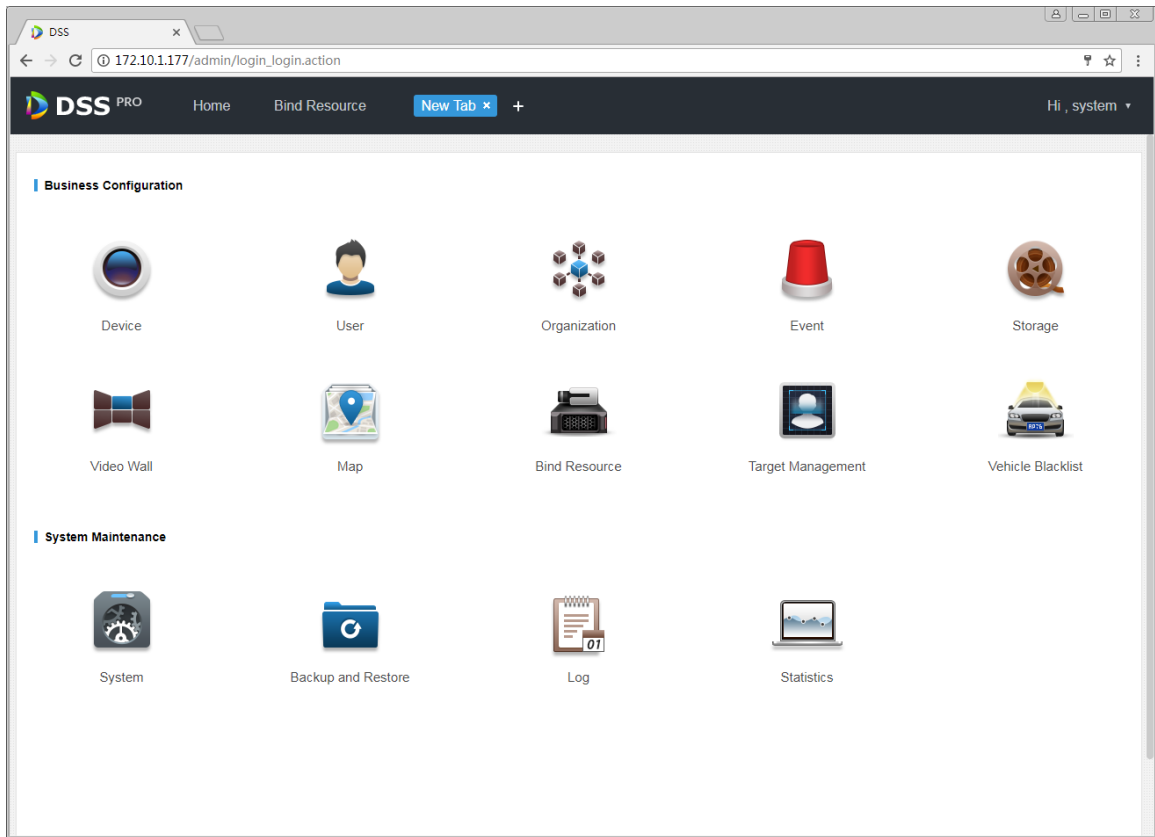


Figure 8-3

Step 2. Click "System", The system will display the interface as shown in Figure 8-4.

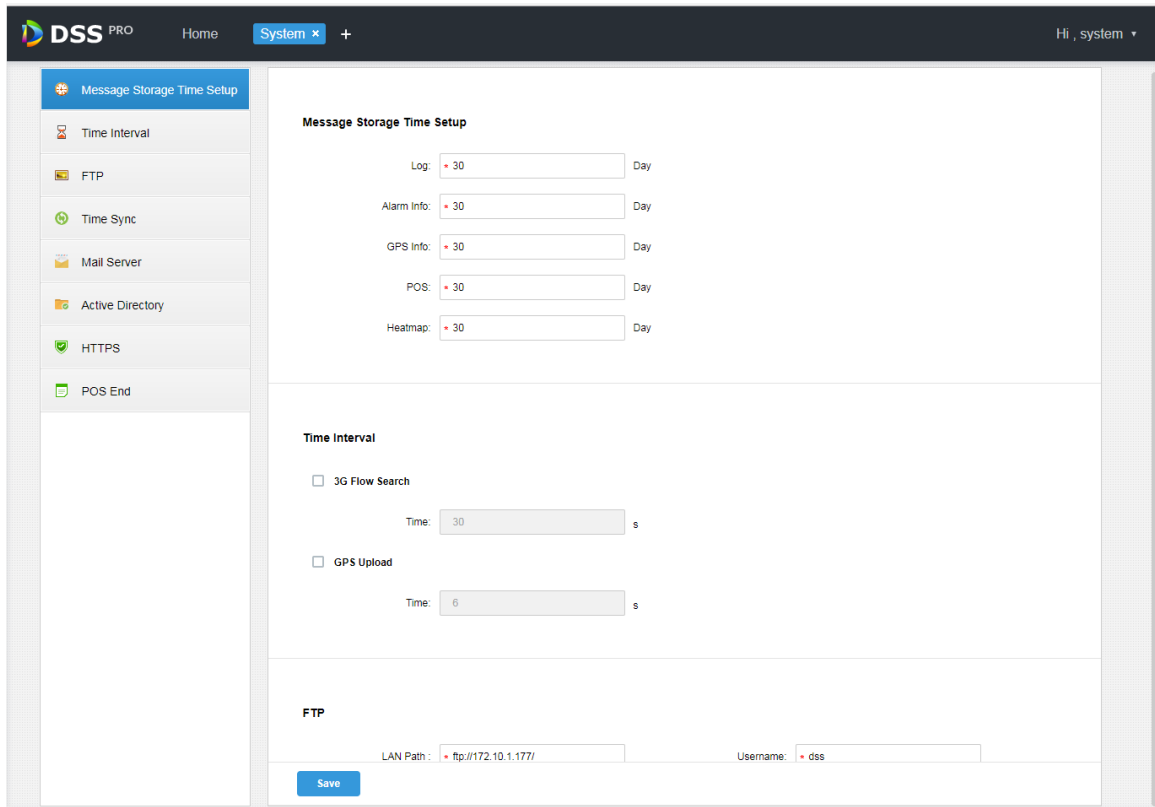


Figure 8-4

Parameter		Note
Info Retention Time Setup	Log	Set the maximum retention time for logs. The default retention period is 30 days.
	Alarm Info	Set the maximum retention time for Alarm Info. The default retention period is 30 days.
	GPS Info	Set the maximum retention time for GPS Info. The default retention period is 30 days.
	Heatmap	Set the maximum retention time for Heatmap Info. The default retention period is 30 days.
Time Interval Setup	3G Flow Search Setup	Check to enable the item, and set up time interval for querying 3G flow consumption.
	GPS Upload Setup	Check to enable the item, and set up time interval at intervals. The GPS Info will be uploaded to the platform at intervals of the setting value.
FTP Setup	LAN Path	LAN path of the ftp server for placing files.
	WAN Path	WAN path of the ftp server for placing files.


Parameter		Note
	Username/Password	Username and password used for login to the ftp server.
Time Interval Setup	Device Sync	Check the item to enable the Device Sync function.
	Start Time	Set up the start time for device synchronization.
	Sync Interval	<p>Taking the time of the server as standard, synchronize the device with the server.</p> <p>The default value is 2 hours, which means that the system will, taking the time of the server as standard and synchronize the device with the server at intervals of 2 hours.</p> <p> Note SDK is used to synchronize devices with the server.</p>
	Server Sync	Check the item to enable the Server Sync function.
	Server IP	Set up IP and update period for the server, which is taken as standard to synchronize other servers.
	Sync Time	Click this button to start the synchronization immediately.
Mail Server Setup		Enter information including IP and port of the mail server, cipher mode, username/password, sender, test recipient, etc.
Active Directory Setup		Configure domain information.
HTTPS Setup		Enable HTTPS Secure Validation.

Table 8-1

Step 3. Configure relevant parameters.

Step 4. Click "Save".

9 Add Organization and Login Users

Directly enter IP address of the DSS platform in IE address bar, to login to the DSS Manager.

9.1 Add Organization

For the sake of management, adding organizations to deploy, organize, and manage layers of users and devices. Or put the newly added users and devices under the default organization without adding a new organization.

The first level organization defaults to “Root”; newly added organizations will be placed on the next level subordinated to “Root”.

Detailed steps are listed below:

Step 1. Click  on the right side of the “Home” button.

All functional blocks will be displayed on the interface, as shown in Figure 9-1.

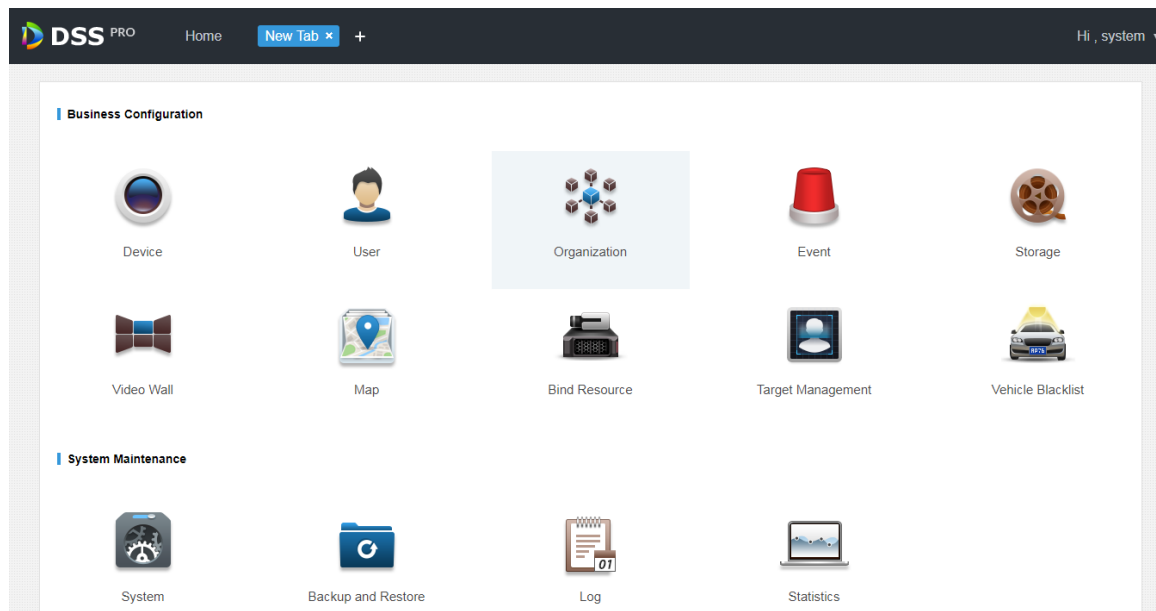


Figure 9-1

Step 2. Click “Organization”.

The organization management interface will be displayed as in Figure 9-2.

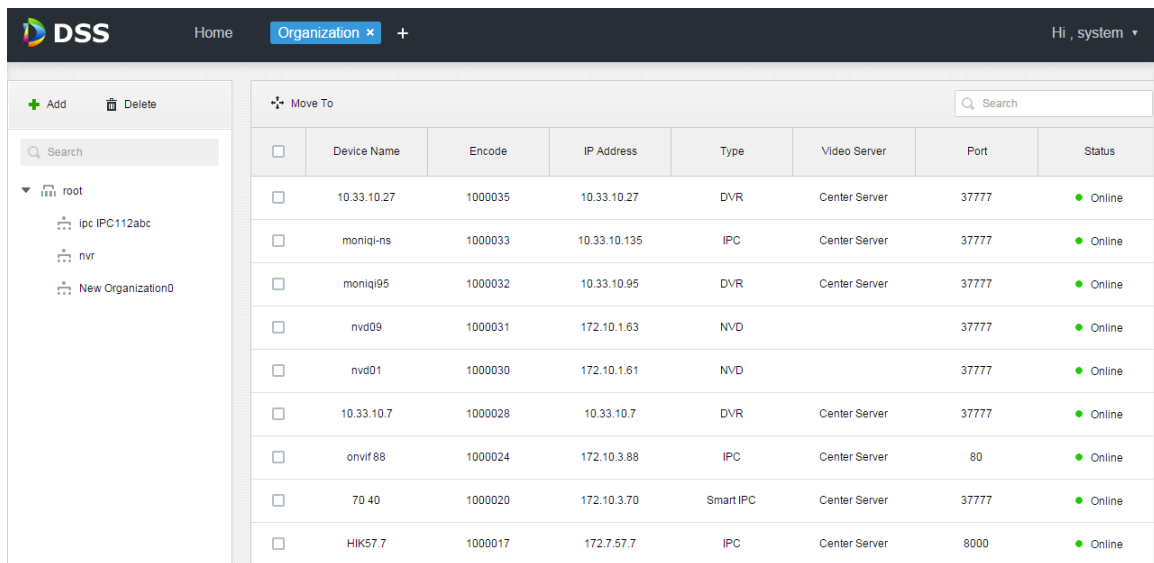


Figure 9-2

Step 3. Choose the root organization, and click Add.

Add new organizations under the root level, as shown in Figure 9-3.

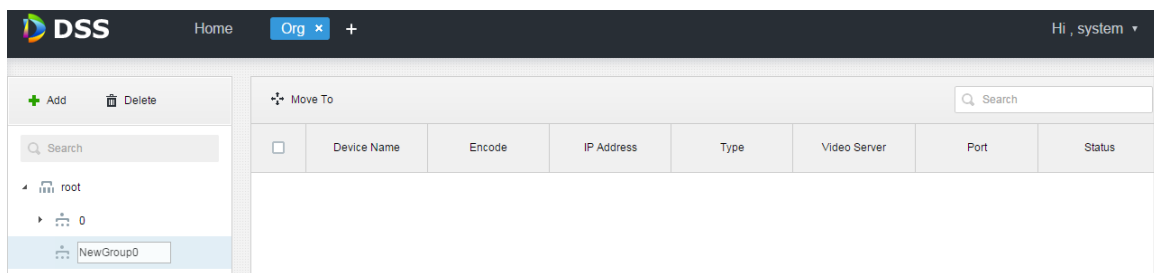


Figure 9-3

Step 4. Enter organization name, for example, NewGroup1, then press “Enter”.

Step 5. Check devices under the root organization, click , choose “NewGroup1”, and click “OK”.

Devices then will be added under the new organization, as shown in Figure 9-4.

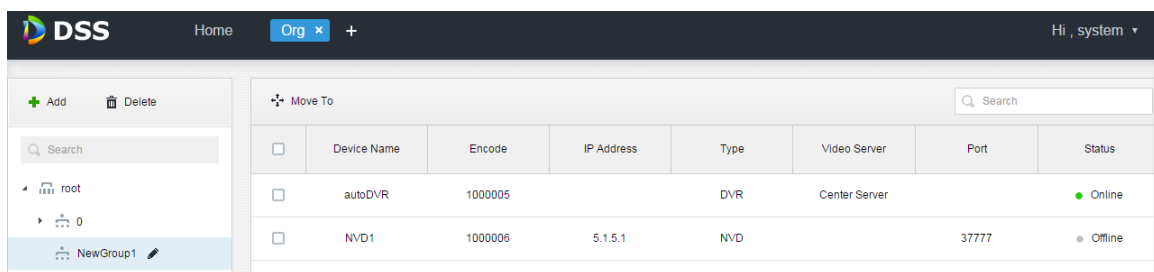


Figure 9-4

- Click beside the organization name to change the name.

- Select the organization and click  to delete the organization.

9.2 Add User Role

It's supported by the DSS platform to create user roles and then add users. The created users can login as Administrator as well as Client. User permission varies depending on the user role.

Permissions of a user role includes Device Rights, Administrator Menu Rights and Operator Menu Rights. A user needs to be granted with these rights before performing corresponding operations.

Detailed steps are listed below:

Step 1. Click  on the right side of the "Home" button.

All functional blocks will be displayed on the interface, as shown in Figure 9-5.

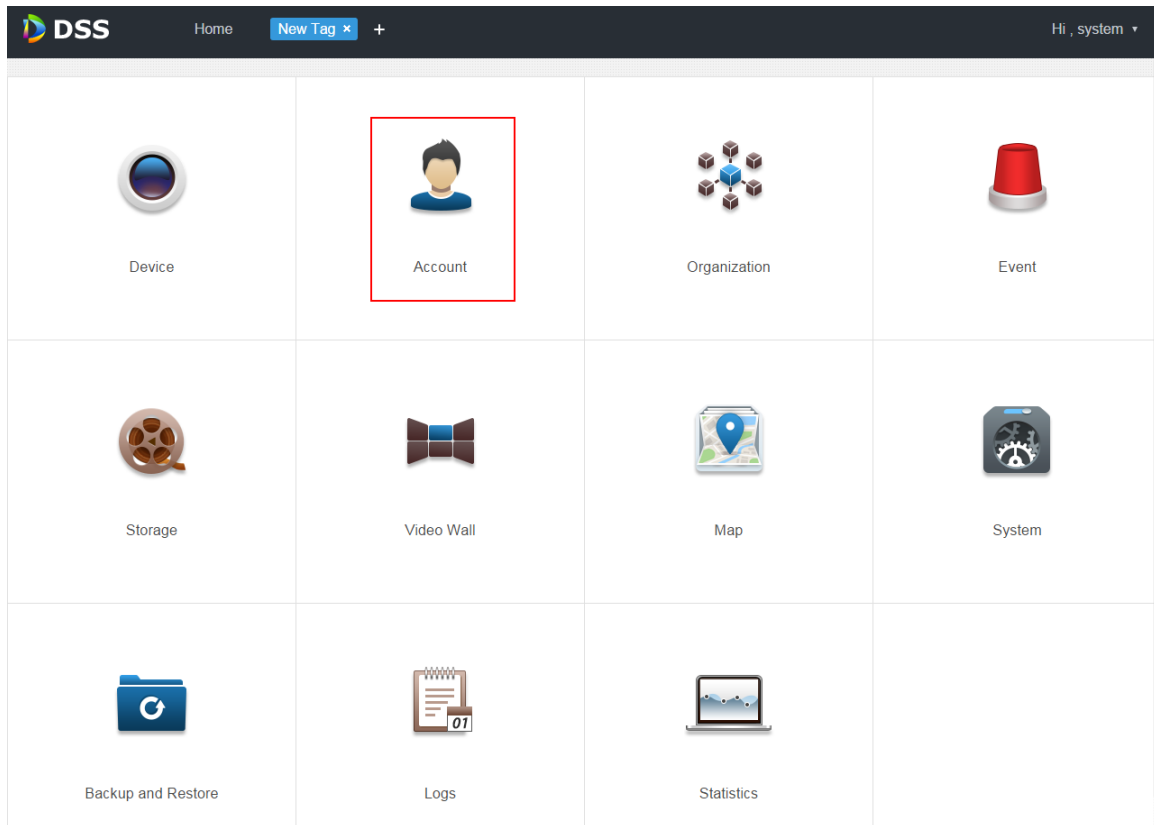


Figure 9-5

Step 2. Click "Account".

Account management interface will be displayed, as in Figure 9-6.

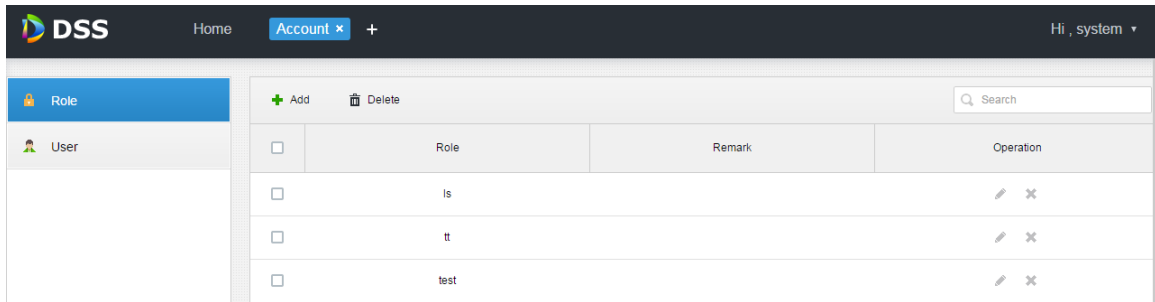


Figure 9-6

Step 3. Click **+ Add** in the “Role” interface.

An “Add Role” dialogue box will pop up.

Step 4. Input “Role Name”.

Note

For a quick configuration, check “Copy Role” next to “Name” and select one role from the Dropdown list, then the information of the selected role will be copied to the new role.

Step 5. Check “Device Rights”, “Control Rights”, and select “Users”.

The system will display the interface as shown in Figure 9-7.

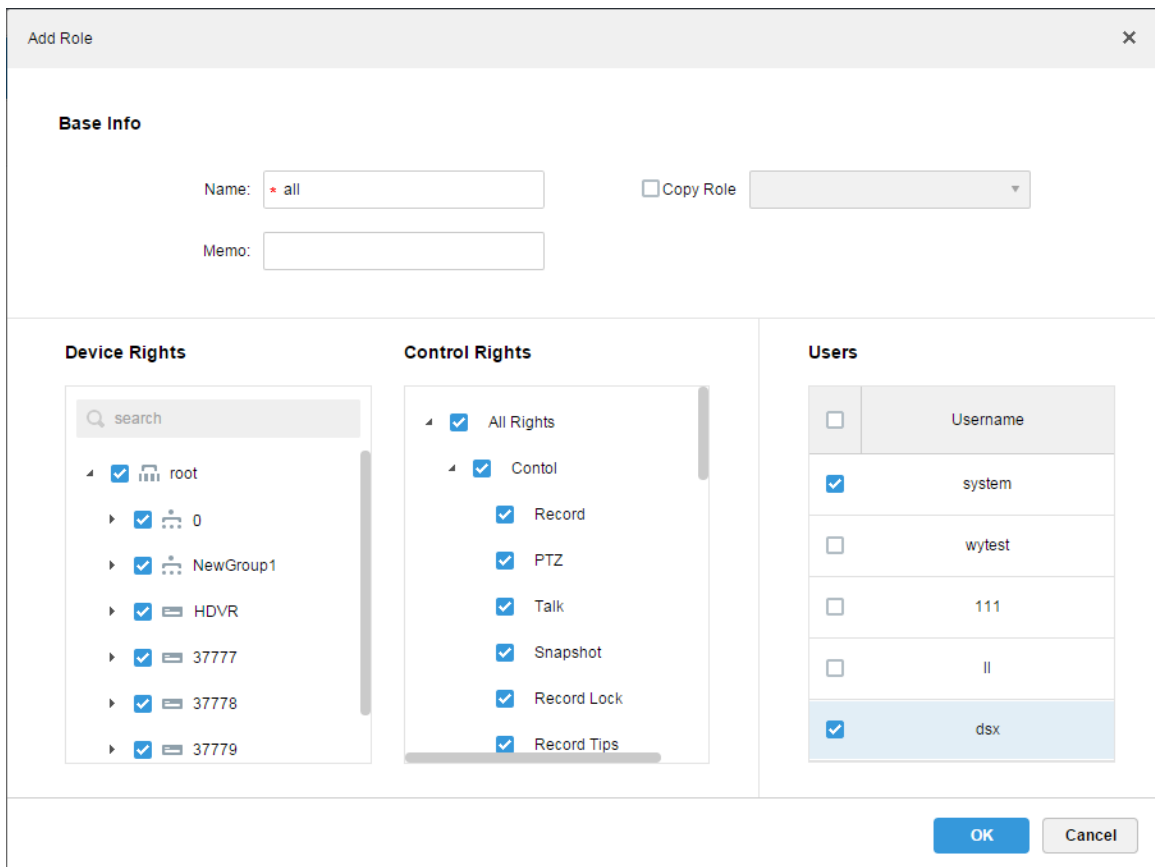


Figure 9-7

 Note

For device rights or control rights that are not checked, users with this role have no such corresponding device rights or control rights.

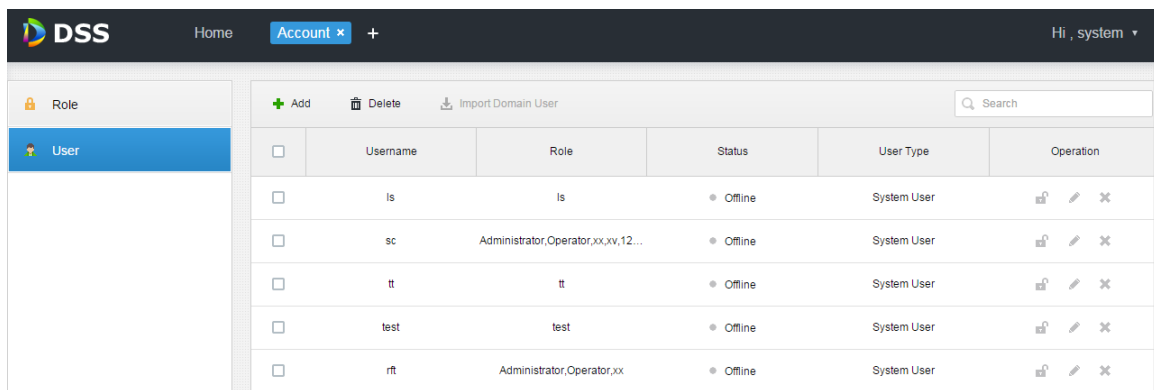
Step 6. Click “OK” to finish adding the role.

9.3 Add User

If a user role has been added, you can add users with this role.

Detailed steps are listed below:

Step 1. Click “User” tab to show the interface as in Figure 9-8.



The screenshot shows the DSS User Management interface. The top navigation bar includes the DSS logo, 'Home', 'Account' (with a dropdown arrow), and 'Hi, system' (with a dropdown arrow). On the left, there is a sidebar with 'Role' and 'User' tabs. The 'User' tab is selected. The main content area has a toolbar with '+ Add', 'Delete', and 'Import Domain User' buttons, and a search box. Below the toolbar is a table with the following data:
















<input type="checkbox"/>	Username	Role	Status	User Type	Operation
<input type="checkbox"/>	ls	ls	Offline	System User	  
<input type="checkbox"/>	sc	Administrator,Operator,xx,xv,12...	Offline	System User	  
<input type="checkbox"/>	tt	tt	Offline	System User	  
<input type="checkbox"/>	test	test	Offline	System User	  
<input type="checkbox"/>	rtt	Administrator,Operator,xx	Offline	System User	  

Figure 9-8

Step 2. Click .

An “Add User” dialogue box will pop up.

Step 3. Configure “User Name”, “Password”, “Confirm Password”, “Expiry(Days)”, “Email Address”, “PTZ Control Permission” and so on. Check the roles below, then device rights and control rights of the corresponding roles will display on the right.

The system will display the interface as shown in Figure 9-9.

Add User

Base Info

User Name: * sds Password Expiry(Days):

Password: * Email Address:

Confirm Password: * PTZ Control Permission: * 5

MAC Address: Memo:

Roles

<input checked="" type="checkbox"/>	Role name
<input checked="" type="checkbox"/>	Administrator
<input checked="" type="checkbox"/>	Operator

Device Rights

search

- root
 - NewGroup 1
 - HDVR
 - 37777
 - 37778
 - 37779
 - 1

Control Rights

- All Rights
 - Contol
 - Record
 - PTZ
 - Talk
 - Snapshot
 - Record Lock
 - Record Tips

OK Cancel

Figure 9-9

Note

- If no role is selected, then the user has no “Device Rights” or “Control Rights”.
- You can select multiple roles at a time.

Step 4. Click “OK” to add the user.

Click to freeze the user, then the user will be signed out from the client.

Click to change user information other than username/password.

Click to delete the user.

10 Domain User

10.1 Scene

For application of a company with domain information and want to set domain user as login user, this function can simplify project deployment.

10.2 Domain Info Setup

Step 1. Click  next to Home.

Step 2. Select System tab, see Figure 10-1.

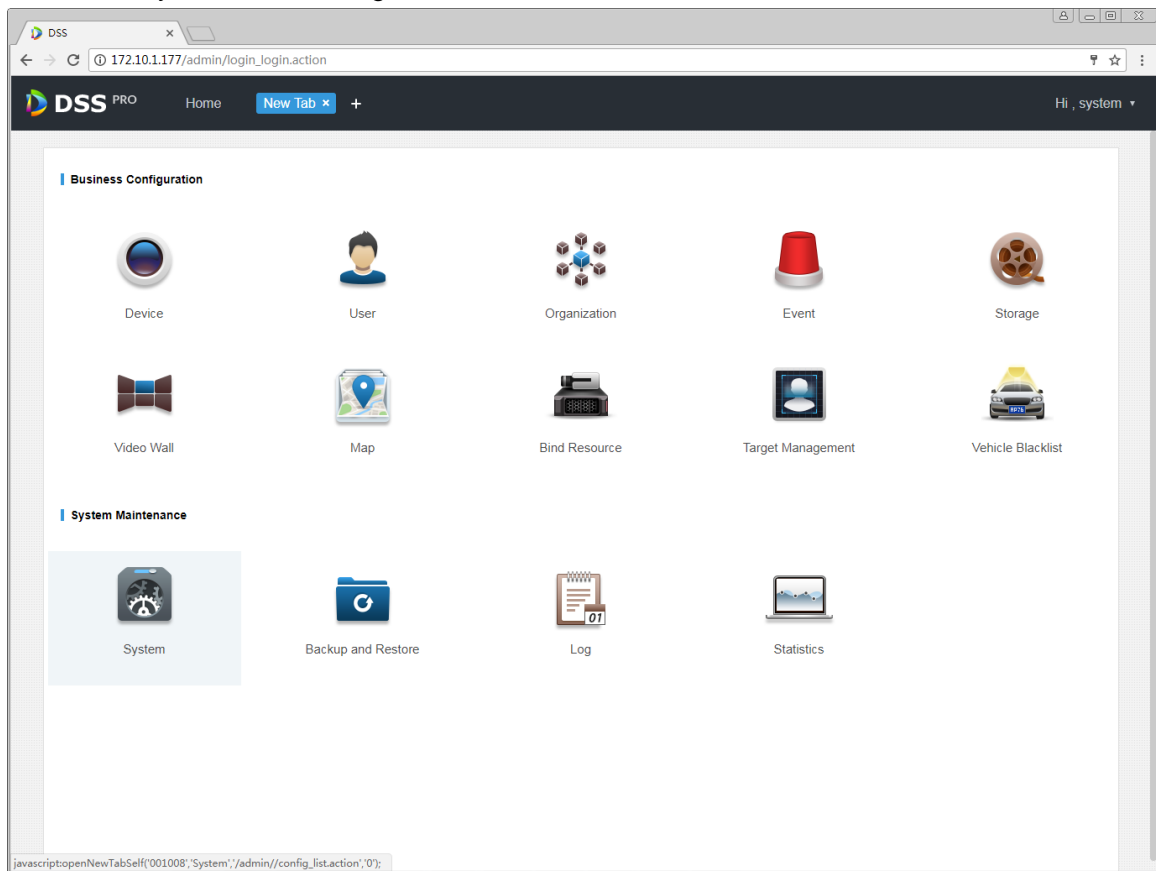


Figure 10-1

Step 3. Click Active Directory Setup tab, see Figure 10-2.

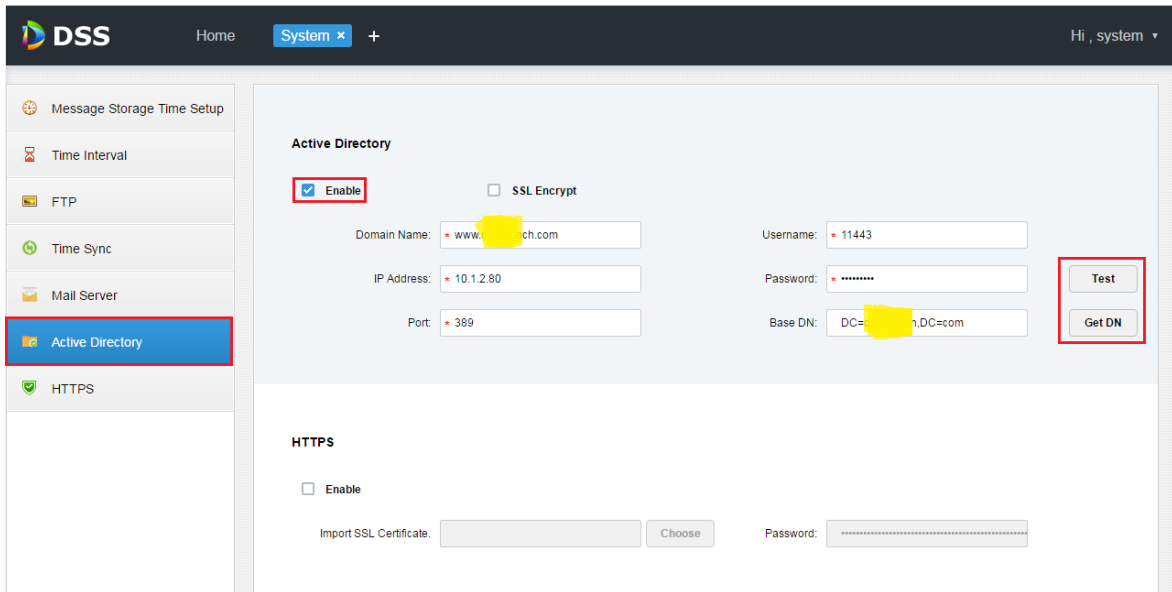
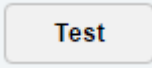


Figure 10-2

Step 4. After you set domain info, click  to auto get Base DN info.

Step 5. After you get DN info, click  to test if domain info it valid, and you will receive a prompt if OK. See Figure 10-3.

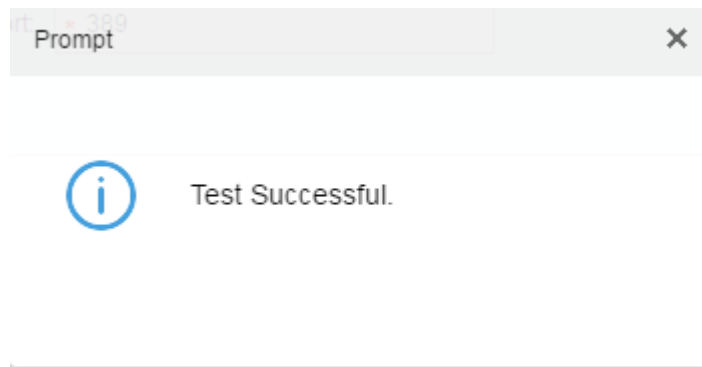


Figure 10-3

Step 6. Click  to save. See Figure 10-4.

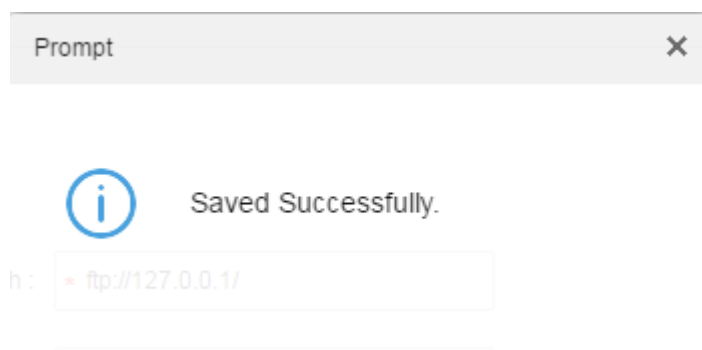


Figure 10-4

Then you can import domain user in Account management, see next Ch.

10.3 Import Domain User



Step 1. Click  to open new tab, click  Account to enter Account interface. See Figure 10-5.

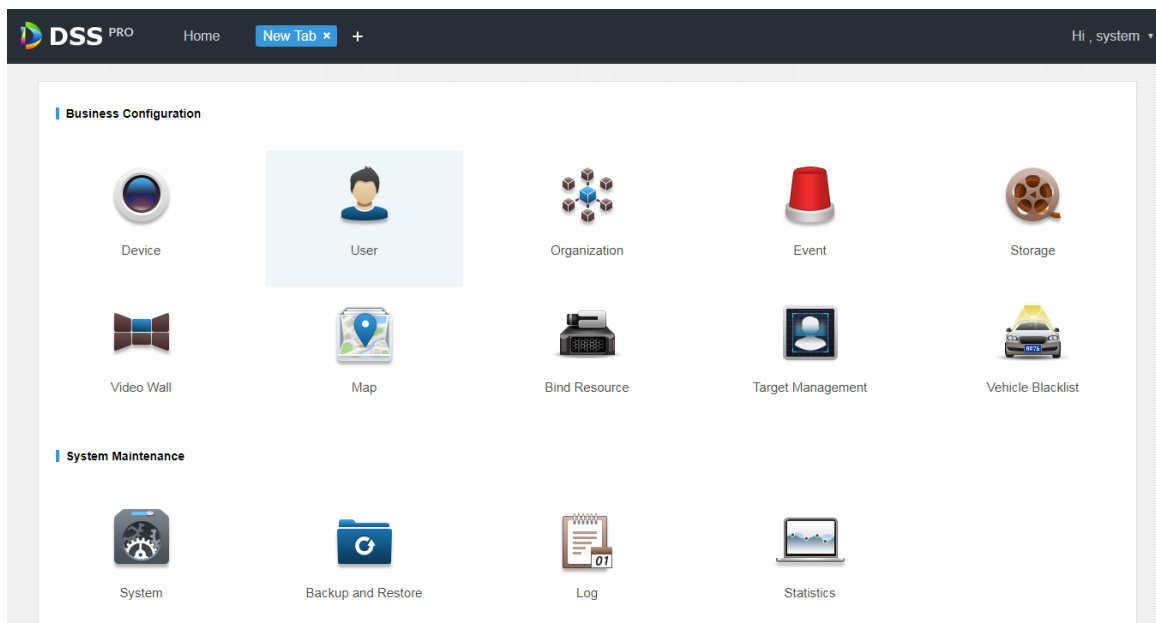




Figure 10-5

Step 2. Select  User tab, on the right click  Import Domain User to import domain user, see Figure 10-6.

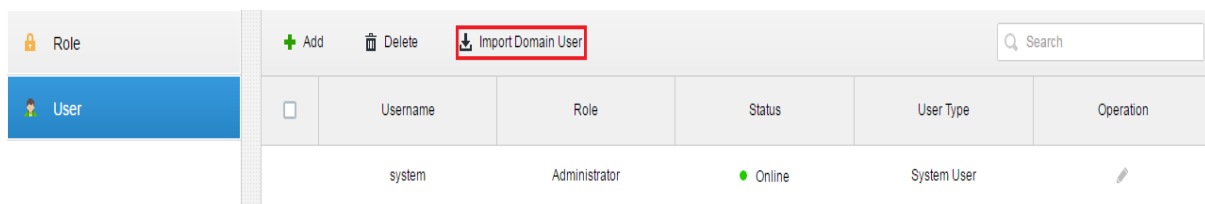


Figure 10-6

Step 3. In list of gotten user, select user info to import, see Figure 10-7.

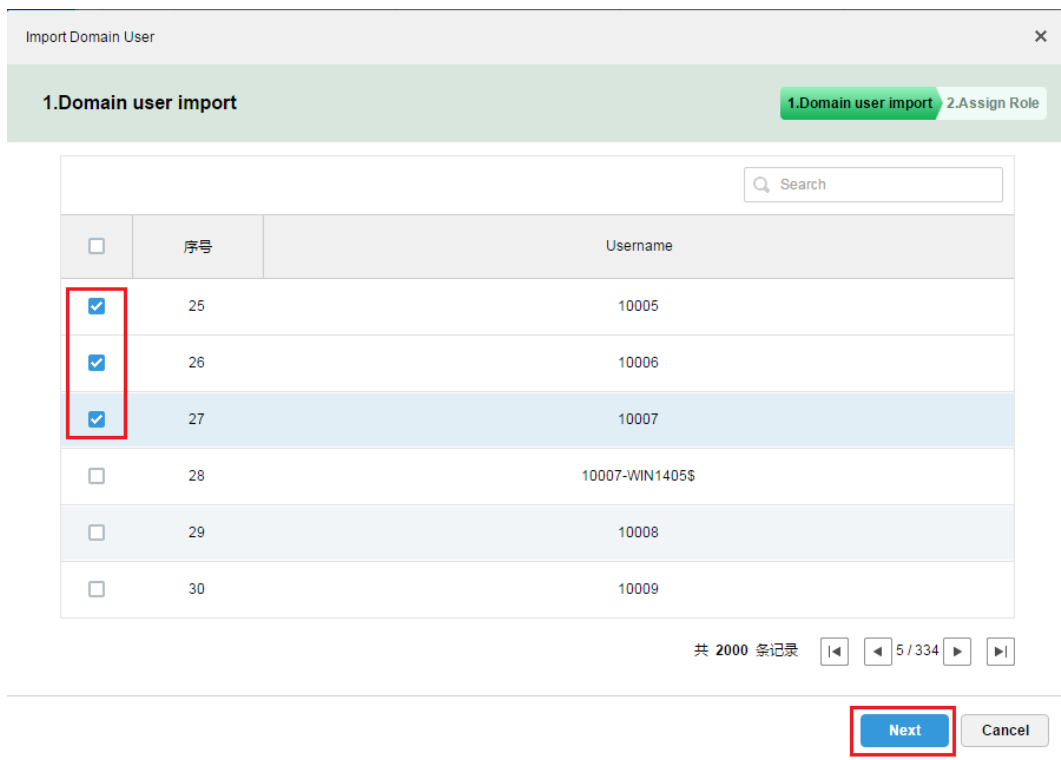


Figure 10-7

You also can search keyword in search field, see Figure 10-8.

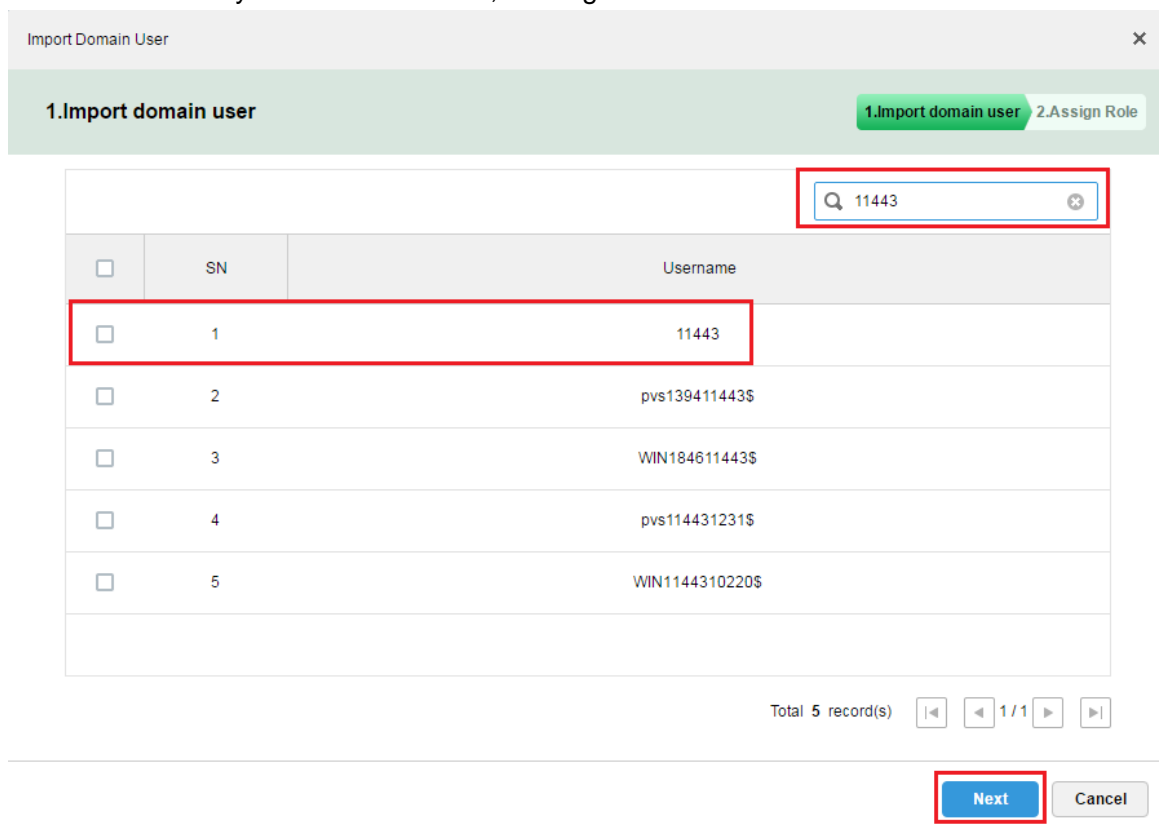


Figure 10-8

Step 4. Click **Next** to enter next step.

Step 5. Select corresponding permission group for the selected user. After you check, on the right it shows device info and function right info of this permission group, click **OK**, see Figure 10-9.

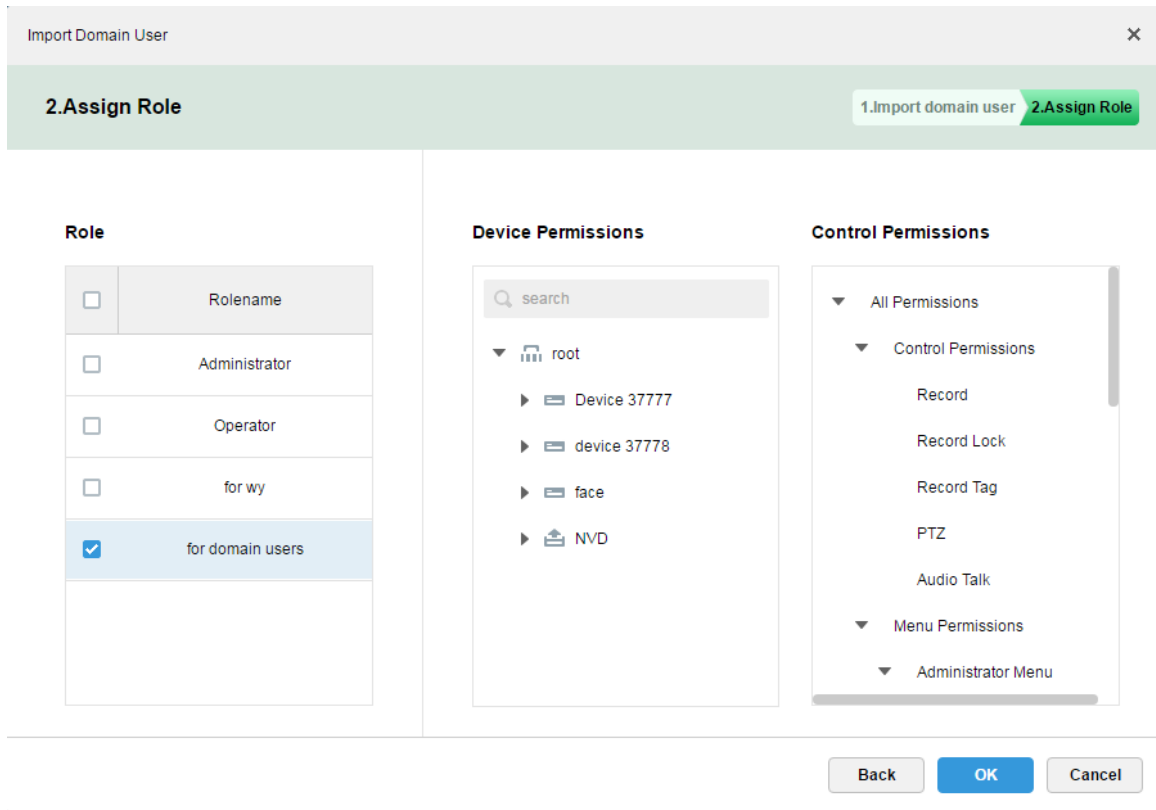


Figure 10-9

Step 6. In user info, confirm that domain user has been successfully imported, see Figure 10-10.

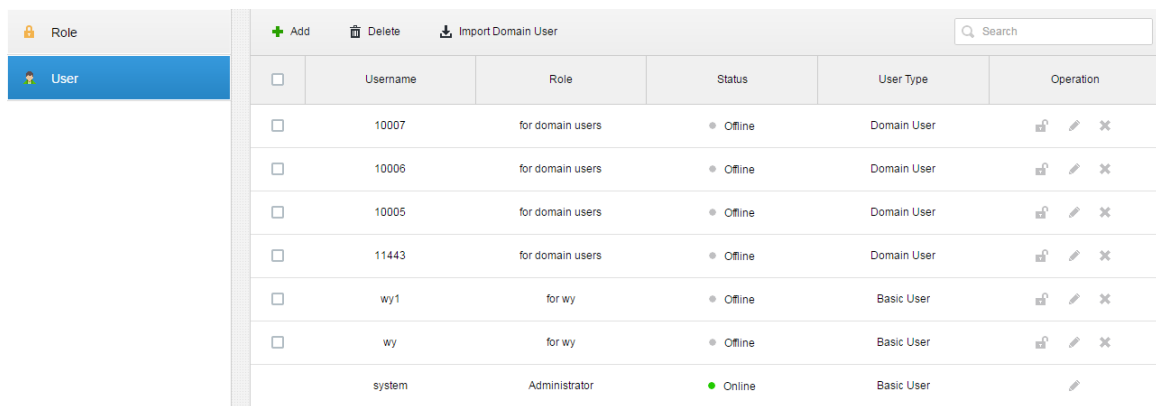


Figure 10-10

You can login Client with domain username, see next Ch.

10.4 Domain User Login

Step 1. In Client login interface, user type dropdown list, select **Domain User**, see Figure 10-11.

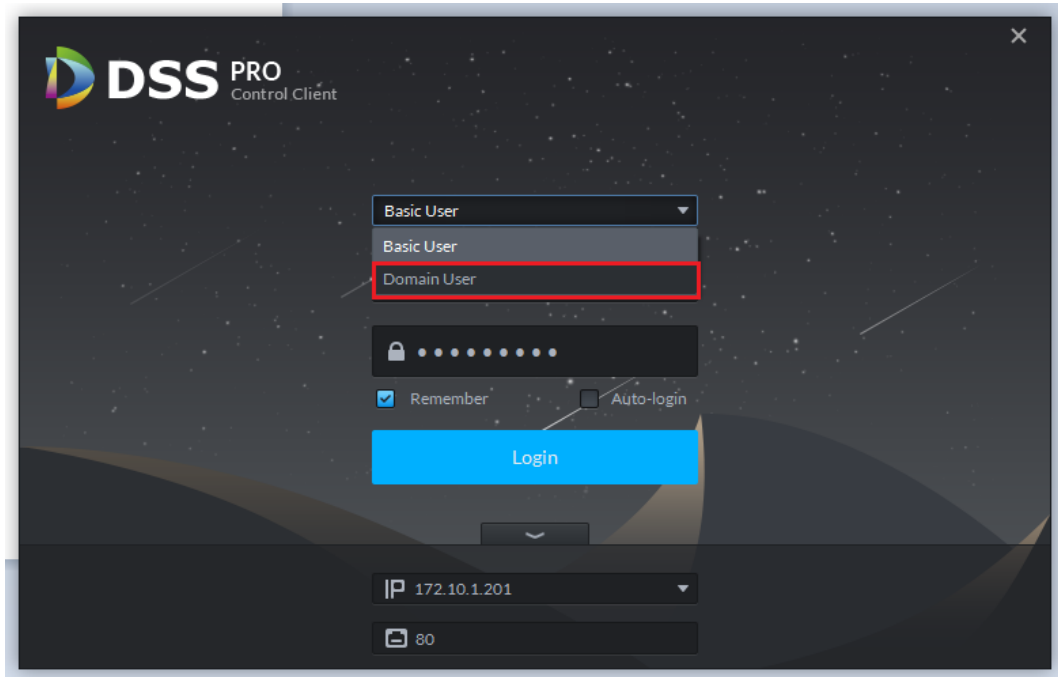


Figure 10-11

Step 2. Enter domain username, password, server address, port and ert., click Login, see Figure 10-12.

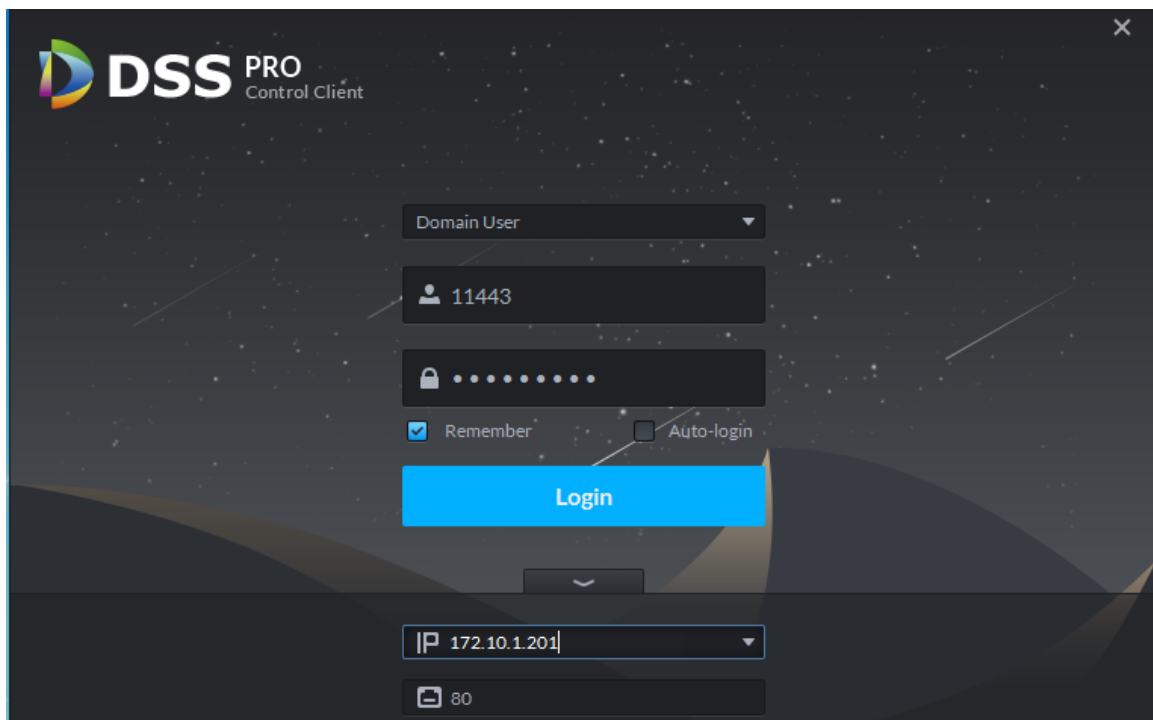


Figure 10-12

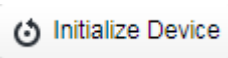
After you log in, the interface is the same with login as general user, so here skip introduction.

11 Device

11.1 Device Initialization

Since newly manufactured devices do not have default username and password, therefore uninitialized devices cannot use this function. Device initialization function is mainly designed to create device username and password. Default username is admin and cannot be changed. A user can initialize device one by one or as a batch.

Step 1. Login DSS Manager, enter device module, see Figure 11-1. In auto search, find a device to

check one or more devices for initialization. Click  button.

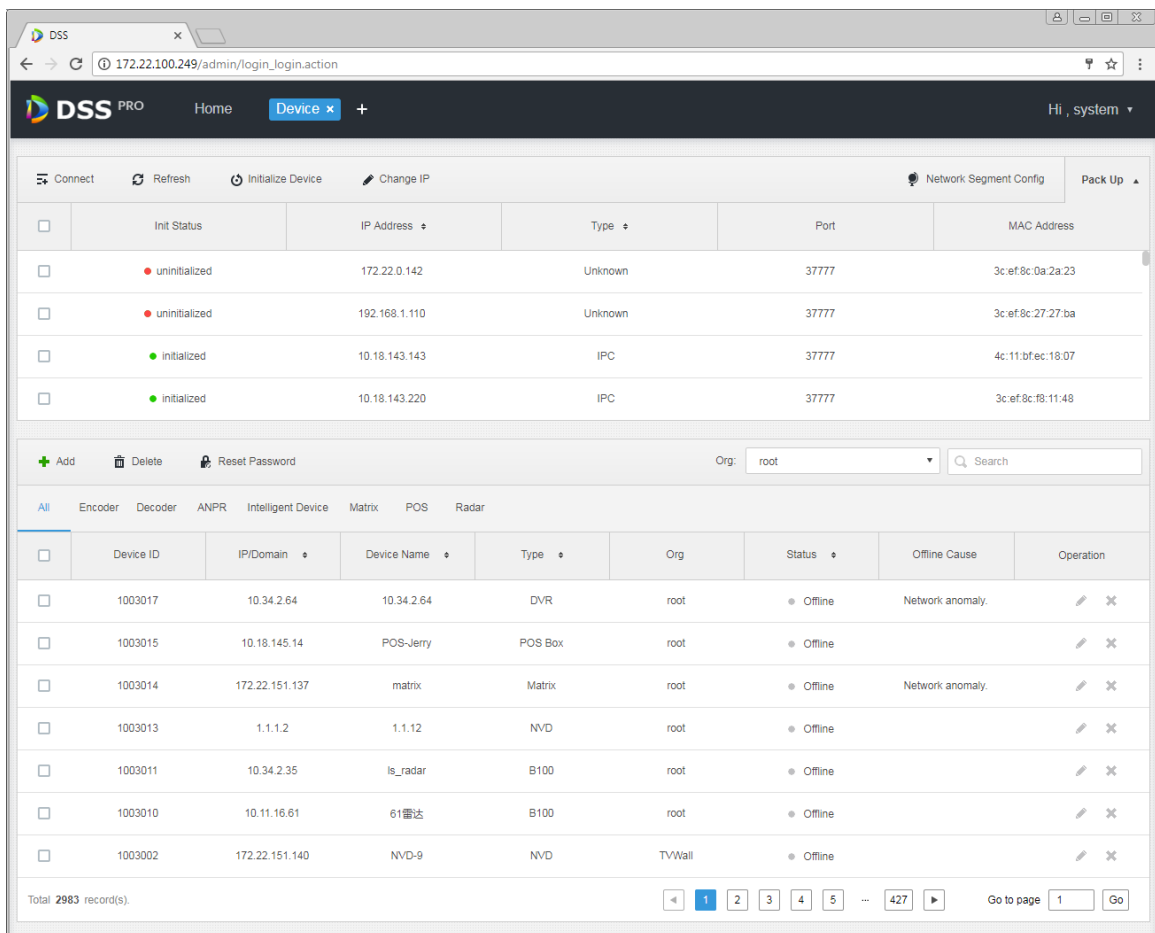



Figure 11-1

Step 2. In pop-up box, enter password you are going to set (must match rule of password). Default username is admin, which cannot be changed, after setup is complete click  button.

See Figure 11-2.

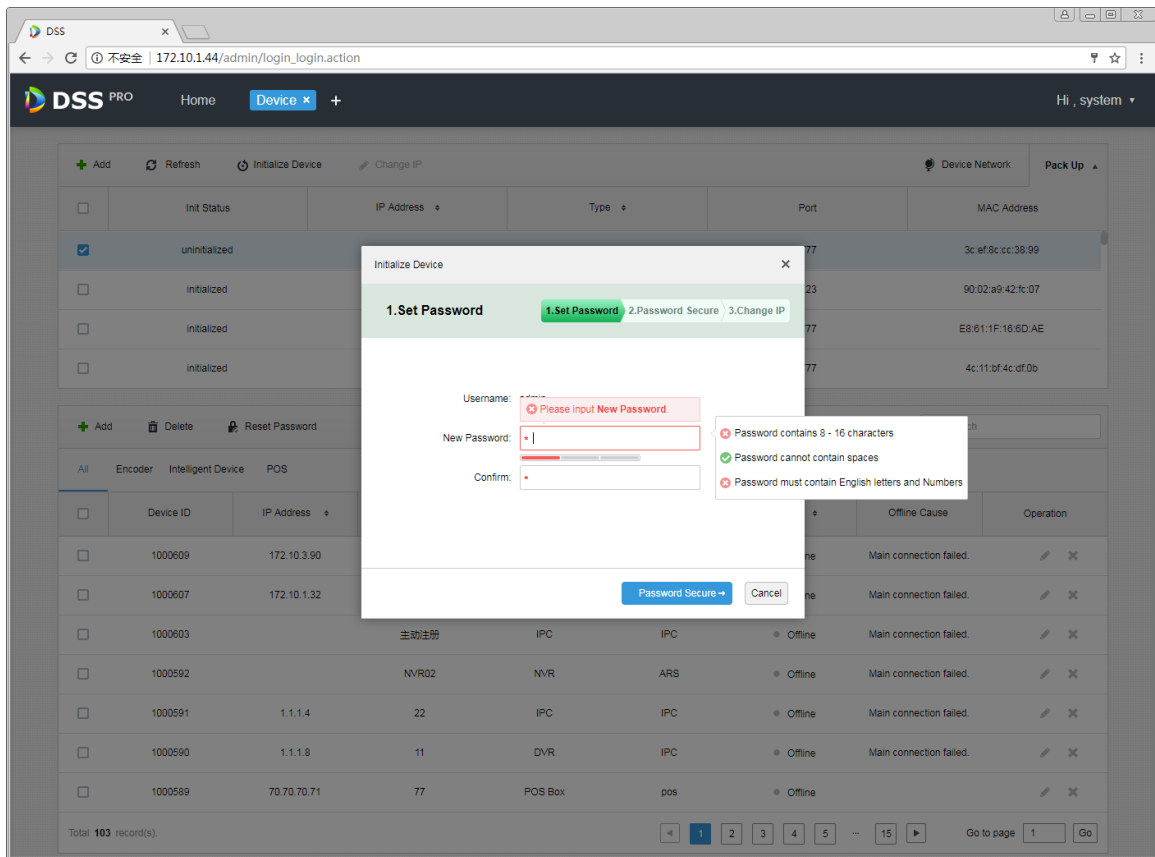


Figure 11-2

Initialize Device ✕

1. Set Password 1. Set Password 2. Password Secure 3. Change IP

Username: admin

New Password: *

Confirm: *

Progress bar: [Orange segment] [Grey segment]

Buttons: Password Secure → Cancel

Figure 11-3

Step 3. In the interface, enter email address for password security. Click **Change IP →** to enter IP modification interface.

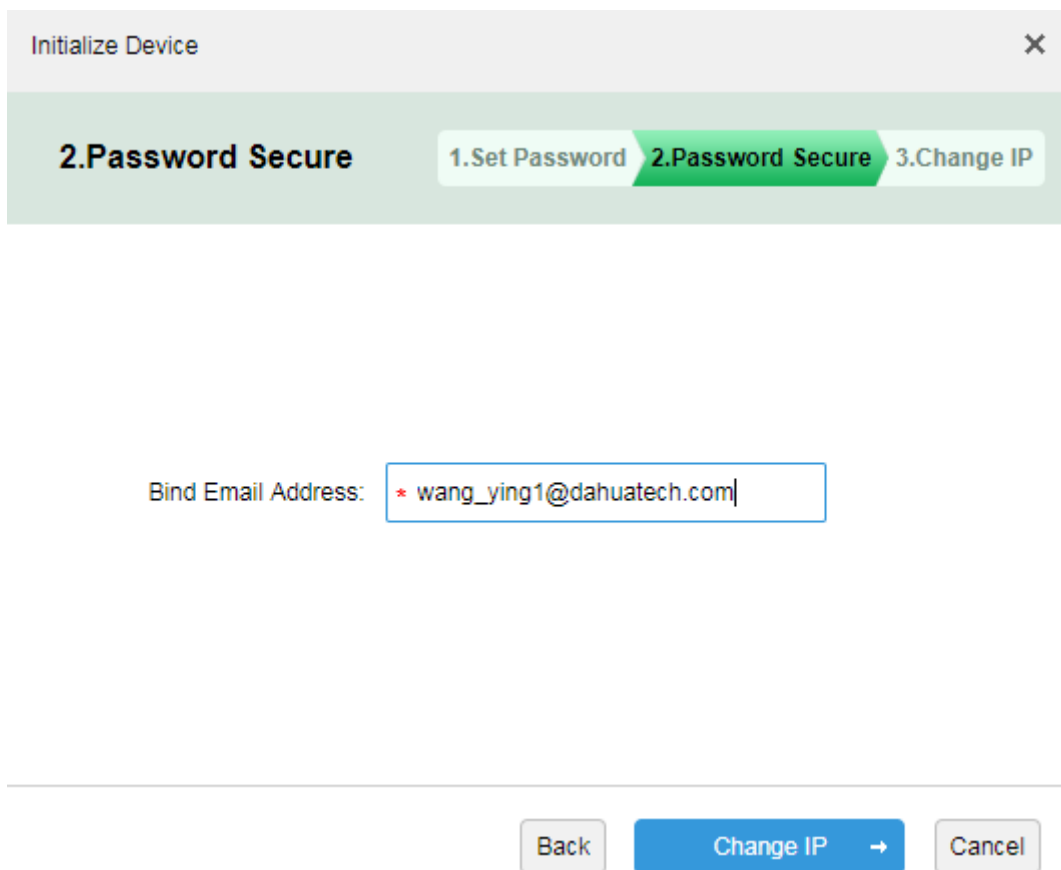


Figure 11-4

Step 4. In the interface, fill in modified IP address. This is optional, if you do not change IP, just click OK. Initialization is complete.

Initialize Device

3.Change IP

1.Set Password 2.Password Secure 3.Change IP

NEW IP :

Subnet Mask:

Default Gateway:

Back OK Cancel

Figure 11-5

11.2 Modify Device IP Address

Step 1. Login DSS Manager, enter device management module, see Figure 11-6. In auto search device, check device IP you want to modify, and click “Change IP” button.

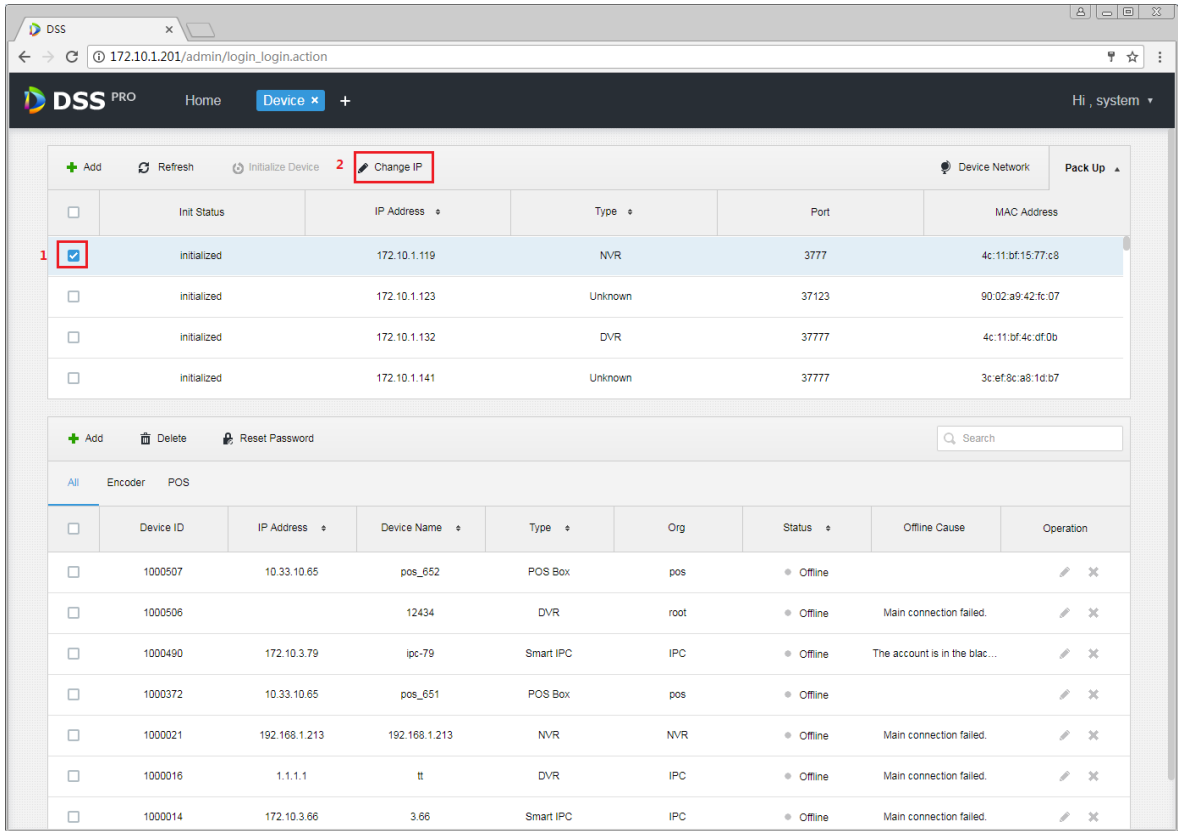
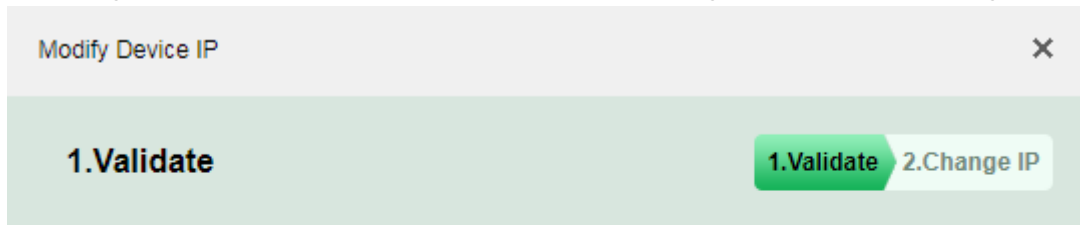


Figure 11-6

Step 2. In the figure, fill in correct username and password of login device, click “Change IP” button.



Username:

Password:



Figure 11-7

Step 3. In the pop-up figure, enter IP address, subnet mask and gateway info, click OK.

Modify Device IP

2.Change IP

1.Validate 2.Change IP

NEW IP : * 172.10.1.204

Subnet Mask: * 255.255.0.0

Default Gateway: * 172.10.0.1

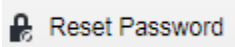
Back OK Cancel

Figure 11-8

11.3 Modify Device Password

Device password modification function is for device added on platform only, including online and offline devices.

1. In unit device display area in Manager device, see Figure 11-9 and check device you want to modify

password, click , fill in new password.

Connect Refresh Initialize Device Change IP						Network Segment Config		Pack Up	
<input type="checkbox"/>	Init Status	IP Address	Type	Port	MAC Address				
<input type="checkbox"/>	Uninitialized	172.22.0.142	Unknown	37777	3c:ef:8c:0a:2a:23				
<input type="checkbox"/>	Uninitialized	192.168.1.110	Unknown	37777	3c:ef:8c:27:27:ba				
<input type="checkbox"/>	Initialized	10.18.143.220	IPC	37777	3c:ef:8c:f8:11:48				
<input type="checkbox"/>	Initialized	172.22.0.127	IPC	37777	4c:11:bf:b8:85:4f				

+ Add		Delete		Modify Password		Org: root	Search	
All	Encoder							
<input type="checkbox"/>	Device ID	IP/Domain	Device Name	Type	Org	Status	Offline Cause	Operation
<input type="checkbox"/>	1000000	172.22.151.72	172.22.151.72	Smart IPC	root	Online		⚙️ ✎️ ✕

Total 1 record(s). Go to page 1 Go

Figure 11-9

- In new pop-up interface, enter device existing password and new password, click OK. See Figure 11-10.

Bulk Reset Password
✕

Password:

New Password:

Confirm:

OK
Cancel

Figure 11-10

12 Installation and Uninstallation of the Client

12.1 Requirement for PC

To install the DSS Client, the PC must meet the requirements as shown in Chart 12–1.

Requirement of DSS Control Client	
Recommend	CPU: Intel Core i5, 64 bits 4 Core Processor Memory@8GB Graphics Card: NVIDIA® GeForce®GT 730 Ethernet port@1000Mbps Hard Drive Capacity: 200G free for DSS Control Client
Low-end	CPU: Intel Core i3, 64 bits 4 Core Processor Memory@4GB Graphics Card: Intel® HD Graphics 4400 Ethernet port@1000Mbps Hard Drive Capacity: 100G free for DSS Control Client

Chart 12–1

12.2 Installation

Steps to install the DSS Client:

Step 1. Download and install the software.

1. Input IP address of DSS in IE.

The login interface of the DSS Manager will be displayed as shown in Figure 12–1.

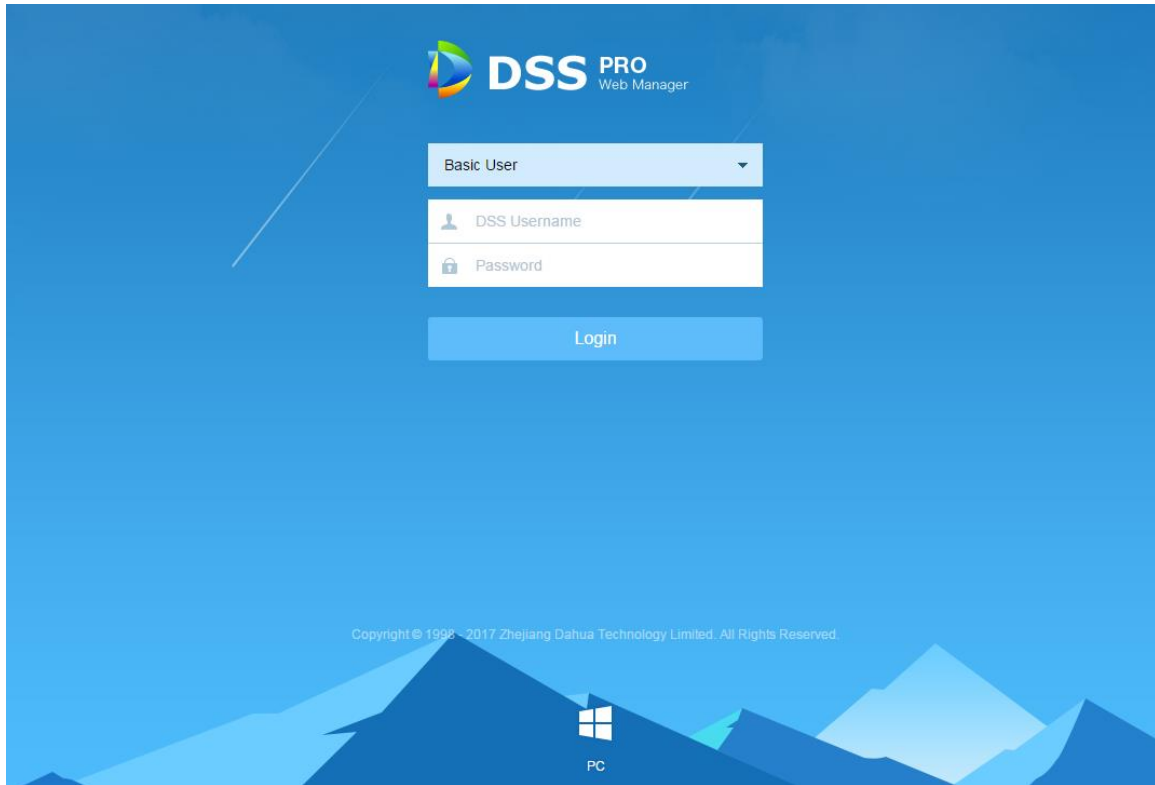



Figure 12–1 Login Interface of Manager

2. Click  to download the C/S Client.
System pops up the “File Downloads” dialogue box.
 3. Click “Save” to download and save the DSS client software on the PC.
- Step 2. Install the client program and check “Auto Run”, as shown in Figure 12–2.

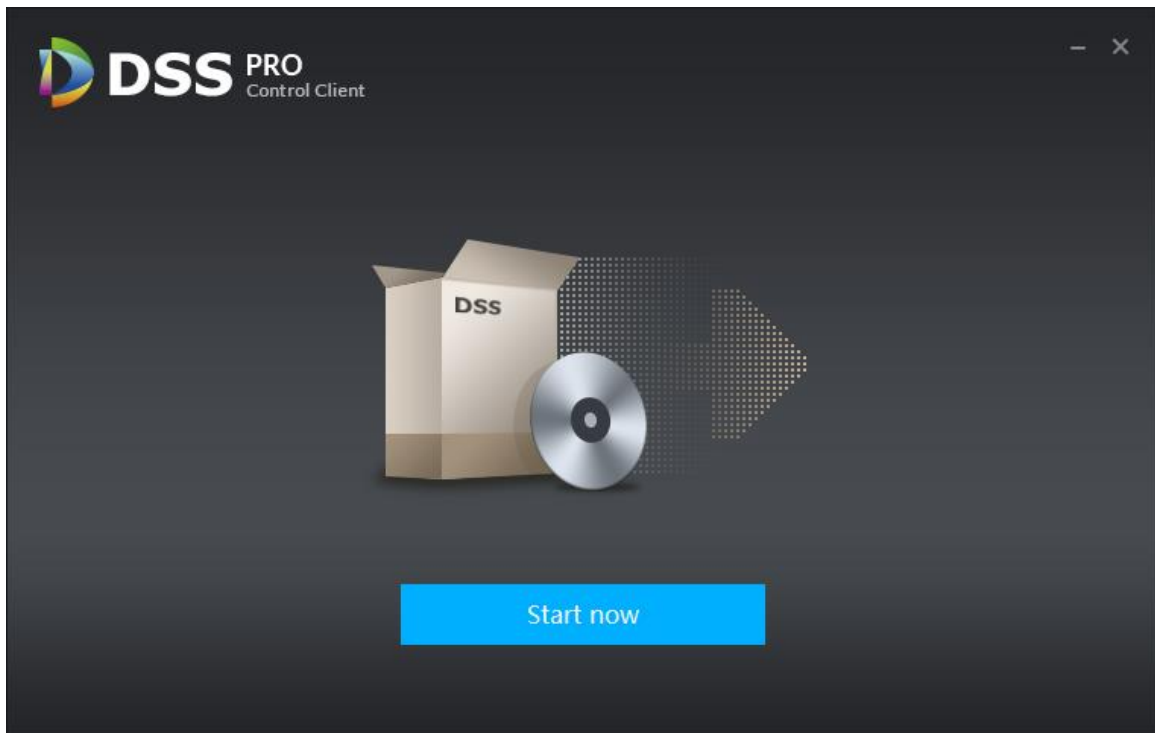
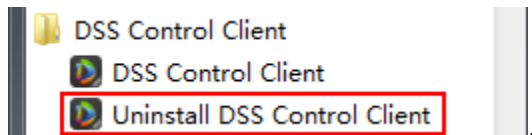


Figure 12-2

Step 3. Click “Finish”.

12.3 Uninstall

Step 1. Select “All programs > DSS Control Client > uninstall DSS Control Client”. See



Uninstallation interface will pop up, as shown in Figure 12-3.

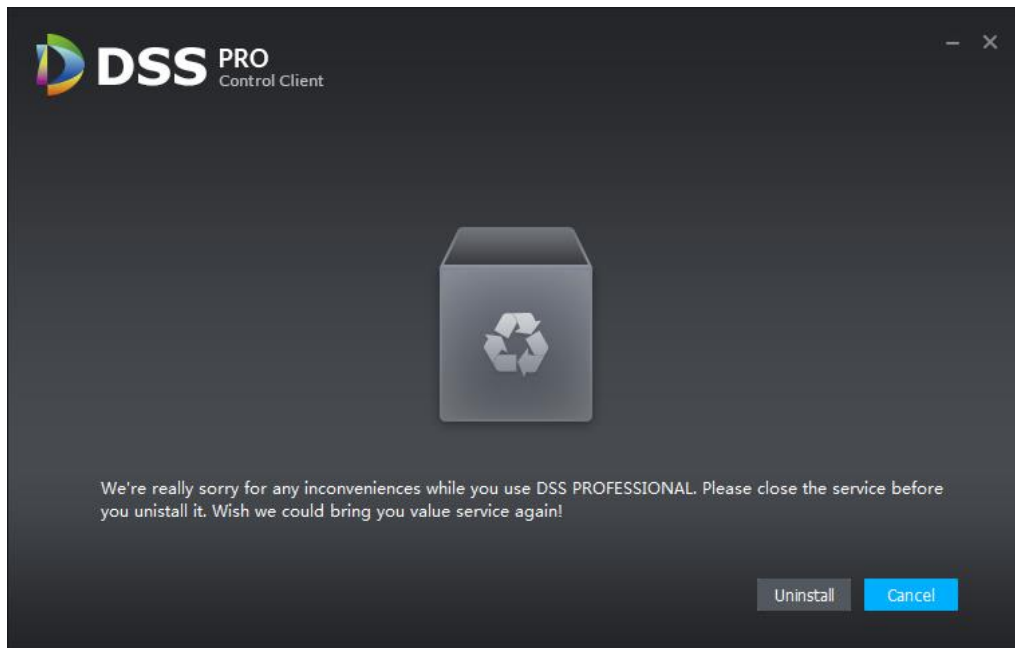


Figure 12–3

Step 2. Click “Uninstall”.

Then the uninstallation starts, when it’s completed, the message box “Successfully removed from your computer!” will pop up.

Step 3. Click “OK”.

13 Login to the Client

13.1 Logging In

Login interface of DSS Client is shown in Figure 13–1.

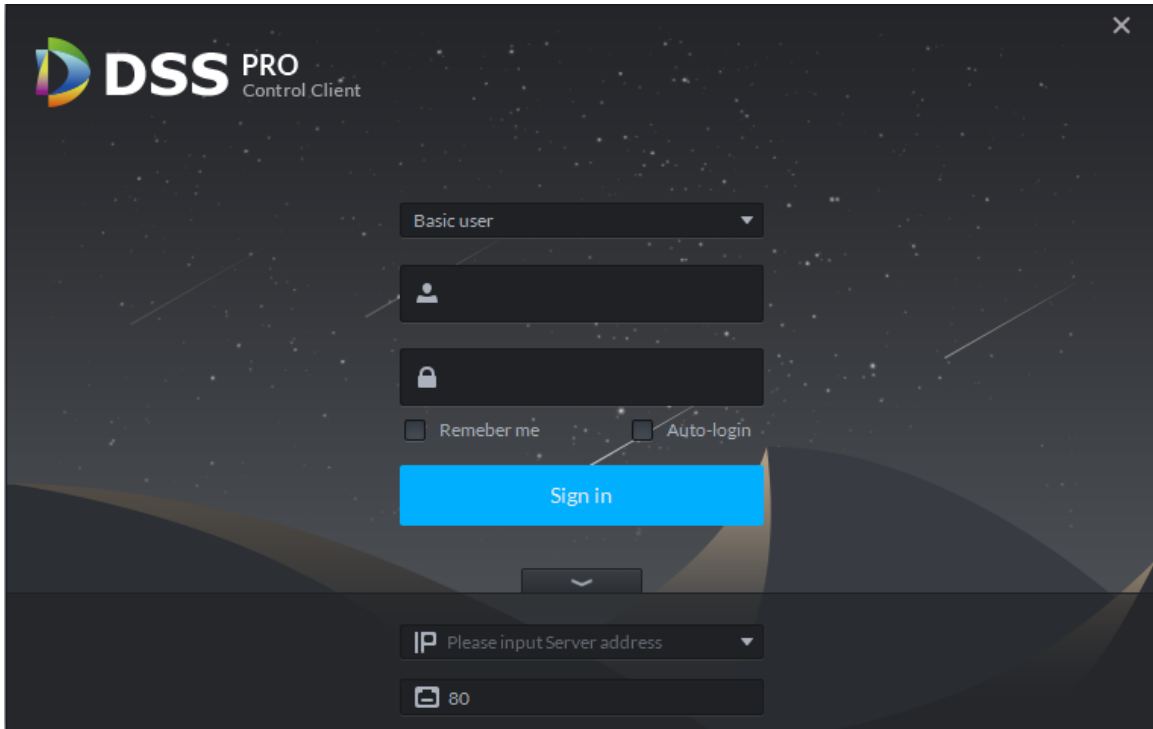


Figure 13–1

Step 1. Enter “User Name” and “Password”.

Step 2. Input “Server IP” and “Port”.

“Server IP” means the IP address of the DSS platform Manager, while “Port” defaults to “80”.

Step 3. Click “Sign in”.

A “Preview Page” shows as the default page. See Figure 13–2.

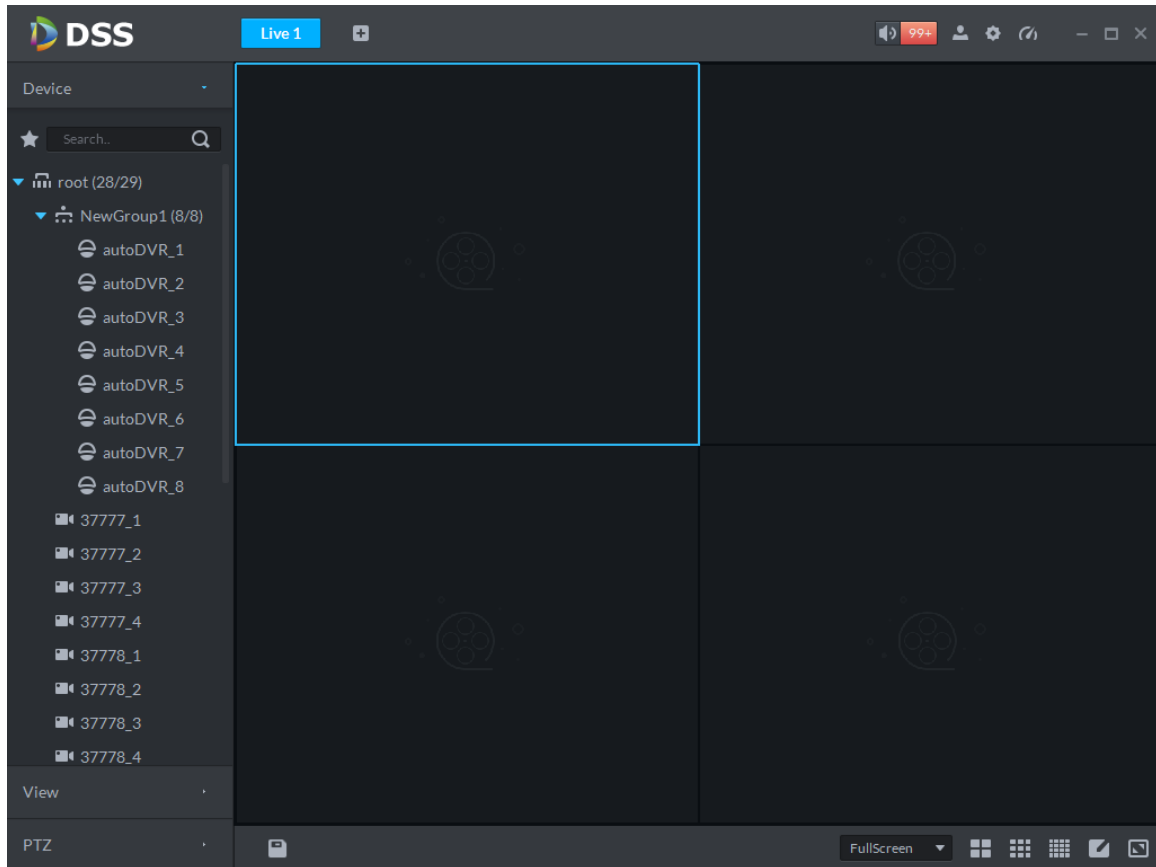








Figure 13–2

- : Turn on/off the alarm sound.
- : Click and jump to the “Alarm Center” page to see details of alarms.
- : Click to show login username and server IP. You can also change the password, lock the client, view the Help section and the Version, and log off here.
- : Unfold “Local Config”.
- : View system conditions, including network, CPU, and usage of the internal memory.

13.2 Local Configuration

After logging into the client for the first time, you need to configure the system parameters, including General setup, and setup of Video, Playback, Snapshot, Record, Alarm and the Shortcut Key.

Detailed steps are listed below:

Step 1. Click  on the right upper part of the “Preview Page” on the Homepage. Then “Local Config” interface will be displayed, as shown in Figure 13–3.

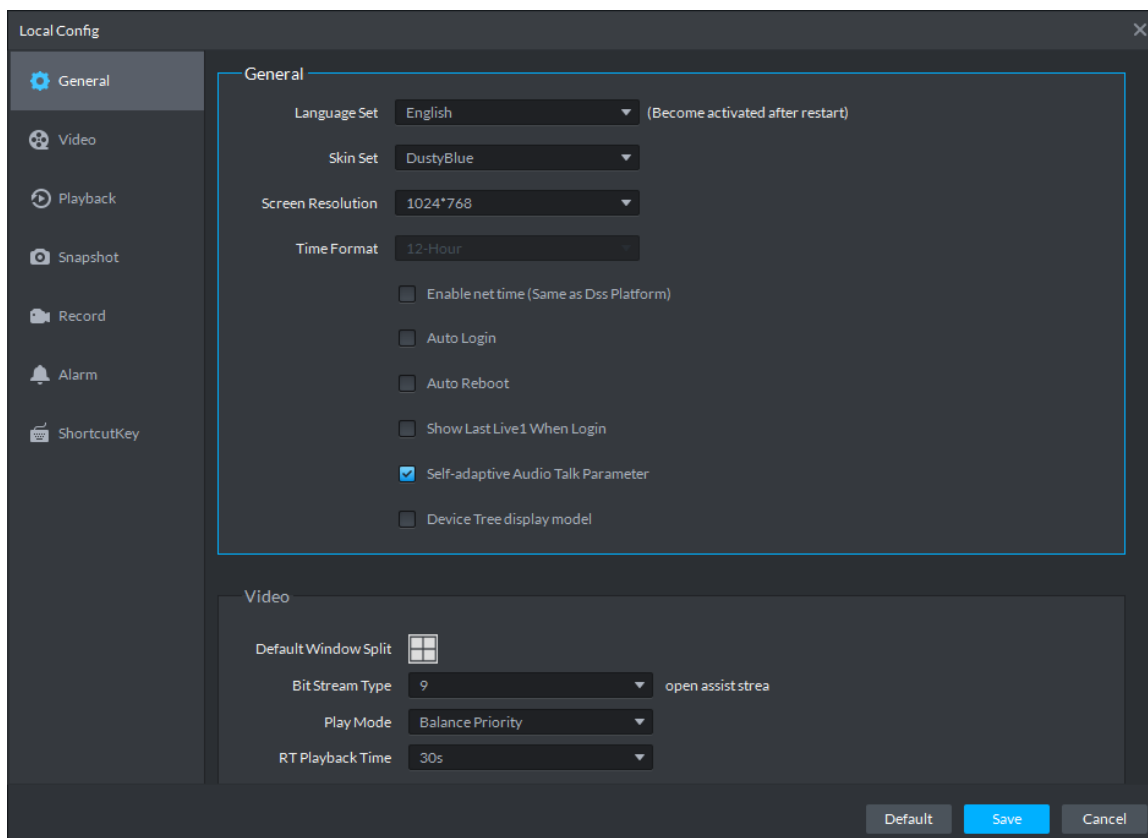



Figure 13–3

Parameter		Note
Basic setup	Language	Choose the language for the interface, including Chinese, English, Spanish, Portuguese, etc.
	Theme	Choose between Dusty Blue and White Blue.
	Resolution	Choose the resolution for DSS client, either 1024*768, 1024*800, 1280*1024, 1440*900, etc.
	Enable net time	Check or not to determine whether to respond to net time. <ul style="list-style-type: none"> • If checked, then the client will start net time when services initiate net time. • If not checked, then the client will not perform net time when services initiate net time.
	Auto Login	If checked, auto login is allowed when Client starts running.

Parameter		Note
	Auto Reboot	If checked, auto reboot of the Client is allowed when the PC power is on.
	Display Previous live Image when it boots	If checked, it would revert to the last Live video played automatically after rebooting the client.
	Self-adaptive Audio Talk Parameter	If checked, the system will adapt to “Sampling Frequency”, “Sampling Bit”, and “Audio Format” to the device automatically during audio talk.
	Show Device Node	If checked, device tree will display both device and path, or only the path will be displayed.
Video Setup	Default Split	Set number of splits for the initial screen of the “Live Preview”.
	Stream type	Defines bit stream type for video transmission. With main bit stream as default, the auxiliary bit stream will be used when number of window splits is greater than the value selected here.
	Play Mode	Play mode to be selected as required, including “Real Time Priority”, “Fluency Priority”, “Balance Priority”, as well as user-defined modes.
	Instant Playback Time	Select time for the real time playback of the video.
	Double click on RT window to switch to main bit stream	<p>If auxiliary bit stream is used in the RT video, double click on the window to switch to main bit stream.</p> <p style="text-align: center;"> Note</p> <p>If the number of the window split is greater than 9, double clicking one the window will maximize the window and switch the bit stream of the channel to the main bit stream, whatever the previous bit stream is.</p>

Parameter		Note
Playback Setup	Default Split	Set number of splits for the initial screen of the “Record Playback”.
	Enable high definition adjustment	Records playback is at 8-times speed, for HD video with high bit stream, the playback stream is even higher with 8-times speed. To mitigate pressure of decoding, bandwidth, and forwarding on the Client during playback, frame extracting is used to play back HD record.
Snapshot setup	Format	Picture storage format, including BMP and JPEG.
	Picture Path	Storage path for pictures got from local snapshot.
	Picture Name	Set standards for naming pictures to be stored.
	Snapshot interval	Set time interval for continuous snapshot, at least 1s.
	Continuous Amount	Set number of captures for continuous snapshot, with a minimum of 2 and a maximum of 10.
Record setup	Record path	Storage path for local records.
	Record Name	Set rules for naming records to be stored.
	Max Size of Record	Maximum size of single record when videotaping locally.
Alarm Input	Play alarm sound	Enable audio alarm when alarm occurs.
	Loop	Check to loop the alarm sound.
	Alarm Type	Select different alarm types and assign corresponding alarm sound to each alarm type.
	Sound Path	Upload audio files from the path and play.

Parameter		Note
	Map Flashes	Select and check various types of alarm, when such alarms occur, the map will flash in corresponding positions of the alarms.
	Play Video	If a video shall be played, when an alarm occurs.
	Display Type	Choose to play the alarm linked video in a client pop-up or open it in the preview interface when an alarm occurs.
Shortcut Key		Set shortcut keys for various functions of various preview interfaces.

Table 13-1

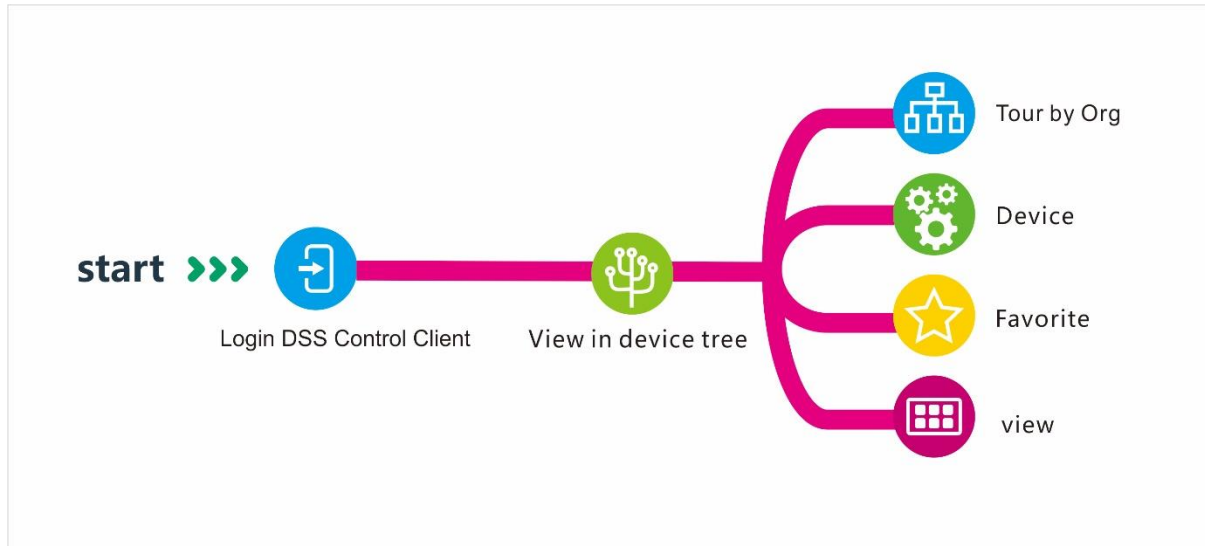
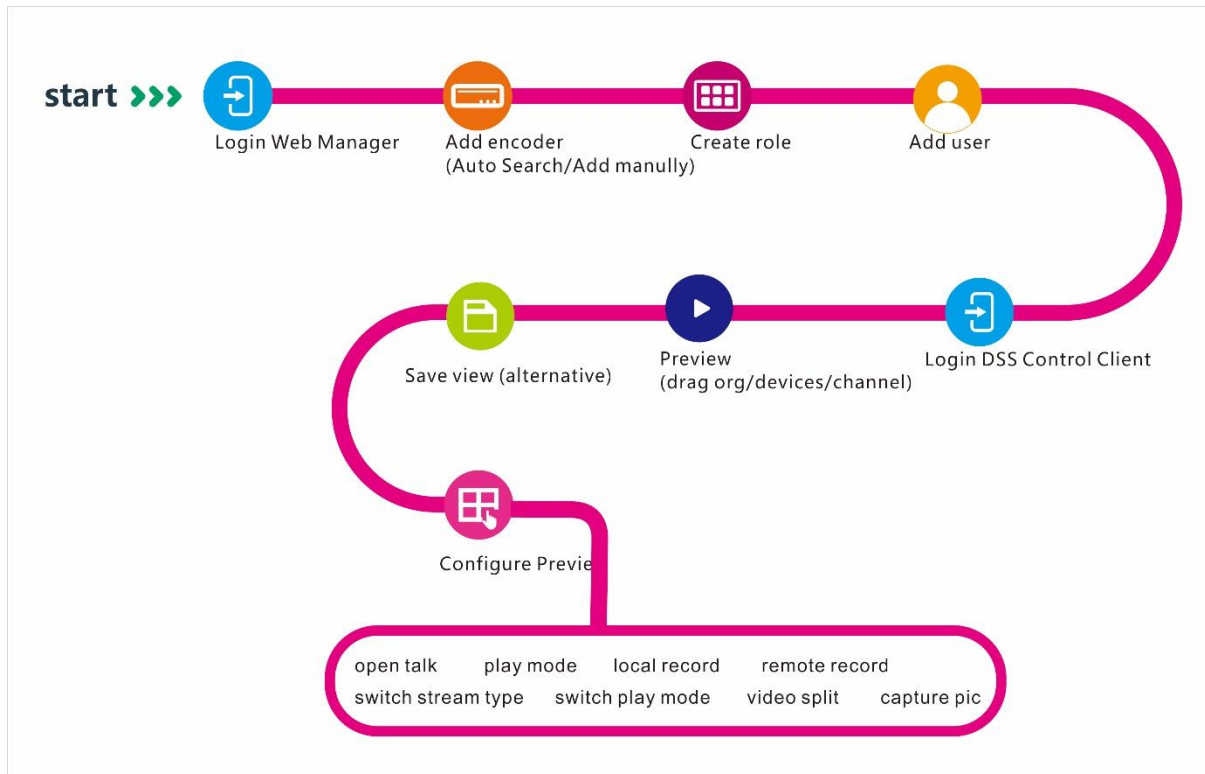
Table 13-2

Step 2. Configure the basic information, and the information of Video, Playback, Snapshot, Record and Alarm, etc.

Step 3. Click "Save".

14 Video Preview

14.1 Flow



14.2 ADD General Encoding Device

14.2.1 Add Manually

Before using various functions of the Client, add organizations and devices from the Manager.

Directly enter IP address of the DSS platform in IE address bar, to login to the DSS Manager.

Detailed steps to be followed:

Step 1. Click **+** on the right side of the “Home” button.

All functional blocks will be displayed on the interface, as shown in Figure 14–1.

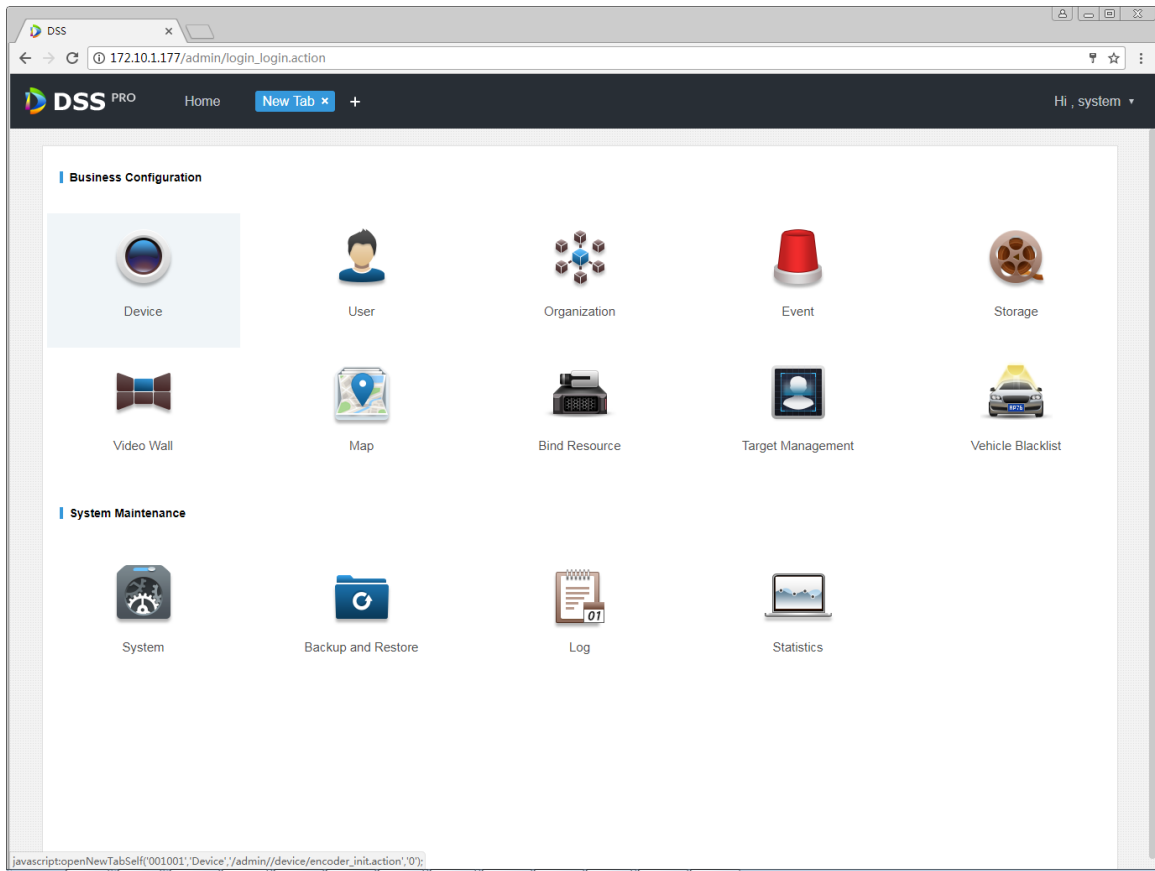


Figure 14–1

Step 2. Click “Device”.

Device management interface will be displayed, as shown in Figure 14–2.

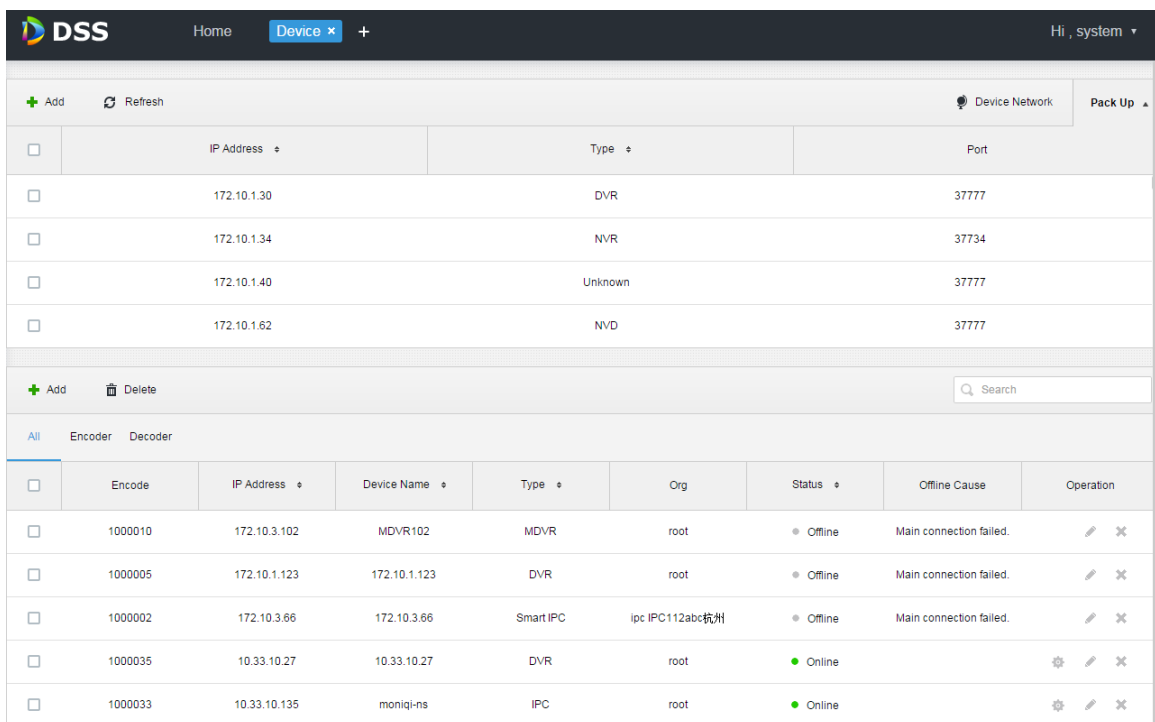
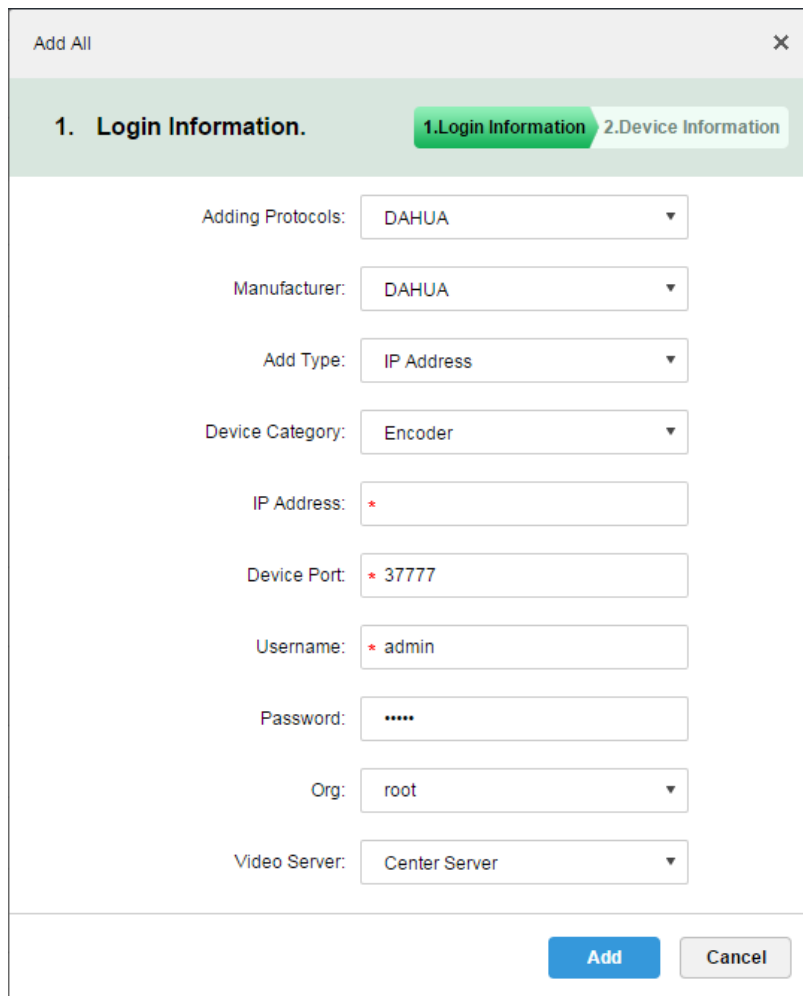


Figure 14–2

Step 3. Click .

A dialogue box of “Add All” pops up, see Figure 14–3.



The screenshot shows a dialog box titled "Add All" with a close button (X) in the top right corner. The dialog is divided into two tabs: "1. Login Information" (active) and "2. Device Information". Under the "1. Login Information" tab, there are several fields for configuration:

- Adding Protocols: DAHUA (dropdown)
- Manufacturer: DAHUA (dropdown)
- Add Type: IP Address (dropdown)
- Device Category: Encoder (dropdown)
- IP Address: * (text input)
- Device Port: * 37777 (text input)
- Username: * admin (text input)
- Password: ***** (password input)
- Org: root (dropdown)
- Video Server: Center Server (dropdown)

At the bottom right of the dialog, there are two buttons: "Add" (blue) and "Cancel" (grey).

Figure 14–3

Step 4. Select “Adding Protocols”, “Manufacturer”, “Add Type”, “Device Category”, “Org” and “Video Server”, and input “IP Address”, “Device Port” and “Username/Password”, then click “Add”.

System continues to add encoder, as in Figure 14–4.

Figure 14–4

Parameter	Note
Add Type	<p>Ways to add devices. Parameters and descriptions:</p> <ul style="list-style-type: none"> ● IP Address: If a device has static a IP, then users can add it by adding the IP. ● IP Segment: For a number of devices with successive IPs (for example, 192.168.1.50 to 192.168.1.100), if, excluding IP, all the other parameters (e.g., Device Port, Channel Amount and Org) of these devices are the same, then you can batch adding these devices by entering the start IP and end IP. ● Domain Name: Add device by adding the domain name. As the domain name of a device is unique, you can add a device via adding its domain name when the IP of the device is unknown. ● Auto Register: If a device has dynamic IP or it's in LAN, "Auto Register" is needed to add it in the DSS device list. For example, add on-board equipment by auto register. ● ONVIF: For device supportive of ONVIF protocol, add the device via ONVIF.
Video Server	<p>Server to which the video belongs.</p> <p>Click text box to select corresponding center server or distribution unit from the dropdown list.</p>
Device type	<p>Device types supported by the system include: DVR, IPC, NVS, MDVR, NVR, Smart NVR, MPT300, EVS, Smart IPC, VTT and Thermal Camera.</p>
Zero Channel Coding	<p>Mix multiple windows into one channel for transmission.</p>

Step 5. Choose "Device Type" and input "Device Name", "Video Channel", "Alarm Input / Output Channel", etc.

Step 6. Click "OK".

If you want to continue adding devices, click "Add More".

When adding device completed, the interface is shown as Figure 14–5.

+ Add		Delete		Search					
All Encoder Decoder									
<input type="checkbox"/>	Encode	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation	
<input type="checkbox"/>	1000006	5.1.5.1	NVD1	NVD	NewGroup1	Offline	Main connection failed.		
<input type="checkbox"/>	1000004	1.2.3.1	1	DVR	root	Offline	Main connection failed.		
<input type="checkbox"/>	1000005		autoDVR	DVR	NewGroup1	Online			
<input type="checkbox"/>	1000003	172.10.1.201	37779	DVR	root	Online			
<input type="checkbox"/>	1000002	172.10.1.201	37778	DVR	root	Online			

Figure 14–5 Adding Completed

14.2.2 Auto Search Encoder

“Auto Search” can be used to add device when channel of the device is in the same LAN as the platform server.

Steps to automatically add encoder by system:

Step 1. Click **Pack Down** in the upper part of “Device Management” interface.

System will automatically search devices. See Figure 14–6 for the search results.

+ Add		Refresh		Device Network						Pack Up
<input type="checkbox"/>	IP Address	Type	Port							
<input type="checkbox"/>	172.10.0.111	Unknown	37777							
<input type="checkbox"/>	172.10.1.27	EVS	37777							
<input type="checkbox"/>	172.10.1.30	DVR	37777							
<input type="checkbox"/>	172.10.1.33	NVR	37777							

+ Add		Delete		Search					
All Encoder Decoder									
<input type="checkbox"/>	Encode	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation	
<input type="checkbox"/>	1000006	5.1.5.1	NVD1	NVD	NewGroup1	Offline	Main connection failed.		
<input type="checkbox"/>	1000004	1.2.3.1	1	DVR	root	Offline	Main connection failed.		
<input type="checkbox"/>	1000005		autoDVR	DVR	NewGroup1	Online			

Figure 14–6

Step 2. You can reconfigure IP by clicking **Device Network**, or click **Refresh** to search devices of IP within the range.

Note

Devices on the same network segment are to be searched by default.

Step 3. Check devices to be added, and click **+ Add**.

A dialogue box “Batch Add” pops up. See Figure 14–7.

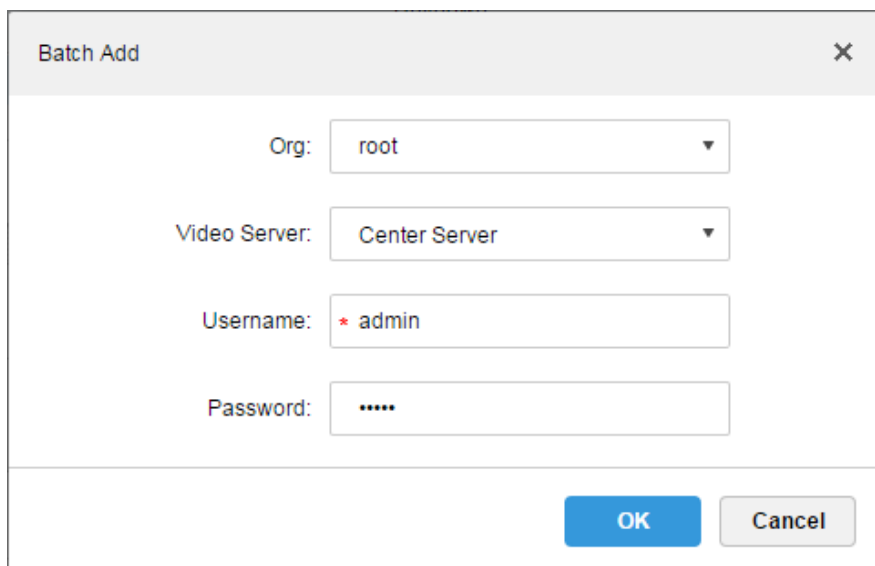


Figure 14–7

Step 4. Select “Org” and “Video Server” from the dropdown list, and input “Username” and “Password”.

“Username” and “Password” are username and password to login to device, default values being both “admin”.

Step 5. Click “OK”.

System will add device into corresponding organization.

14.3 Live Preview

Login to DSS Client and “Preview” interface will be displayed by default.

14.3.1 Organization Preview

Device Tree on the left side counts number of total devices and online devices by category of organization. See Figure 14–8.

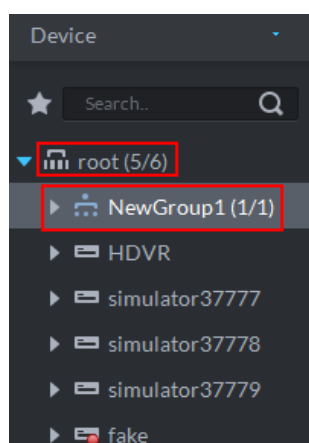


Figure 14–8

Right click Organization, as shown in Figure 14–9.

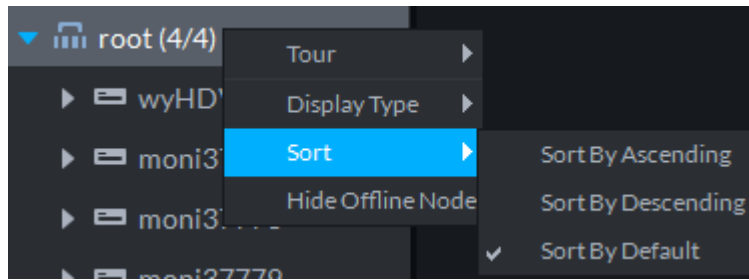


Figure 14–9

Video Tour can be enabled by right-click, with Tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min.

Device Tree is supported to display by name or by IP.

Device Tree is supported to display in an ascending, descending, or default order.

Right click to hide offline node.

14.3.2 Device Preview

From “Local Config > General”, check “Device Tree display model”. See Figure 14–10.

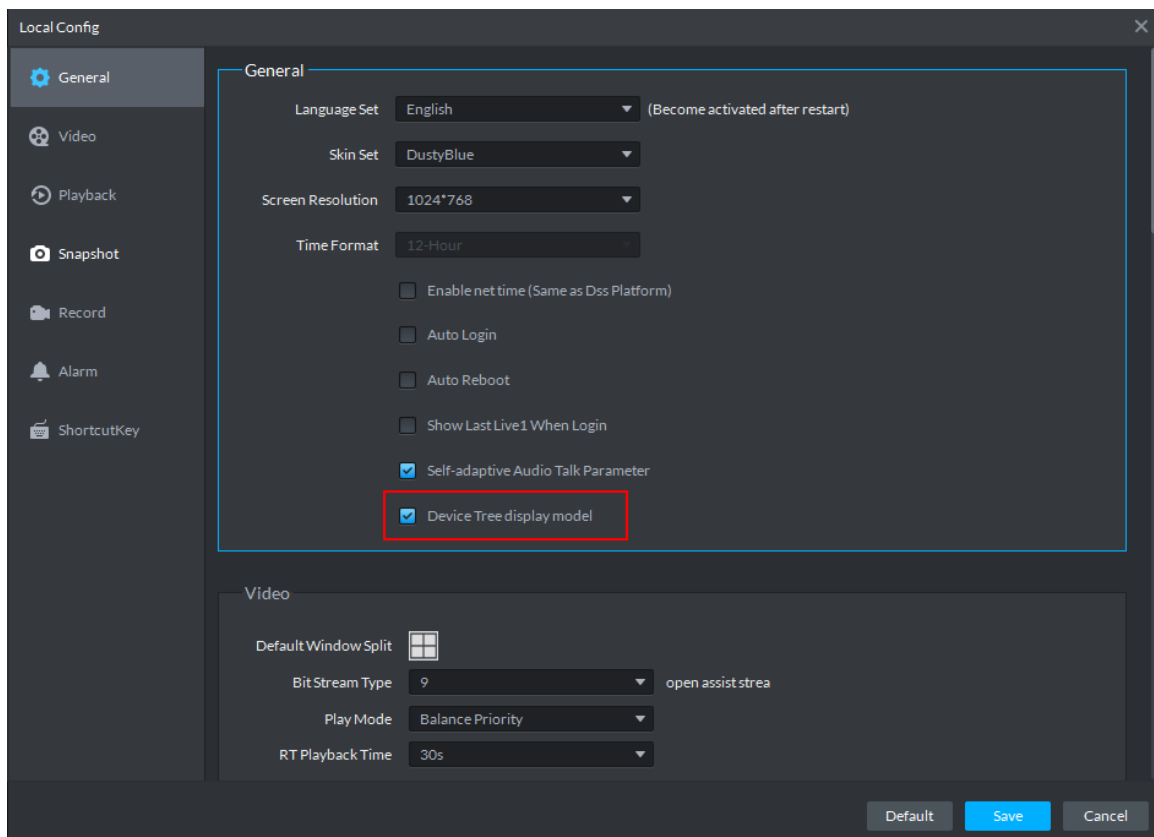


Figure 14–10

Then Device Tree in the Preview interface shows devices and channels, as in Figure 14–11.

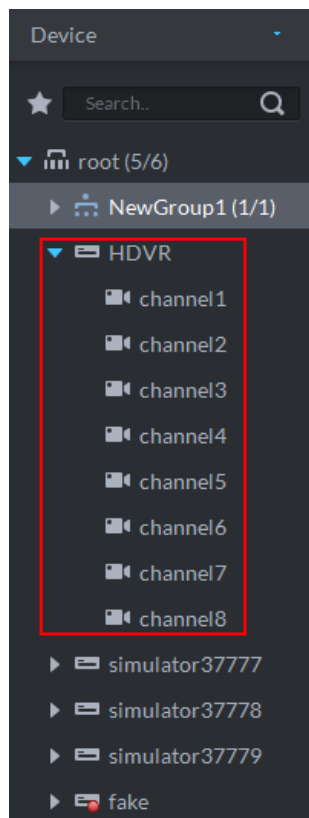


Figure 14–11

Right click device, as shown in Figure 14–12.

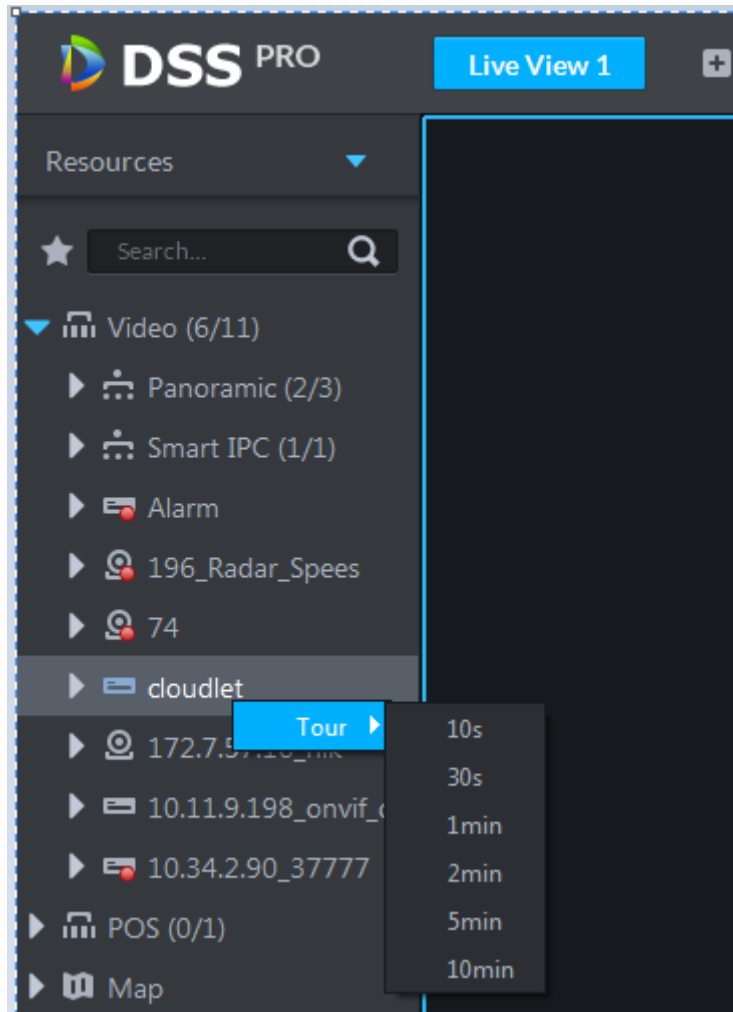


Figure 14–12

Video Tour can be enabled here by right-click, with Tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min.

14.3.3 Channel Preview

Uncheck “Device Tree display model” from “Local Config > General”, then device tree in the preview interface will be displayed by channel. See Figure 14–13.

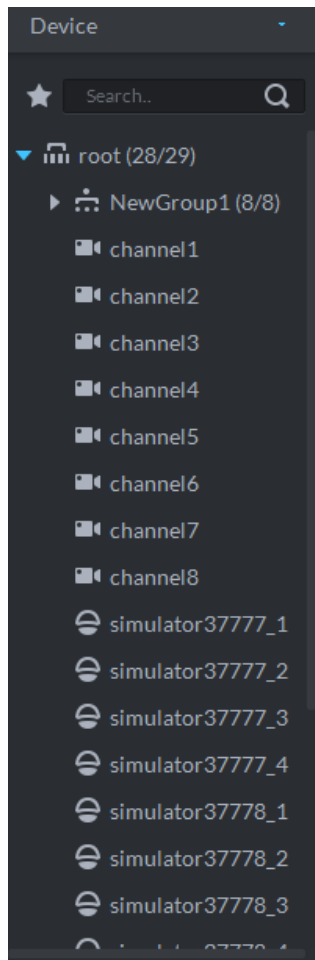


Figure 14–13

Right click Channel to add it to the favorite.

14.3.4 Display Previous live Image when it boots

Check “Show Last Live When Login” from “Local Config > General”. See Figure 14-14.

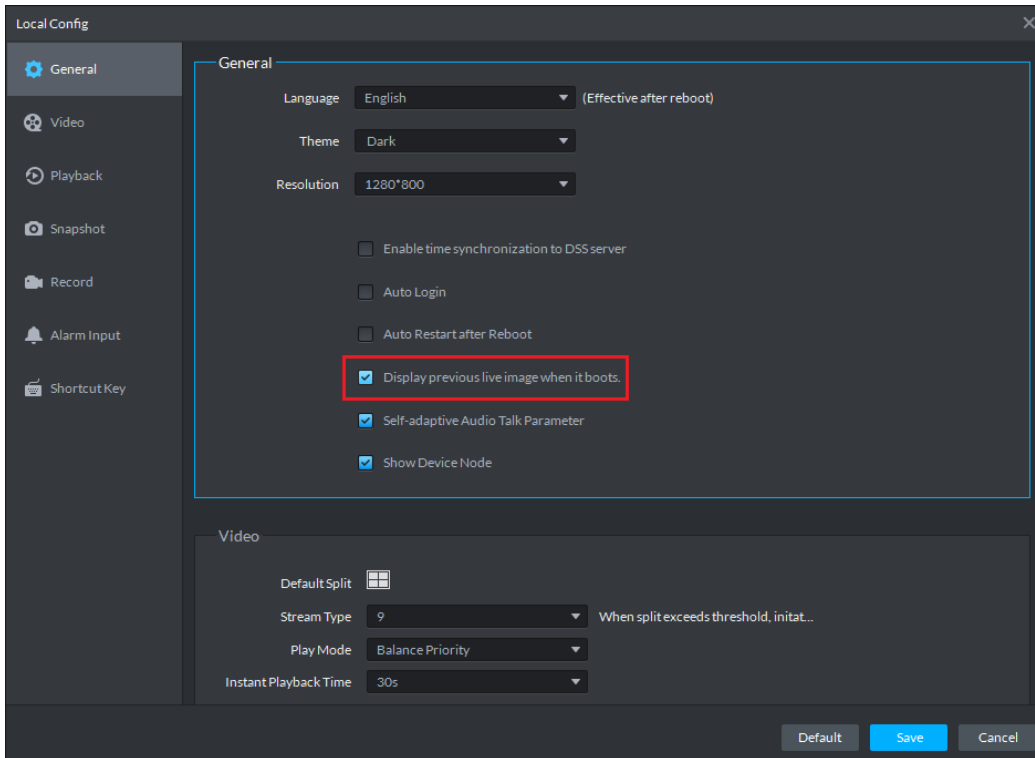



Figure 14-14

Open live video from the “Preview” interface, and click  at the bottom of the interface to save the video as View. You can open the video by directly clicking view channel on the left.

Shut down the client and restart it, then the Client will restore the video saved as View before shutdown.

14.3.5 Preview Display

Step 1. Choose channel from the device list on the left side of the “Preview” interface, and double click, or drag it to video window. If you double click device, then all channels of the device will be opened.

Real time monitoring interface is displayed in the video window, as in Figure 14–14.

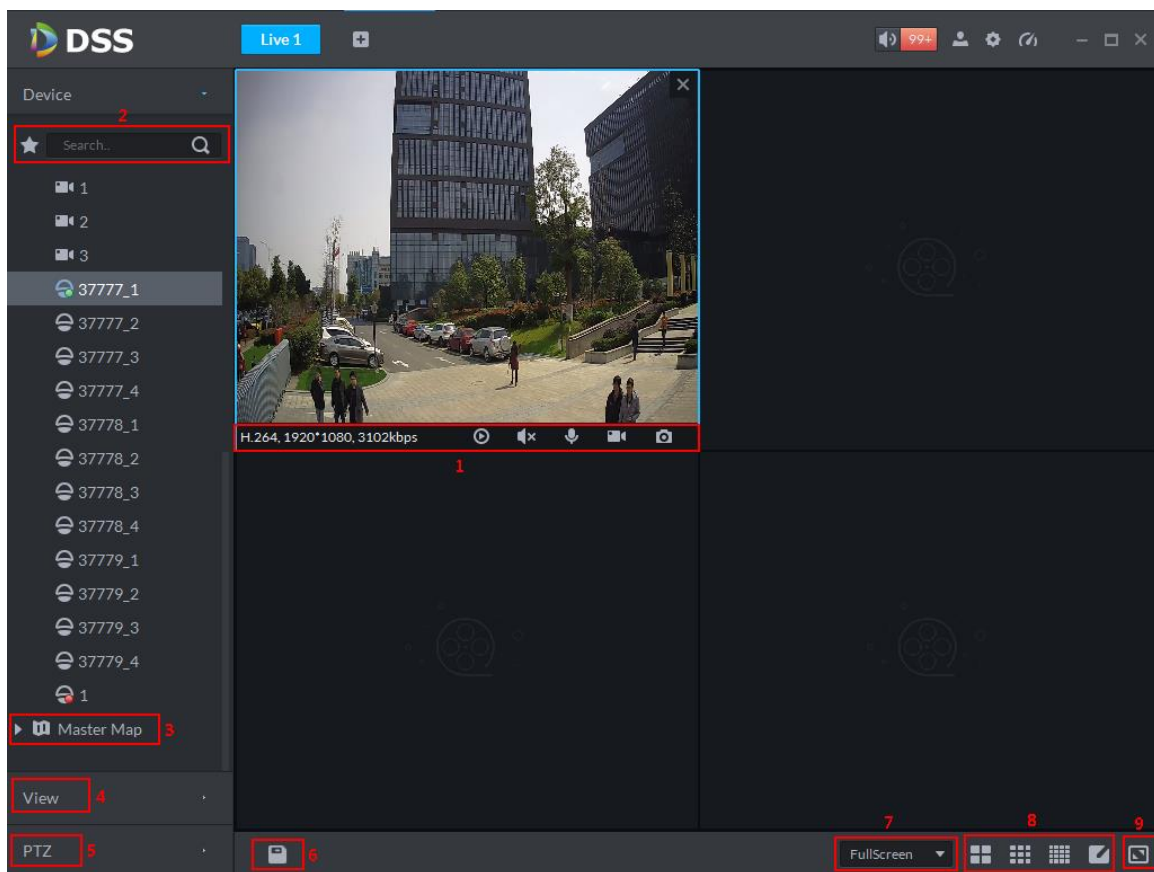











Figure 14–14

Serial Number	Parameter	Note
1	Bit Stream and Quick Start	<p>Here displays encoding format, bit stream info and quick-start buttons. Description for quick-start buttons:</p> <ul style="list-style-type: none"> • : Turn on/off Instant Playback, playback time can be set in “Local Config”. There shall be center record or device record for instant playback as precondition, center record be played back with priority. • : Turn on/off Audio. • : Turn on/off Device Audio Talk. Check “Self-adaptive Audio Talk Parameters” from “Local Config > General”; when audio talk is on, it will automatically adapt to various parameters without showing a pop-up box. • : Turn on/off Local Record. • : Launch Snapshot.
2	Favorite and Device Tree Search	<ul style="list-style-type: none"> • Search is supported by input device name or channel name in  here. • : Add, Delete or Rename Favorite. Favorite Tour supported.

Serial Number	Parameter	Note
3	Map Resource	Map can be opened in preview window, both GIS map and Raster map.
4	View	Live video window can be saved as View. Three-level directory is adopted for view, with level one as root node, level two for group and level three for view. Video Tour is supported from root node and group node, with tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min. Maximum of 100 views can be created.
5	PTZ	More info about PTZ of Speed Dome, see “14.5 PTZ Setup”.
6		Live video can be saved as view.
7	Aspect Ratio	Aspect ratio of the video window, selected from two modes for video play: actual scale and fit in window.
8	Window Split Mode	Select from modes among 1 to 64 to set window split mode, or click  to define split mode.
9	Full Screen	Switch the video window to “full screen” mode. To exit “full screen”, press the Esc key, or right click to select “exit full screen”.

Step 2. To configure active video window, right click preview window. See Figure 14–15.

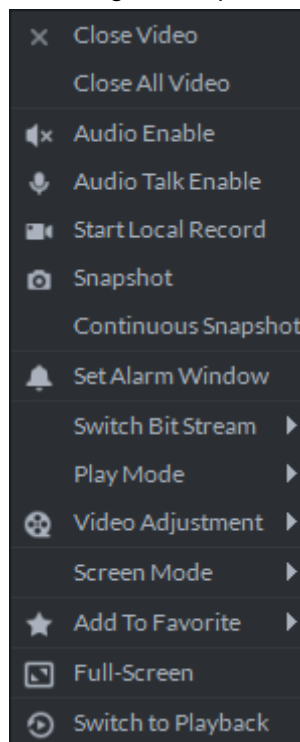








Figure 14–15

Parameter	Note
Close Video	Close active video window.

Parameter	Note
Close All Videos	Close all video windows.
Audio Enable	Same as  , to enable or disable camera audio.
Audio Talk Enable	Same as  , to enable or disable audio talk of corresponding device. Check “Self-adaptive Audio Talk Parameters” from “Local Config > General”; when audio talk is on, it will automatically adapt to various parameters without showing a pop-up box.
Start Local Record	Same as  , to record audio/video of the active video window and save them in local PC.
Snapshot	Same as  , to save image of the active video window as picture (one picture for each snapshot).
Continuous Snapshot	To save image of the active video window as picture (three snapshots each time by default).
Set Alarm Window	Turn on/off alarm output.
Switch Bit Stream	Switch among “Main stream”, “Sub stream” and “Third stream”.  Note If selecting “Sub stream” or “Third stream”, you need to check “enable Sub Stream” and “enable Third Stream” in the “Bit Stream” dropdown list when adding encoder from the Manager.
Play Mode	Switch between the modes of “Real Time Priority”, “Fluency Priority”, “Balance Priority” and custom defined mode.
Video Adjustment	Perform video adjustment and video enhancement.
Screen Mode	Three modes supported: Standard mode, 1+3 mode and 1+5 mode.
Fisheye Installation Mode	Supporting wall mount, in-ceiling mount and ground mount.
Fisheye View	For different fisheye installation modes, there are different views: Panoramic View: 360-degree panoramic view Double Panoramic View: Two 180-degree panoramic views Four Splits: Split the whole window into 4 parts in vertical and horizontal direction, allowing direction adjustment for each part separately Single Window: only one single window
Add To Favorite	You can add the active channel or all channels into Favorite.
Full Screen	Switch the video window to “full screen” mode. To exit “full screen”, double click video window, or right click to select “exit full screen”.
Switch to Playback	You can switch between live preview interface and playback interface quickly, without going back to homepage first.

14.4 Electronic Focus

Devices with electronic focus function can focus automatically.

Step 1. In the interface shown when the device adding is completed, click  to the right of the device with the electronic focus function, as in Figure 14–16.

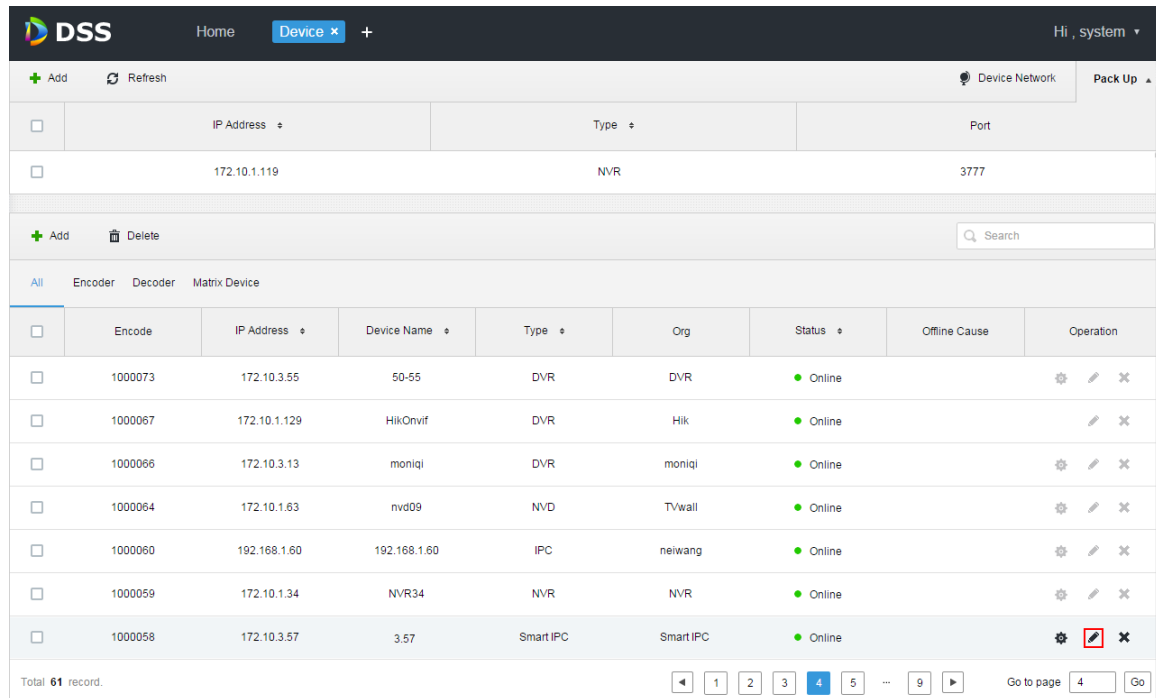


Figure 14–16

Step 2. Select “Video Channel” tab from “EditDevice” interface, then select “Support Electronic Focus” from “Function” dropdown list. See Figure 14–17.

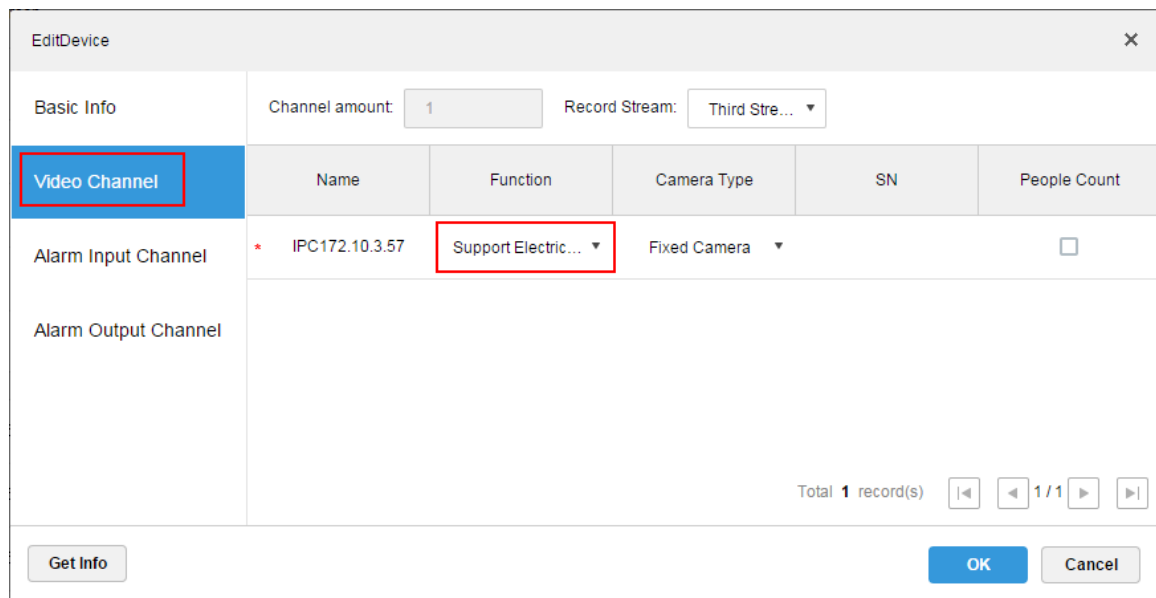


Figure 14–17

Step 3. Click “OK”.

Step 4. Login to DSS Client.

Step 5. In the “Preview” interface, open the video of channel with electronic focus function, as in Figure 14–18.

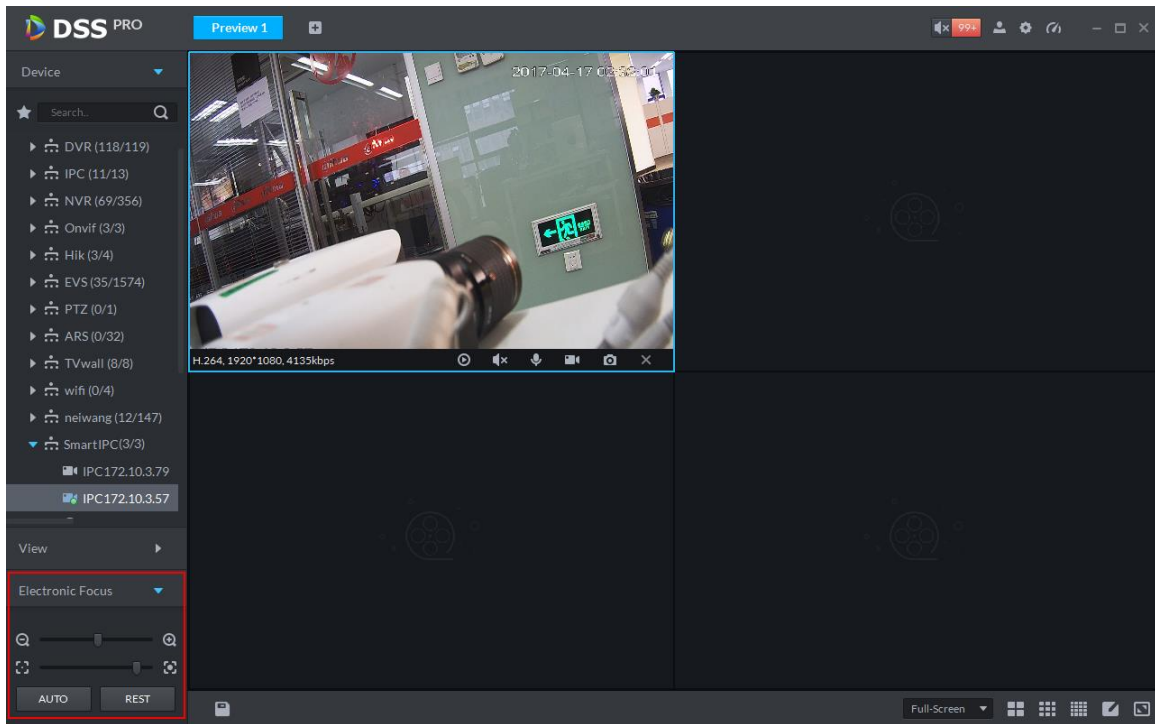



Figure 14–18

Drag  to zoom in/out video window.

Drag  to adjust screen focus.

Click  to reset the window to the initial image, as in Figure 14–19.

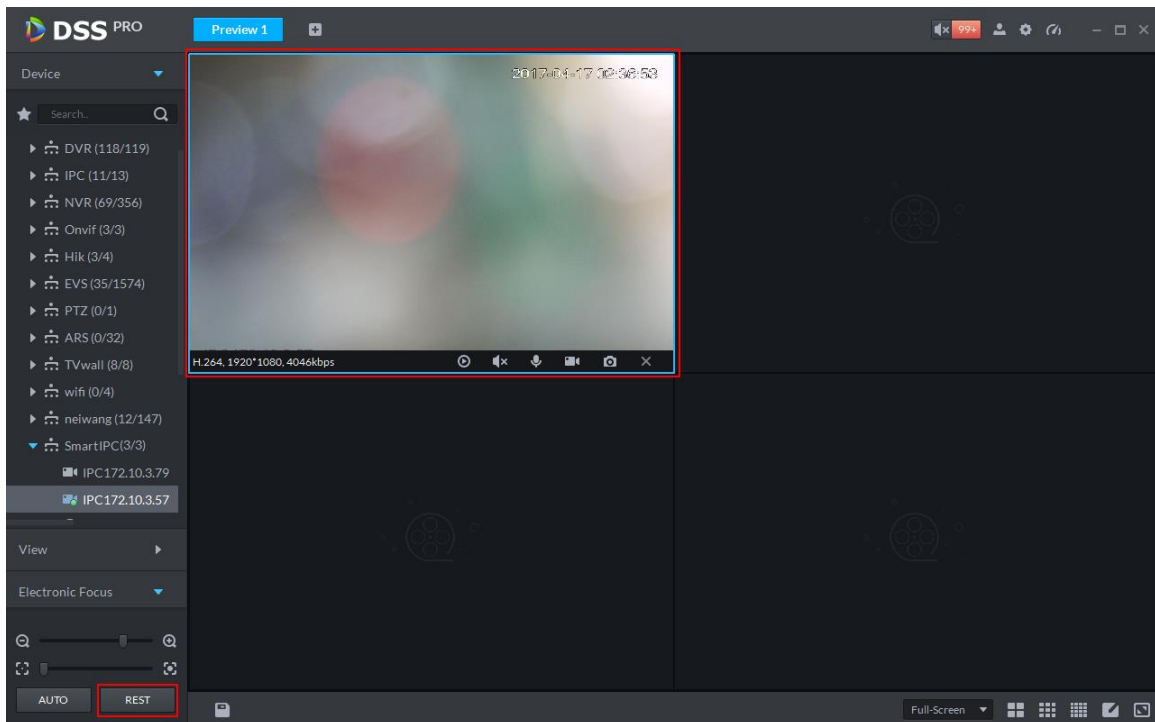
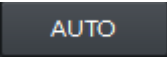


Figure 14–19

Click  to automatically focus to get clear image, as in Figure 14–20.

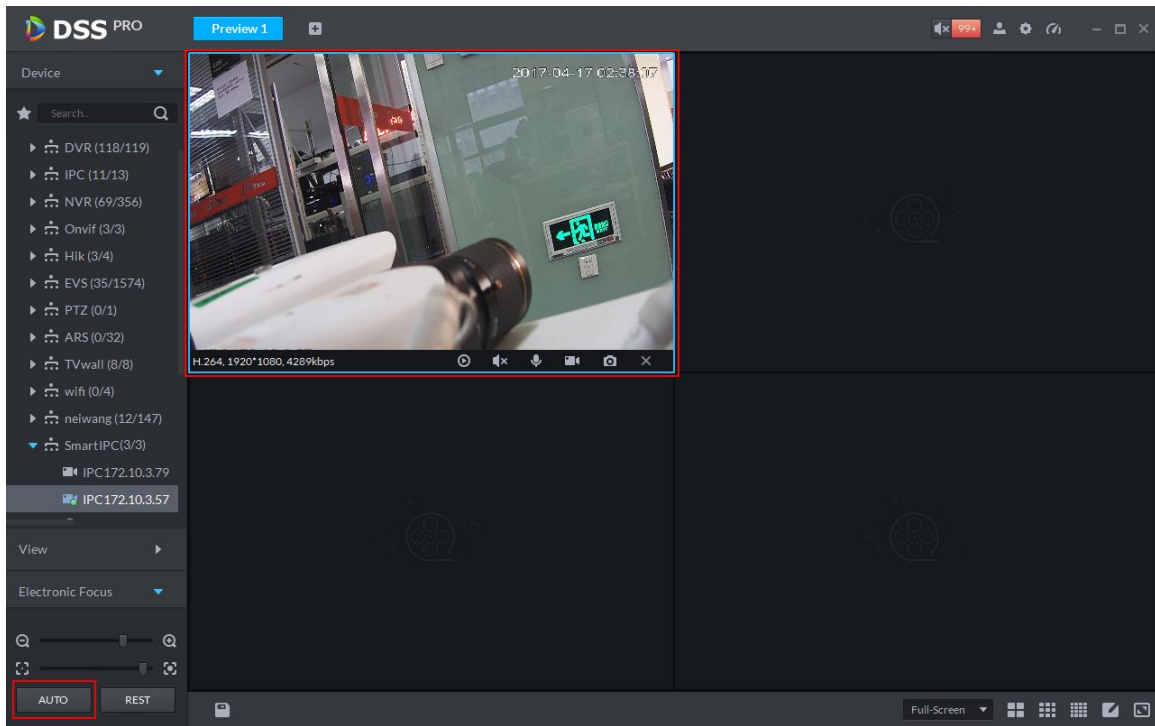



Figure 14–20

14.5 PTZ Setup

Step 1. In the interface of adding device completed, click  to the right of the speed dome device, as in Figure 14–21.









	Encode	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation
<input type="checkbox"/>	1000020	172.10.3.63	PTZ63	IPC	PTZ	Online		 
<input type="checkbox"/>	1000017	172.10.3.57	IPC57	IPC	Onvif	Online		 
<input type="checkbox"/>	1000015	172.10.1.129	HIK129	IPC	Hik	Online		 
<input type="checkbox"/>	1000013	172.10.3.71	IPC71	SmartIPC	IPC	Online		 

Figure 14–21

Step 2. Select the “Video Channel” tab from the “Edit Device” interface, then select “Speed Dome” from the “Camera Type” dropdown list, as in Figure 14–22.

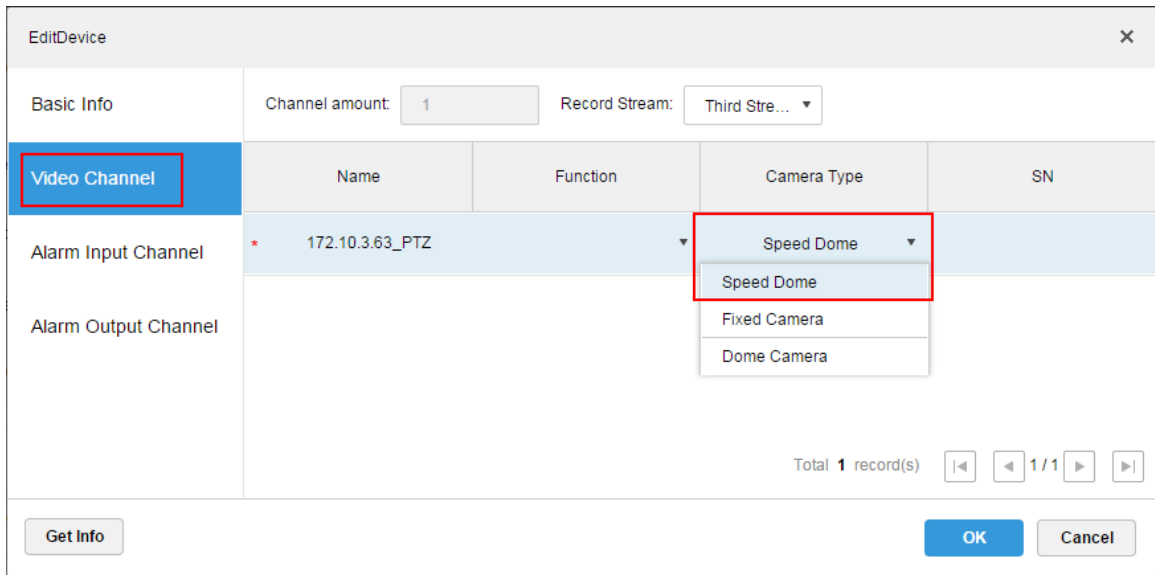


Figure 14–22

Step 3. Login to DSS Client, and open the speed dome video in the “Preview” interface. PTZ operation shows on the left side, as in Figure 14–23.

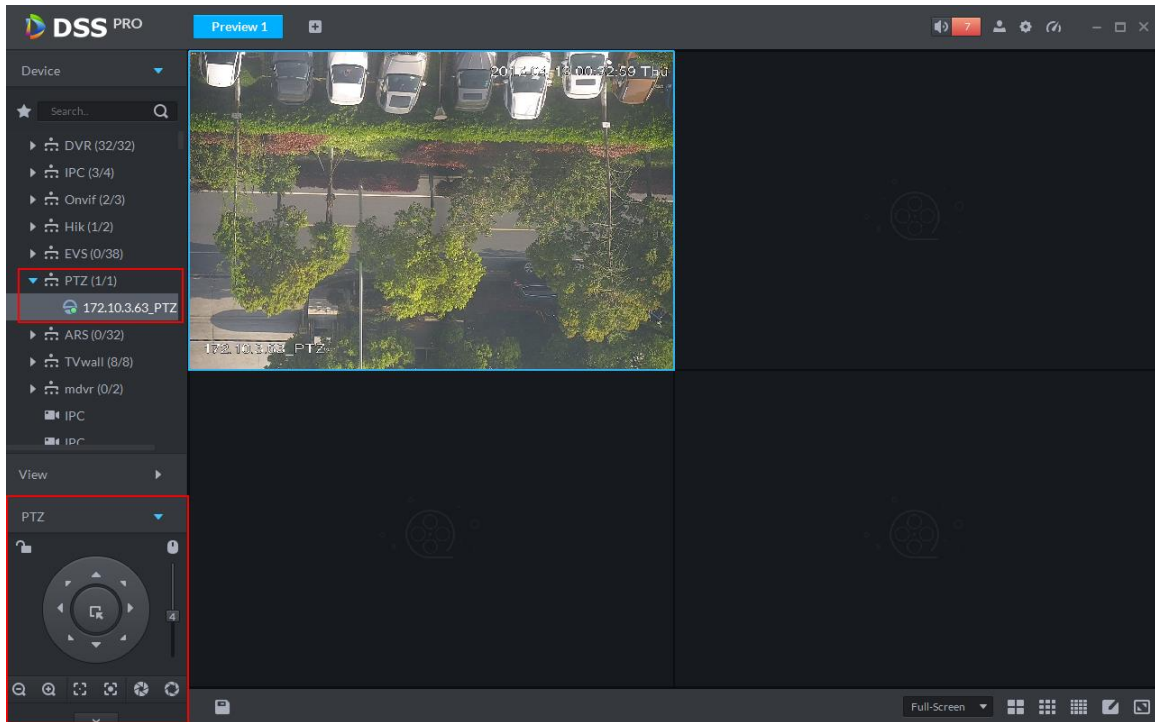



Figure 14–23

Step 4. Click  in the left lower part, to unfold PTZ operation, as in Figure 14–24.

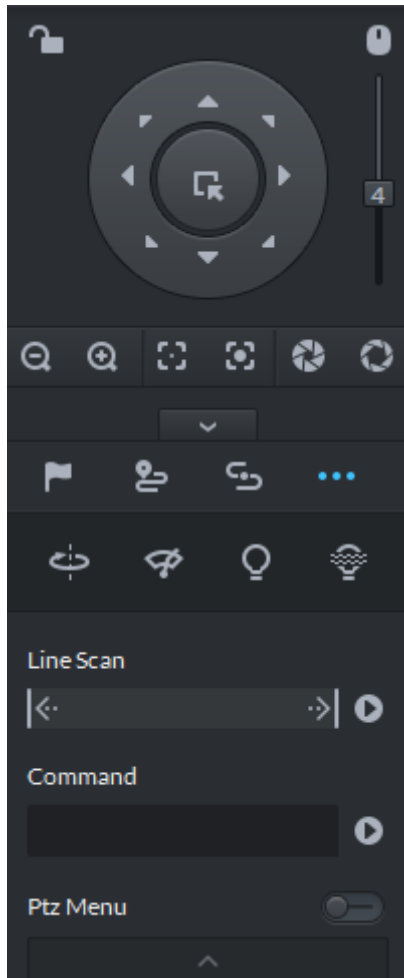









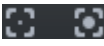







Figure 14–24

Parameter	Note
	<p>Click  to lock the current PTZ. Locked status shows as .</p> <p>Control over PTZ varies depending on user level.</p> <ul style="list-style-type: none"> • When user of low level locks PTZ, user of high level can unlock and enable the PTZ by clicking . • When user of high level locks PTZ, user of low level can't unlock the PTZ, unless PTZ automatically unlock itself. • Users of the same level can unlock PTZ locked by each other. <p> Note</p> <p>Default time for automatically unlocking PTZ is 30s.</p>
	Control speed dome with mouse.
Direction Key	Set rotation direction of PTZ, eight directions are available in total: up, down, left, right, upper left, upper right, lower left and lower right.

Parameter	Note
	3D Location and Partially Zoom In (for Speed Dome PTZ), to zoom in or zoom out the selected area.  Note This function can be controlled with mouse only.
Step Size	Adjust rotation speed of PTZ, to set the step size chosen from 1 to 8.
	Zoom, to control zoom operation of speed dome.
	Focus, to adjust focus.
	Aperture, to adjust brightness.
	Set Preset Point and you can rotate camera toward the preset point.
	Set Cruise, so that the camera can cruise among different preset points.  Note This function requires no support from speed dome. To cruise, speed dome only needs to support preset point.
	Cruise Track is equivalent to a record process.
Aux functions	It supports auto rotation, wiper, light and infrared lamp.


Preset Point

By adding “preset point”, you can rotate the camera toward the preset position.

Steps to add preset point:

Step 1. Click direction key of the PTZ to rotate the camera to the needed place.

Step 2. Click .

Step 3. Place mouse over 1 and click .

Step 4. Input preset point SN, and click .

Adding preset point completed.

To the right of , click , then camera will be rotated to the related position.


Cruise


Set “Cruise” to enable camera to cruise among different preset points.


 Note

To enable Cruise, at least 2 preset points are required.

Steps to add Cruise:

Step 1. Click .

Step 2. Place mouse over 1 and click .
A dialogue box with “New Cruise” pops up.

Step 3. Input “name”, and click “Operation” bar .

Step 4. Choose preset points from the dropdown list on the left, as shown in Figure 14–25.

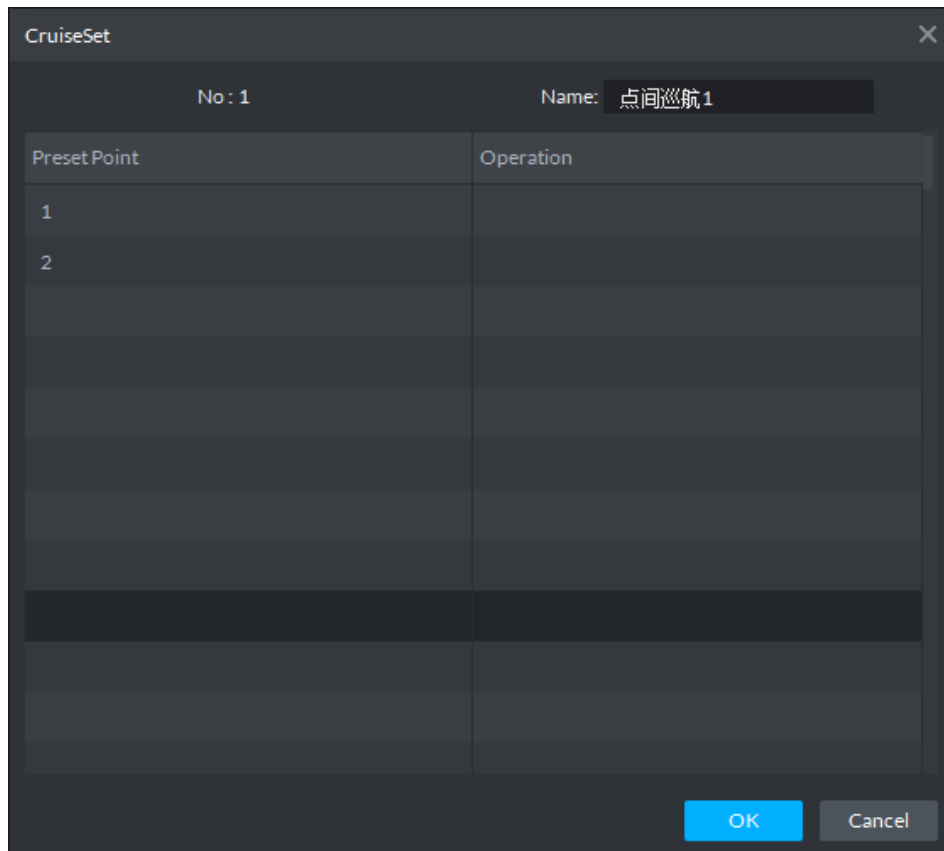



Figure 14–25

Step 5. Click “OK”.

System prompts “Cruise Saved Successfully”.


Step 6. Click “OK”.


To start cruise, place mouse over 1 and click , then camera starts cruise among the preset points of “Cruise 1”.


Cruise Track

Cruise Track is equivalent to a record process.

Step 1. Click .


Step 2. Place mouse over 1 and click , then operate 8 buttons of PTZ to set cruise track.


Step 3. Click  to complete cruise track setup.


Step 4. Click , and the camera will rotate following the cruise track set.

Linear Scan

Step 1. Click .

Step 2. Click PZT button, and rotate PTZ toward left to a position, then click  to set left boundary.

Step 3. Continue to rotate PTZ toward right to a position, and click  to set right boundary.

Step 4. Click  to start linear scan, then PTZ will rotate back and forth within the two boundaries.

14.6 Single Window with Multiple Splits

Live preview from Client supports Normal mode, 1+3 mode and 1+5 mode.

Right click to select “Screen Mode” in the live preview window, as in Figure 14–26.

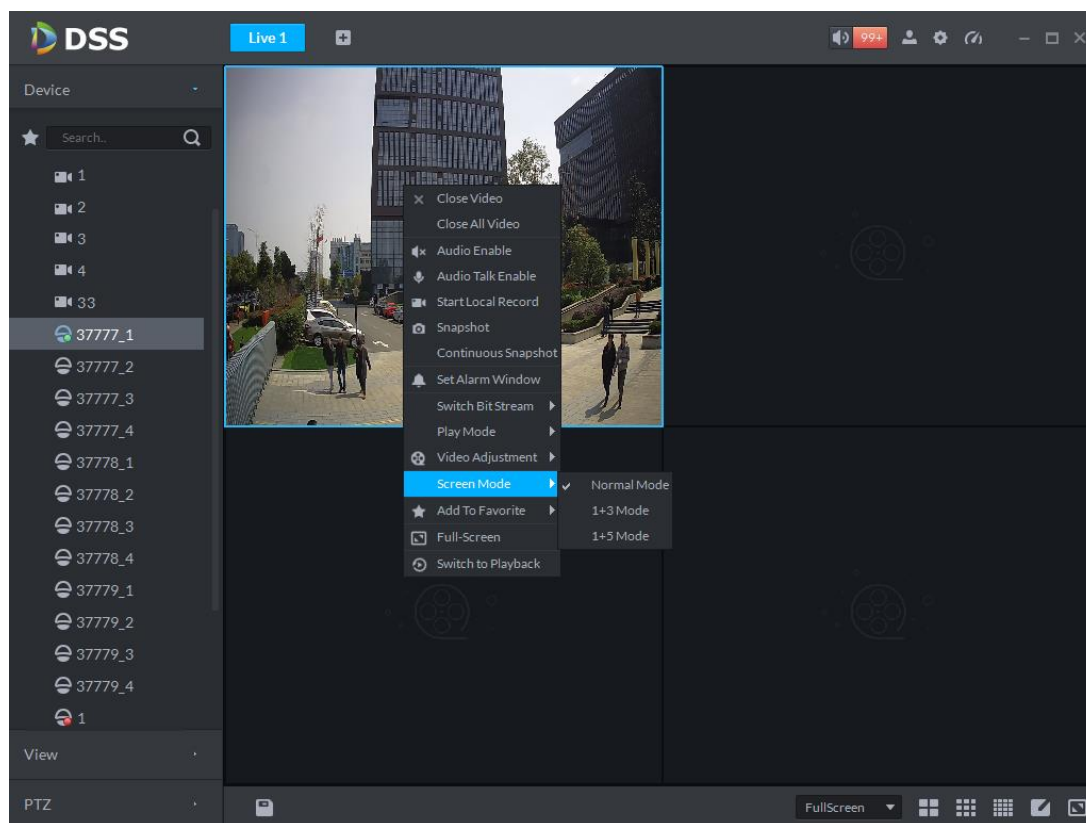


Figure 14–26

For example, to select 1+3 mode. See Figure 14–27.

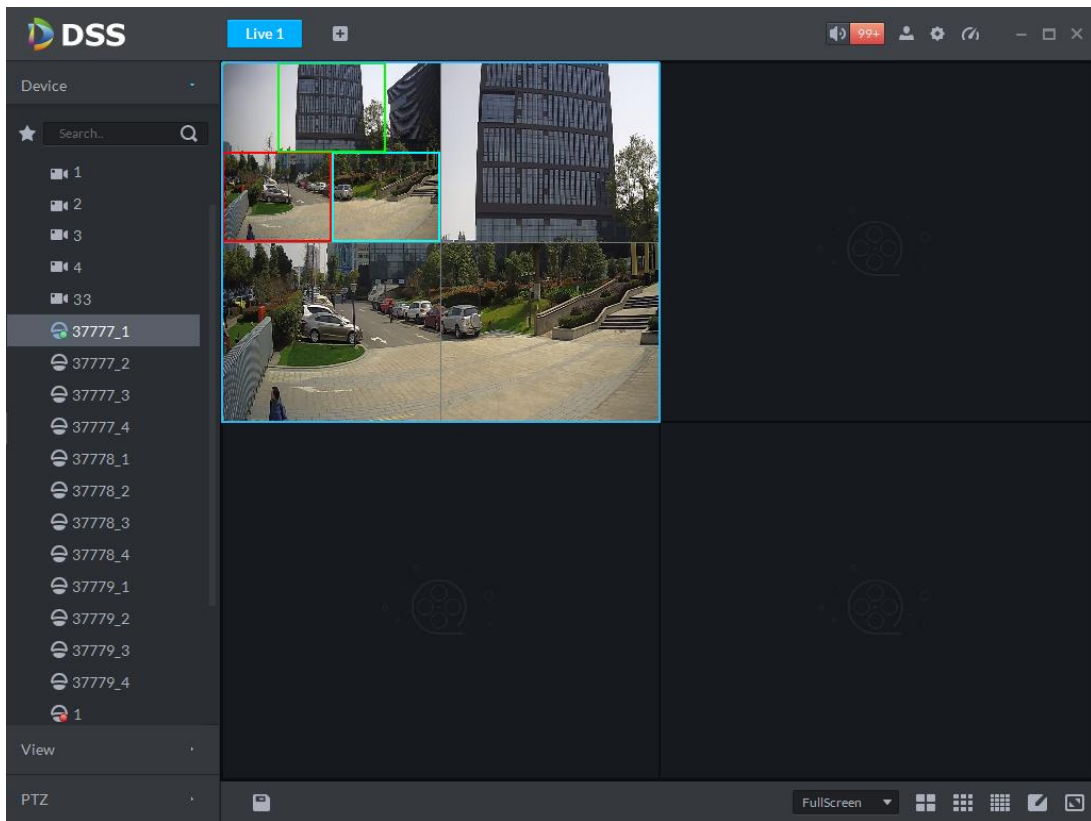


Figure 14–27

14.7 View

Step 1. In the “Preview” interface, double click a channel on the left side to open the video.


Step 2. Click  in the lower part, then a dialogue box of “Save The View” pops up, as in

Figure 14–28.

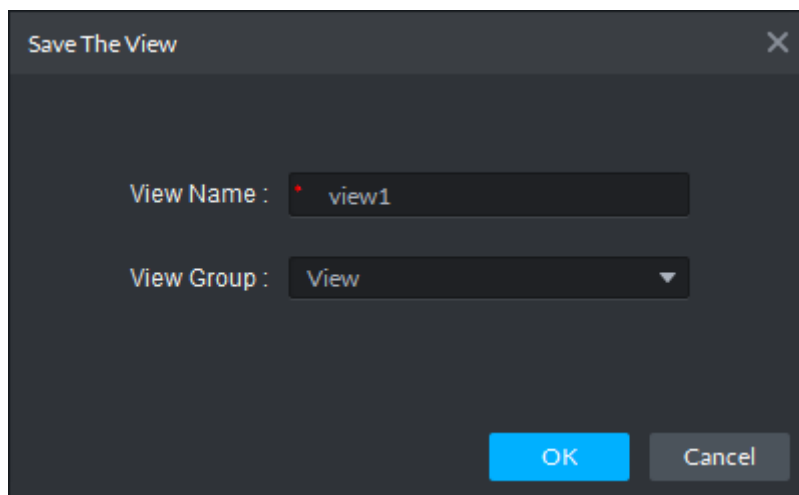


Figure 14–28

Step 3. Input “View Name”, select “View Group”, and click “OK”.

Check the added view under View tab on the left, as in Figure 14–29.

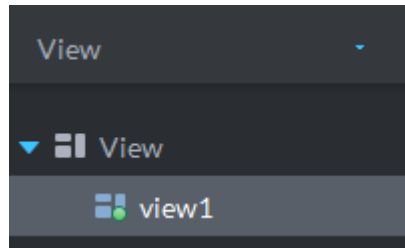
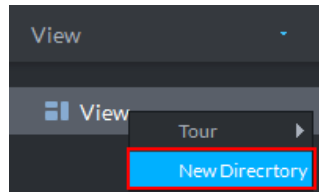
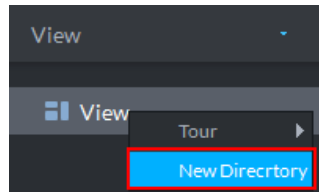


Figure 14–29



Step 4. Right click View, as in , to select “New Directory”. A dialogue box of “Create Folder” pops up, as in Figure 14–30.

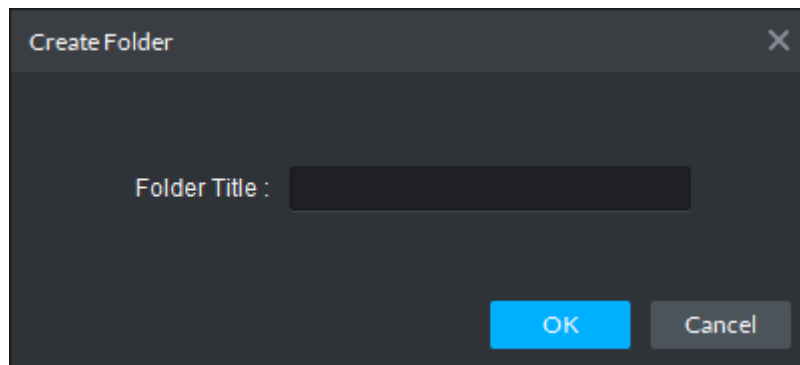


Figure 14–30

Step 5. Input “Folder Title” and click “OK”.

Step 6. Right click View to select Tour interval, for example, 10s.

Then for each view group, a Tour will be initiated at intervals of 10s, as in Figure 14–31.

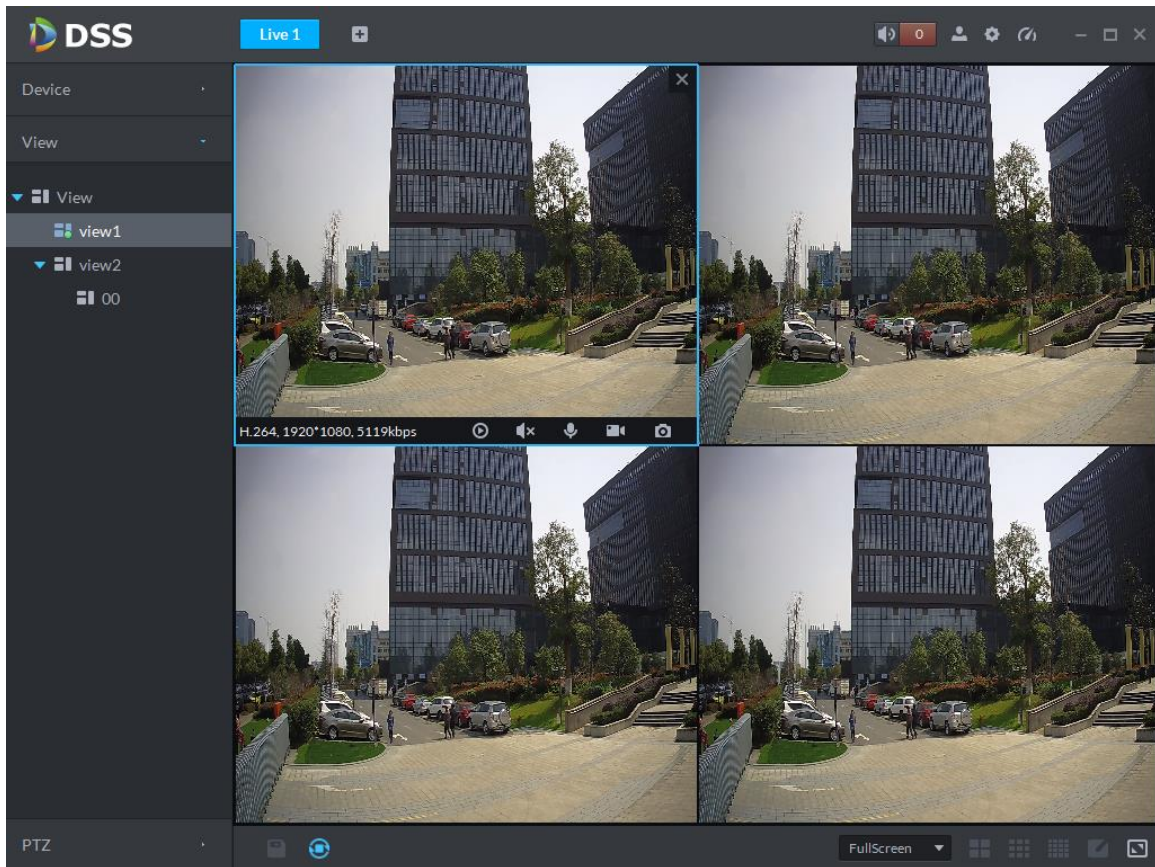
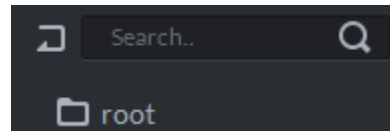


Figure 14–31

Step 7. Click  to stop Tour.

14.8 Favorite

Step 1. In the “Preview” interface, click  on the left, as in



Step 2. Right click Root as in , to select “New Directory”.

A dialogue box of “Create Folder” pops up, as in Figure 14–32.

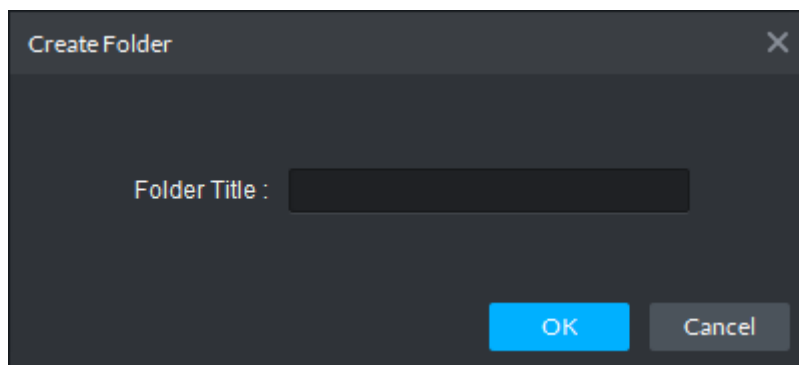


Figure 14–32

Step 3. Input “Folder Title” and click “OK”.

Step 4. Under device tree, you can right click a channel to add it to the Favorite. A dialogue box of “Add Favorite” pops up, as in Figure 14–33.

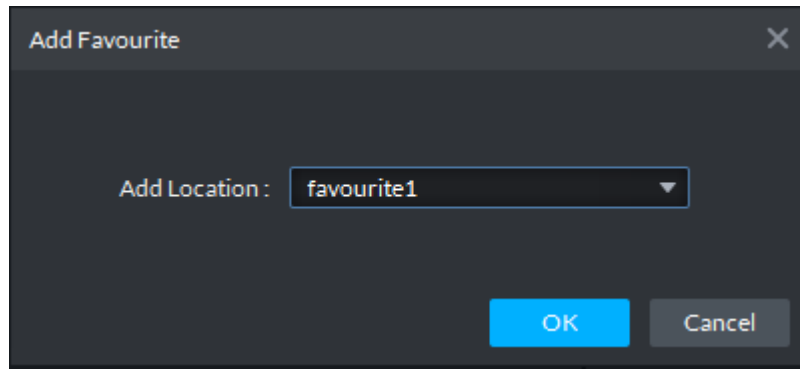


Figure 14–33

Step 5. Choose favorite, and click “OK”.

You can check the channel added under the favorite directory, as in Figure 14–34.

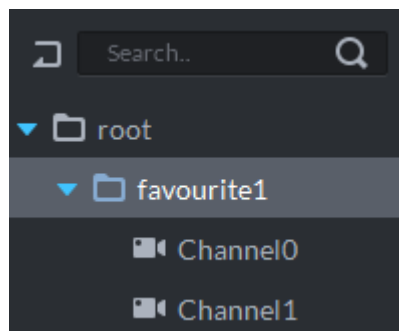


Figure 14–34

Step 6. Double click a channel to open the video.

Step 7. Right click Favorite name, to select Tour interval, for example, 10s.

Then Tour will be initiated at intervals of 10s for each channel under the favorite.

See Figure 14–35.

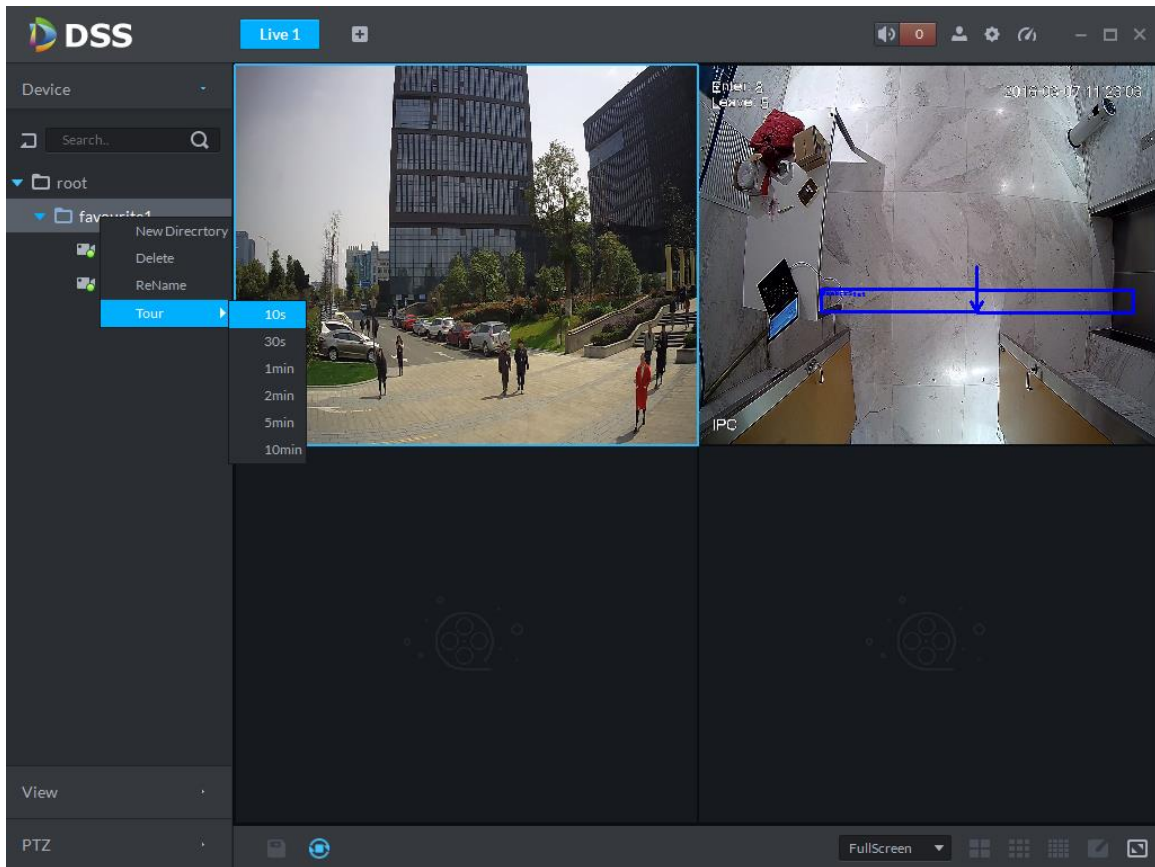


Figure 14–35

Step 8. Click  to stop Tour.

15 Panorama PTZ


15.1 Application Scene and Function

Panorama PTZ device has two types of combination:

1. 1 tracking speed dome+1 180° splicing camera.
2. 1 tracking speed dome+2 180° splicing cameras.

This is mainly applied in wide-range area, with IVS rule the tracking speed dome can auto track intrusion object, so manpower for monitoring could be reduced and the detection of intrusion is more smart.

15.2 Add Device

Step 1. Login DSS Manager, enter device module, in Figure 15-1 click  to add.

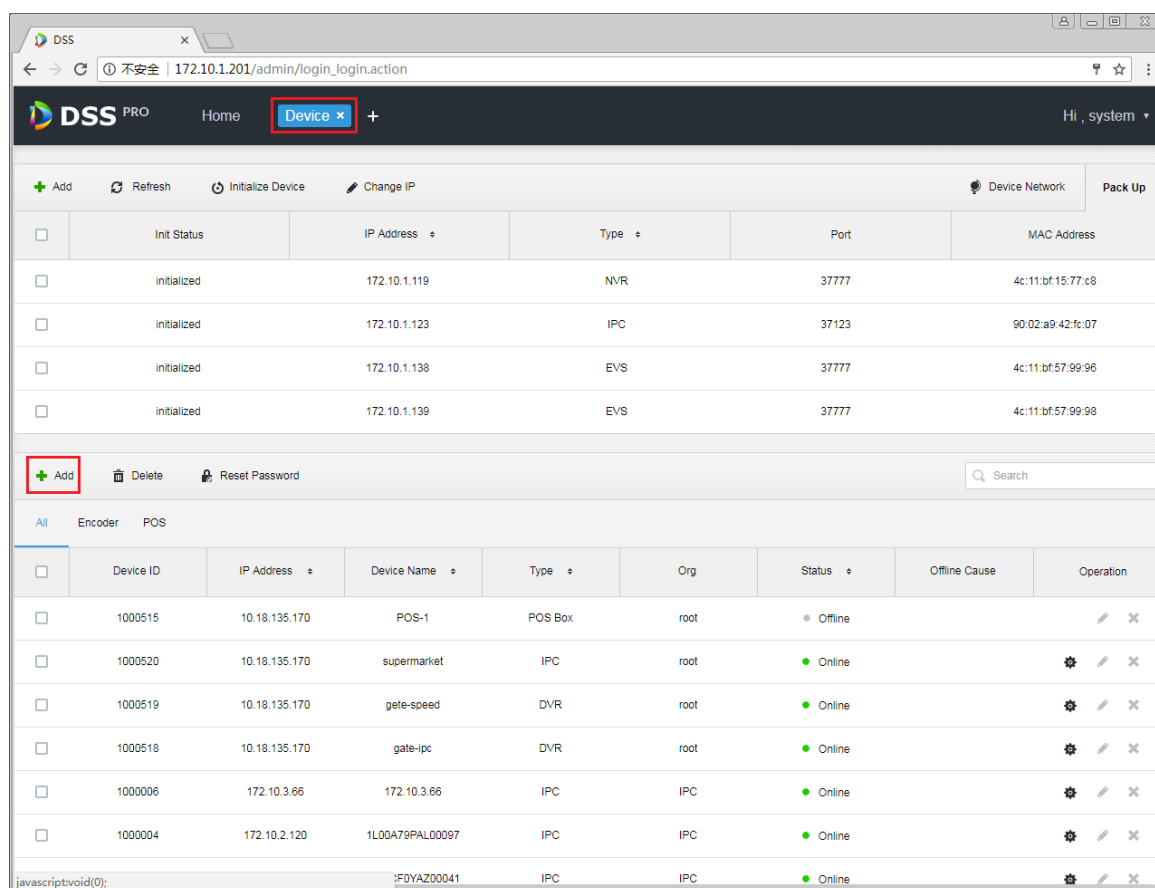


Figure 15-1

Step 2. Enter add device page, select encoder in device type, enter panorama PTZ IP address, port, username and password. Select organization and server, click Add.

Add All ✕

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

- Center Server
- 172.10.1.50
- 10.18.135.170

Figure 15-2

Step 3. Click Add button, if the device can be connected, the system can auto get type and channel info. See Figure 15-3. If not, you shall manually enter device type, input channel info, and click OK.

Add All ×

2. Device Information. 1.Login Information 2.Device Information

Device Name: * SWZ

Type: Panoramic ▼

Device SN:

Role: Administrator,Operator

Video Channel: * 3

Alarm Input Channel: 7

Alarm Output Channel: 2

Back Continue to add OK

Figure 15-3

Step 4. In device list, panorama PTZ is in Figure 15-4, you can see device online/offline status, device type, organization and etc. If it is offline, you also can see reason it became offline.

<input type="checkbox"/>	Device ID	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation
<input type="checkbox"/>	1000515	10.18.135.170	POS-1	POS Box	root	Offline		
<input type="checkbox"/>	1000525	171.3.2.67	SWZ	Panoramic	root	Online		
<input type="checkbox"/>	1000520	10.18.135.170	supermarket	IPC	root	Online		
<input type="checkbox"/>	1000519	10.18.135.170	gate-speed	DVR	root	Online		
<input type="checkbox"/>	1000518	10.18.135.170	gate-ipc	DVR	root	Online		
<input type="checkbox"/>	1000006	172.10.3.66	172.10.3.66	IPC	IPC	Online		
<input type="checkbox"/>	1000004	172.10.2.120	1L00A79PAL00097	IPC	IPC	Online		

Total 8 record(s).

Figure 15-4

15.3 Client Application

15.3.1 Preview

Step 1. Login client, in live view module, select panorama PTZ device, double click or drag it to preview window to open. Select any of the two IPC channels, right click master-slave mode, there are 1+1 and 2+1 available. 1+1 means to open currently selected IPC channel and tracking speed dome channel. 2+1 means to open 2 IPC channels and 1 tracking speed dome channel. See Figure 15-5.

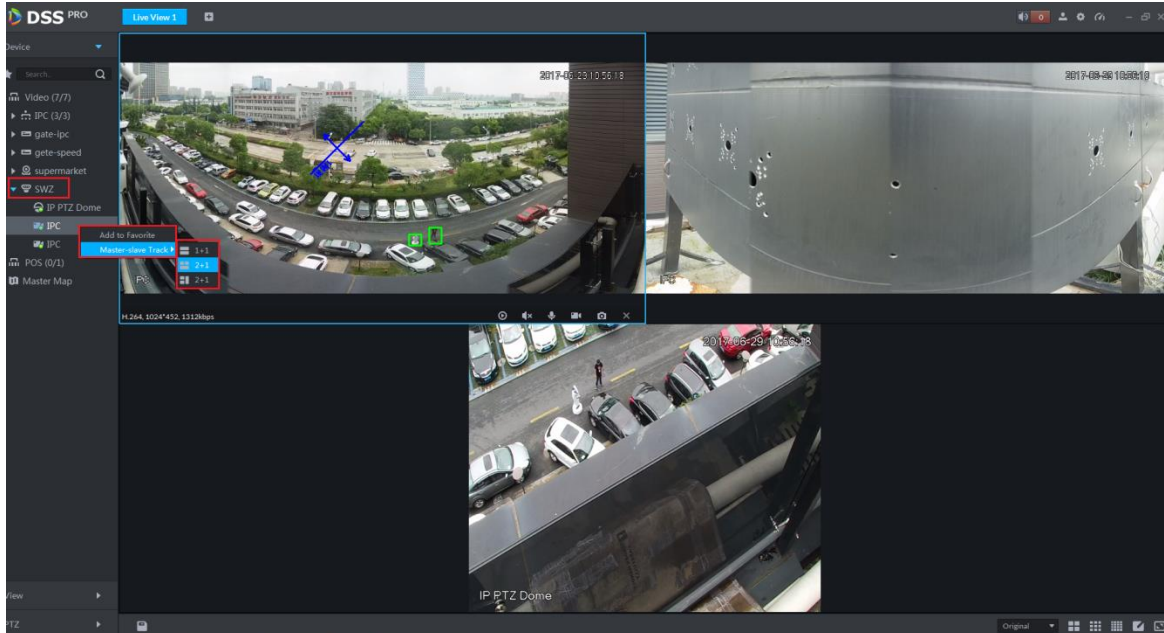


Figure 15-5

15.3.2 Auto Track

Step 1. Set device.

Firstly, login device WEB to set rule of IPC channel. Now it supports tripwire and intrusion.

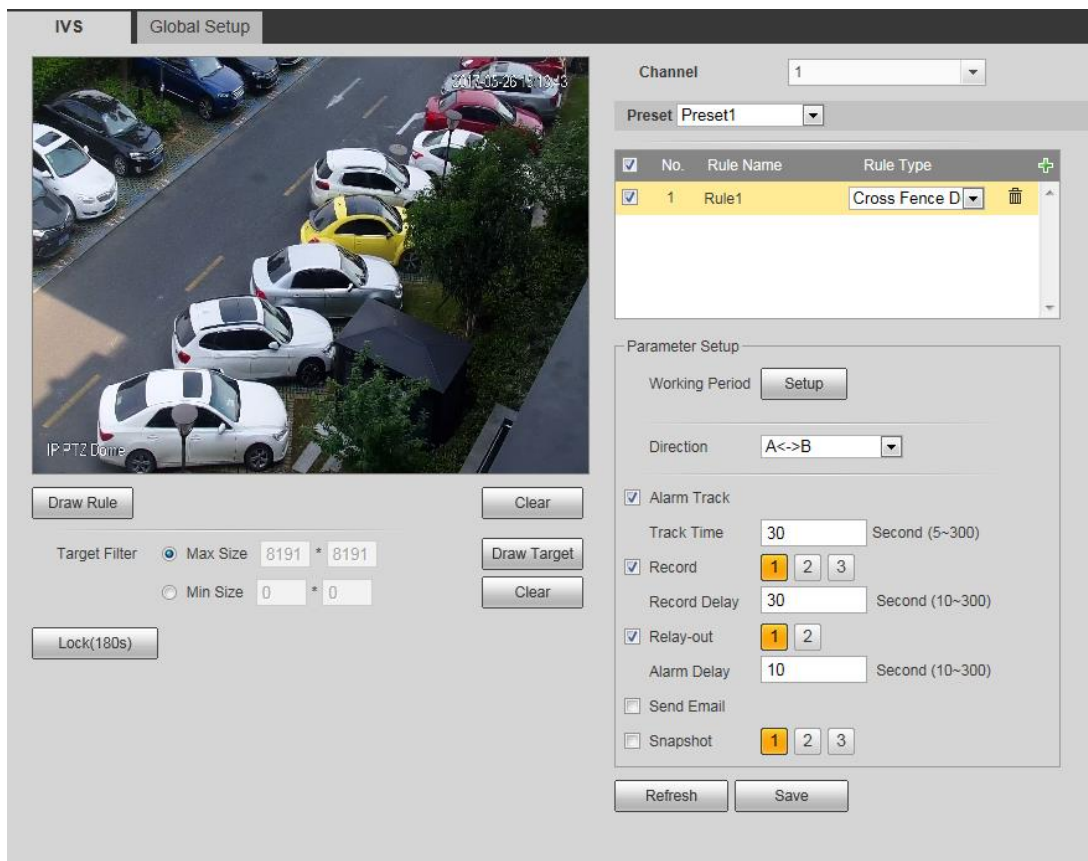


Figure 15-6

Step 2. DSS client application. Select one panorama PTZ device, right click, see Figure 15-7. In menu, you can turn on and off auto tracking of panorama PTZ device. On device, please set rule, and when an object enters the ruled area, there will be a green box, and the tracking speed dome will auto rotates to position of the object and moves following it.

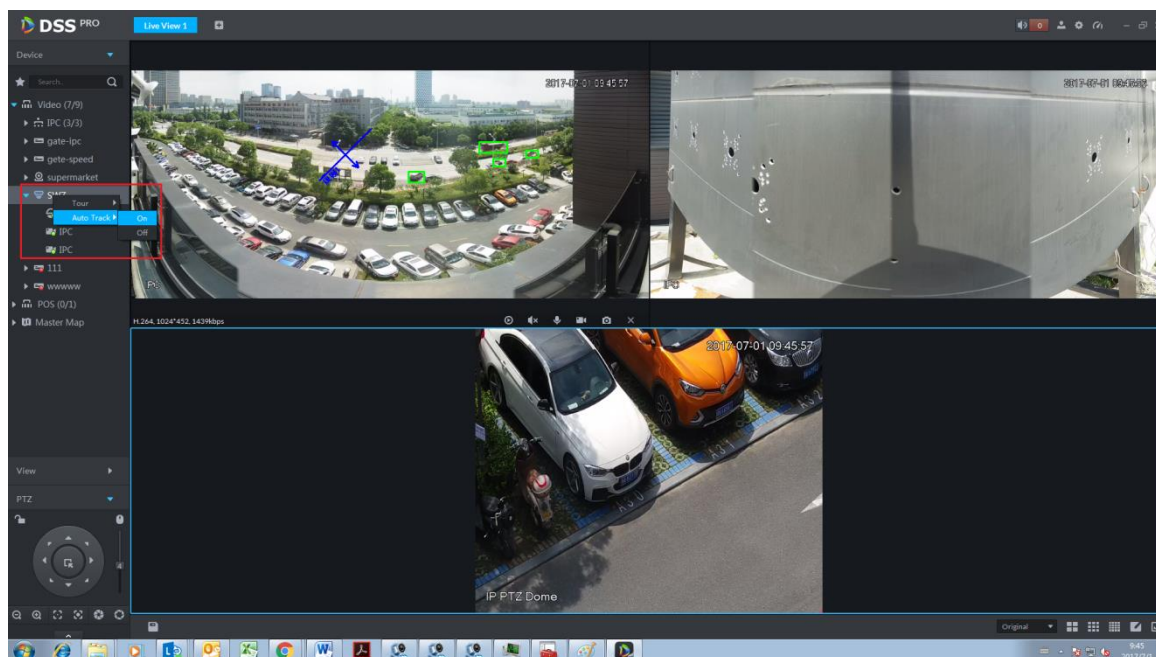


Figure 15-7

16E-Map

For normal use of electronic map function on the Client, you first need to select a map type in the Manager, including raster map, Google and Google offline map, and then drag video devices and alarm devices onto the map from the DSS Manager. E-Map supports alarm prompt, video view and record playback.

Note

- **Raster Map:**

A picture on display, suitable for indoor scenarios. Place the camera in a fixed indoor position, such as parking lot of planar character, and indoor scenario of passenger flow statistics or retail. Server uses raster map by default.

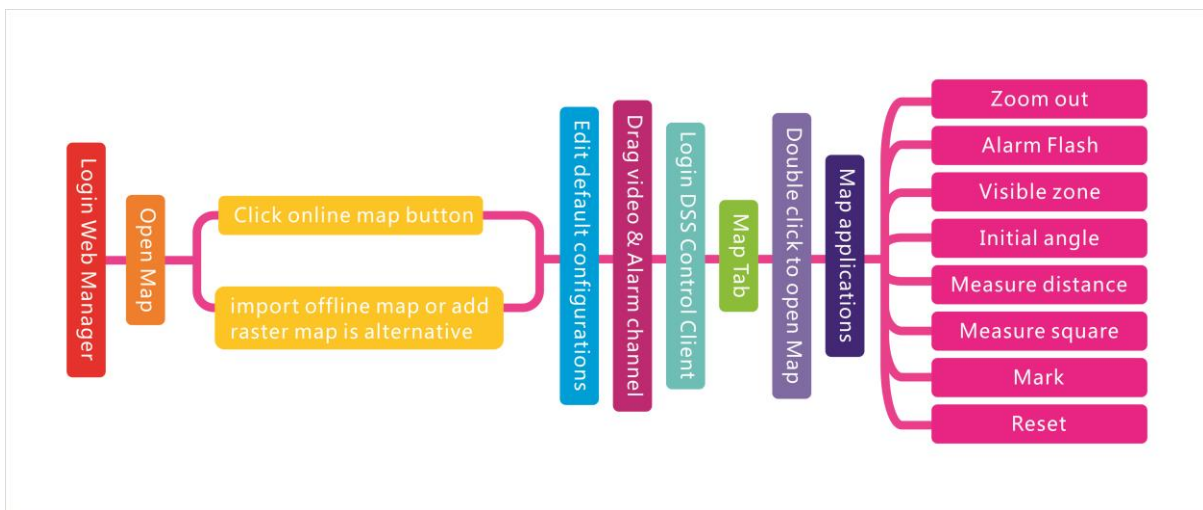
- **Google:**

For online Google map, network permission is required to access to Client of Google map. Online Google map can be zoomed in and out. It displays image of a city as a whole, as well as image of certain position in the city.

- **Google offline Map:**

Google offline map is deployed on other servers. Accessing to map Client and servers where offline map is deployed, you can use the offline map, which is of the same function as online map.

16.1 Flow



16.2 Add Map

16.2.1 Google Online Map

Directly enter IP address of the DSS platform in IE address bar, to login to the DSS Manager.

Detailed steps to be followed:

Step 1. Click  on the right side of the “Home” button.

All functional blocks will be displayed on the interface, as shown in Figure 16–1.

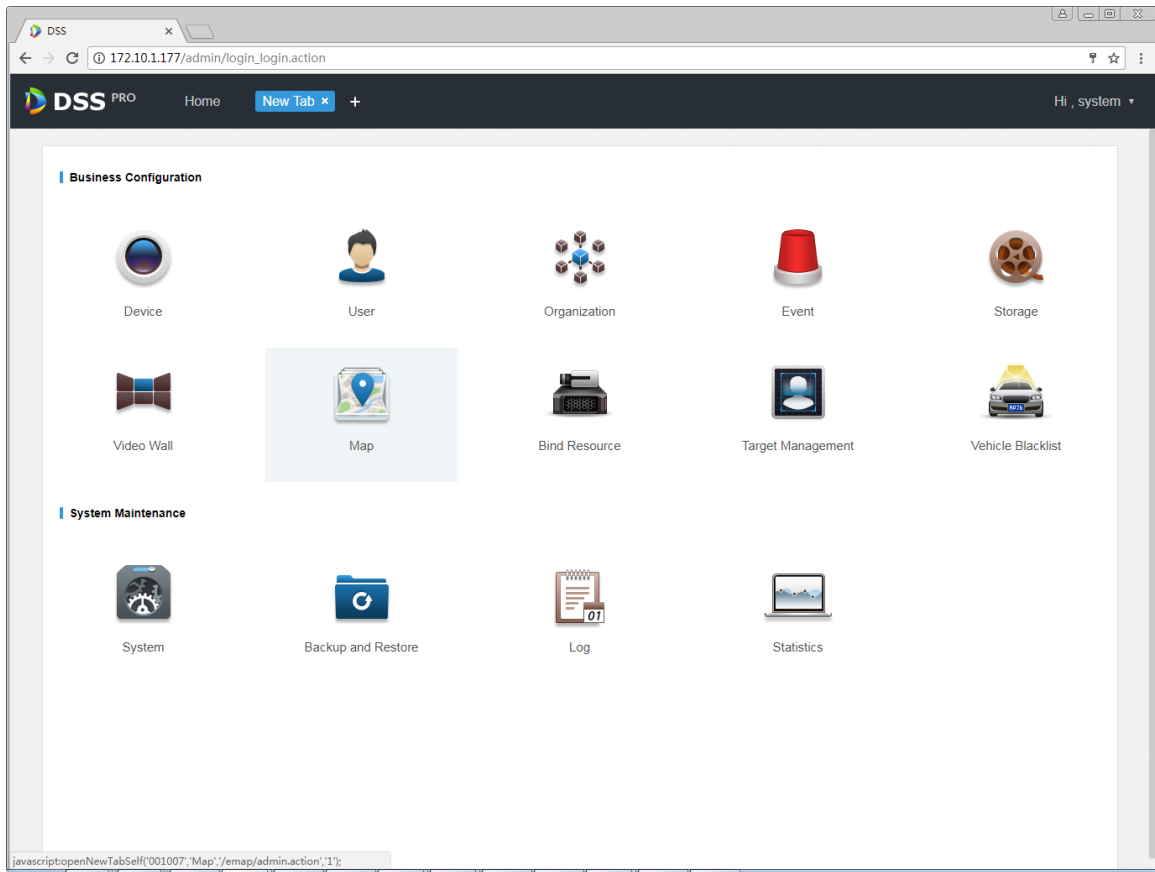


Figure 16–1

Step 2. Click “Map”.

System displays map interface, as in Figure 16–2.

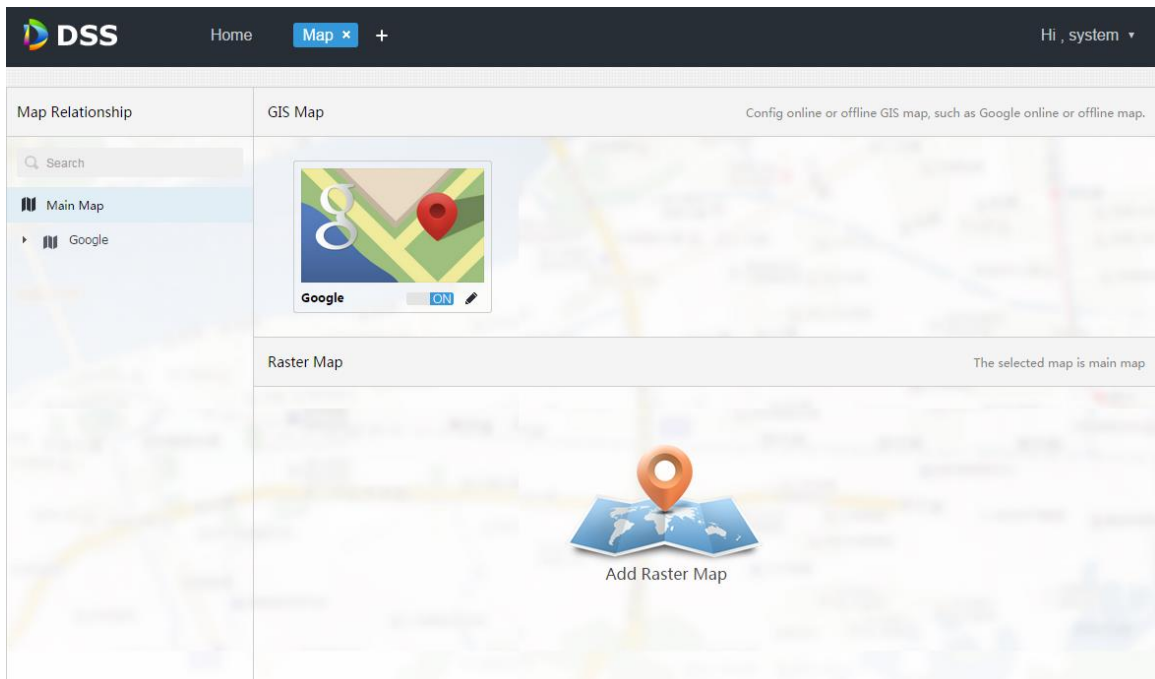



Figure 16–2

Step 3. Click  from Google map above.

System pops up an interface to modify map, as in Figure 16–3.

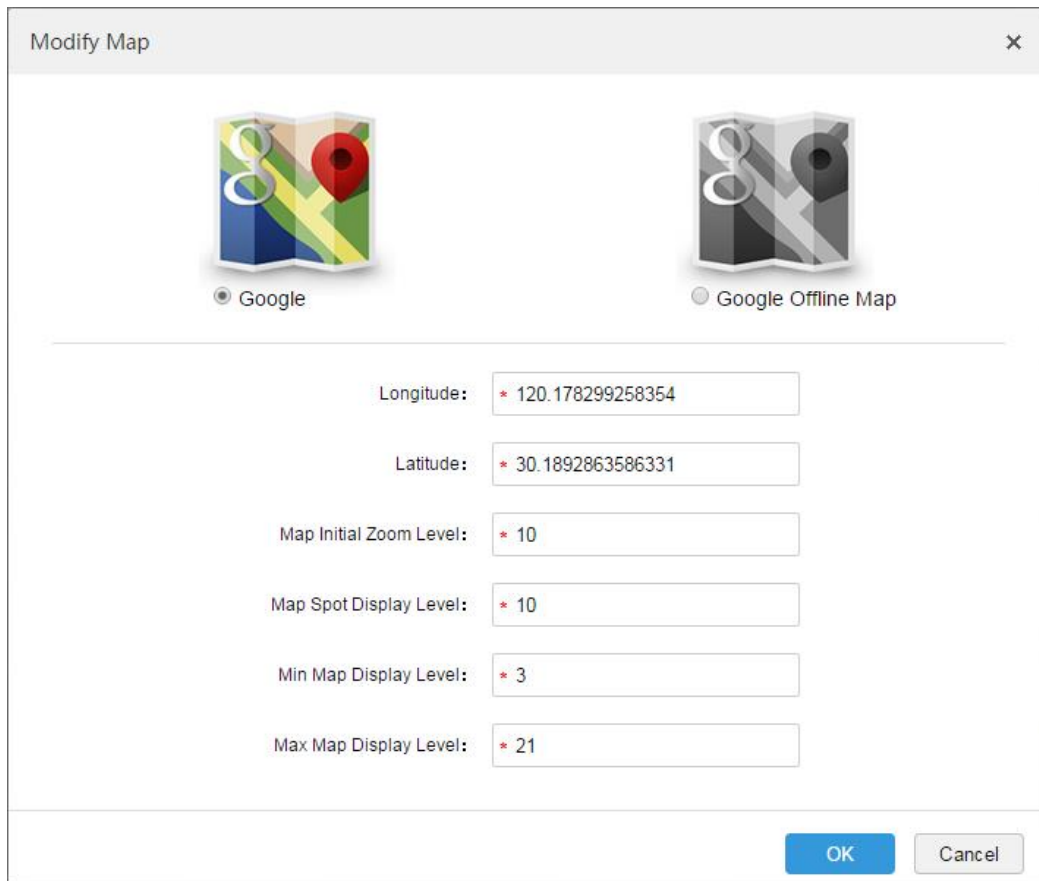


Figure 16–3

Step 4. Choose Google online map, and configure map info, then click “OK”.

16.2.2 Google Offline Map

Detailed steps to be followed:

Step 1. Choose Google offline map from Figure 16–3, as shown in “Figure 16–4”.

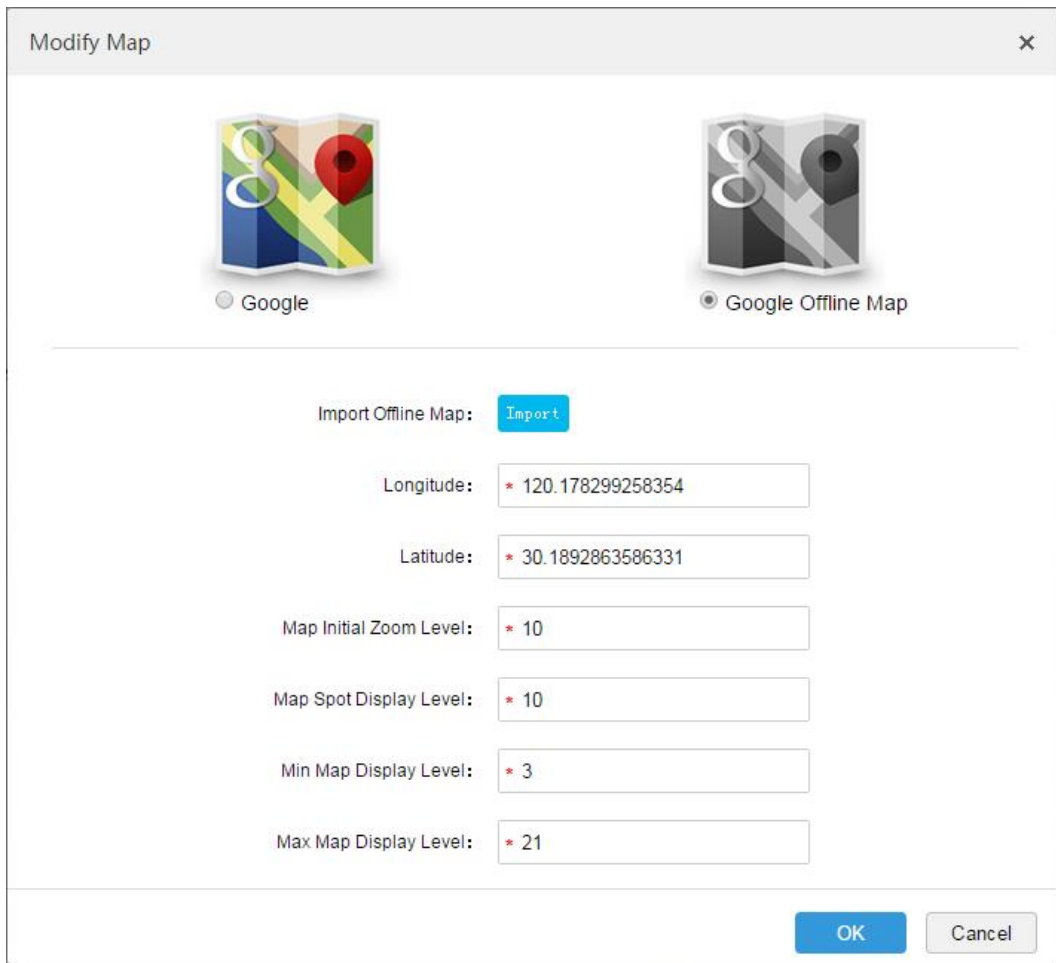


Figure 16–4

Step 2. Click “Import” to import offline map, configure map info, and click “OK”.

16.2.3 Raster Map



Step 1. As in “Figure 16–2”, click **Add Raster Map** in the interface.

A dialogue box of “Add Main Map” pops up, as in Figure 16–5.

Add Main Map [Close]

Name: *

Picture: [Browse]

Preview: [Map Icon]

Import raster map, support PNG, JPG, JPEG

Description:

[Submit] [Cancel]

Figure 16–5

Step 2. Input “Name”, choose Picture to be loaded up, and click “Submit”.

You can continue to add more raster maps.

Step 3. Click Google map or raster map added on the left, and a tab of adding hot zone shows on the right, as in Figure 16–6.

DSS Home Map x + Hi, system

Map Relationship

Search

- Main Map
- Google_Offline
- trf
- park

Hot Zone The selected map is main map

park [ON] [Edit] [Close]

Hot Zone Displayed main map includes hot zone

[+]
Add Hot Zone

Figure 16–6

Step 4. Click “Add Hot Zone”, and configure map info.

Hot zone in the main map above is added.

16.2.4 Channel Display

When adding Google online/offline map and raster map completed, click any map to drag channels on the left to the map, as in Figure 16–7.

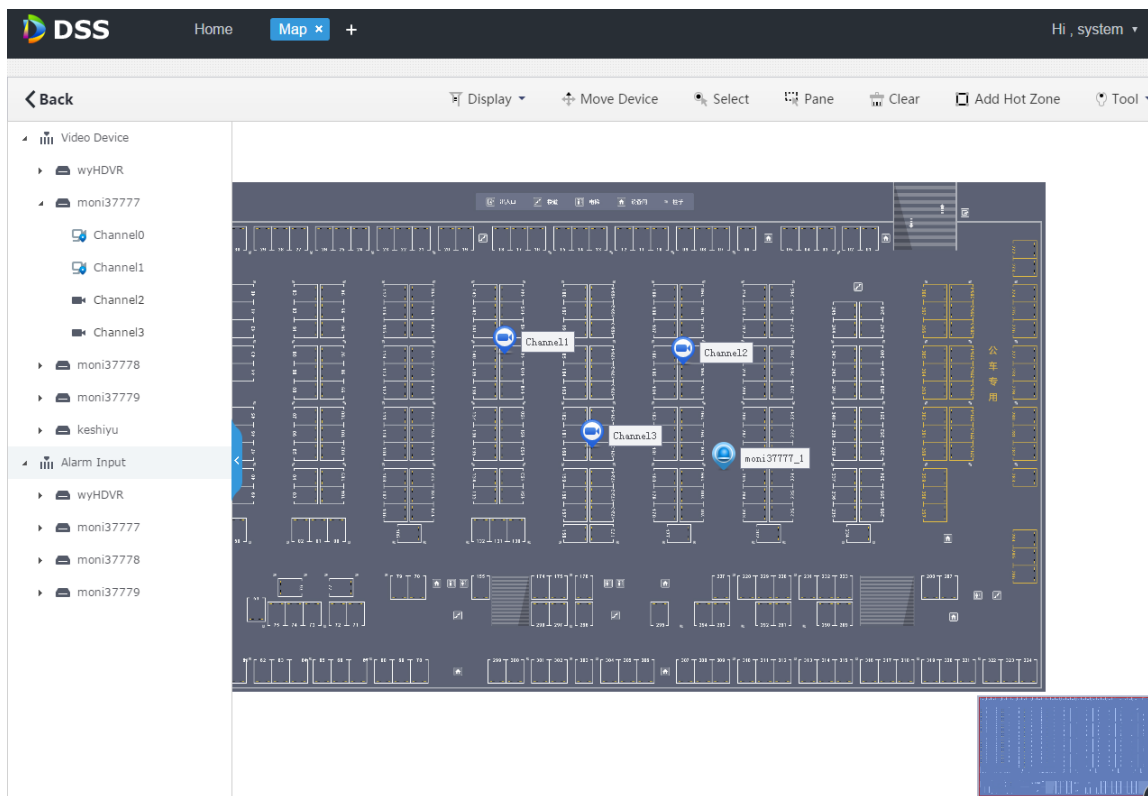


Figure 16–7

Parameter	Note
Device Display	Filter to display video device and alarm input channel.
Move Device	Click to move device position on the map.
Click	Click to select device.
Border Select	Select device via border selection.
Clear Screen	Clear border selection mark on the screen.
Add Hot Zone	Click “Add Hot Zone” to select area on the map and add it as hot zone. You can also add sub-level hot zone when entering this hot zone. Click Hot Zone on the map of Client, System will automatically link the map to area of the hot zone.
Tool	<p>Including distance measurement, area measurement, mark and reset.</p> <ul style="list-style-type: none"> Distance Measurement: to measure the actual distance between two points on the map. Area Measurement: to measure actual area of a region on the map. Mark: to mark on the map. Reset: to restore map to the default initial state.

To modify hot zone info, click hot zone. Double click hot zone to jump to the hot zone map. You can drag channel onto the hot zone map.

16.3 Map Use

16.3.1 Preview Window

Detailed steps to be followed:

Step 1. In the “Preview” interface, click  Master Map under the device tree on the left.

System displays map and hot zone map added from Manager.

Step 2. Double click map to show maps and added devices in the video window.

On the map, you can play live video, play back record, cancel alarm, etc..

Step 3. Select one channel and click  to play live video in the video window.

This is shown in Figure 16–8.

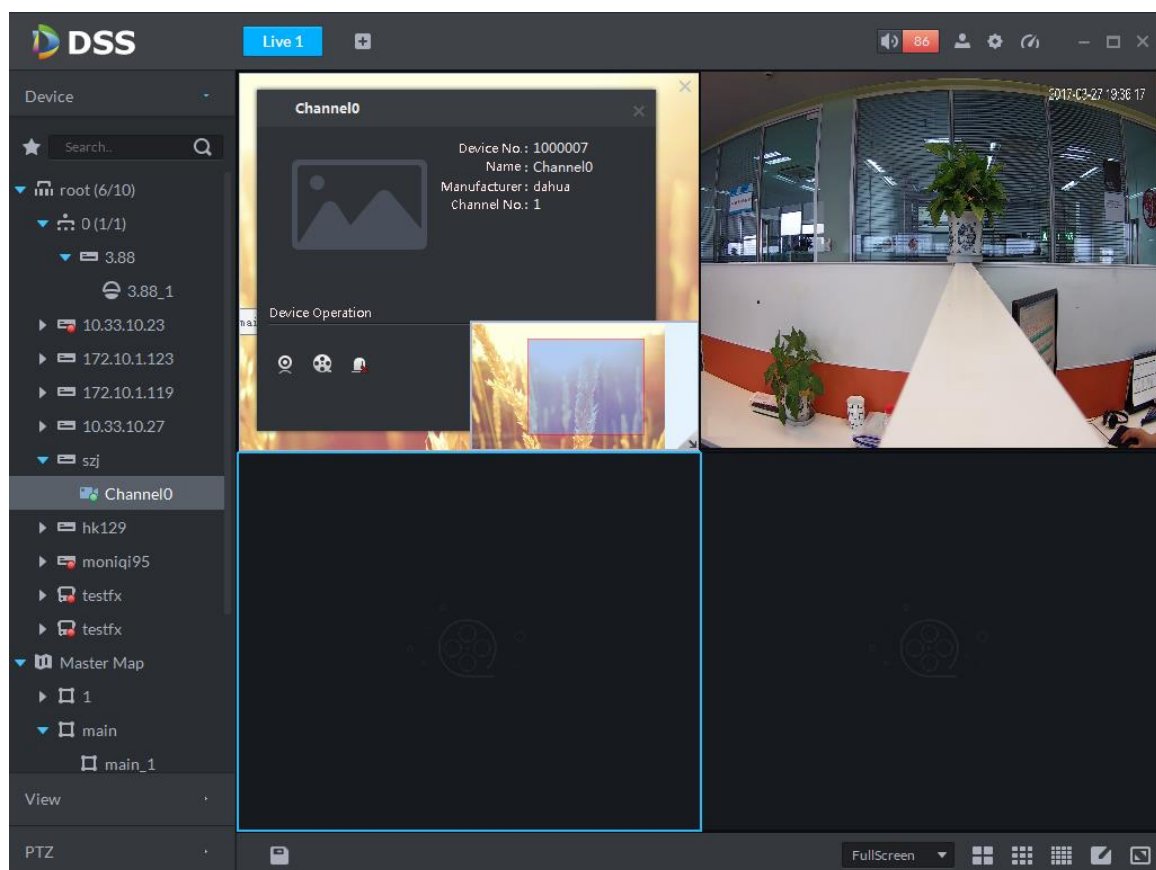


Figure 16–8

16.3.2 Alarm flashes on the Map

16.3.2.1 Configure Alarm Scheme on the Manager

Detailed steps to be followed:

Step 1. Login to DSS Manager

Step 2. Click  on the right side of the “Home” button.

All functional blocks will be displayed on the interface, as shown in Figure 16–9.

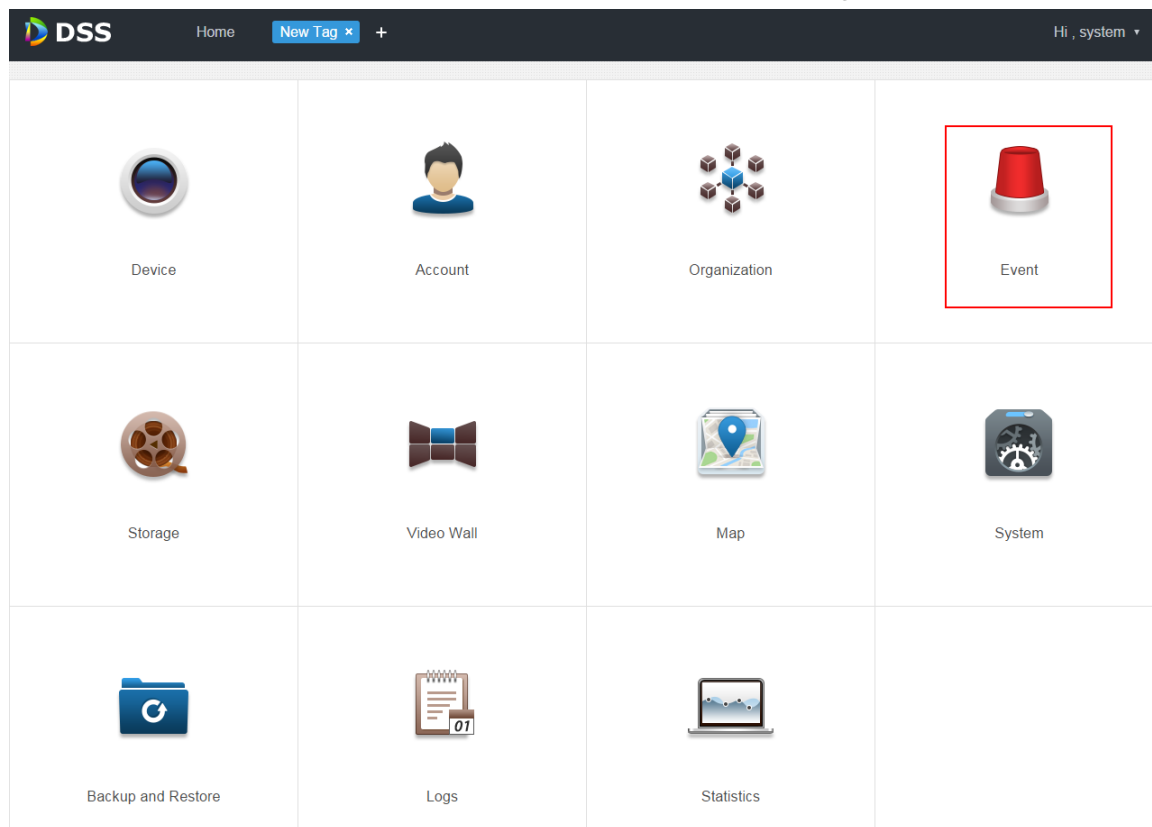


Figure 16–9

Step 3. Click “Event”.

System displays event management interface.

Step 4. Click “Add”.

A dialogue box of “Add Alarm Scheme” pops up, as in Figure 16–10.

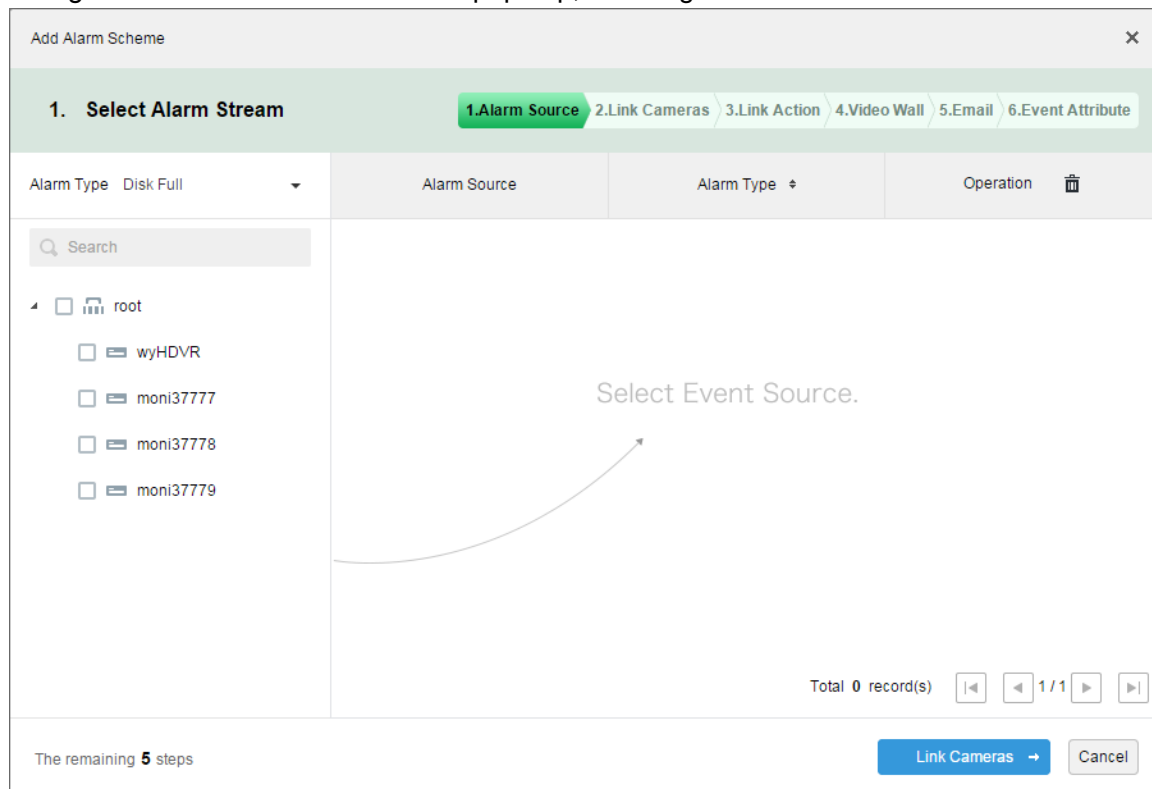


Figure 16–10

Step 5. Select alarm type from the dropdown list of “Alarm Type” on the left, and check devices in device tree below. See Figure 16–11.

 Note

Make sure to drag onto map the channel triggering alarm.

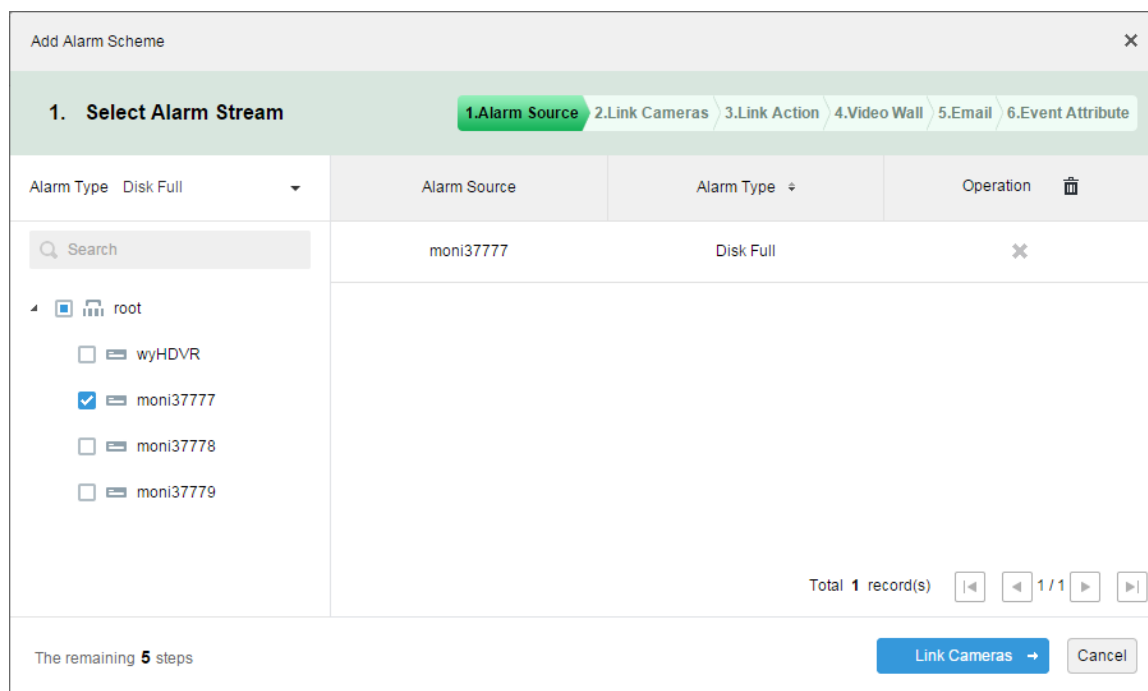


Figure 16–11

Step 6. Click “Link Cameras→”.

Steps 2 to 5 are optional. For more details.

Step 7. To step 6, system displays “Alarm Info” interface.

Step 8. Input “Name”, and choose “Time Template” and “Priority”, as in Figure 16–12.

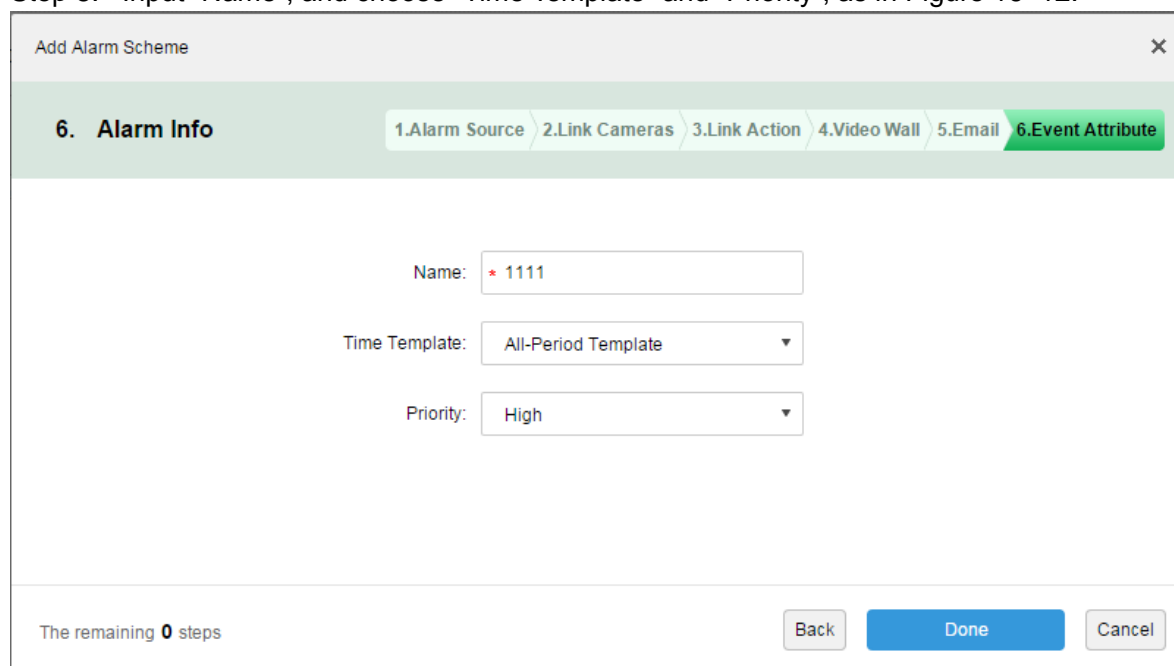



Figure 16–12

Step 9. Click “Finish”.

16.3.2.2 Activate Alarm Flash from the Client

Step 1. Login to DSS Client.

Step 2. Click  on the upper right corner to open the “Local Config” interface.

Step 3. Choose “Alarm Input” tab, check “Map Flashes When Alarm Occurred” on the right, and select “Alarm Type” that triggers flash, as in Figure 16–13.

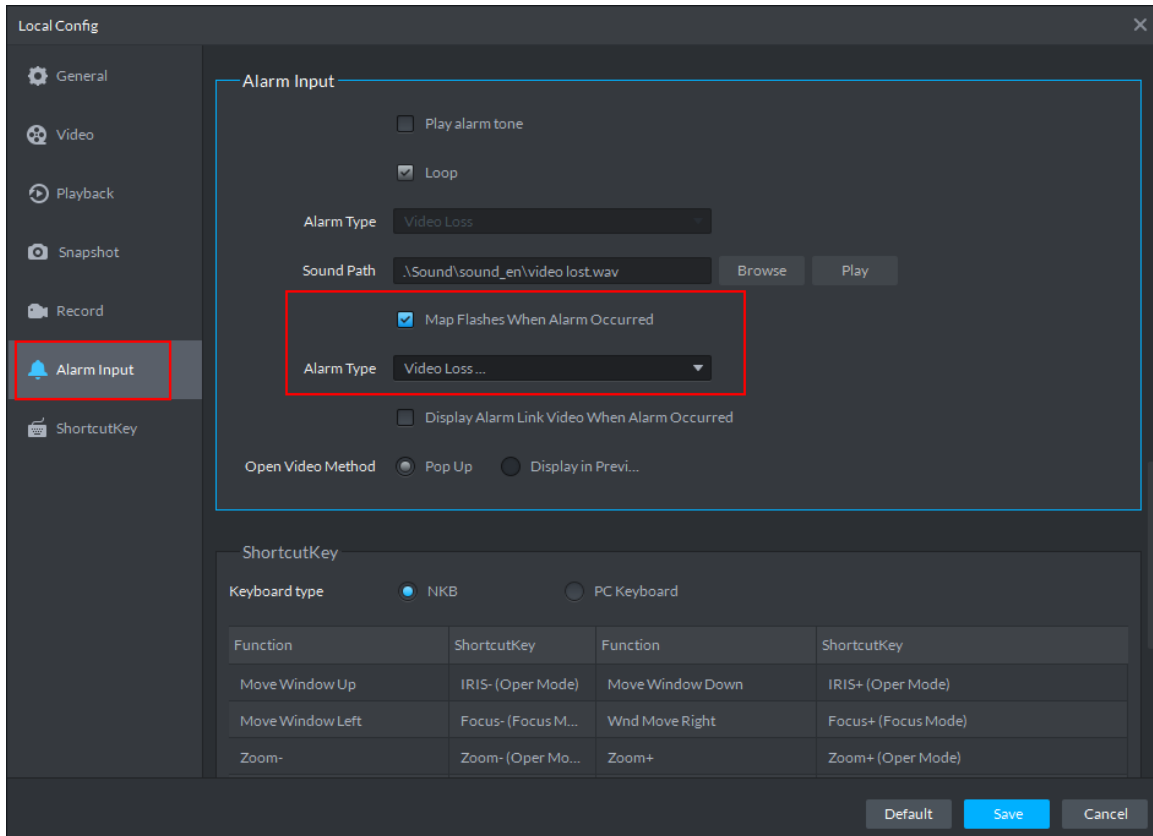



Figure 16–13

Step 4. Click “Save”.

16.3.2.3 Client Triggers Alarm

Step 1. Click  to the right of “Preview”, and choose “Map”.

System displays “Map” interface, as in Figure 16–14. You can enter Google map or raster map.

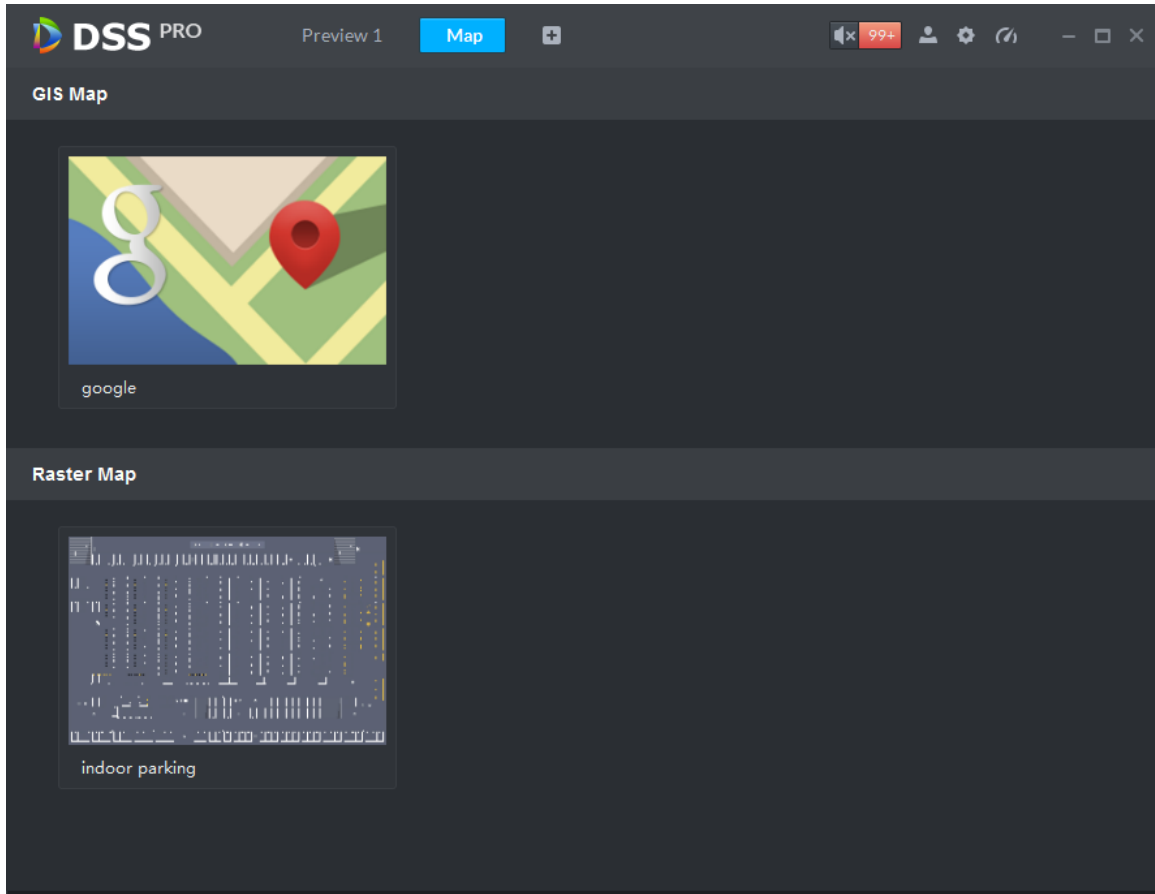


Figure 16–14

Step 2. Take raster map as example. Double click on the raster map below.

Step 3. When alarm is triggered, the alarm channel will flash on the map, as in Figure 16–15.

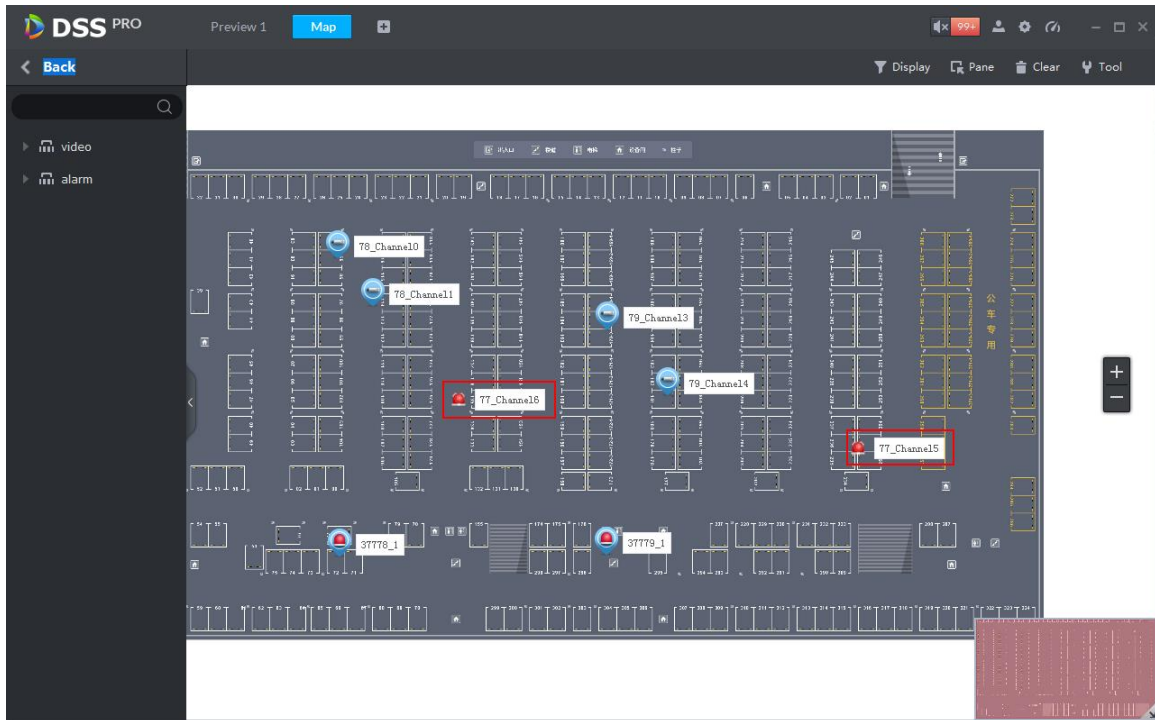


Figure 16–15

16.3.3 Channel Filtration

In the E-Map interface, click “Display” and check video device or alarm input channel, then the selected channels will be displayed on the map, as in Figure 16–16.

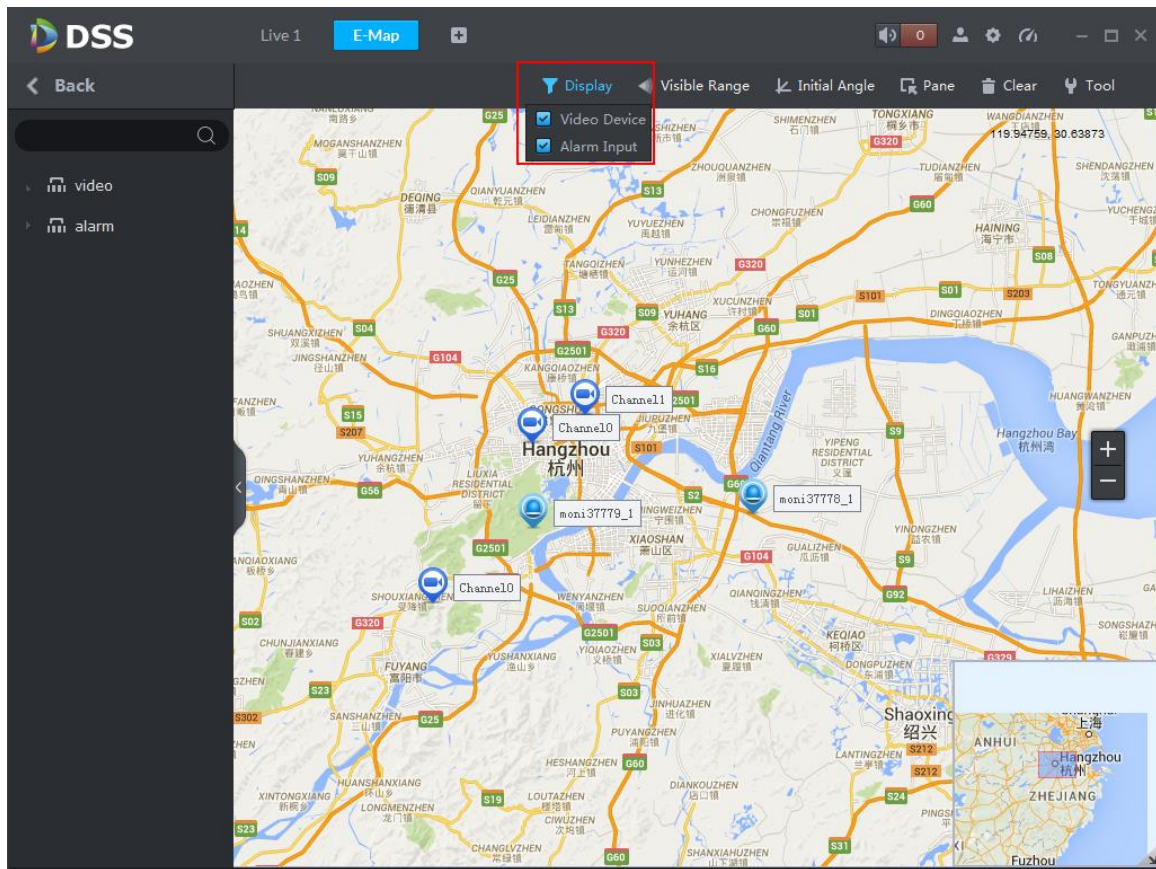


Figure 16–16

Click channel on the map to show Asset No., Name, Manufacture and Channel No., as in Figure 16–17.

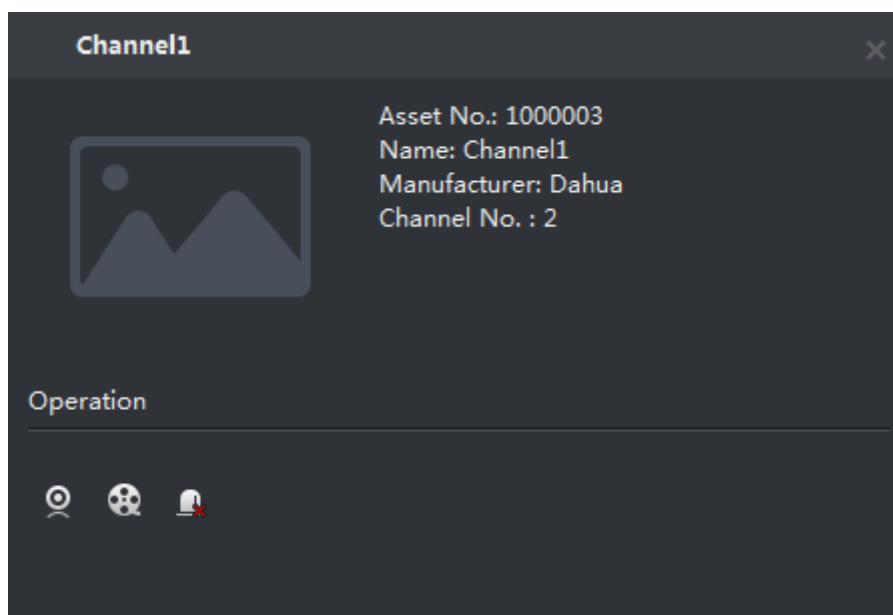





Figure 16–17

- Click  to play channel video.
- Click  to play back record.
- Click  to cancel alarm.

16.3.4 Initial Angel Adjustment

Zoom in map and click “Initial Angel” above to adjust the angel according to the actual installation position of device with visible range, as in Figure 16–18.

 Note

To use the visible range function, speed dome with visible range must be added.

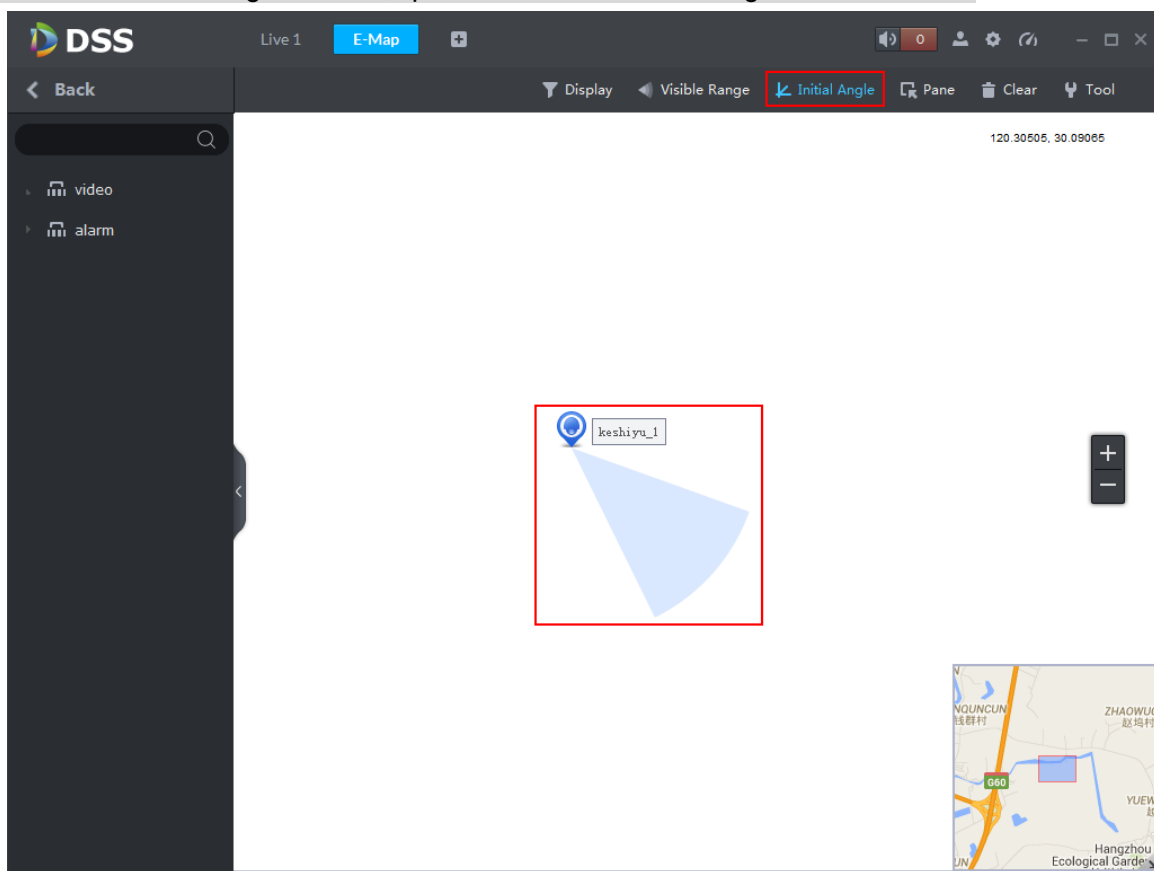


Figure 16–18

Step 1. Again click “Initial Angel” to disable the button.

Step 2. Click “Visible Range”.

You can check visible range of device with visible range on the map, as in Figure 16–19.

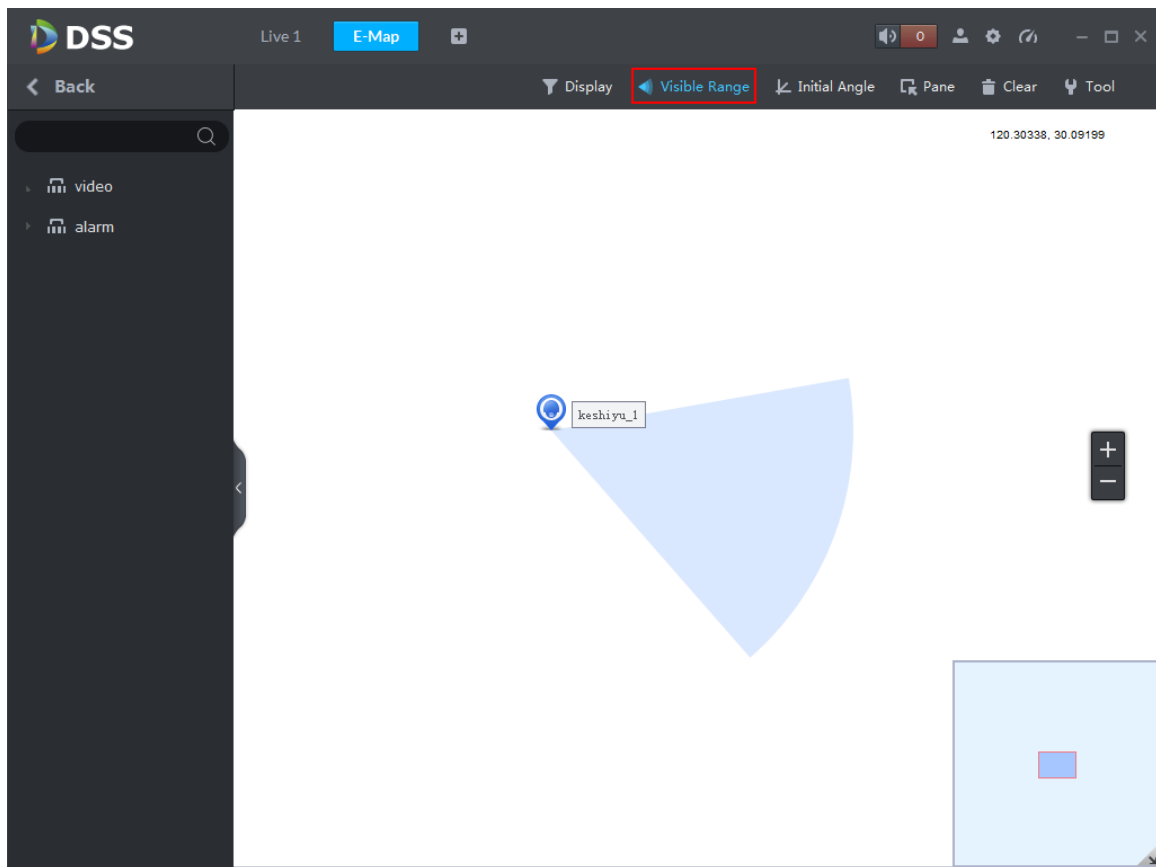



Figure 16–19

Step 3. Open live video of the device in the “Preview” interface, and click the direction key of the PTZ, visible range of corresponding device will change accordingly; for the same reason, rotate the visible range of device on the map, the live video of the device in the preview window will also change accordingly.

Step 4. Click PTZ , visible range of corresponding device on the map will also be shortened or elongated.

Step 5. Click “Visible Range” again to disable the button.

17 Record Service

System can search and play back records from the device storage or center storage, which enables you to search, play back and download records of different channels, different times and different types from the Client. If there exists record, system displays different colors in date selection region.

- Device Storage: Record to be stored in front-end SD card, or disks like DVR or NVR. Storage plan is configured on the device automatically.
- Center Storage: Record to be stored in network storage server or DSS disks. For detailed configuration, see Storage config in System Introduction. To play back the record, you need to configure the record plan first, then system will store the record in network storage server within the set time period.

17.1 Flow



17.2 Configure Storage Plan

17.2.1 Storage Config

Detailed steps to be followed:

Step 1. Login to DSS Manager

Step 2. Click **+** on the right side of the “Home” button.

All functional blocks will be displayed on the interface, as shown in Figure 17–1.

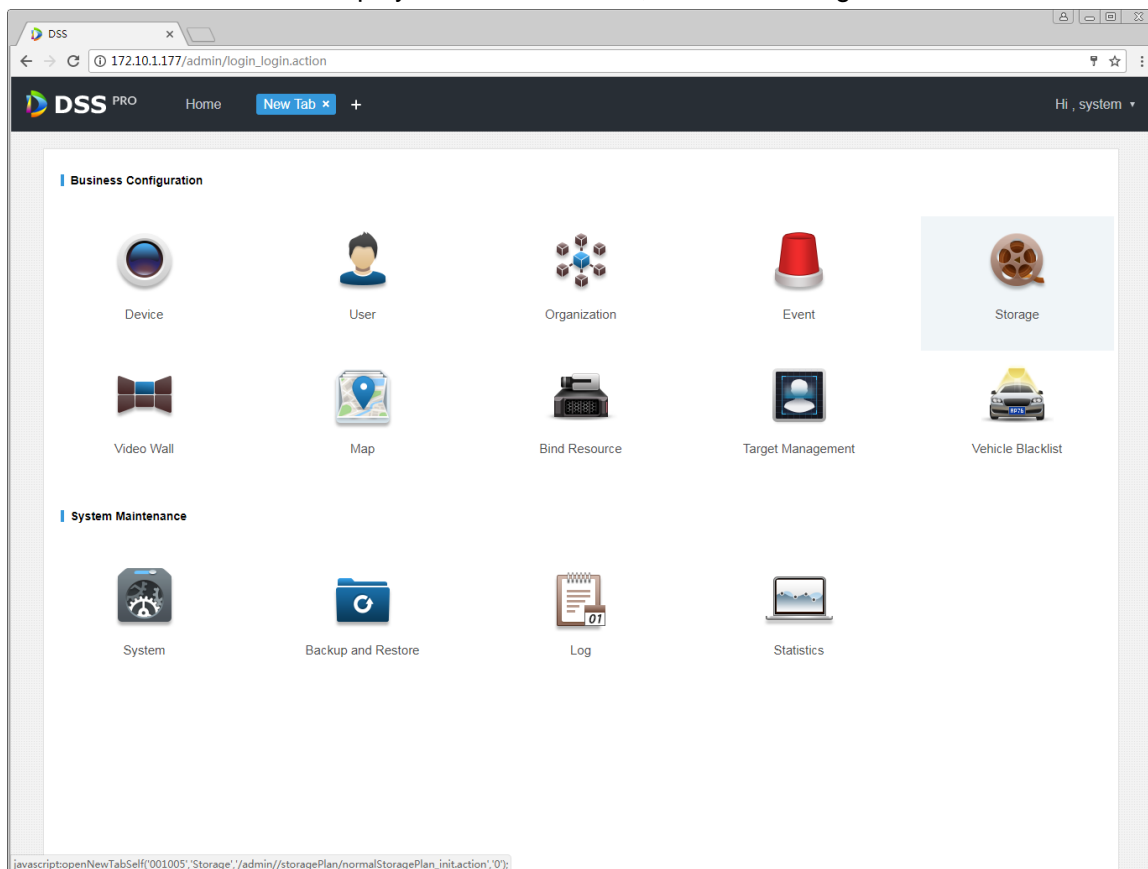


Figure 17–1

Step 3. Click “Storage Config” tab.

Disk list is empty before you add net disk for the first time, as in Figure 17–2.

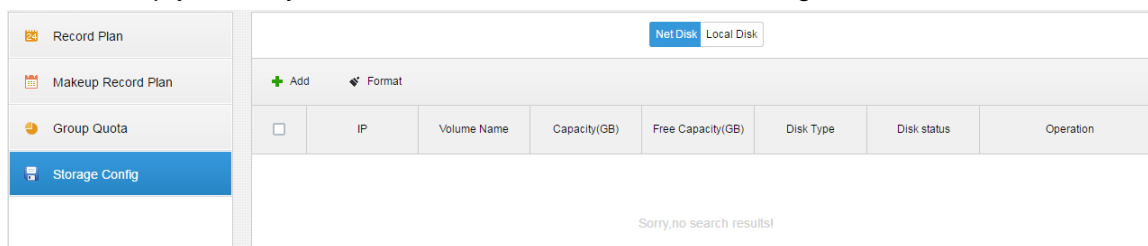


Figure 17–2

Step 4. Click **+ Add**, input IP address, and click **OK** to add net disk, as in Figure 17–3.

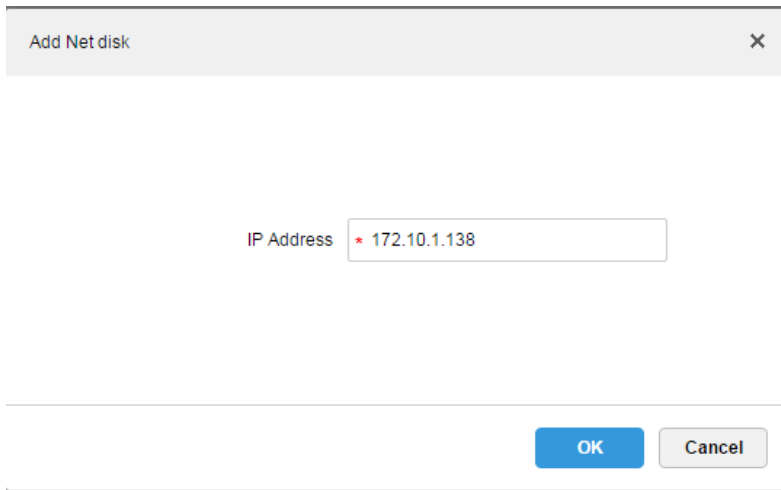
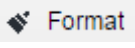



Figure 17-3

Step 5. Check disk list and format.

As in Figure 17-4, check disk info, and click  **Format** to format selected disk, or click  to the right of the disk, to format the disk.

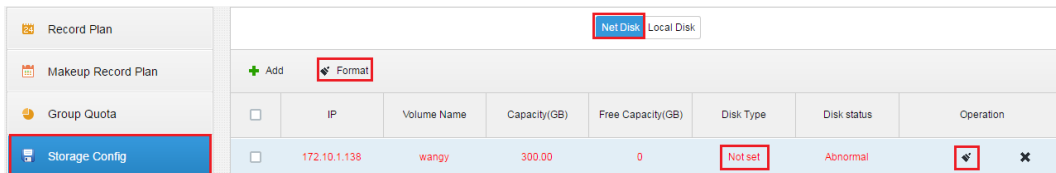




Figure 17-4

Step 6. Select Disk Type, as in Figure 17-5, and click  to perform formatting operation.

 **Note**

Current version only supports video format.

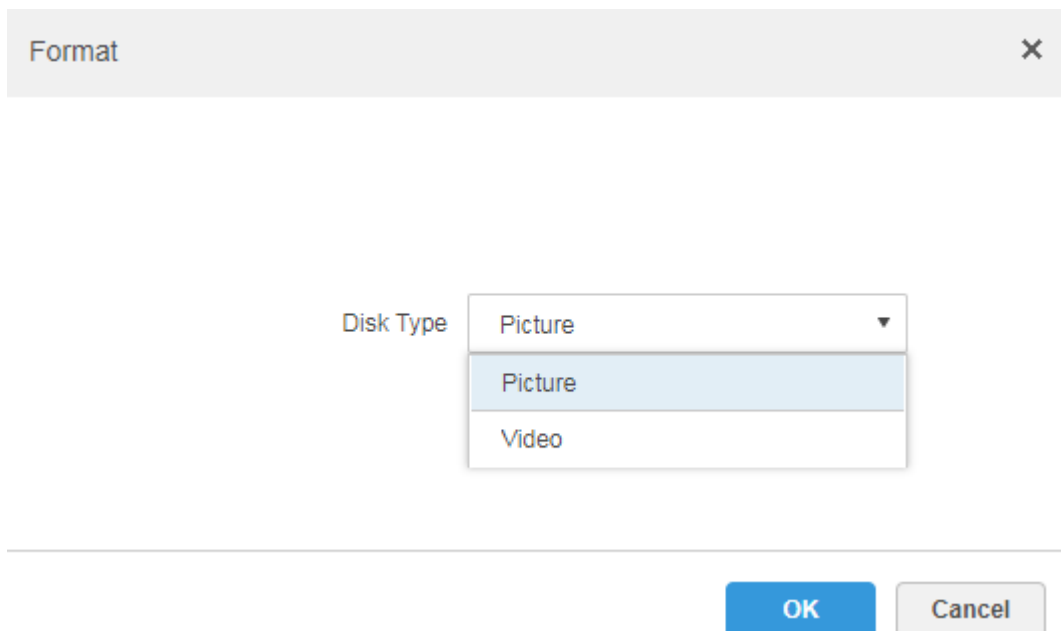


Figure 17-5

Step 7. Confirm Formatting.

In a warning box as in Figure 17–6, click  to confirm formatting.

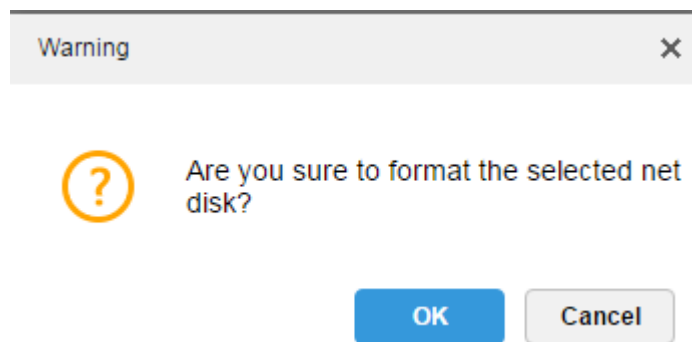


Figure 17–6

Step 8. Check disk formatting result.

Disk status is Normal, and Disk type is Video, with correct capacity and free capacity, as in Figure 17–7.

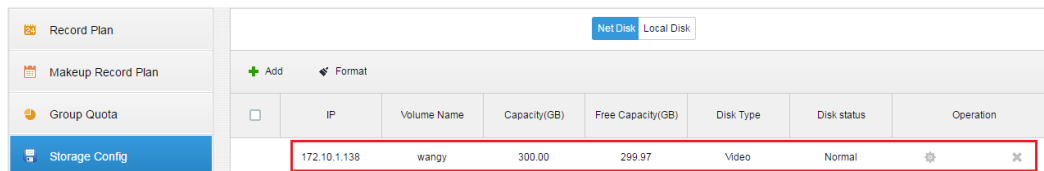


Figure 17–7

17.2.2 Record Plan Setup

Detailed steps to be followed:

Step 1. Click “Record Plan”, and then click , to add record plan, as in Figure 17–8.

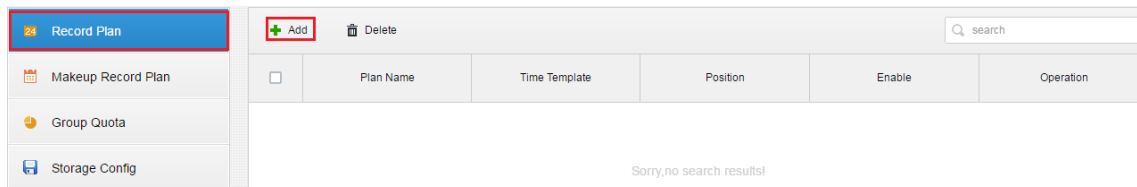



Figure 17–8

Step 2. Check video channels to be stored, input “Plan Name”, “Record Stream”, select “Time Template” and “Position”, as in Figure 17–9, and click  to create plan.

The Available Video Channels

Record Plan Setup

Plan Name: * wytest

Record Stream: Main Stream

Time Template: All-Period Template

Position: Store on Server

Remark: 0413

Enable

OK Cancel

Figure 17–9



Note

Record stream includes main stream, sub stream and third stream.

Time template can be chosen from default templates, or templates created by user.

Position can be server or encoder.

Step 3. Check record plan status, as in Figure 17–10.

	Plan Name	Time Template	Position	Enable	Operation
<input type="checkbox"/>	wytest	All-Period Template	Store on Server	Start	<input checked="" type="checkbox"/> ON ✎ ✕

Figure 17–10

17.2.3 Enable/disable Record Plan

Click ON, to the right of the record plan, to enable or disable the record plan, as in Figure 17–11.

	Plan Name	Time Template	Position	Enable	Operation
<input type="checkbox"/>	wytest	All-Period Template	Store on Server	Start	<input checked="" type="checkbox"/> ON ✎ ✕

Figure 17–11

17.2.4 Modify Record Plan

Click ✎, to the right of record plan, to modify the record plan. The interface to modify plan is the same as the interface to add plan.

This is shown in Figure 17–12.




+ Add		Delete		Q search	
<input type="checkbox"/>	Plan Name	Time Template	Position	Enable	Operation
<input type="checkbox"/>	wytest	All-Period Template	Store on Server	Start	ON  

Figure 17–12

17.2.5 Delete Record Plan

Step 1. Click  , to the right of record plan, to delete the record plan, as in Figure 17–13.


+ Add		Delete		Q search	
<input type="checkbox"/>	Plan Name	Time Template	Position	Enable	Operation
<input type="checkbox"/>	wytest	All-Period Template	Store on Server	Start	ON  

Figure 17–13

Step 2. Confirm whether to delete the record plan in warning box as Figure 17–14 To delete,

click .

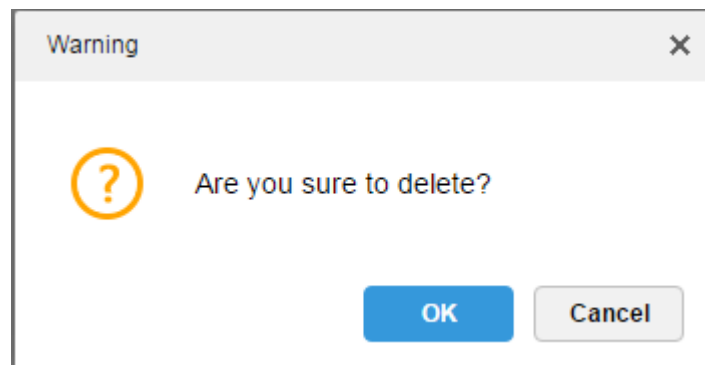


Figure 17–14

17.2.6 Add Time Template

Step 1. When adding record plan, select “New Time Template” from the dropdown list of Time Template, as in Figure 17–15.

Record Plan Setup

Plan Name: *

Record Stream: Main Stream

Time Template: All-Period Template

Position: All-Period Template

Business Day Template

Weekend Template

Remark: + New Time template

Enable

Figure 17–15

Step 2. In the dialogue box of “New Time Template”, input “Template Name”, and then draw time period with mouse directly, as in Figure 17–16.

Add Record Plan

Template Name: * friday Copy:

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Mon

Tue

Wed

Thu

Fri

Sat

Sun

OK Cancel

Figure 17–16

Step 3. To draw time periods of multiple days, click check buttons in Figure 17–17.

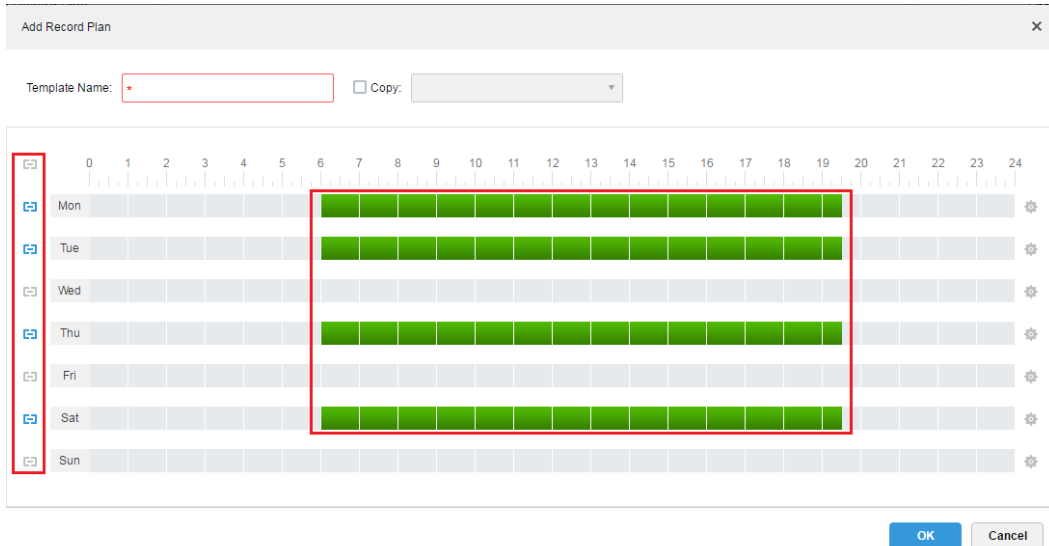



Figure 17-17

Step 4. Click , then set specific periods in the pop-up of “Period Setup”, as in Figure 17-18.

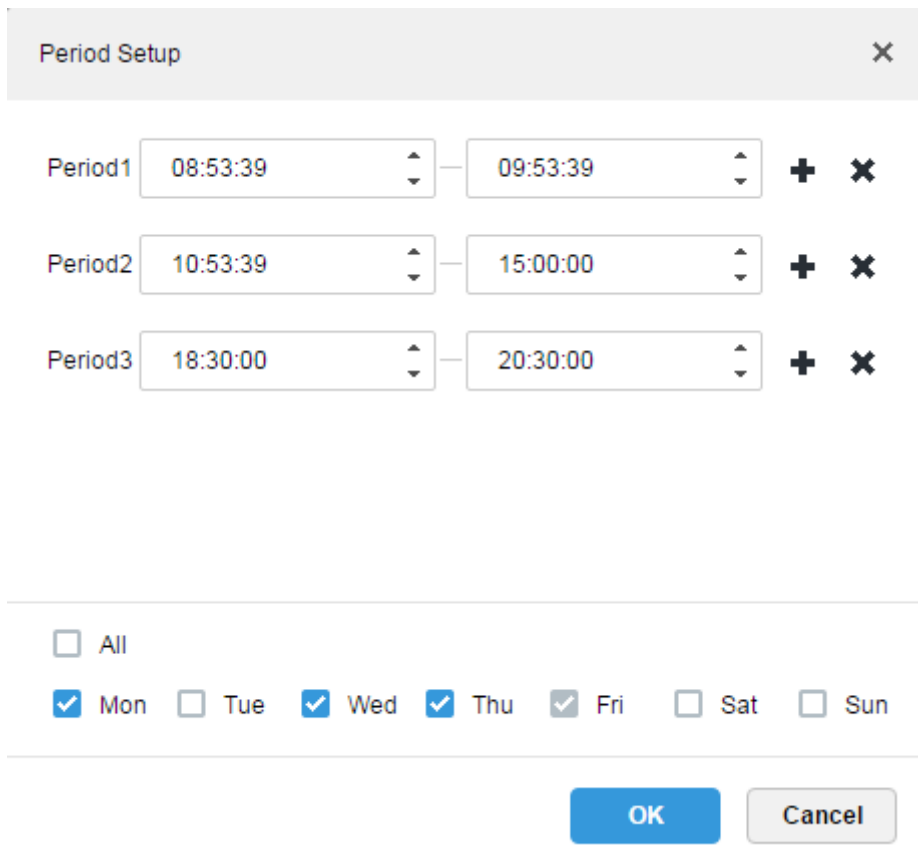


Figure 17-18

Step 5. Set time and click , to see result in the following image.

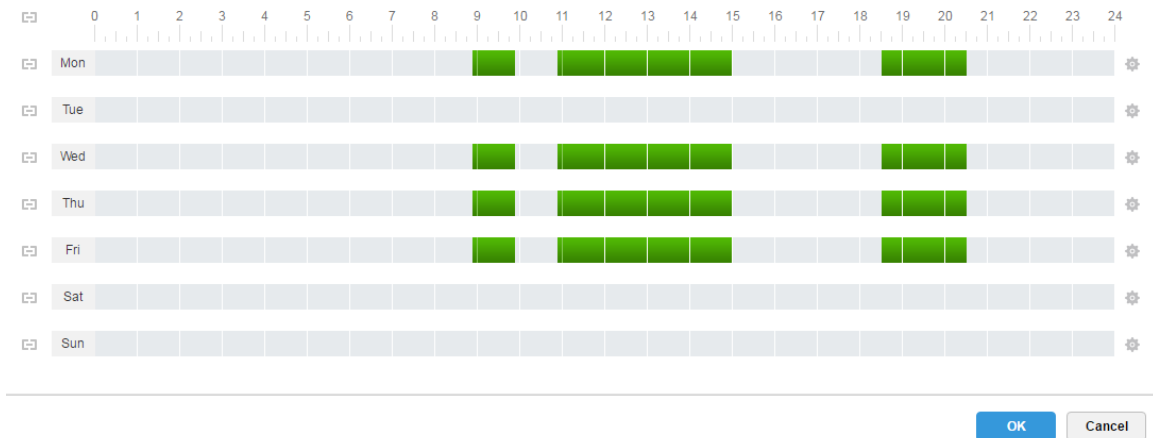


Figure 17-19

Step 6. You can select the newly created time template in the dropdown list of the time template when adding plan, as in Figure 17-20.

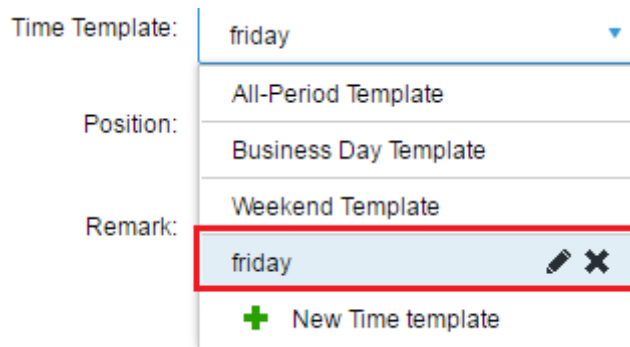


Figure 17-20

Note

No editing or deleting is allowed to the default time template of the system.

17.2.7 Add Backup Record Plan

System supports record makeup to the device record of the previous day, and a cross-day execution time of the makeup record plan is allowed, with makeup record condition of the time, or WIFI.

Note

“Condition” could be time, or WIFI. For time condition, record makeup will be initiated automatically by following the set time; for WIFI condition, record makeup will be initiated automatically when device connects to the WIFI.

17.2.7.1 Condition Being Time

Detailed steps to be followed:

Step 1. Click “Makeup Record Plan” tab, as in Figure 17-21.

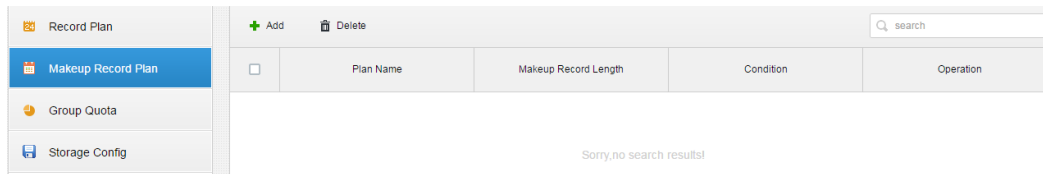


Figure 17–21

Step 2. Click **+ Add**, to add makeup record plan.

A dialogue box of “Add Makeup Record Plan” pops up, as in Figure 17–22.

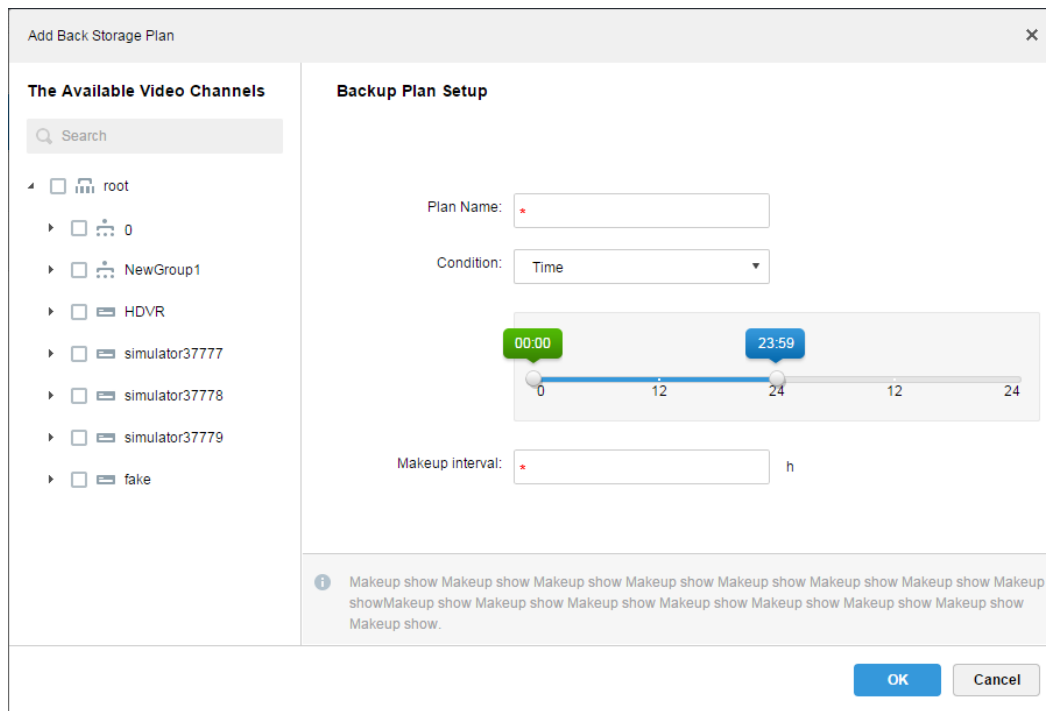


Figure 17–22

Step 3. Select video channel required for makeup record plan on the left, input “Plan Name”, and select **Time** from the dropdown list of the Condition, thus time is selected as the makeup record condition. See Figure 17–23.

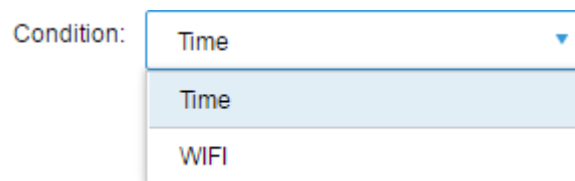


Figure 17–23

Step 4. In the interface as Figure 17–24, drag timeline to set time period of makeup record plan. For example, set start time being 17:47 of the first day while end time being 08:30 of the second morning.

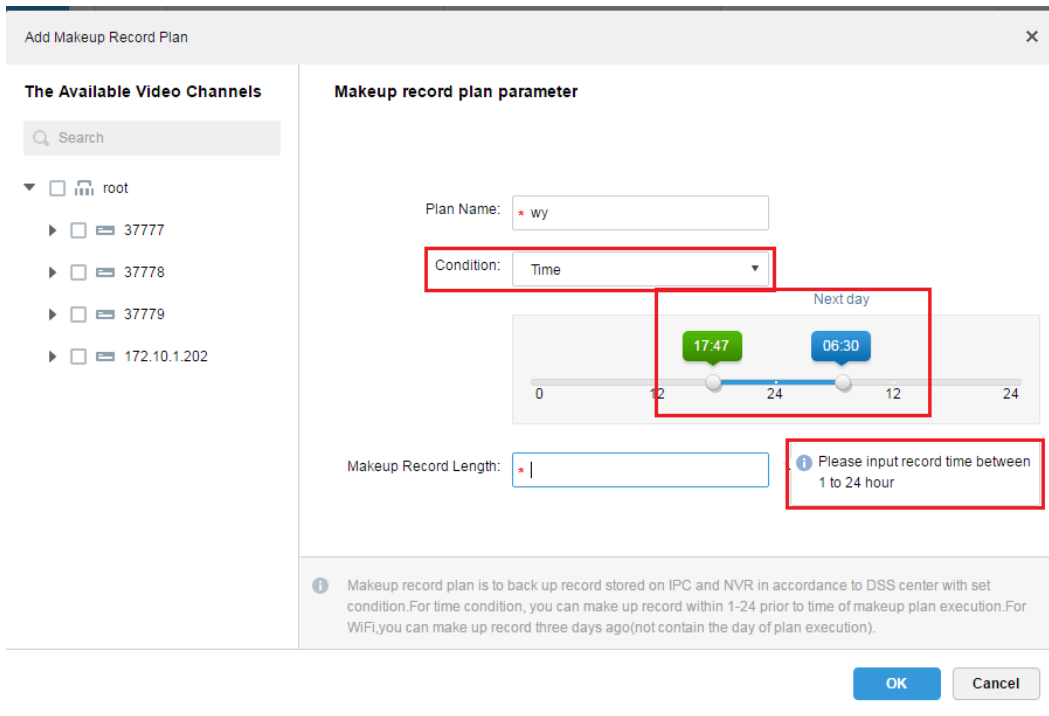


Figure 17–24

Step 5. Set makeup record length within the range of 1 to 24 hour.

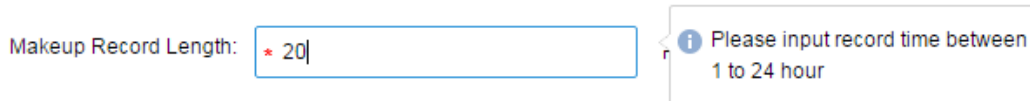


Figure 17–25

Step 6. Click **OK**, to save the plan.

17.2.7.2 Condition Being WIFI

Detailed steps to be followed:

Step 1. Click “Makeup Record Plan” tab, as in Figure 17–26.

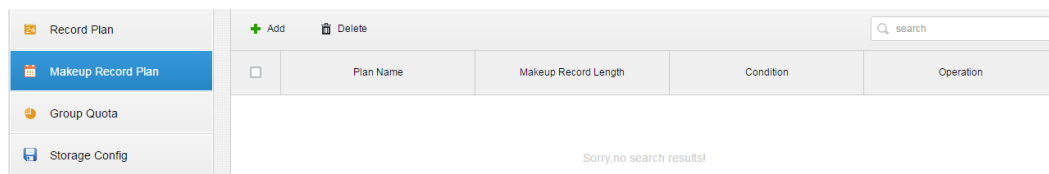


Figure 17–26

Step 2. Click **+ Add**, to add makeup record plan.

A dialogue box of “Add Makeup Record Plan” pops up, as in Figure 17–27.

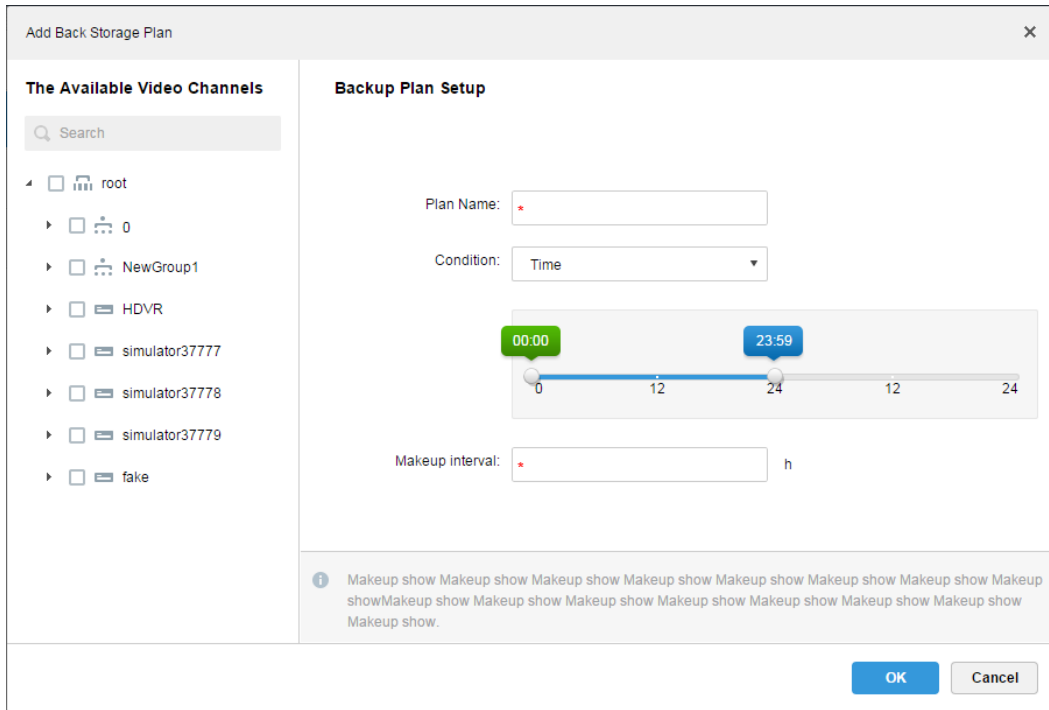


Figure 17–27

Step 3. Select video channel required for makeup record plan on the left, input “Plan Name”, and select **WIFI**, from the dropdown list of the Condition, thus WIFI is selected as the makeup record condition, as in Figure 17–28.

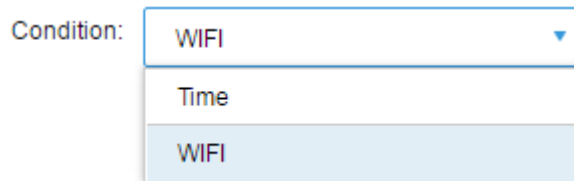


Figure 17–28

Step 4. Click **OK**, to save the plan, as in Figure 17–29.

When the device needing makeup record switches to WIFI, makeup record will be automatically initiated.

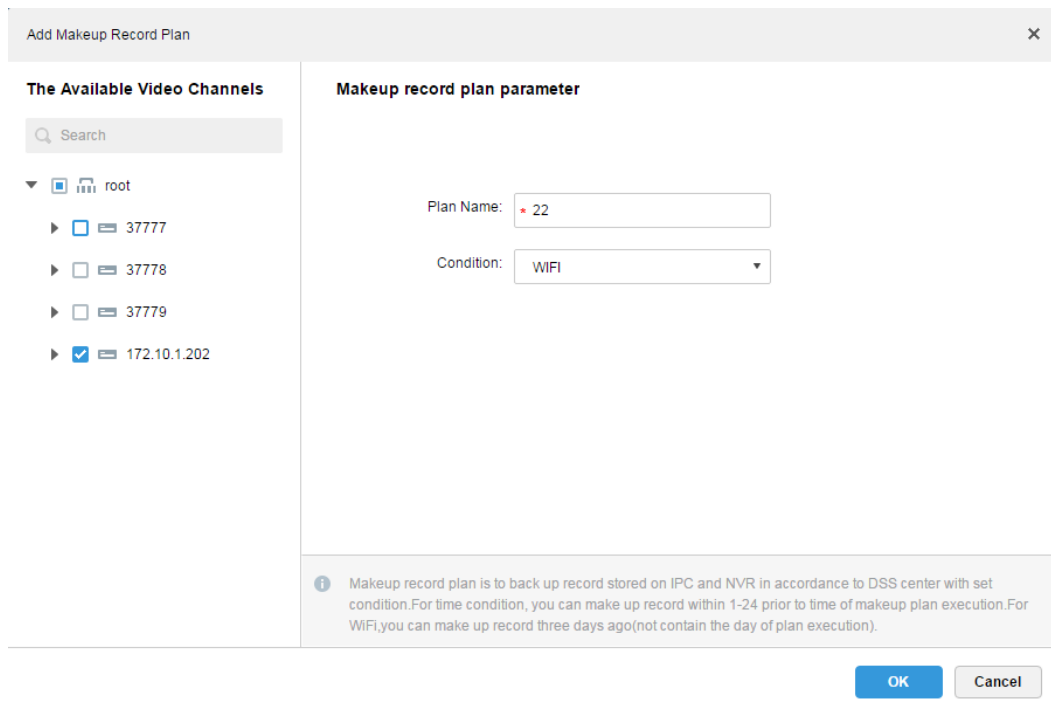


Figure 17–29

17.2.8 Group Quota

17.2.8.1 Function introduction

In single server units, group the disks and assign the storage path of video channels to specific disk groups. The grouping and assigning method helps to achieve targeted storage, as well as time storage via the ratio of disk capacity to channels.

17.2.8.2 Configuration Steps

Detailed steps to be followed:

Step 1. Click “Group Quota” tab.

System shows the online the status of the server, as in Figure 17–30.

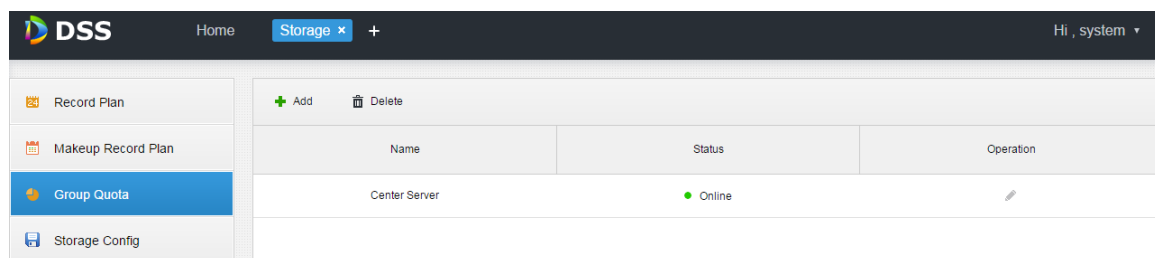


Figure 17–30

Step 2. Click to the right of the “Online” server.

A dialogue box of “Edit ISCSI” pops up, as in Figure 17–31.

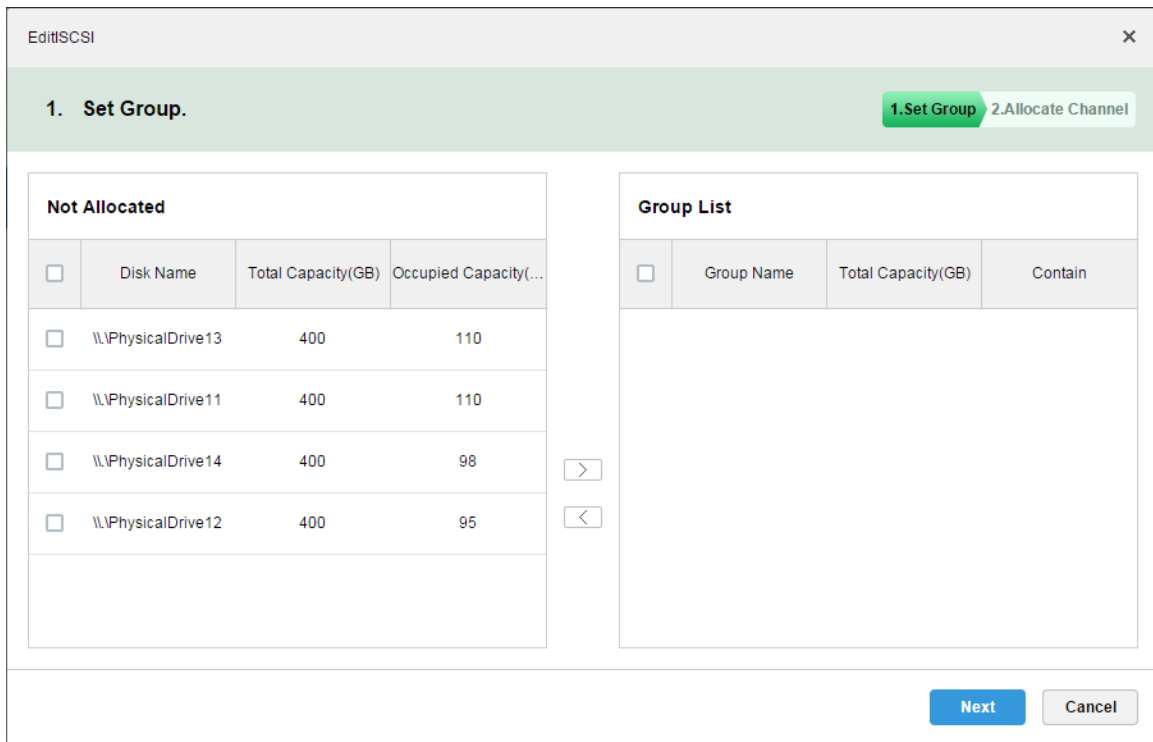


Figure 17–31

- Step 3. Select the unallocated disks on the left, and click > , to add them to the group list on the right.
- Step 4. Click “Next” to allocate channels for disk group.
- Step 5. Select channels from device list on the left, and click > , to add them to the disk group on the right.
- This is shown in Figure 17–32.

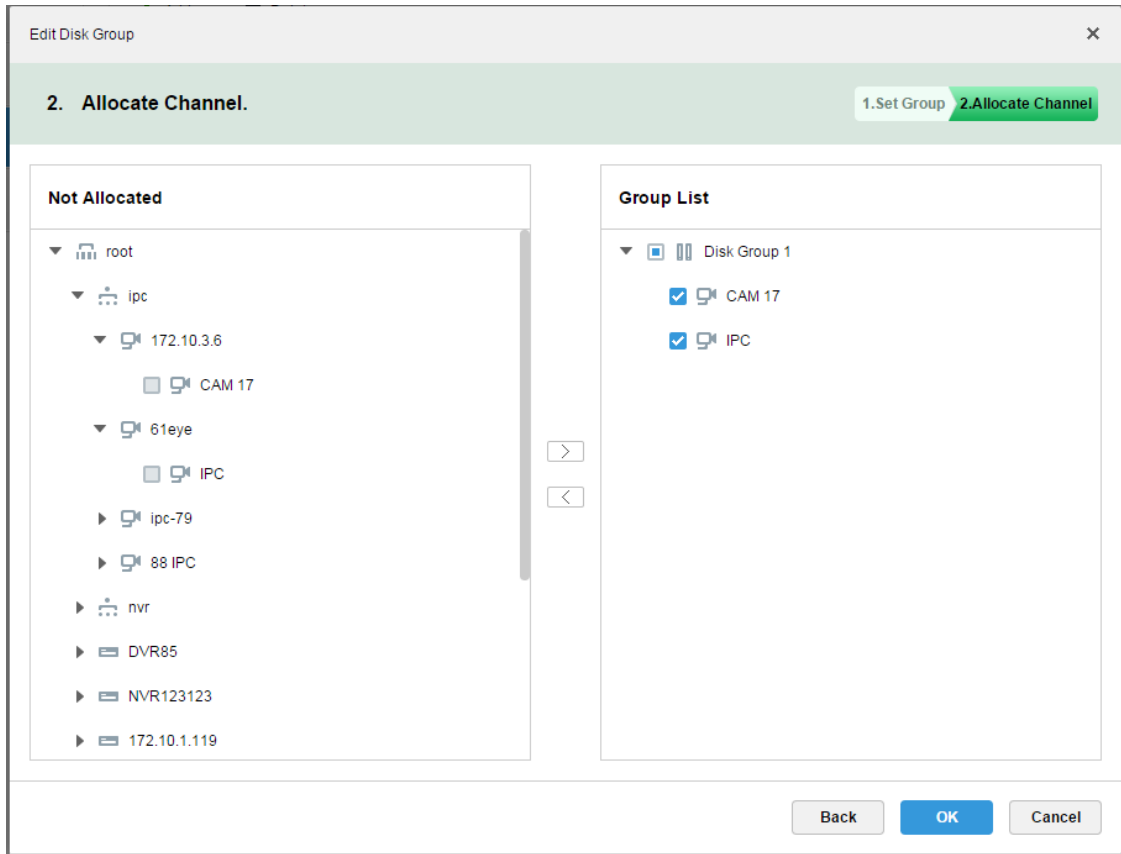


Figure 17–32

Step 6. Click “Finish”.

17.2.9 Preview Remote Record

Open video in the preview window of the Client, then you can start center record of the channel from the right-click menu, provided that the center storage disk has been configured and the channel is not configured with a central storage plan.

Detailed steps to be followed:

- Step 1. Login to DSS Client.
- Step 2. Open video in the live preview window.
- Step 3. Right click in the window, and select “Start Remote Record”, as in Figure 17–33.

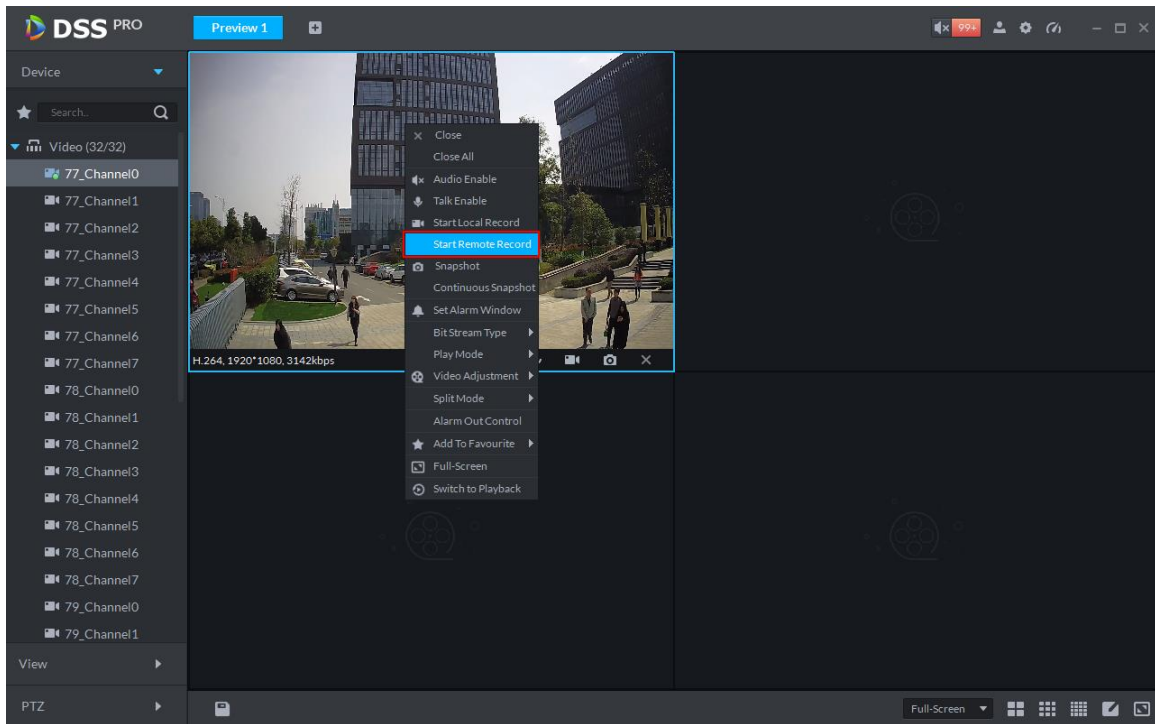


Figure 17–33

Step 4. Stop Remote Record.

Close video in the preview window, or right click “Stop Remote Record”.

17.3 Record Search

17.3.1 Procedures

17.3.2 Select Search Time

Detailed steps to be followed:

Step 1. Login to DSS Client.

Step 2. Click , to the right of “Preview”, and select “Record Playback”.

System displays “Record Playback” interface.

Step 3. Check channel to be searched, click , and select search time, as in Figure 17–34.

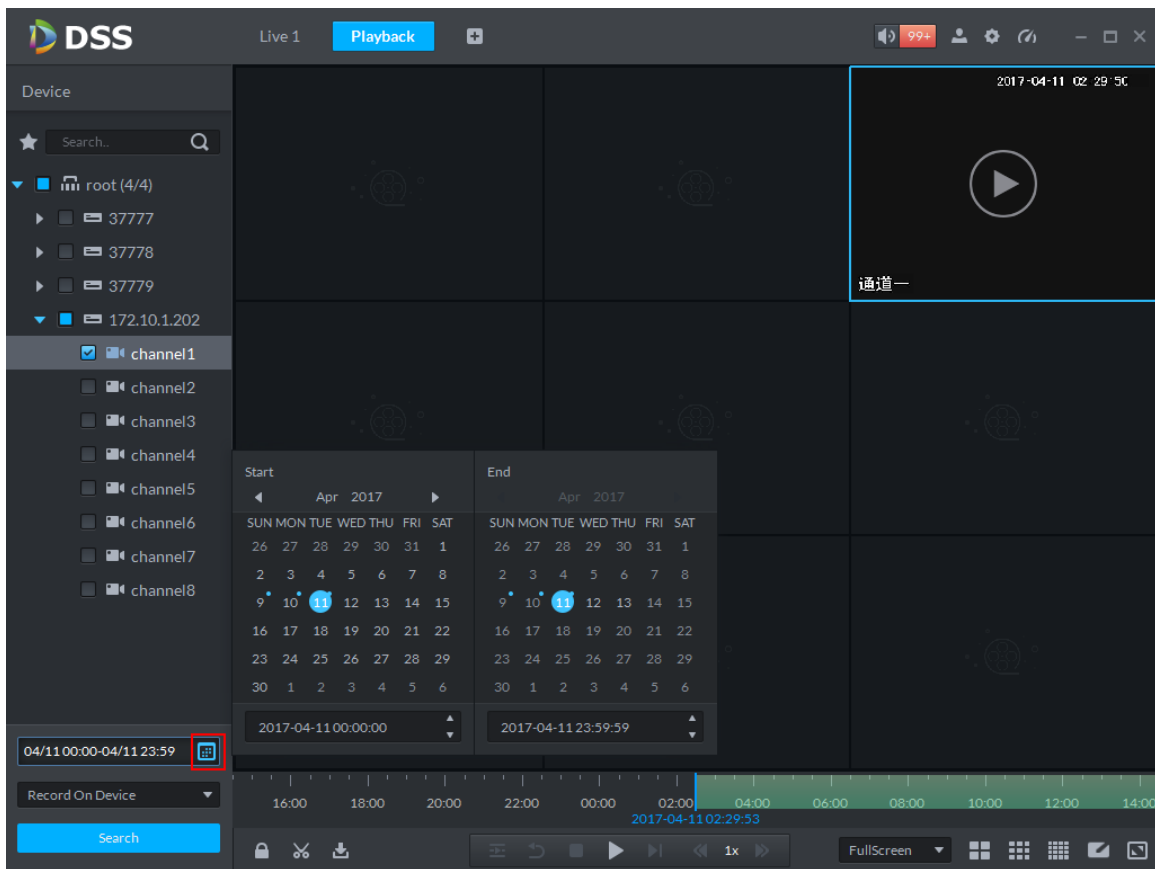


Figure 17–34

Blue point on the upper right corner of a date represents existing record on the date.

Step 4. Select dates with existing records, and click “Search”.

Green color appears on the time progress bar of the corresponding channel. If no record exists, system prompts “No Record”.

Step 5. Double click any point of the green bar, to play back record, as in Figure 17–35.

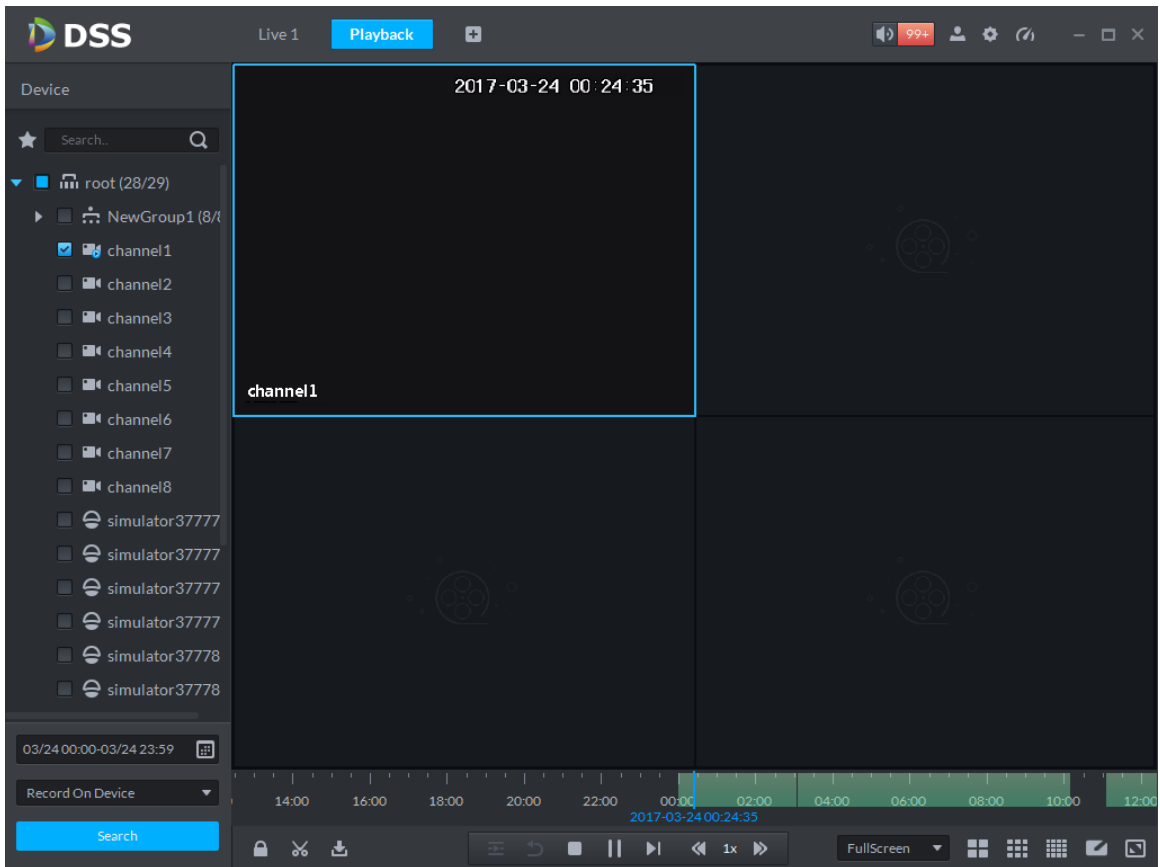


Figure 17–35

Step 6. Right click playback window and select “Playback on Wall”.

A “Choose Window” dialogue box pops up, then record on wall will be initiated after being decoded by selected decoder.

 **Note**

Currently, three types of decoder, namely, M60, M70 and NVD are supported by playback on wall. This is shown in Figure 17–36.

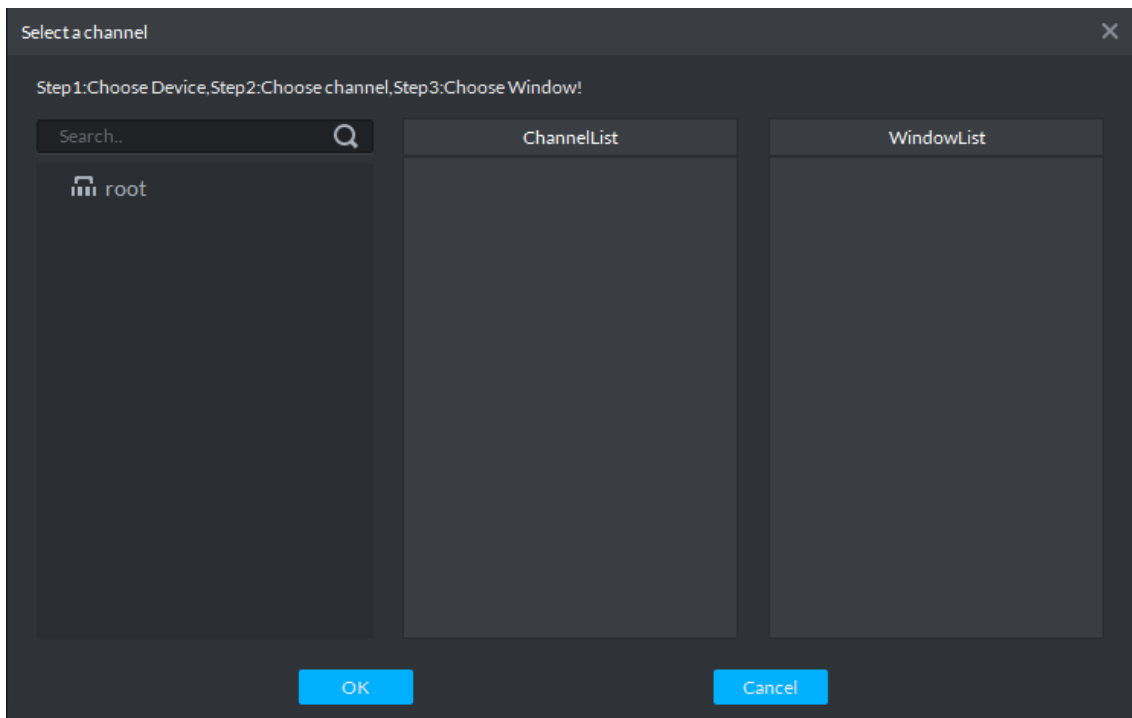


Figure 17–36

17.3.3 Select Storage Path

Record can be searched by storage path, for example, you can select “Records Stored on Server” or “Records Stored in Video Recorder”.

This is shown in Figure 17–37.

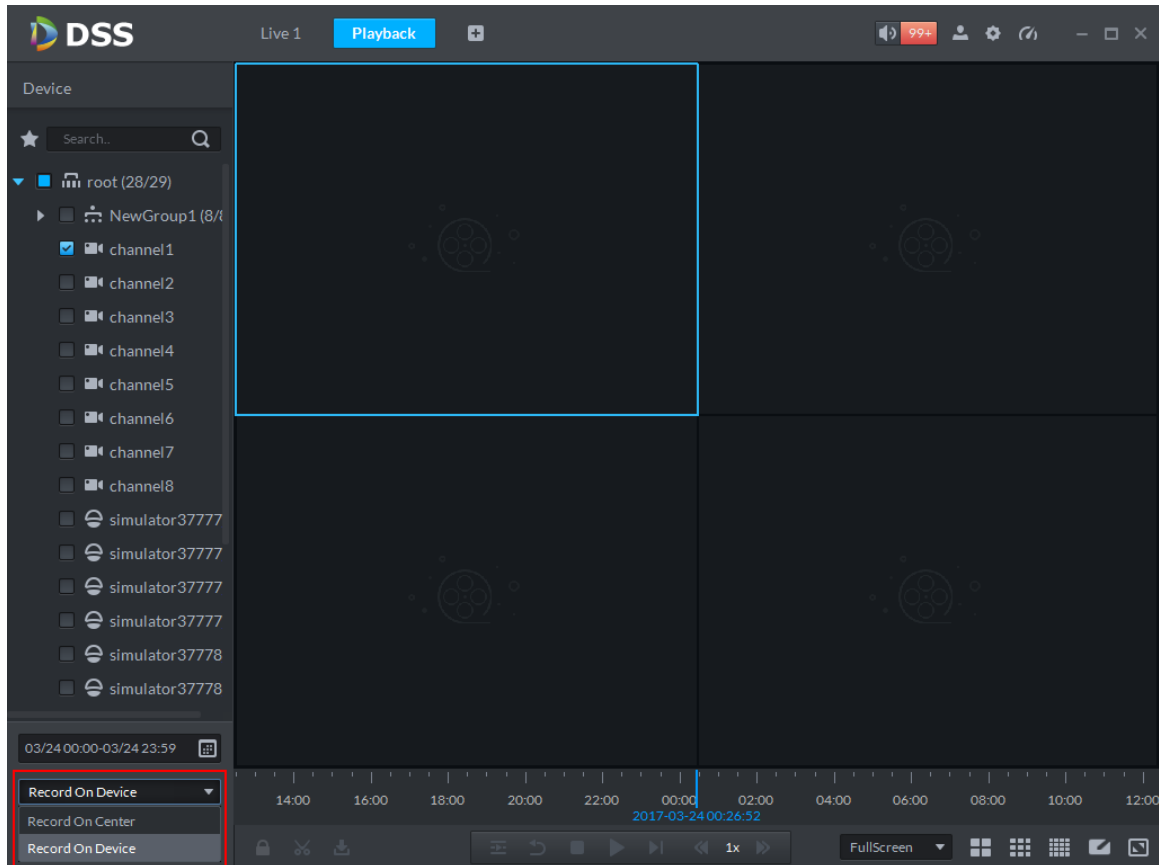


Figure 17–37

17.4 Video playback

17.4.1 Video filter

In “Record Playback” interface, right click time progress bar below, as in



“Record Filter” box pops up.

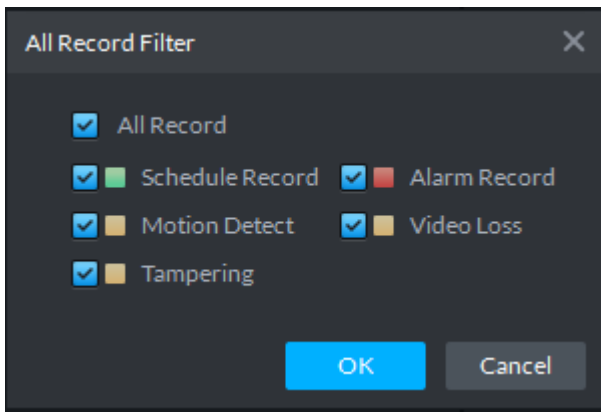


Figure 17–38

Record types include: Schedule Record, Alarm Record, Motion Detect, Video Loss and Tampering.

Choose record types and click “OK”.

17.4.2 Record Control

For buttons at the bottom of record playback interface and the description, see Chart 17–1.

Icon	Note
	to lock record
	to cut record
	to download record
	Synchronization of different playback windows
	Backwards
	Stop/pause playback
	Single frame playback
	Fast/slow playback
	During playback, you can drag time progress bar to play back record at the specific time

Chart 17–1 Playback Buttons Description

17.4.3 Lock Record

Note

You can only lock center records stored on the server and the part recorded half an hour ago.

Step 1. Click at the bottom of the “Record Playback” interface, as in Figure 17–39.

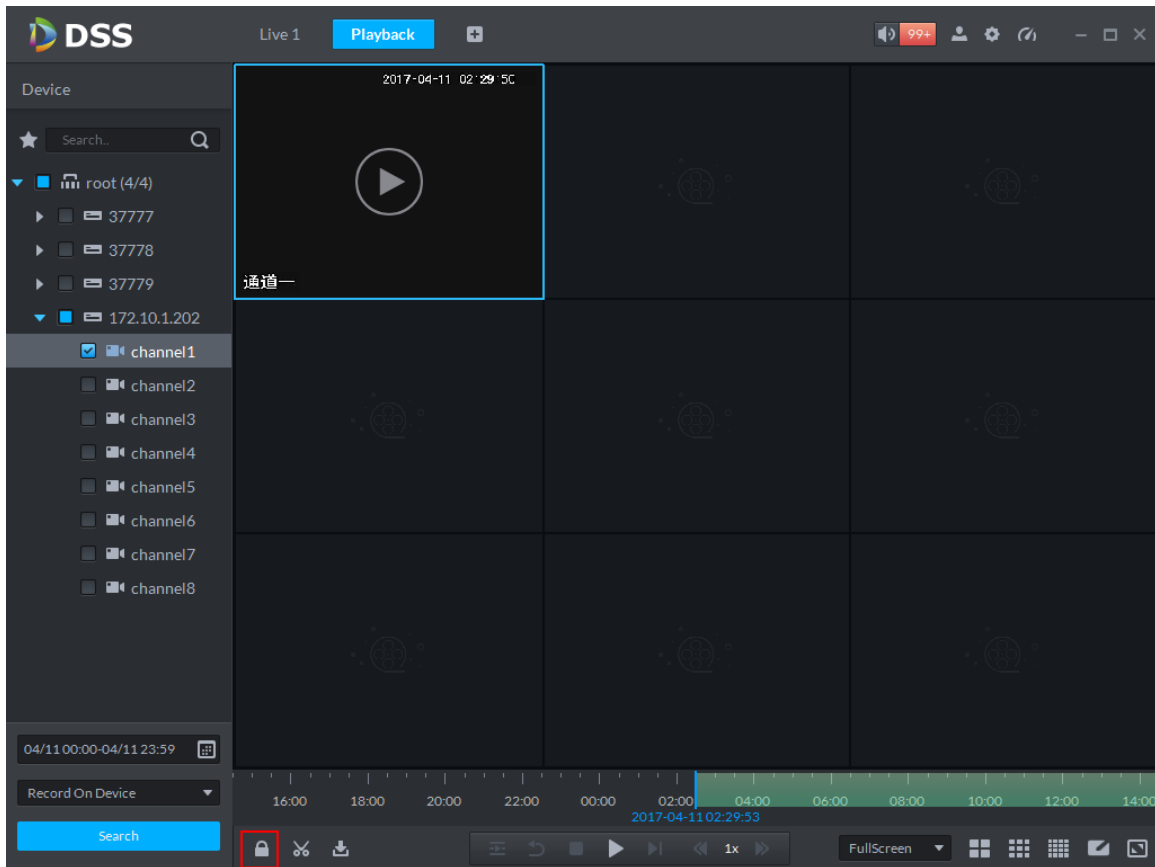



Figure 17–39

Step 2. Click the time progress bar to select lock start time, then drag mouse as in , and click to select end time. A “Save Lock Record” box pops up, as in Figure 17–40.

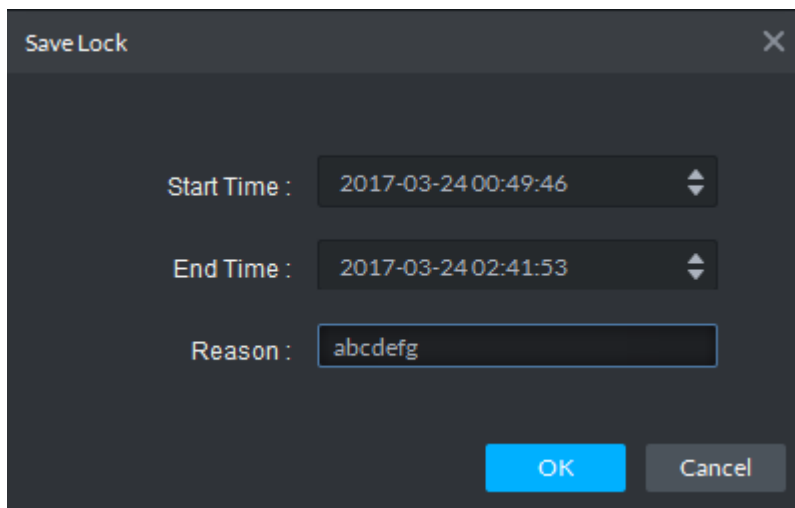



Figure 17–40

Step 3. Input “Reason” and click “OK”.

17.4.4 Add Mark

You can mark records that interest you by “Add Mark” in order for a subsequent search and location.

Steps to add record:

Step 1. Click  at the bottom of “Record Playback” interface.

“Add Mark” box pops up, as in Figure 17–41.

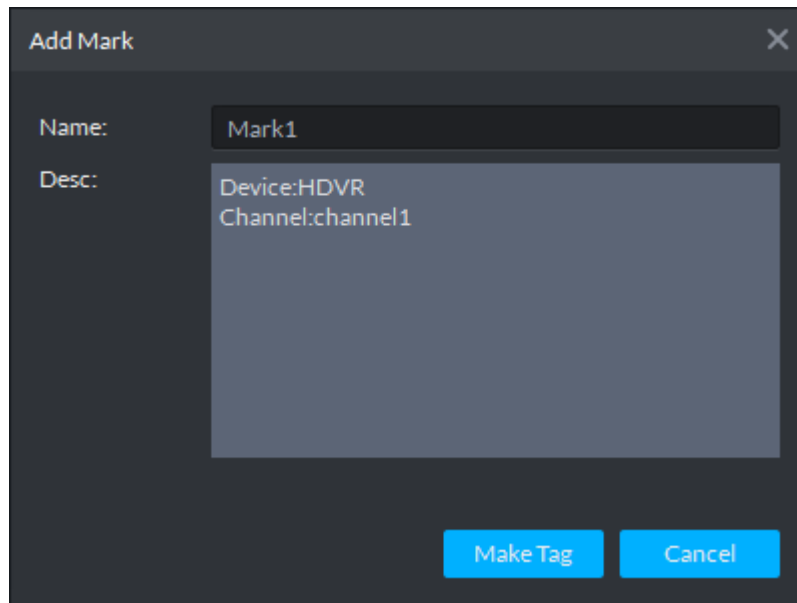


Figure 17–41

Step 2. Input “Name” and “Desc”, then click “Make Tag”.
System prompts “Tag Creation Successful”.


17.5 Download Record

17.5.1 Record Search

Specific steps are same as those in “17.3 Record Search”.

17.5.2 Cut Record

Click , at the bottom of record playback interface, then on the green progress bar, as in **错误!**

未找到引用源。, click to start cutting, and drag mouse as in , then click to end cutting. “Save Download” box pops up, as in Figure 17–43.

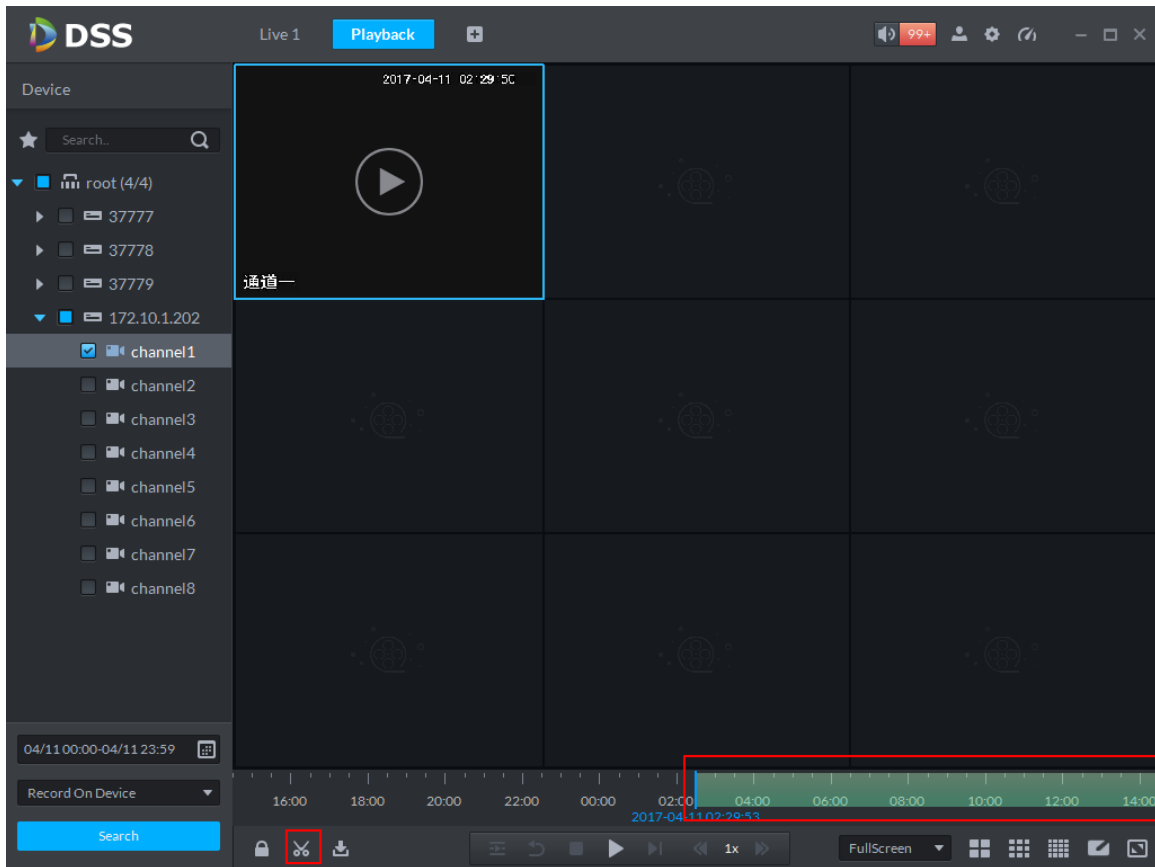


Figure 17-42

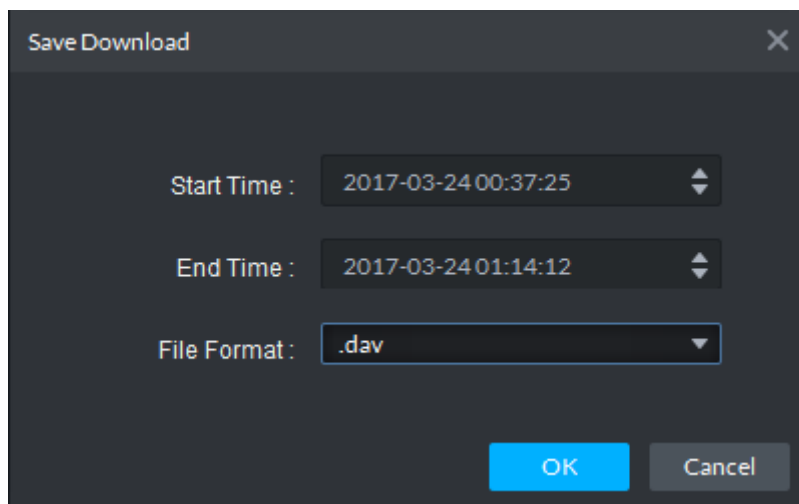



Figure 17-43

17.5.3 Timeline

Step 1. Click  at the bottom of “Record Playback” interface.

System shows record download interface, as in Figure 17-44.

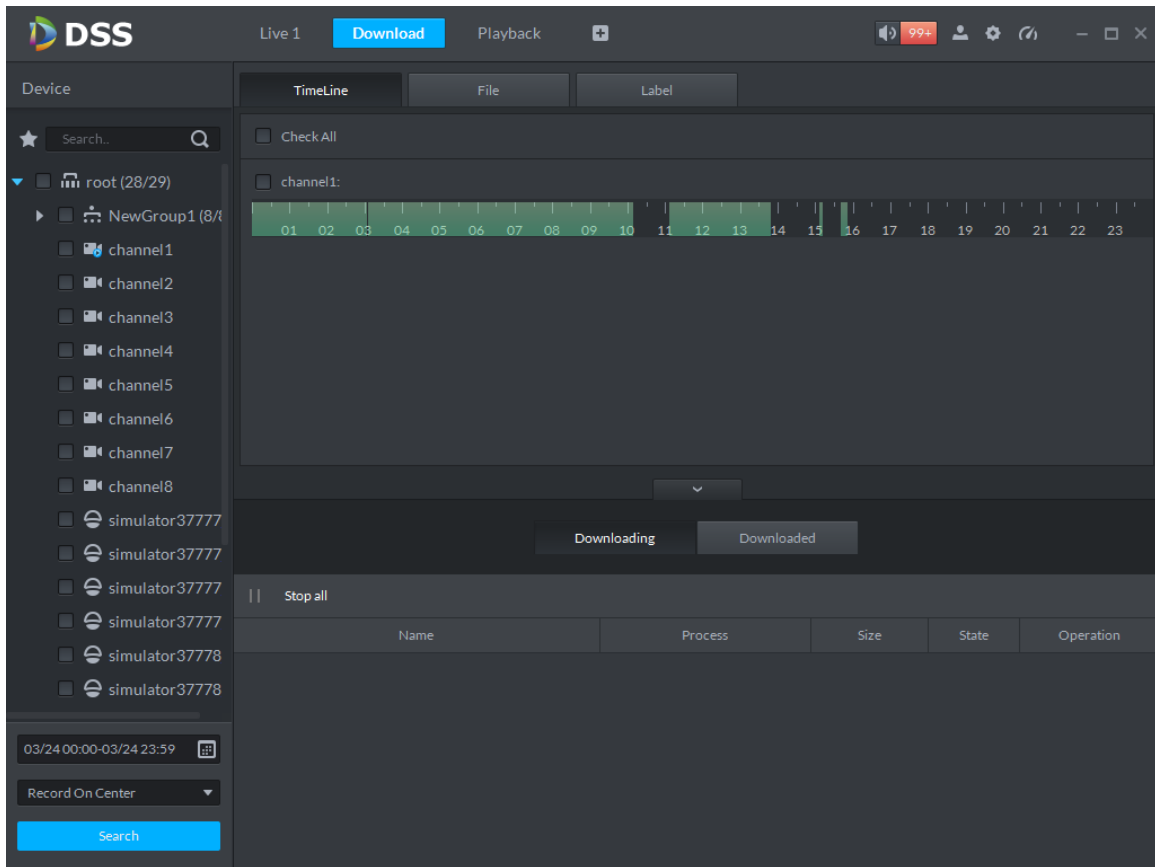


Figure 17–44

Step 2. Select “TimeLine” tab.

Step 3. Select time period from timeline, then download box pops up, as in Figure 17–45.

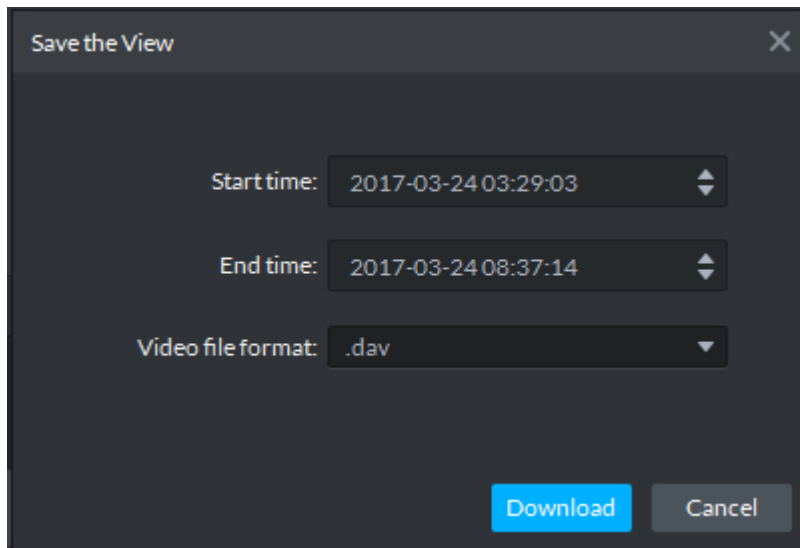


Figure 17–45

Step 4. Click “Download”.

Download process shows below, as in Figure 17–46.

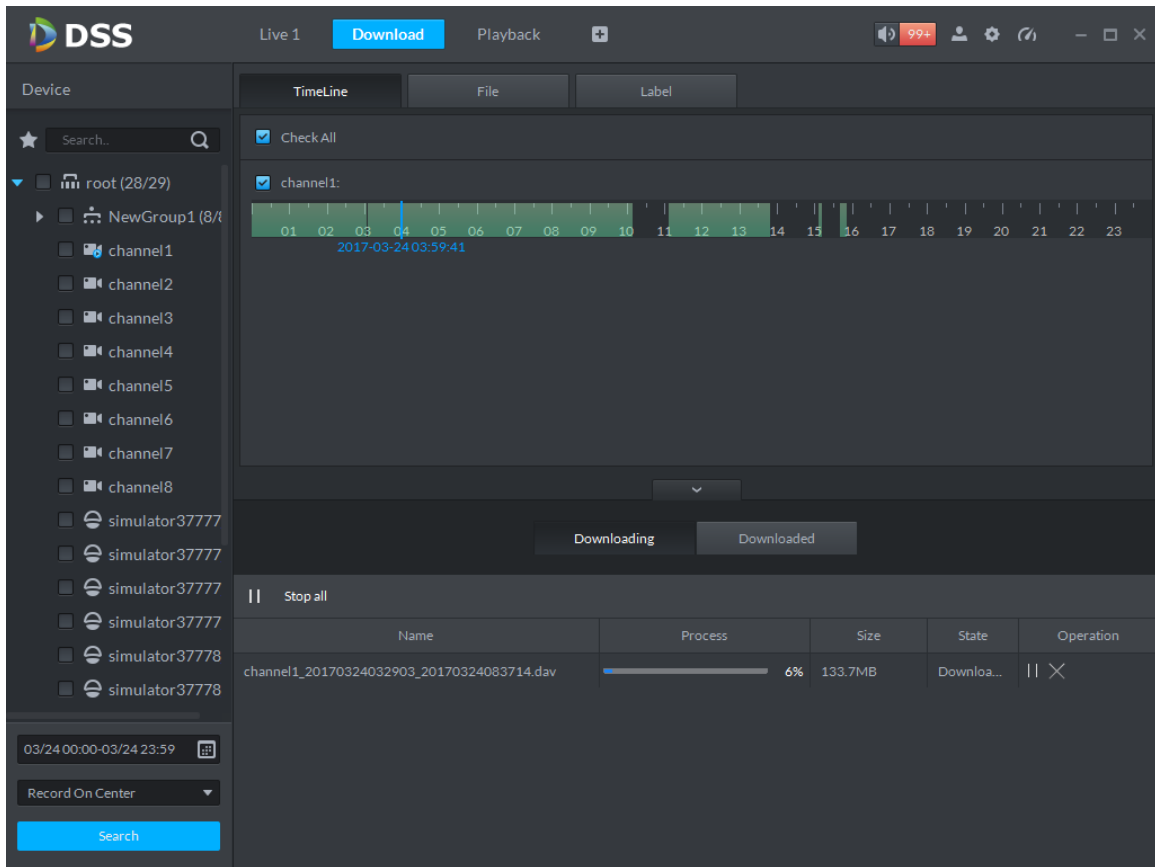


Figure 17–46

17.5.4 File list

Step 1. Click “File” tab.

System shows record files, as in Figure 17–47.

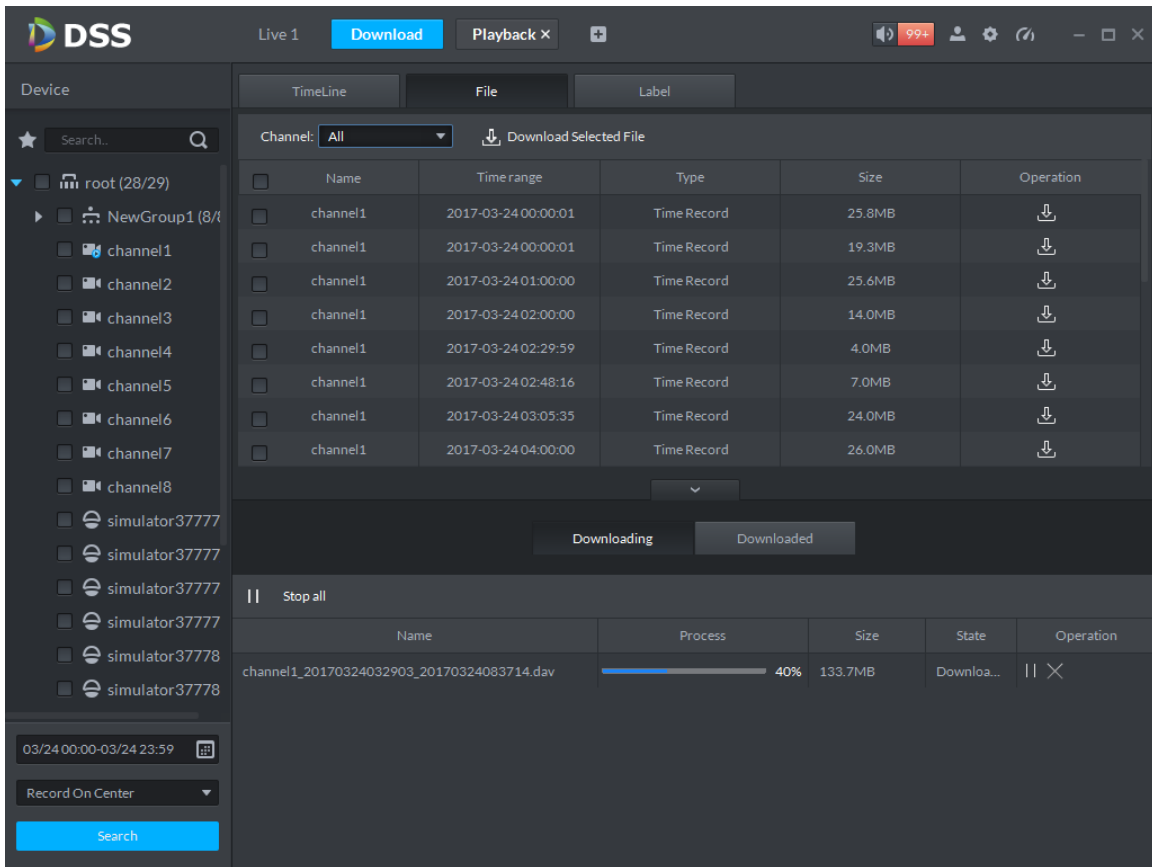



Figure 17–47

Step 2. Directly click  in the “Operation” column, or check multiple files and click “Download Selected Files”.

Download process shows directly at the bottom of the interface.

17.5.5 Label

Step 1. Click “Label” tab.

System display record files with labels, as in Figure 17–48.

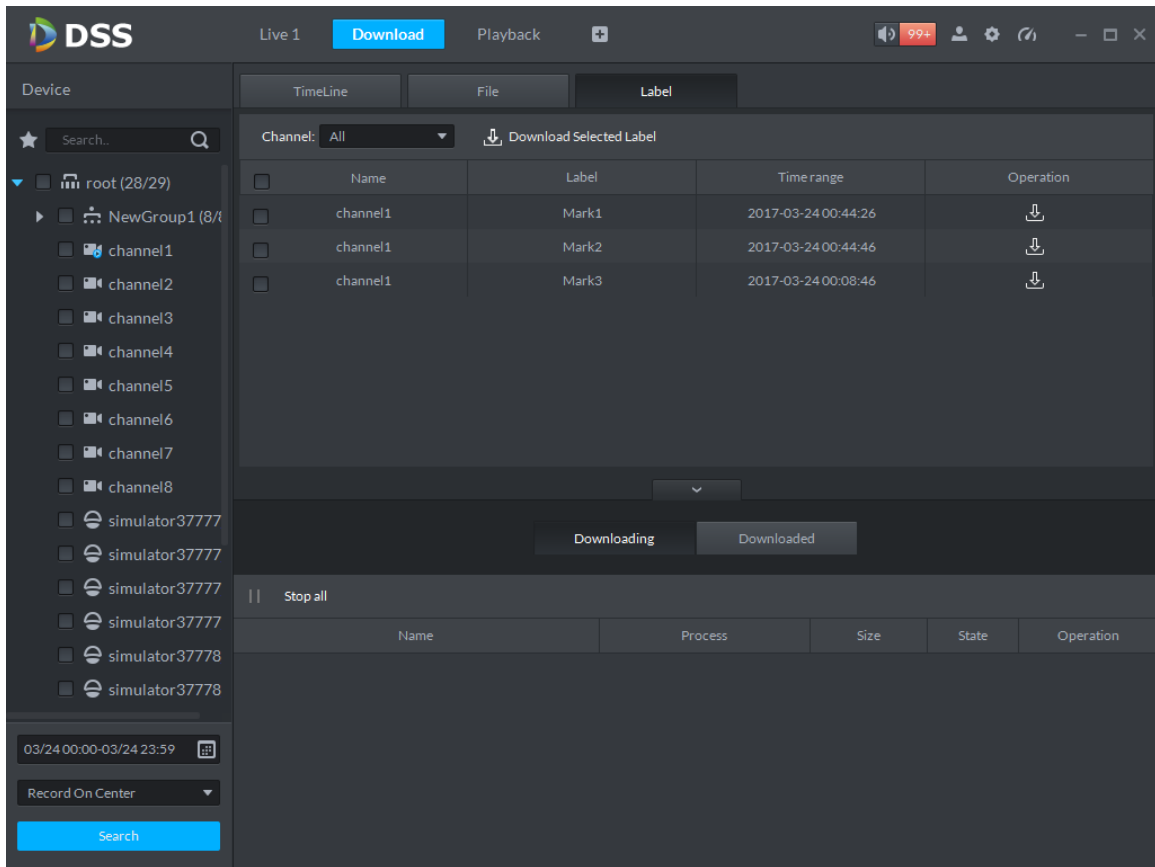



Figure 17–48

Step 2. Directly click  in the “Operation” column, or check multiple files and click “Download Selected Files”.

Download process shows directly at the bottom of the interface.

17.6 Download Management

17.6.1 Downloading

If there are record files in downloading process, download process shows under the “Downloading” tab at the bottom of the interface, as in Figure 17–49.

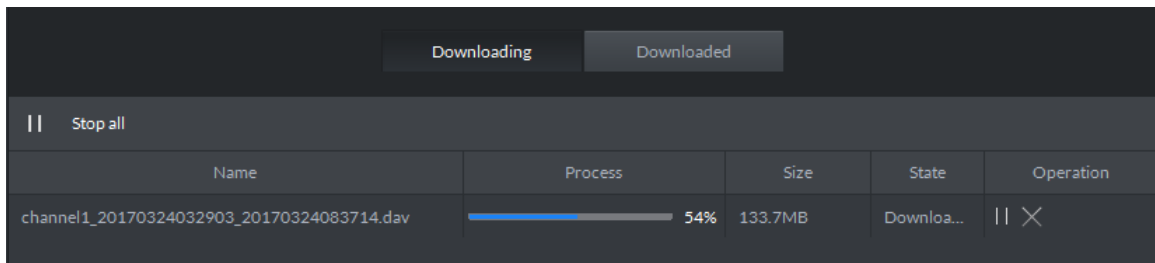


Figure 17–49

17.6.2 Completed

Files completing download shows under the “Downloaded” tab, as in Figure 17–50.




		Downloading	Downloaded		
Name	Position	Size	Operation		
channel1_20170324000001_201703240100...	C:/DSS Professional/DSS Control Client/Record/channel1_2017...	25.8MB			
channel1_20170324032903_201703240837...	C:/DSS Professional/DSS Control Client/Record/channel1_2017...	133.7MB			

Figure 17–50

Click  to jump to storage path of the record file.

18 Alarm

18.1 Intro to Flow

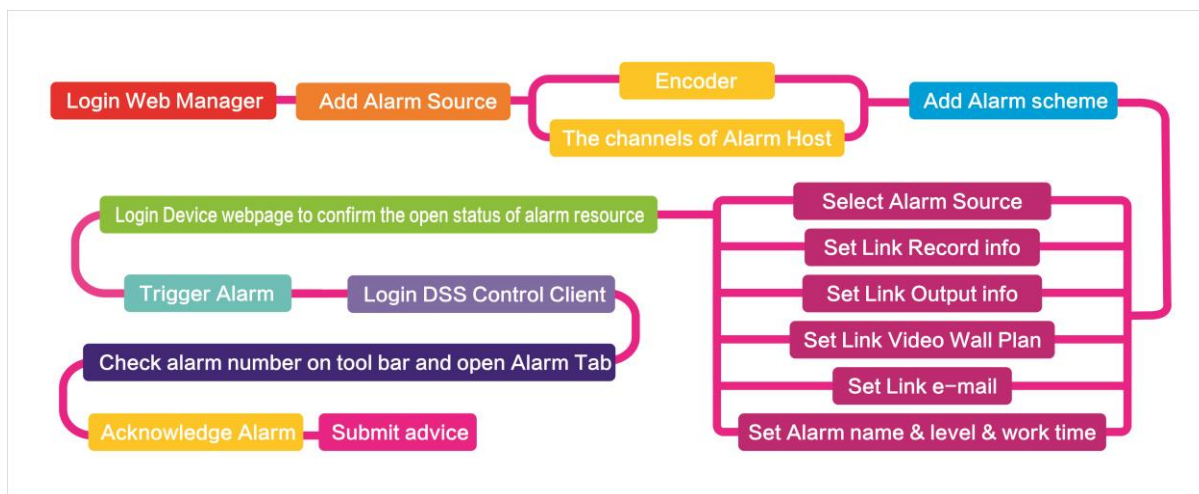



Figure 18-1

18.2 Add Alarm Source

DSS platform supports to add alarm. You shall add alarm source on device. For different devices, you shall set different alarm types. For example, the device is a NVR, the following is steps of setup.

Step 1. Directly login web, or on DSS Manager, go to Device interface, click  next to NVR device.

Step 2. Open EVENT tab.

Step 3. Click VIDEO DETECTION. Video detection includes Motion Detect, Video Loss, Tampering, Video Diagnose. For example, set Motion Detect, see Figure 18-2.

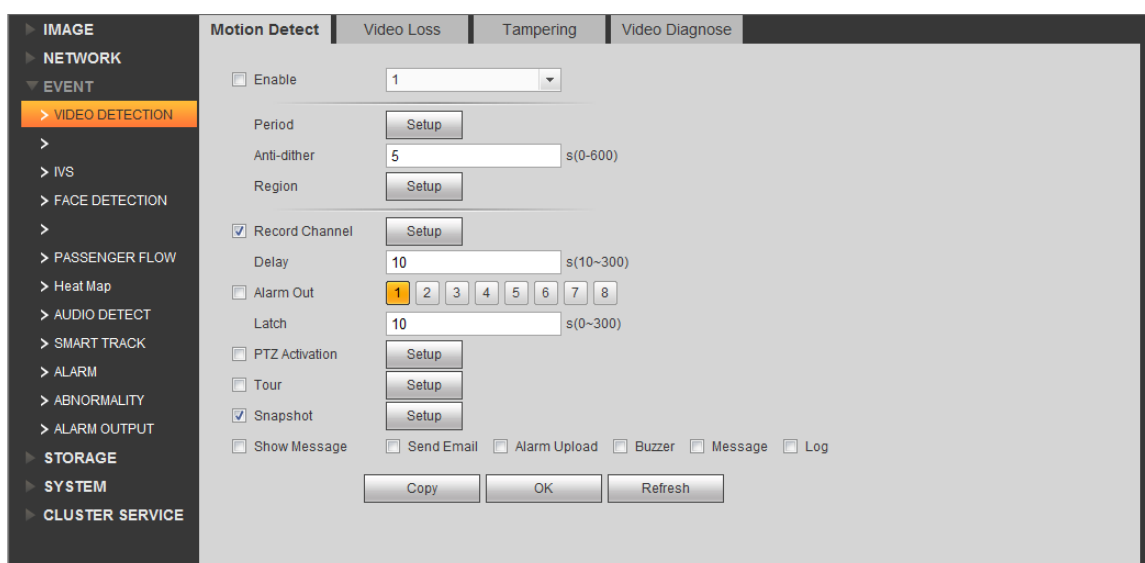


Figure 18-2

Parameter	Note
Enable	Enable.
Period	Set monitoring period.

Parameter	Note
Anti-dither	Set anti-dither period.
Region	Set monitoring region.
Record Channel	Record channel.
Delay	Set alarm delay time.
Alarm Out	Select alarm output.
PTZ Activation	PTZ activation.
Tour	Select alarm video exit.
Snapshot	Set snapshot channel.
Show Message	Send Email: send email when alarm occurs. Alarm Upload: report alarm to DSS platform. Here you shall check, otherwise the platform will not receive alarm. Buzzer: prompt alarm. Message: send message of alarm. Log: log created when alarm occurs.

Chart 18-1

Step 4. Set parameter, click OK.

Step 5. According to alarm info you need, you can click FACE DETECTION, AUDIO DETECT, ALARM and other tabs.

For example, to set Local Alarm in ALARM tab.

Step 1. Select ALARM>Local Alarm, see

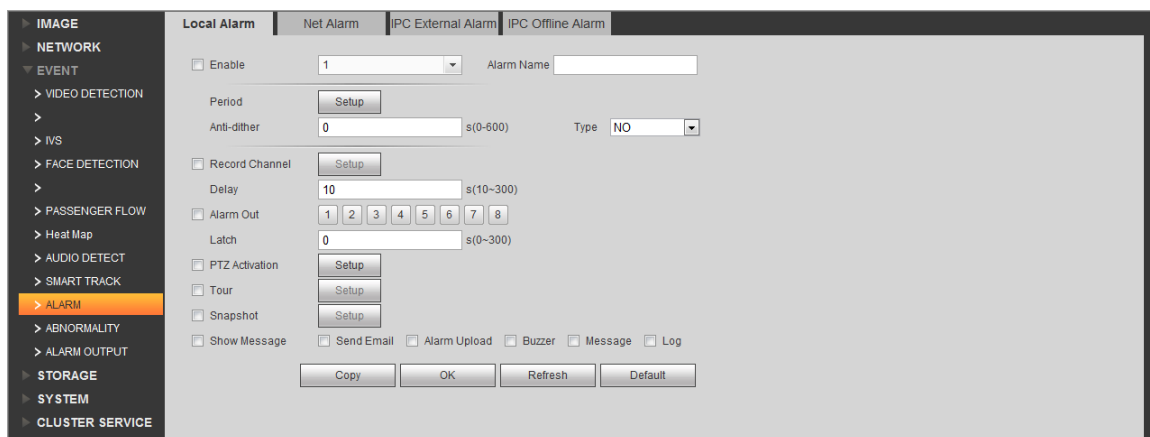


Figure 18-3

Parameter	Note
Enable	Enable
Alarm Name	Alarm name
Period	Set alarm period.
Anti-dither	Anti-dither
Type	Type
Record Channel	Record channel.
Delay	Set alarm delay time.
Alarm Out	Select alarm output.
PTZ Activation	PTZ activation.

Parameter	Note
Tour	Select alarm video exit.
Snapshot	Set snapshot channel.
Show Message	Send Email: send email when alarm occurs. Alarm Upload: report alarm to DSS platform. Here you shall check, otherwise the platform will not receive alarm. Buzzer: prompt alarm. Message: send message of alarm. Log: log created when alarm occurs.

Chart 18-2

Step 2. Set parameter, click OK.

18.3 Add Alarm Device

For example, too add ARC5805C-C.

Step 1. Login PC of this platform, ping ARC5808C-C to connect the platform.

Step 2. Login DSS Manager.

Step 3. Click Device, see Figure 18-4.

IP Address	Type	Port
172.10.1.30	DVR	37777
172.10.1.34	NVR	37734
172.10.1.40	Unknown	37777
172.10.1.62	NVD	37777

Encode	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation
1000010	172.10.3.102	MDVR102	MDVR	root	Offline	Main connection failed.	
1000005	172.10.1.123	172.10.1.123	DVR	root	Offline	Main connection failed.	
1000002	172.10.3.66	172.10.3.66	Smart IPC	ipc IPC112abc杭州	Offline	Main connection failed.	
1000035	10.33.10.27	10.33.10.27	DVR	root	Online		
1000033	10.33.10.135	moni-q-ns	IPC	root	Online		

Figure 18-4

Step 4. Click Add.

Step 5. In Device Category, select Alarm Host, enter device IP, see Figure 18-5.

Add All [X]

1. Login Information. 1.Login Information 2.Device Information

Protocol: Dahua

Manufacturer: Dahua

Add Type: IP Address

Device Category: Alarm Host

IP Address: * 10.15.23.102

Device Port: * 37777

User: * admin

Password: ****

Org: root

Video Server: Center Server

[Add] [Cancel]

Figure 18-5

Step 6. Set protocol, manufacturer, add type, organization and etc. Click Add, see Figure 18-6.

Add All [X]

2. Device Information. 1.Login Information 2.Device Information

Device Name: *

Device SN:

Role: Administrator, Operator

Alarm Input Channel:

Alarm Output Channel:

[Back] [Continue to add] [OK]

Figure 18-6


Step 7. Click OK.

Because platform server and alarm device have time interaction, so new device show OFFLINE status, you can click other tab and return to Device tab, or refresh Device interface,

the device will become ONLINE.

18.4 Create Alarm Scheme

Step 1. Login DSS Manager.

Step 2. Click  next to Home. See Figure 18-7.

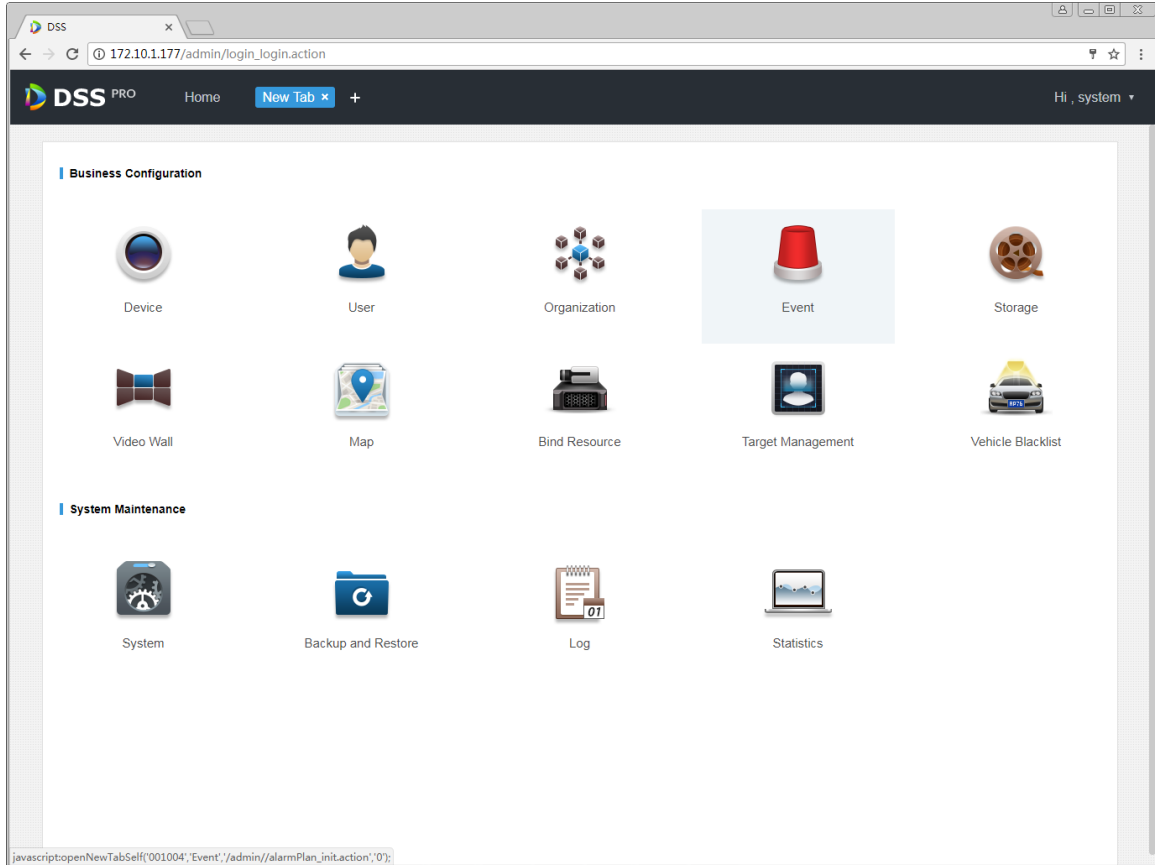


Figure 18-7

Step 3. Click Event, see Figure 18-8.

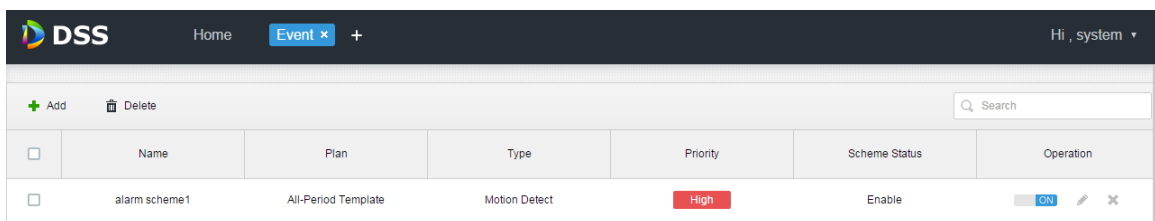


Figure 18-8

Step 4. Click Add, see Figure 18-9.

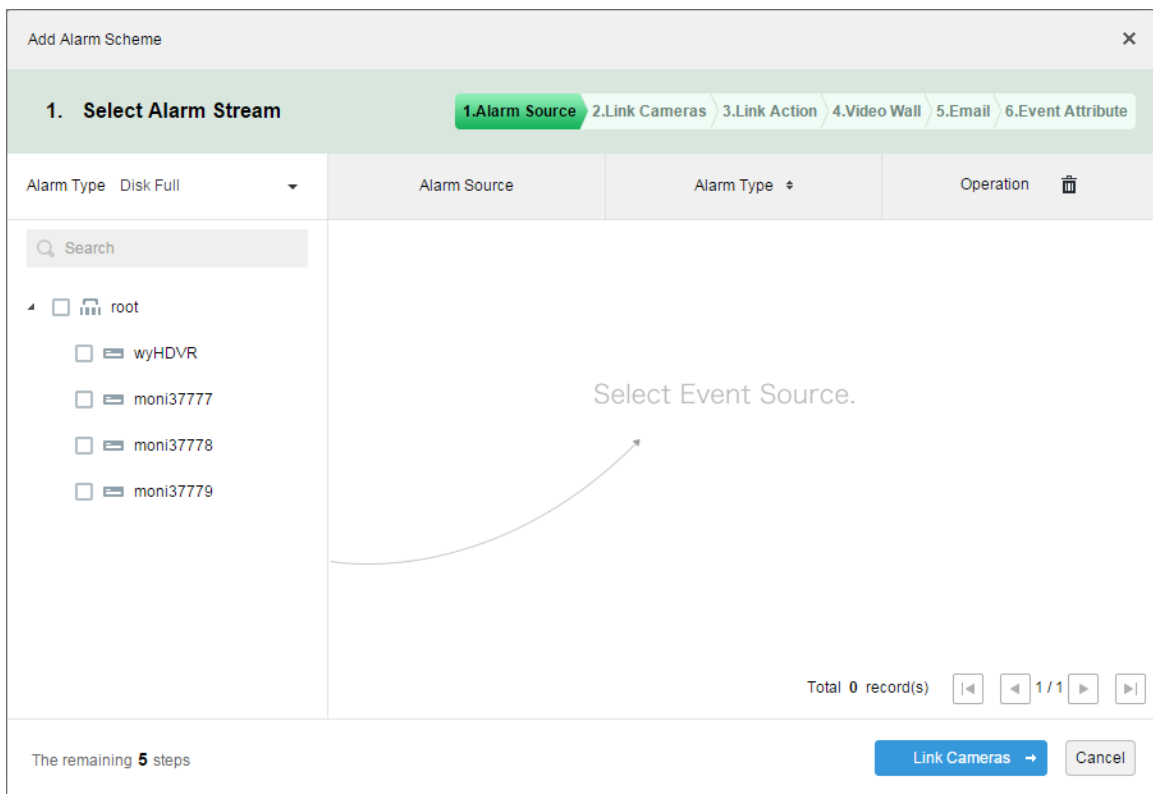


Figure 18-9

Step 5. On the left, select alarm type in alarm type dropdown list, and check device in device tree below, see Figure 18-10.

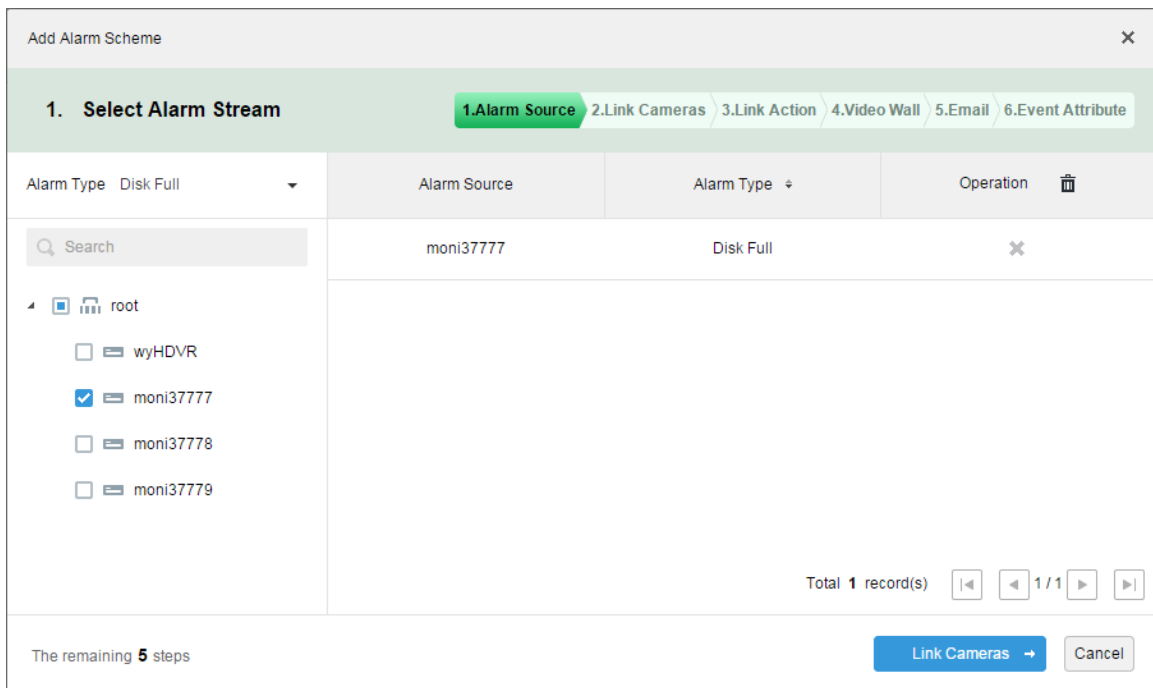


Figure 18-10

Note:

Alarm type includes:

- Device: disk full, disk failure, device offline.
- Video channel: video loss, motion detect, tampering, channel offline.
- Alarm input channel: external alarm.

- System: high temperature alarm, Raid degrade, server auto shift, server manual shift, server status change, host spare and etc.
- Alarm controller: alarm controller alarm, fire alarm, zone invalid, low battery, city grid outage.
- Thermal image: thermal image flame point alarm, hot point abnormal alarm.

Step 6. Click link camera.

Step 7. On the left, check video channel. On the right, check position, record stream, enter record time, prerecord time. Determine to check “Snapshot a picture of camera when alarm is triggered” and “Open camera video on client when alarm is triggered”. See Figure 18-11.

Note:

If you want to set prerecord, then you must select device with device record.

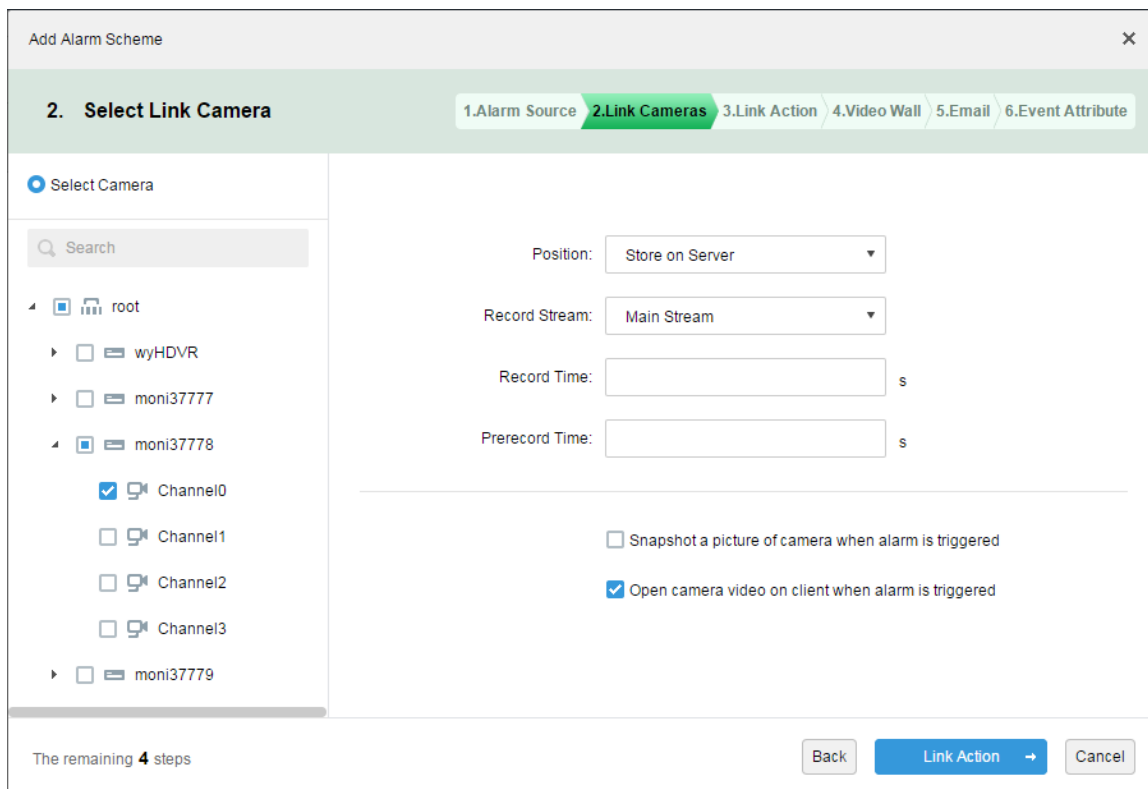


Figure 18-11

Step 8. Click Link Action.

Step 9. Check alarm output channel, set duration. Click PTZ tab on the left, check speed down device, and preset position on the right, see Figure 18-12.

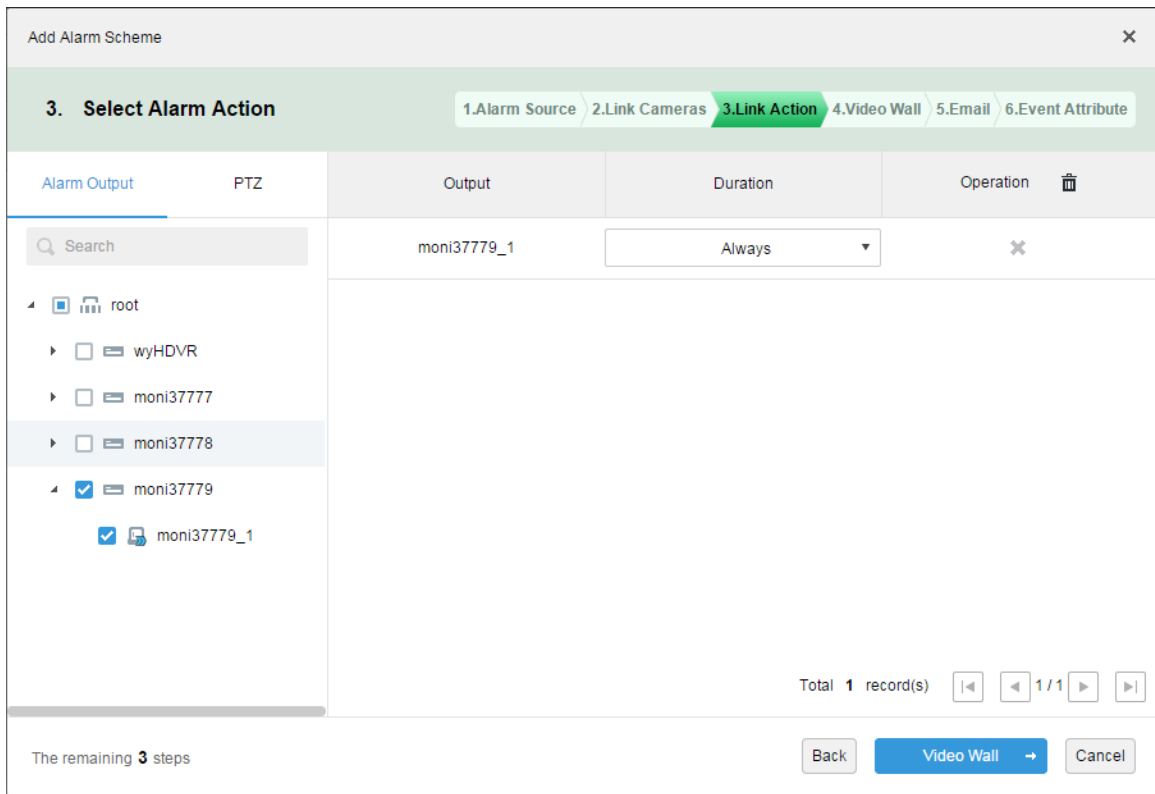


Figure 18-12

Step 10. Click Video Wall.

Step 11. Create video wall.

Step 1. Click add video wall.

Step 2. Enter video wall name, select window layout, see Figure 18-13.

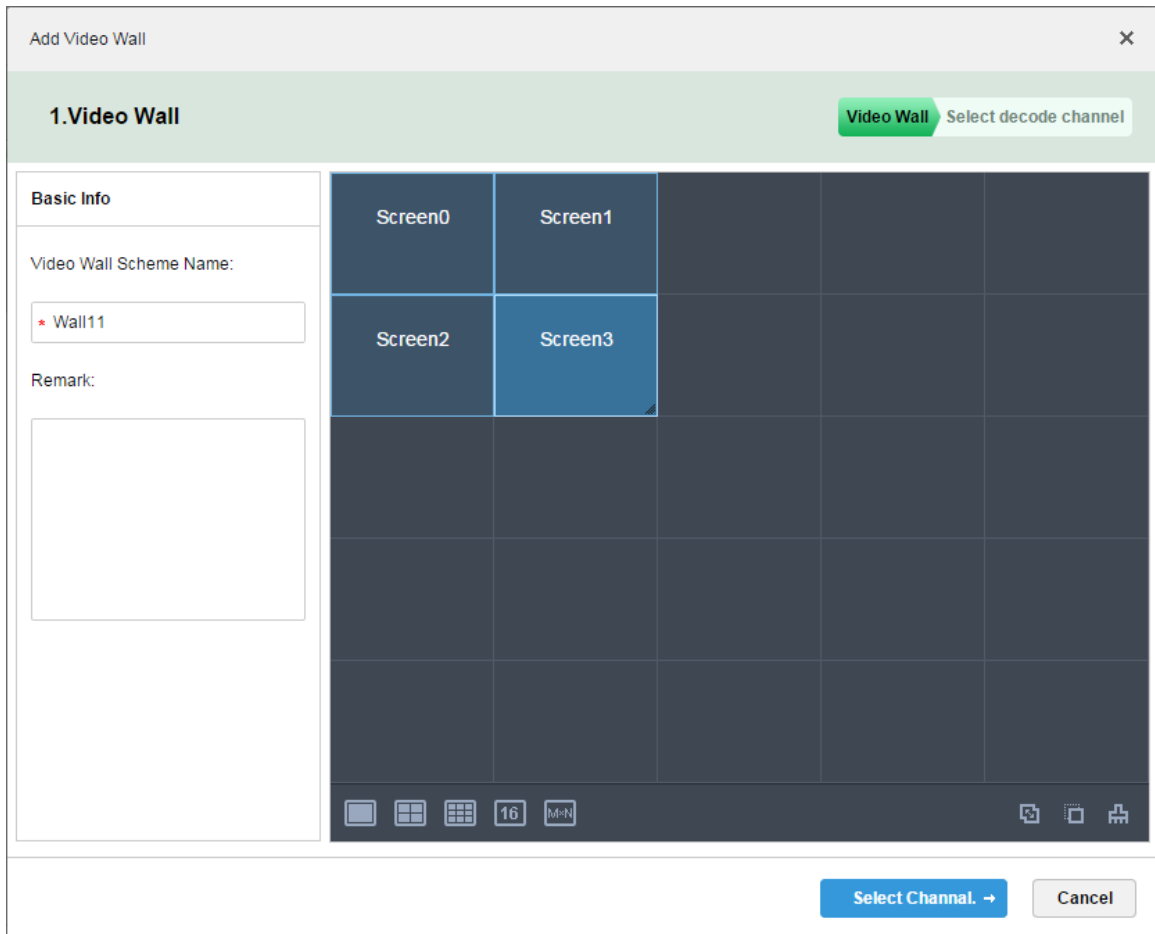


Figure 18-13

Step 3. Click Select Channel.

Step 4. In device tree, select decoder you want to bind, and drag it to corresponding video wall. See Figure 18-14.

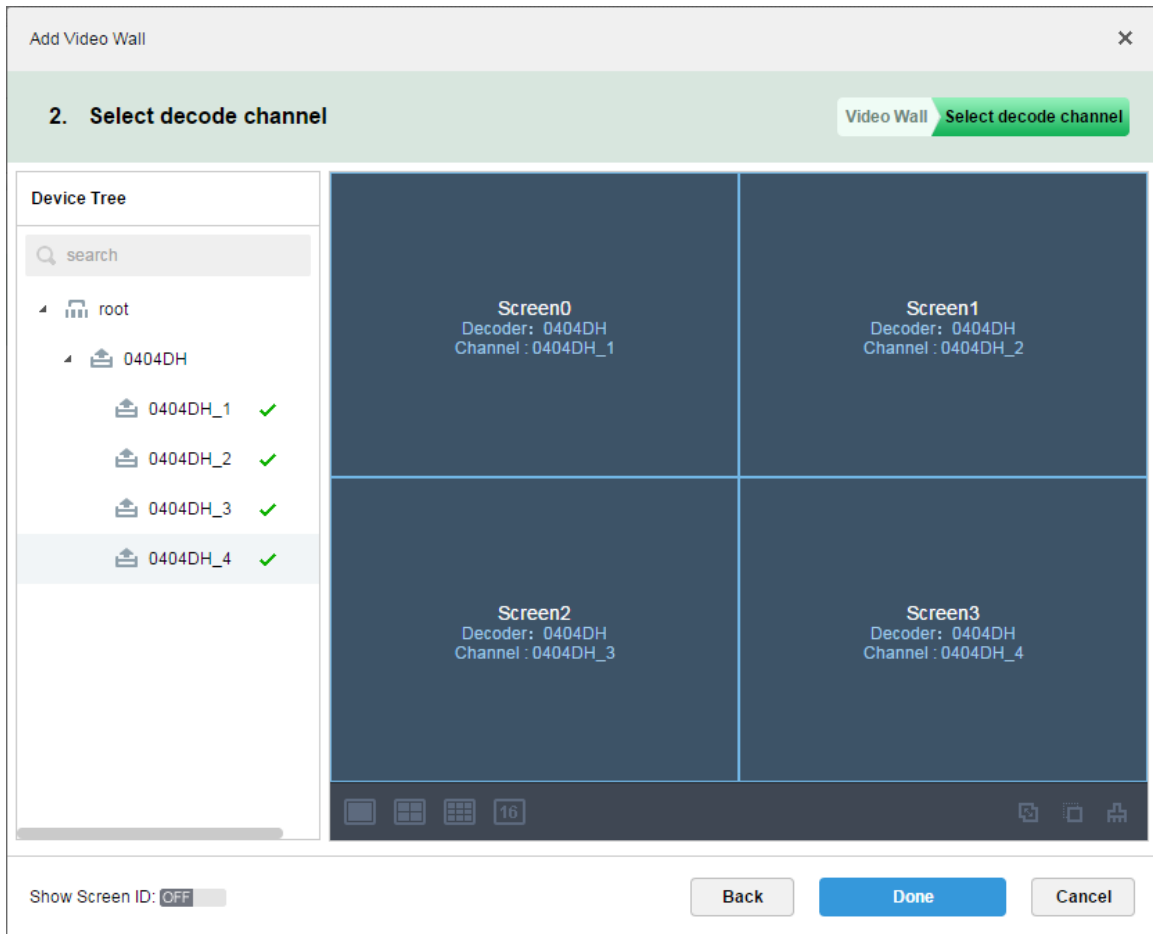


Figure 18-14

Step 5. Click Done, see Figure 18-15.

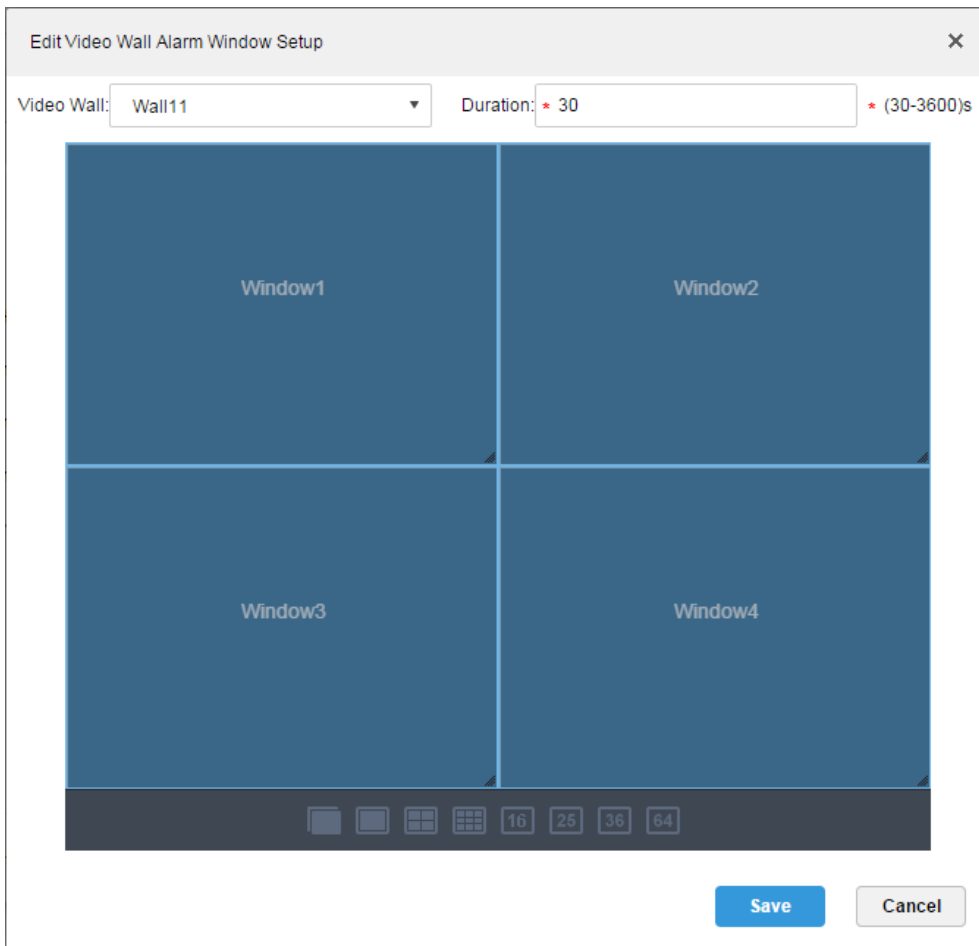


Figure 18-15

Step 6. Click Save.

Step 12. In video wall interface, check device on the left and channels are shown on the right. Select corresponding video wall and window, see Figure 18-16.

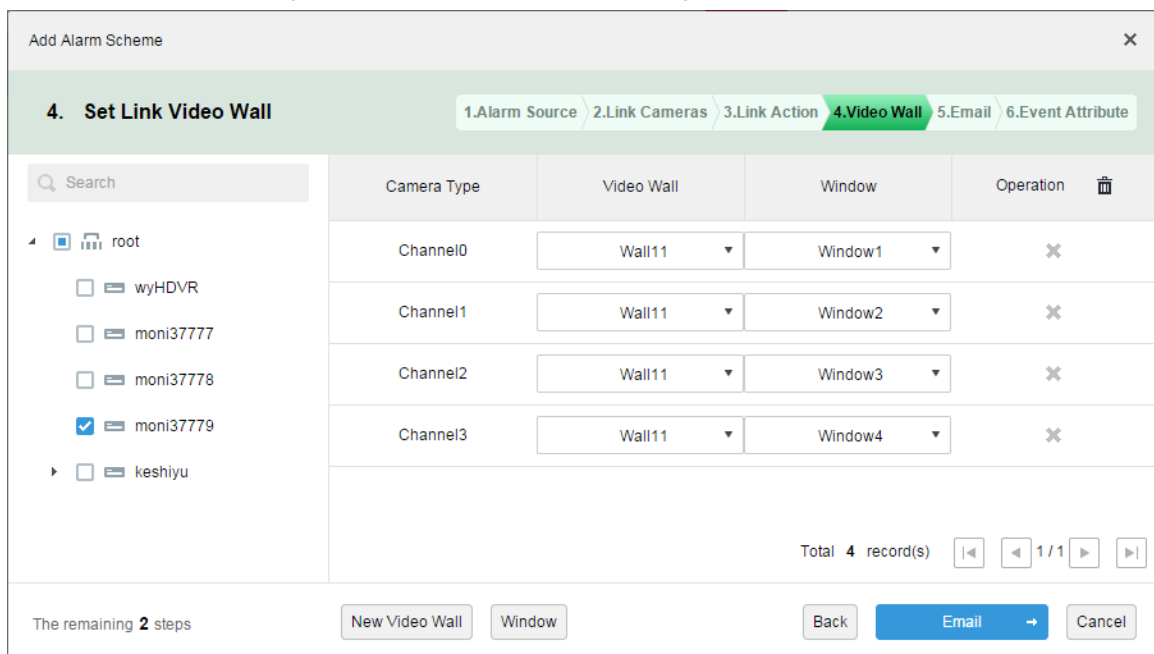


Figure 18-16

Step 13. Click Email, the system shows Set Email to Receive Alarm Info interface, see Figure 18-17. Check user to receive email.

	Username	Email
<input checked="" type="checkbox"/>	wyttest	wang_ying1@dahuatech.com

The remaining 1 steps

Back Event Attribute → Cancel

Figure 18-17

Step 14. Click Event Attribute.

Step 15. Enter name, select time template, priority, see Figure 18-18.

The remaining 0 steps

Back Done Cancel

Figure 18-18

Note:

You can select current time template, or add time template, see Ch 9.1.2.

Step 16. Click Done. In alarm scheme interface, click ON, see Figure 18-19.

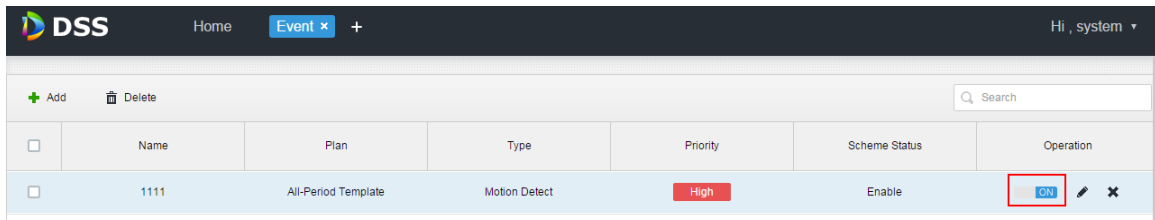


Figure 18-19

18.5 Alarm Link Video Preview

Function note: When an alarm occurs, open user linked video channel in preview window or pop-up window on Client.

Step 1. Login DSS Manager.

Step 2. Click **+** next to Home. See Figure 18-20.

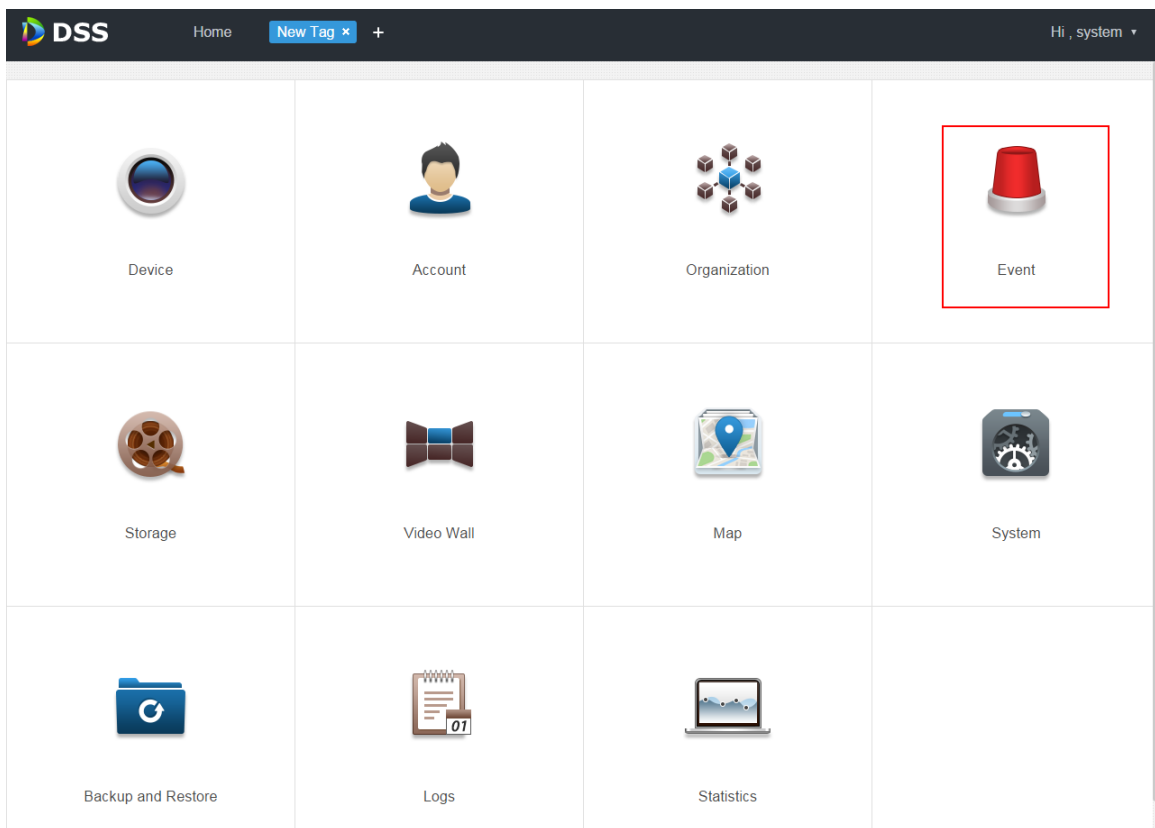


Figure 18-20

Step 3. Click Event, see Figure 18-21.

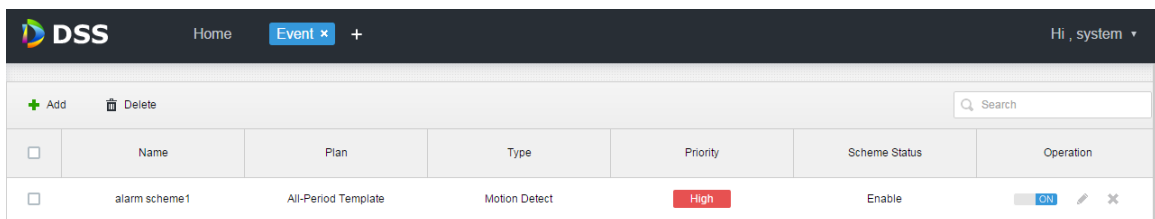


Figure 18-21

Step 4. Click Add, see Figure 18-22.

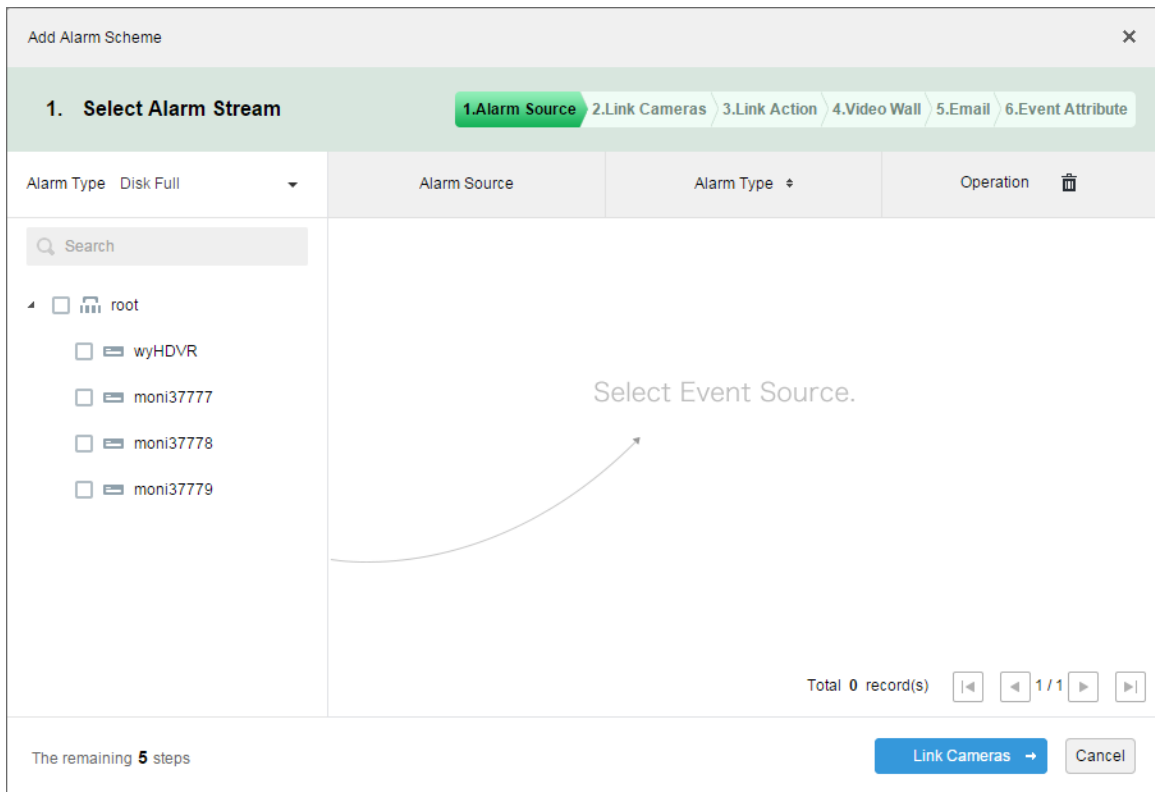


Figure 18-22

Step 5. Select alarm type from alarm type dropdown list, and check device in device tree, see Figure 18-23.

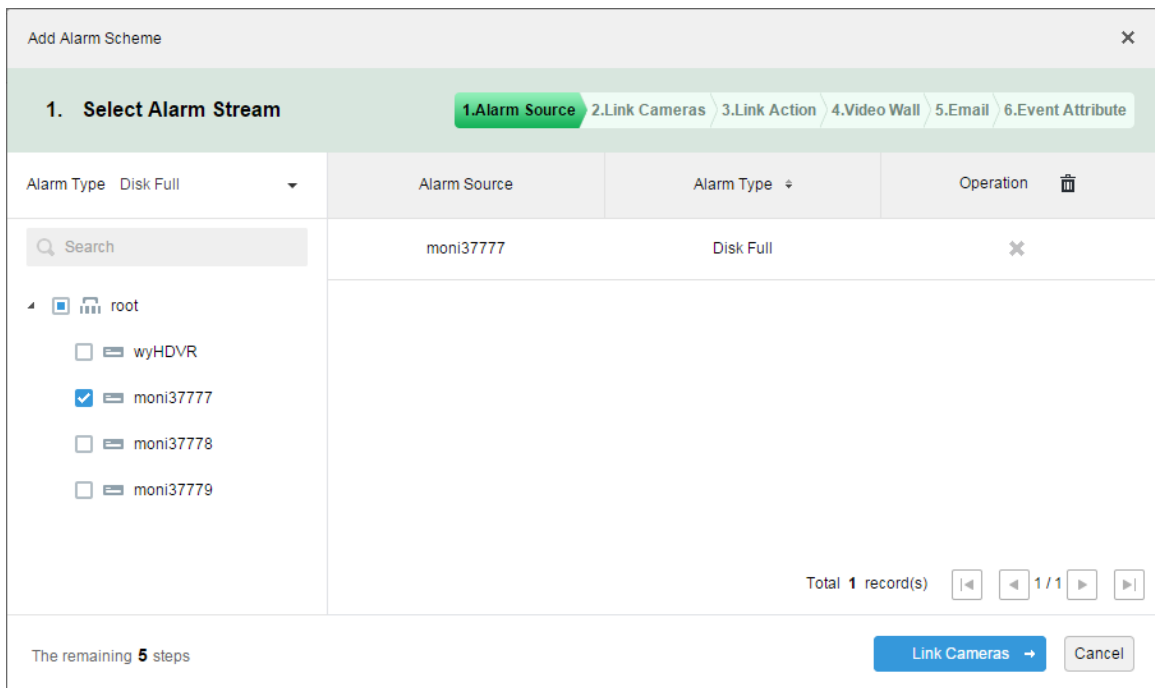


Figure 18-23

Note:

Alarm type includes:

- Device: disk full, disk failure, device offline.
- Video channel: video loss, motion detection, video tampering, channel offline.
- Alarm input channel: external alarm.
- System: high temperature alarm, Raid degrade, server auto shift, server manual shift, server

status change, host to spare, spare to host, spare failure, spare failure recovery.

- Alarm controller: alarm controller alarm, fire alarm, zone invalid, low battery, city grid offline.
- Thermal image: thermal image fire alarm, thermal image point abnormal alarm.

Step 6. Click Link Cameras.

Step 7. Check channel to preview when an alarm occurs.

Step 8. Check to enable link video.

The screenshot shows the 'Edit Alarm Scheme' window with the '2. Select Link Camera' step active. The left sidebar shows a search bar and a list of channels (Channel0 to Channel7) under the ID '37777', all of which are checked. The main area on the right contains configuration options: 'Position' set to 'Store on Server', 'Record Stream' set to 'Main Stream', 'Record Time' set to '20 s', and 'Prerecord Time' set to an empty field. A checkbox 'Open camera video on client when alarm is triggered' is checked and highlighted with a red box. At the bottom, there are 'Back', 'Link Action', and 'Cancel' buttons.

Figure 18-24

Step 9. Complete alarm scheme config.

Step 10. Login client.

Step 11. Open local setup and select open video method, and open preview in window and pop-up window.

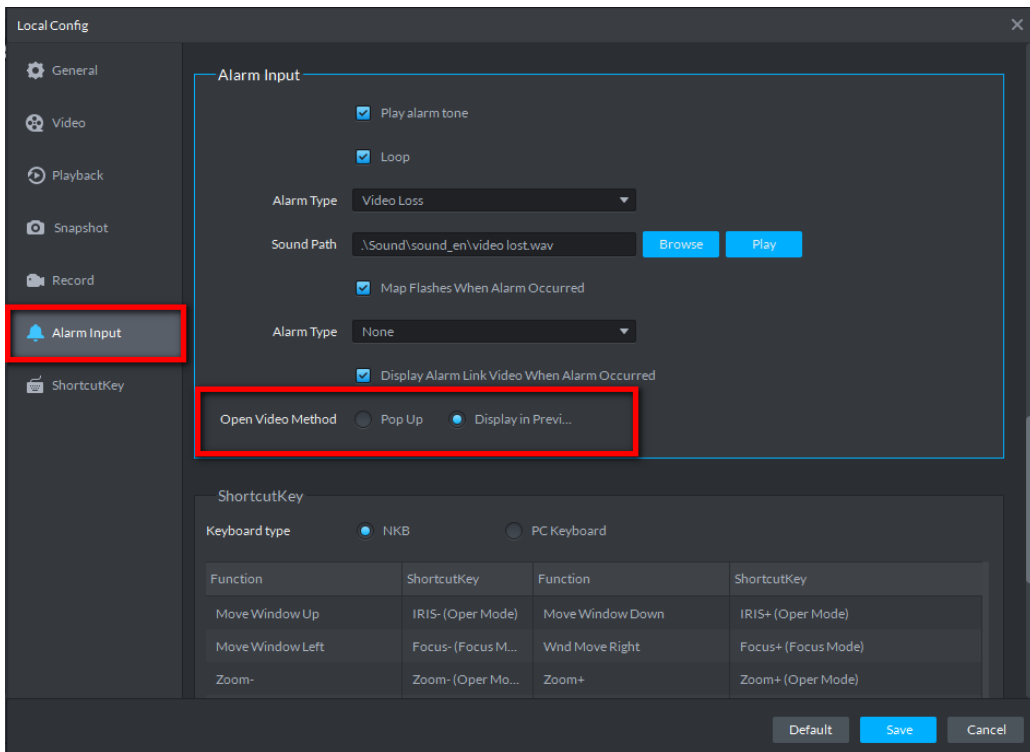


Figure 18-25

Step 12. If you select to open in preview interface, then right client to set it as alarm window, see Figure 18-26.

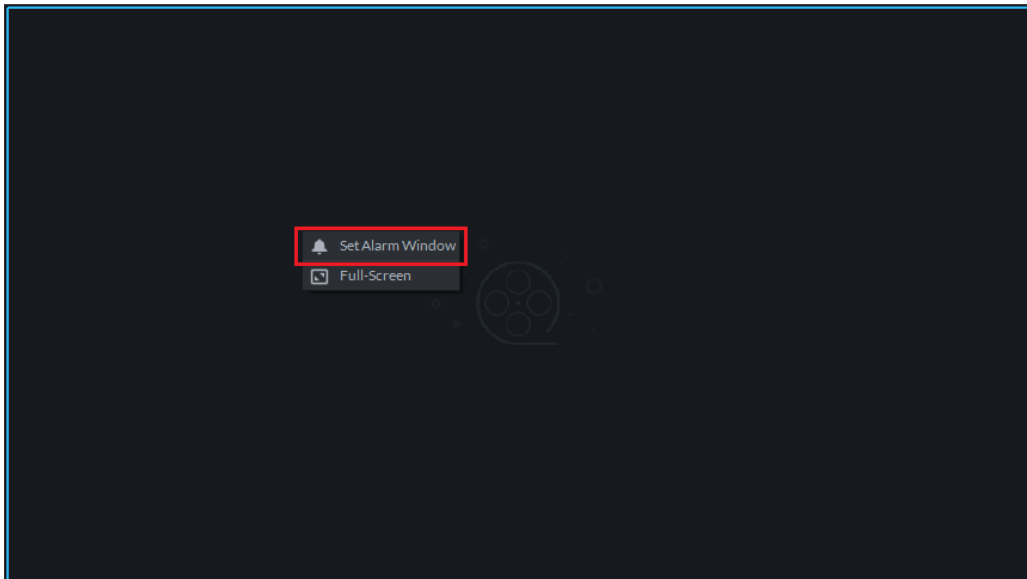


Figure 18-26

Step 13. Effect of alarm link video. See Figure 18-27 and Figure 18-28.

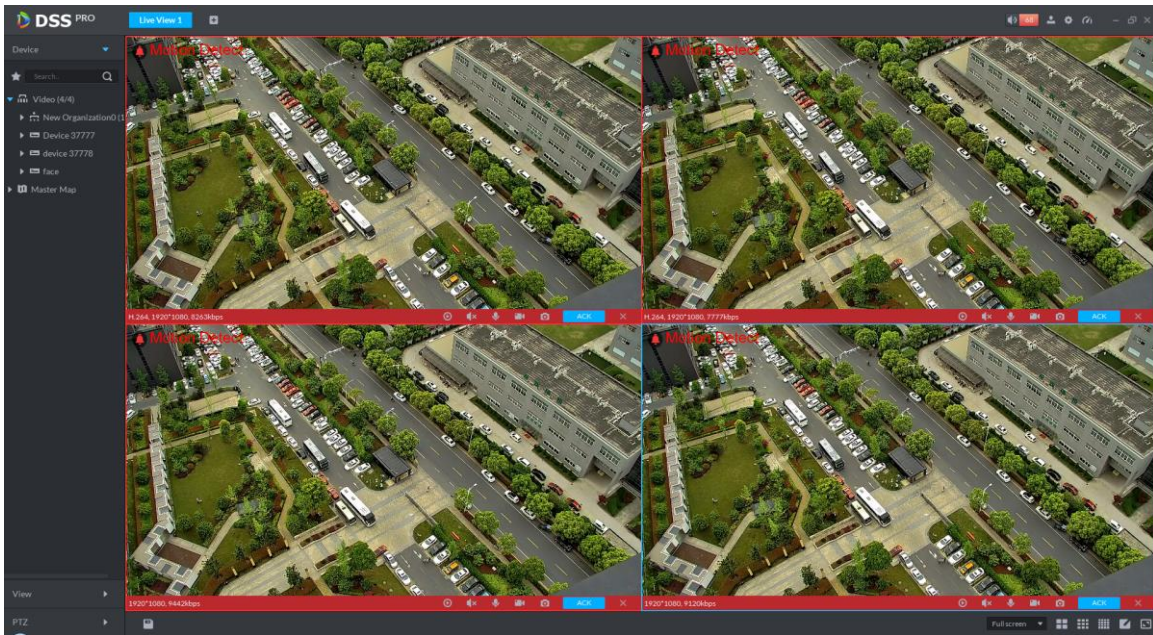


Figure 18-27

Alarm Link Video

No	Event Time	Event Source	Event Type	Link Channel Name
6	2017-04-26 20:37:14	device 37778_2	Motion Detect	Channel0, Channel1, Channel2, Channel3, device 37778_1, de...
7	2017-04-26 20:37:14	device 37778_3	Motion Detect	Channel0, Channel1, Channel2, Channel3, device 37778_1, de...
8	2017-04-26 20:37:14	device 37778_4	Motion Detect	Channel0, Channel1, Channel2, Channel3, device 37778_1, de...

Figure 18-28

18.6 Alarm Sound

Login DSS client. Click  at the upper-right corner, see Figure 18-29.

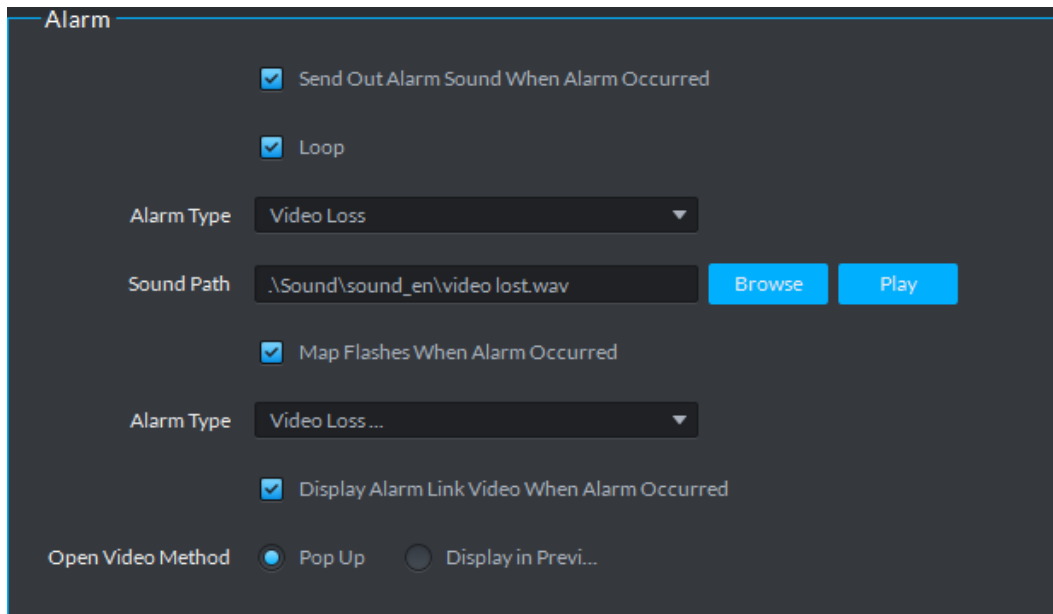




Figure 18-29

Parameter	Note
Play	Send out alarm sound when alarm occurred.
Loop	Loop alarm sound when alarm occurs.
Alarm Type	Select alarm type and set corresponding alarm sound.
Sound Path	Upload sound file, click Play to test.
Map Flash	When alarm is triggered, flash occurs at corresponding position on map.
Alarm Type	Select alarm type corresponds to map flash.
Display Video	When alarm is triggered, auto open linked video.
Open Video Method	Preview video in pop-up or in preview interface.

Chart 18-3

18.7 View Alarm

Step 1. Click  at the upper-right corner of DSS client, the system jumps to event center interface, or click  next to live, see Figure 18-30.

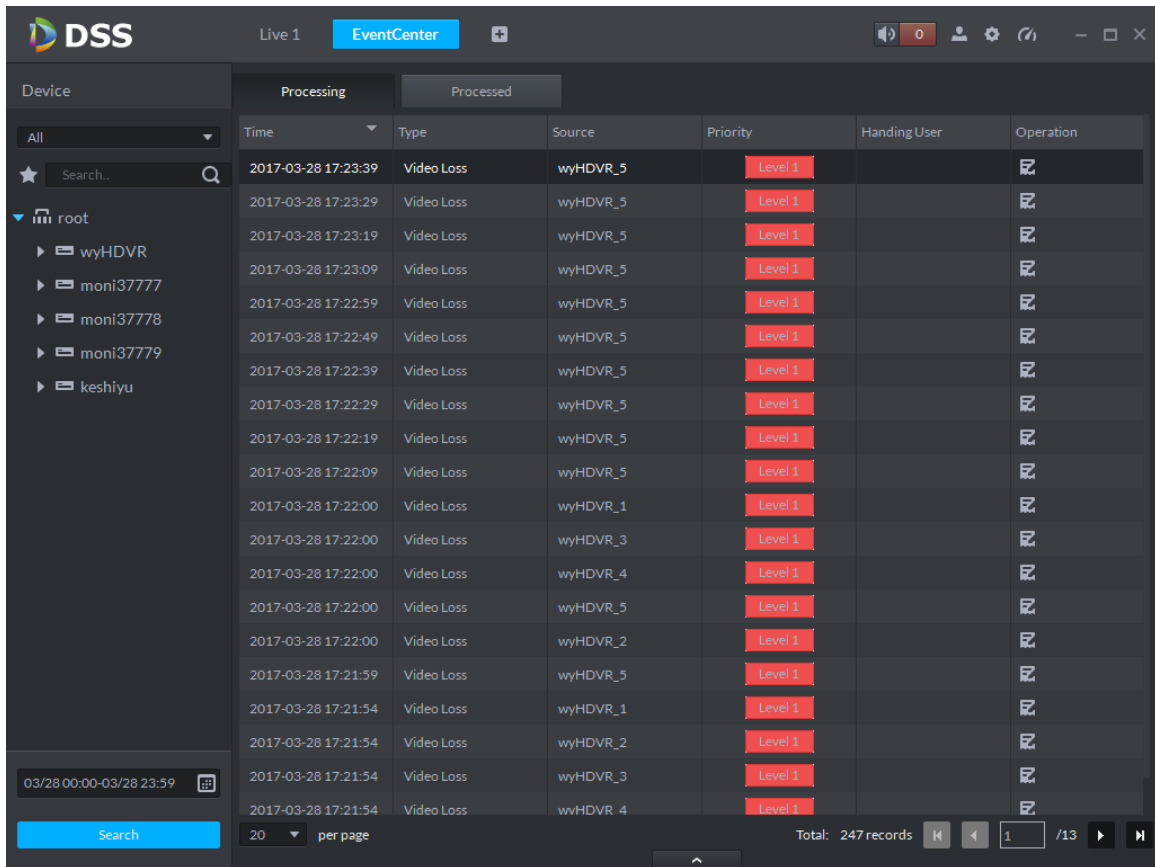



Figure 18-30

Step 2. Click  in operation column, in a window pops up at the lower right corner, see Figure 18-31.

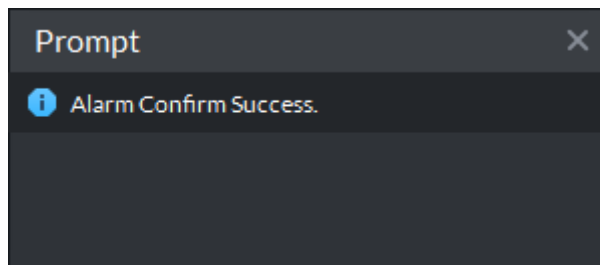


Figure 18-31

Step 3. In Claimant column, claim user, see Figure 18-32.

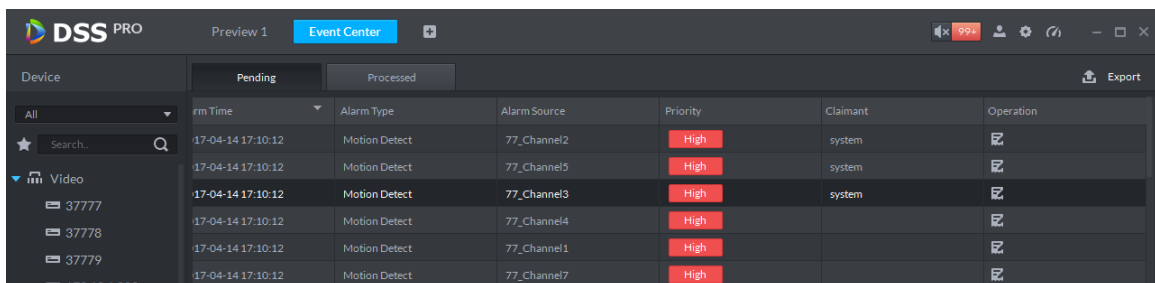


Figure 18-32

Note:
For those claimed alarms, other users cannot process those alarms.

18.8 Process Alarm

Double click alarm, below the interface shows alarm video, time, type, source, priority and etc. See Figure 18-33.

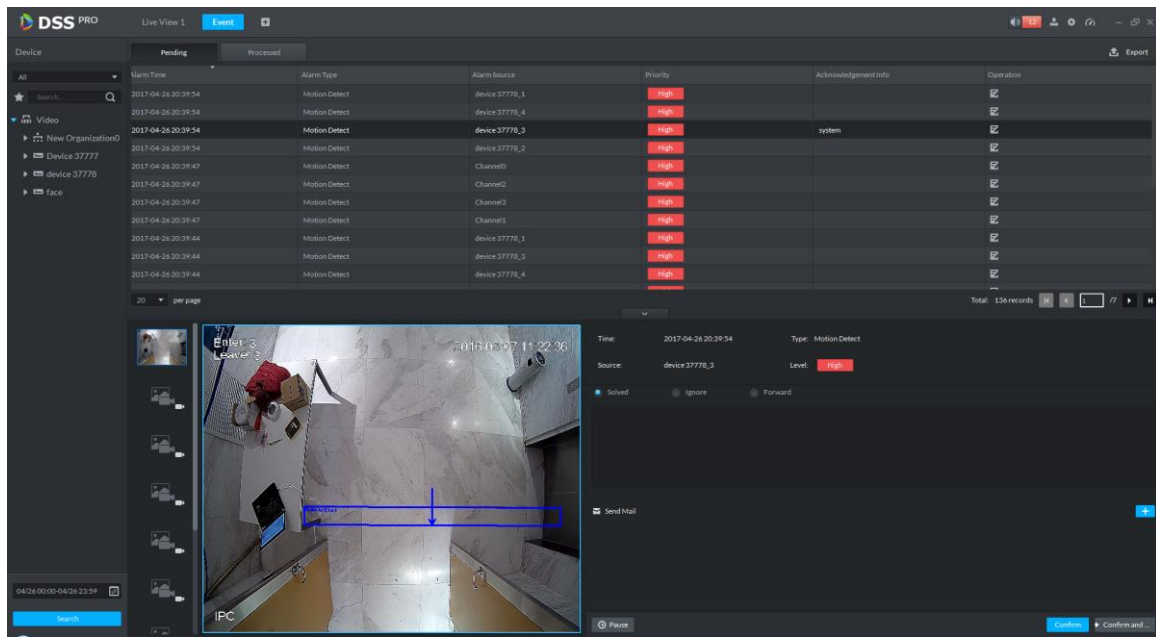


Figure 18-33


Select method to process alarm: processed, ignore, forward to other user, send email and etc.

19 Email Server

19.1 Scene

When you set alarm link on manager and process alarm on client, you can set to send email to user, so you must set email server first.

19.2 Email Server Config

Step 1. Click  next to Home, see Figure 19-1.

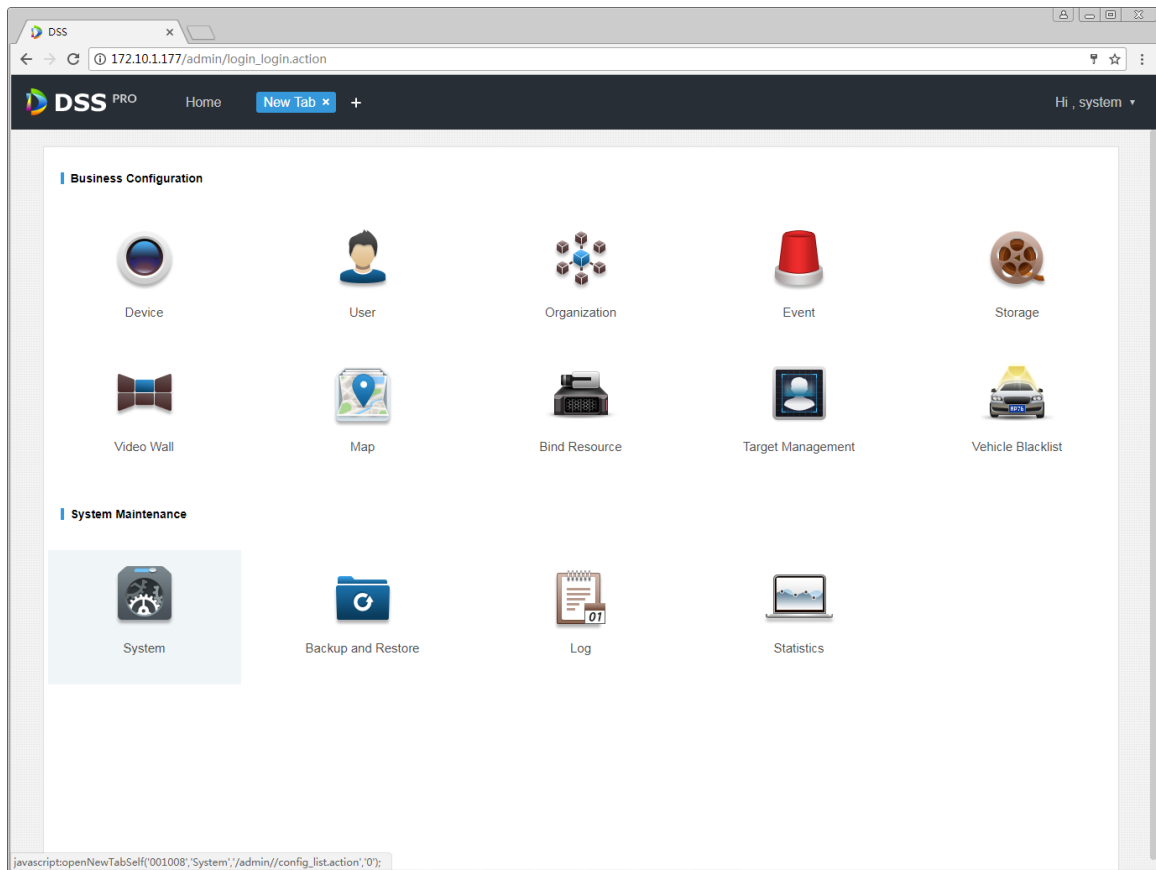


Figure 19-1

Step 2. Select mail server setup, check **Enable** to enable email server, see Figure 19-2.

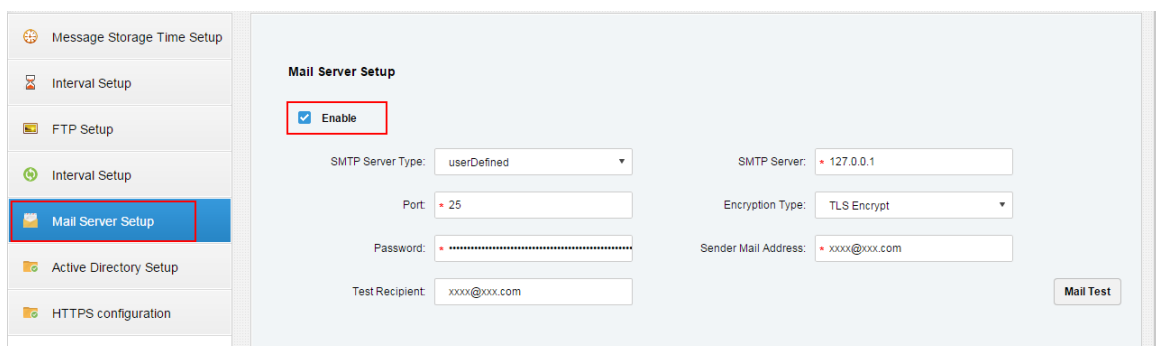


Figure 19-2

Step 3. In SMTP server type dropdown list, select server type, see Figure 19-3.

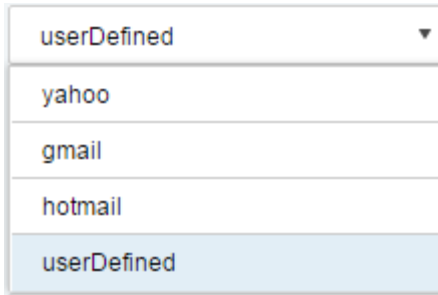


Figure 19-3

Step 4. Set email info, see Figure 19-4.

Figure 19-4

Step 5. Click **Mail Test** to test if server is valid. If test is successful, you will see a prompt and test account will receive a test email.

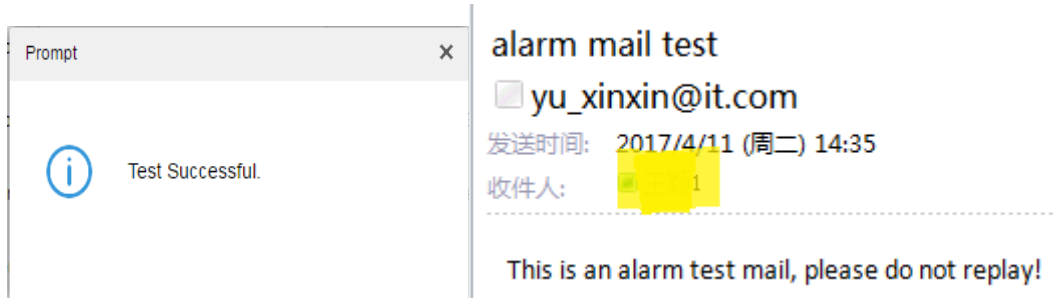


Figure 19-5

Step 6. After test is successful, click **Save** to save config info.

19.3 User Email Config

You can set email address when you create user or add email address when you edit existing user. Here makes adding user as an example:

Step 1. Login Manager, enter user management module, click User tab.

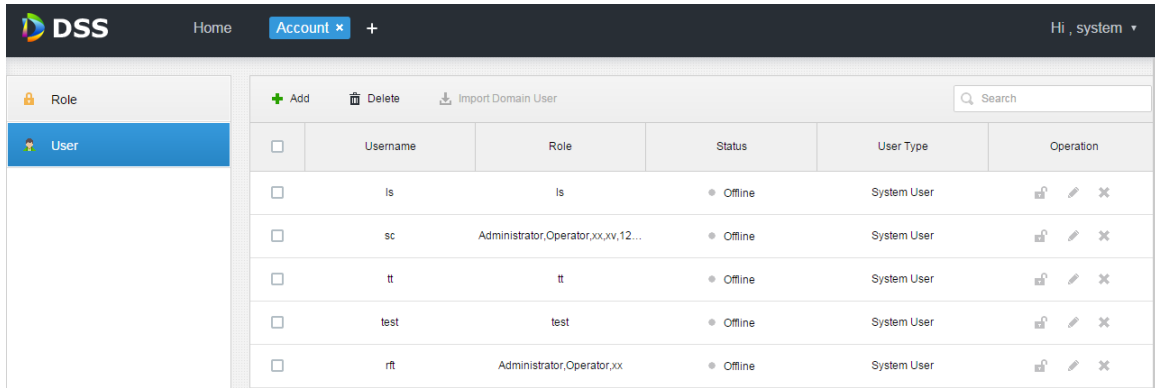


Figure 19-6

Step 2. Click **+ Add**, see Add User box. Here please set username, login password, confirm password, expiry, email address, PTZ control permission and etc. Check role below, to see device right of corresponding role on the right. See Figure 19-7.

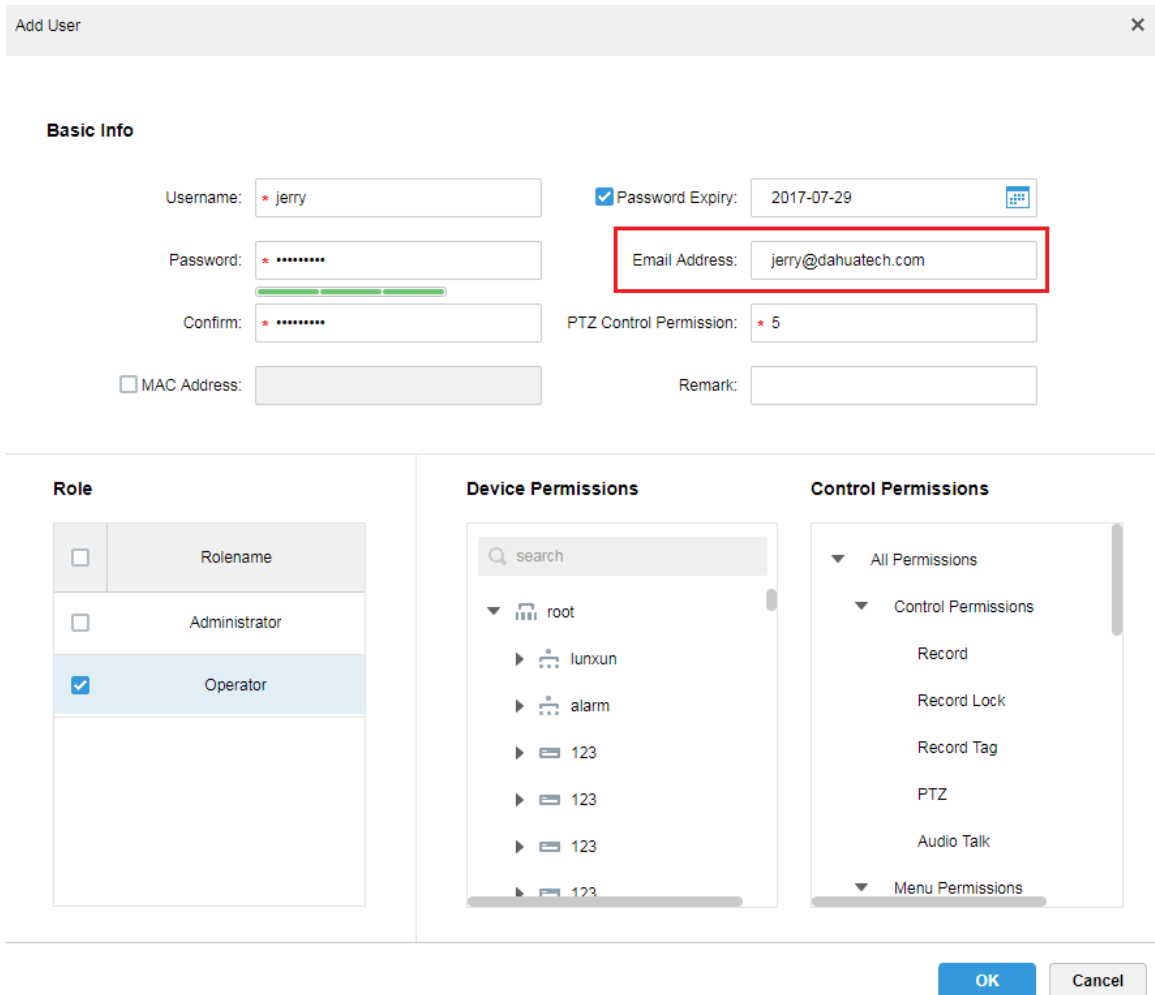


Figure 19-7

Step 3. Select existing user, click **[Add]** button to add email address, see Figure 19-8 and Figure 19-9.

Role		+ Add Delete Import Domain User Search				
User		Username	Role	Status	User Type	Operation
<input type="checkbox"/>		jerry	Operator	Offline	Basic User	
<input type="checkbox"/>		wytest	Administrator,Operator	Offline	Basic User	
<input type="checkbox"/>		test	Administrator	Offline	Basic User	
		system	Administrator	Online	Basic User	

Figure 19-8

Edit User ✕

Basic Info

Username: Password Expiry:

Password: Email Address:

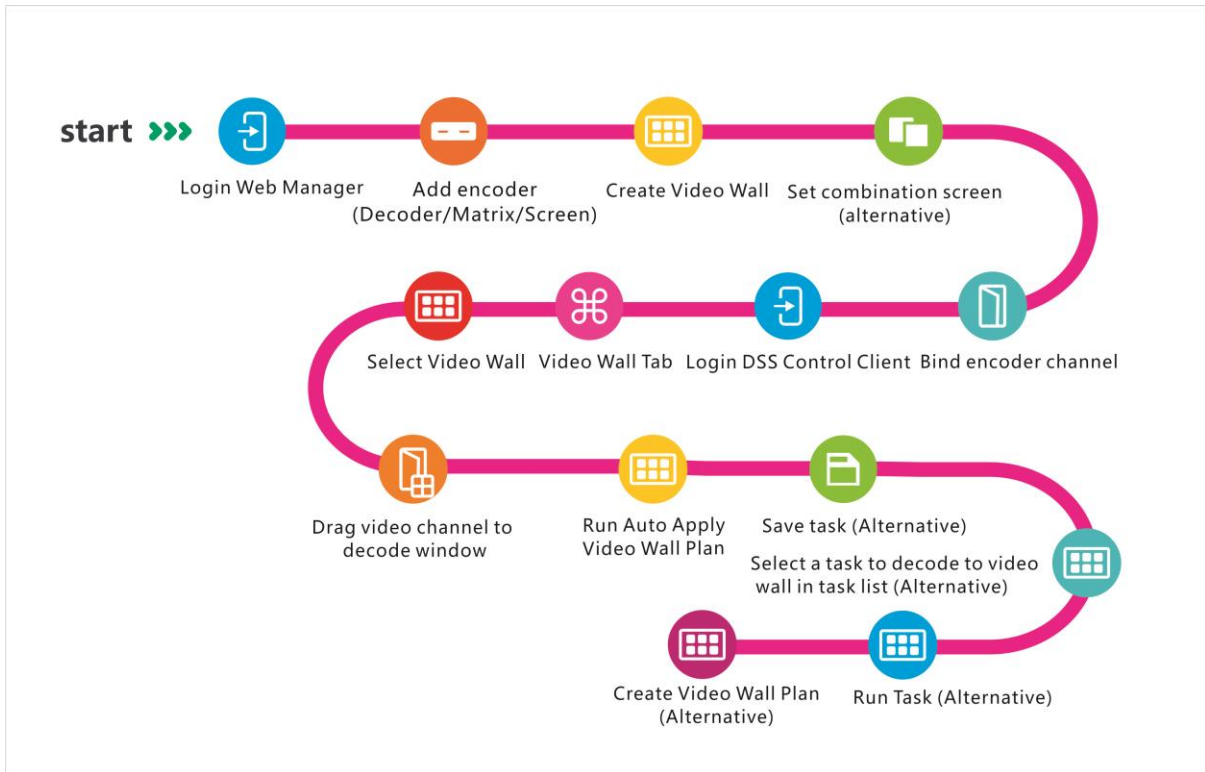
Confirm: PTZ Control Permission:

MAC Address: Remark:

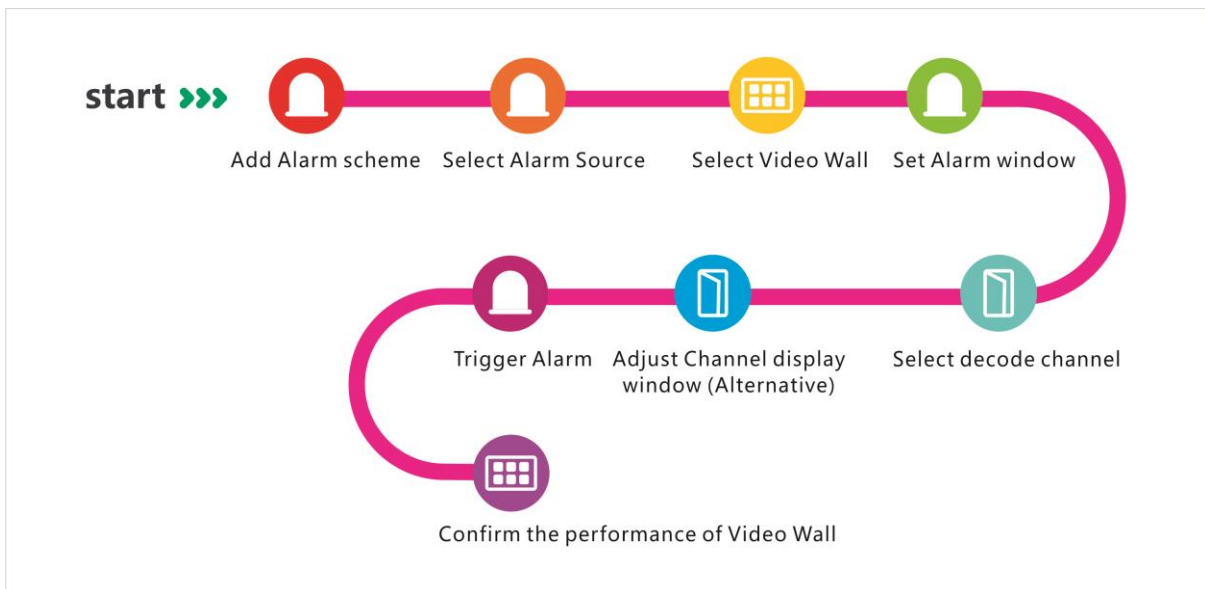
Figure 19-9

20 Video Wall

20.1 General Video Wall Flow



20.2 Alarm Video Wall Flow



20.3 Add Decoding Device

- Step 1. Login DSS Manager.
- Step 2. Select Device, see

The screenshot shows the DSS web interface. At the top, there is a navigation bar with 'Home', 'Device', and 'Hi, system'. Below this is a table with columns for 'IP Address', 'Type', and 'Port'. The table contains four rows of device information. Below the table, there is a search bar and a tab labeled 'Encoder' which is highlighted with a red box. Below the 'Encoder' tab is another table with columns for 'Encode', 'IP/Domain', 'Video Server', 'Device Name', 'Type', 'Org', 'Status', 'Offline Cause', and 'Operation'. This table contains four rows of device information.

IP Address	Type	Port
172.10.1.30	DVR	37777
172.10.1.31	DVR	37777
172.10.1.32	NVR	37777
172.10.1.34	NVR	37734

Encode	IP/Domain	Video Server	Device Name	Type	Org	Status	Offline Cause	Operation
1000003	172.10.1.202	Center Server	172.10.1.202	DVR	root	Online		⚙️ ✎ ✕
1000002	172.10.1.201	Center Server	37779	EVS	root	Online		⚙️ ✎ ✕
1000001	172.10.1.201	Center Server	37778	EVS	root	Online		⚙️ ✎ ✕
1000000	172.10.1.201	Center Server	37777	EVS	root	Online		⚙️ ✎ ✕

Figure 20-1

Step 3. Click Decoder tab below, click Add. See Figure 20-2.

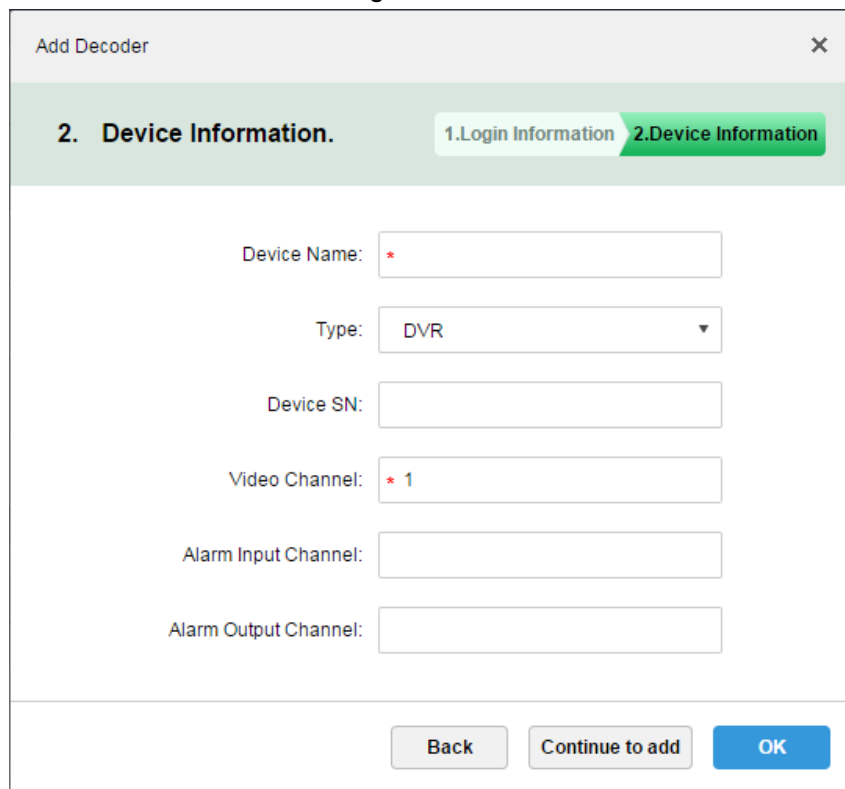
The screenshot shows the 'Add Decoder' dialog box. It has a title bar with 'Add Decoder' and a close button. Below the title bar, there are two tabs: '1. Login Information.' and '2. Device Information'. The '1. Login Information.' tab is active. The form contains the following fields:

- Protocol: Dropdown menu with 'Dahua' selected.
- Manufacturer: Dropdown menu with 'Dahua' selected.
- Add Type: Dropdown menu with 'IP Address' selected.
- Device Category: Dropdown menu with 'Encoder' selected.
- IP Address: Text input field with a red asterisk indicating a required field.
- Device Port: Text input field with a red asterisk indicating a required field.
- User: Text input field with a red asterisk indicating a required field.
- Password: Password input field with masked characters (****).
- Org: Dropdown menu with 'root' selected.
- Video Server: Dropdown menu with 'Center Server' selected.

At the bottom of the dialog box, there are two buttons: 'Add' and 'Cancel'.

Figure 20-2

Step 4. Enter IP address, click Add, see Figure 20-3.



The screenshot shows a dialog box titled "Add Decoder" with a close button (X) in the top right corner. Below the title bar, there are two tabs: "1.Login Information" and "2.Device Information", with the second tab selected. The main area contains several input fields:

- Device Name:** A text input field with a red asterisk (*) indicating it is required.
- Type:** A dropdown menu currently showing "DVR".
- Device SN:** A text input field.
- Video Channel:** A text input field with a red asterisk (*) and the number "1" entered.
- Alarm Input Channel:** A text input field.
- Alarm Output Channel:** A text input field.

At the bottom of the dialog, there are three buttons: "Back", "Continue to add", and "OK".

Figure 20-3

Step 5. Enter device name, video channel and etc., select device type, click OK.

20.4 Create Video Wall

Step 1. In DSS Manager, click  next to Home, see Figure 20-4.

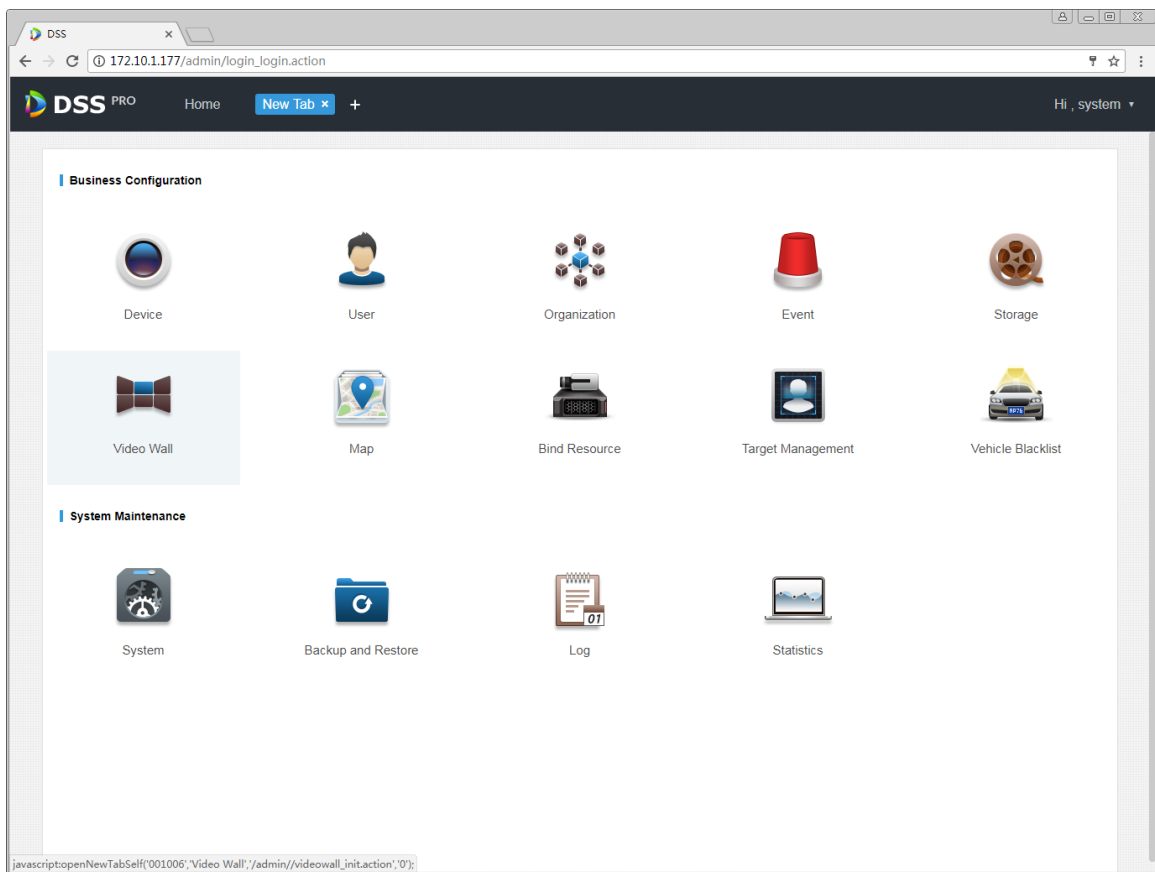


Figure 20-4

Step 2. Click Video Wall, see Figure 20-5.

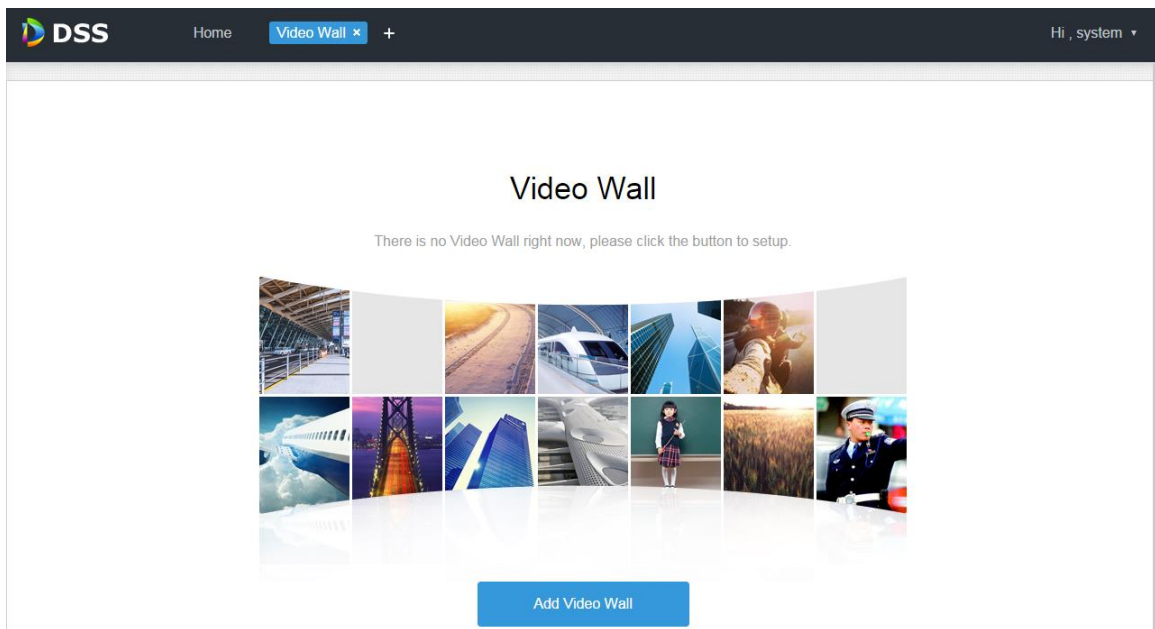


Figure 20-5

Step 3. Click Add Video Wall, see

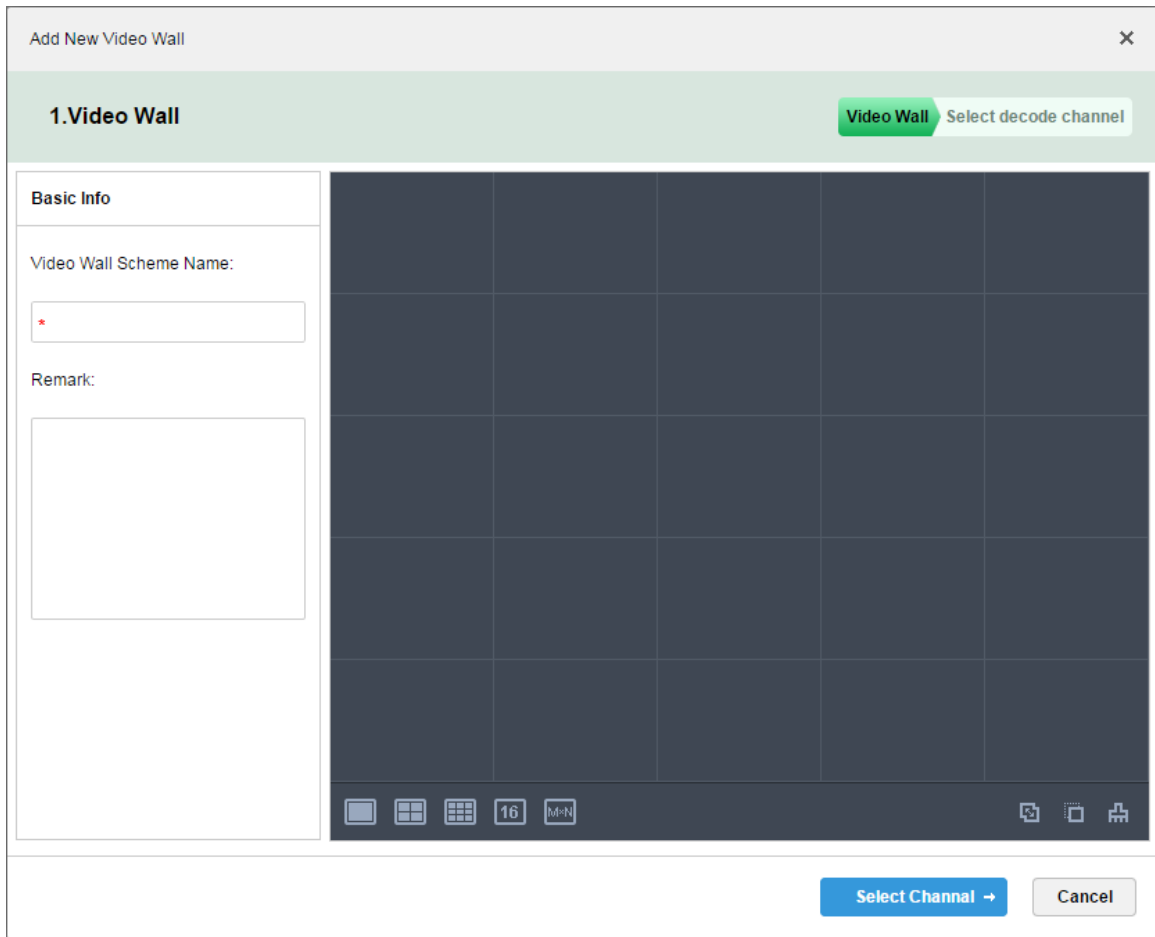


Figure 20-6

Step 4. Enter video wall name, select window layout, see Figure 20-7.

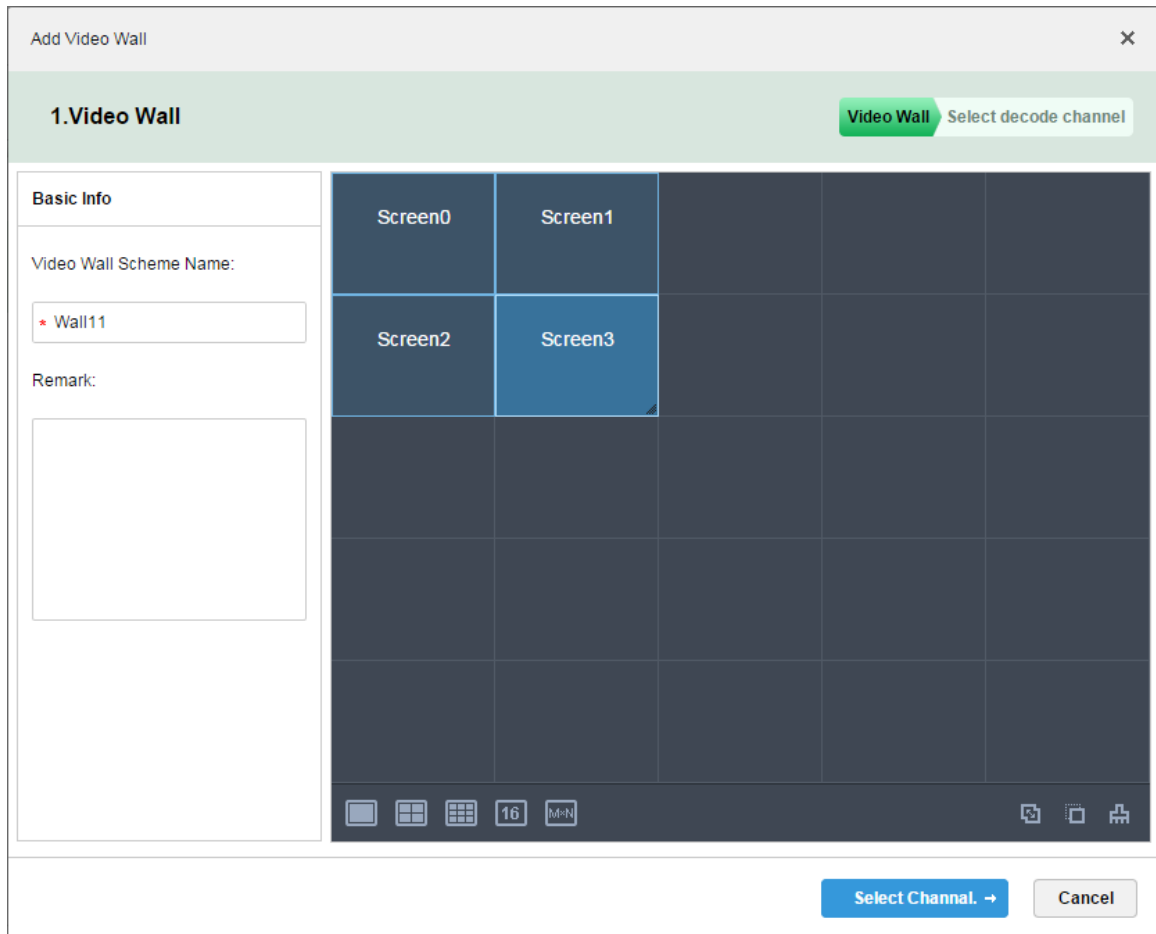


Figure 20-7

Step 5. Click Select Channel.

Step 6. In device tree, select decoder to bind, and drag it to corresponding video wall. See

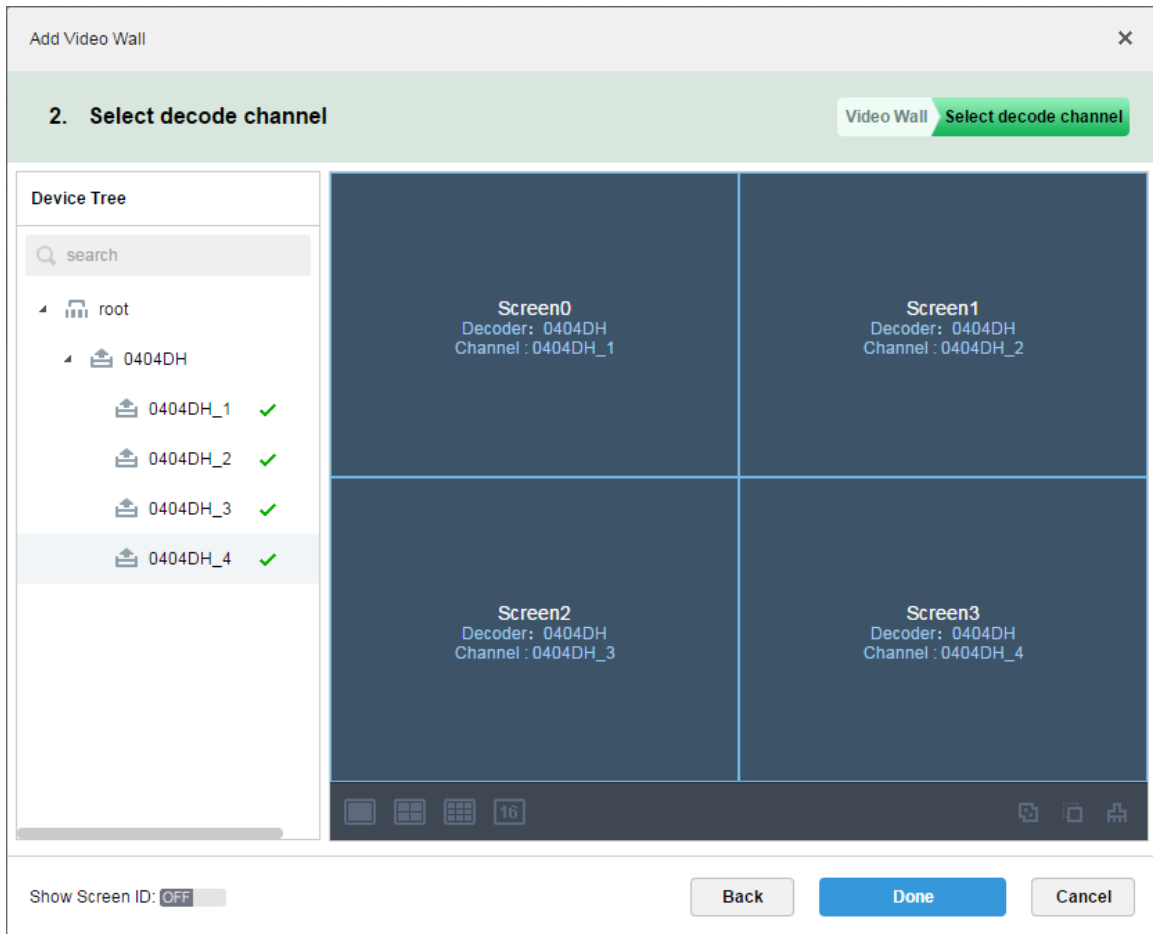



Figure 20-8

Step 7. Click Done.

20.5 Execution of TV Wall

Step 1. Login DSS Client.

Step 2. Click  next to Live, select TV Wall. See

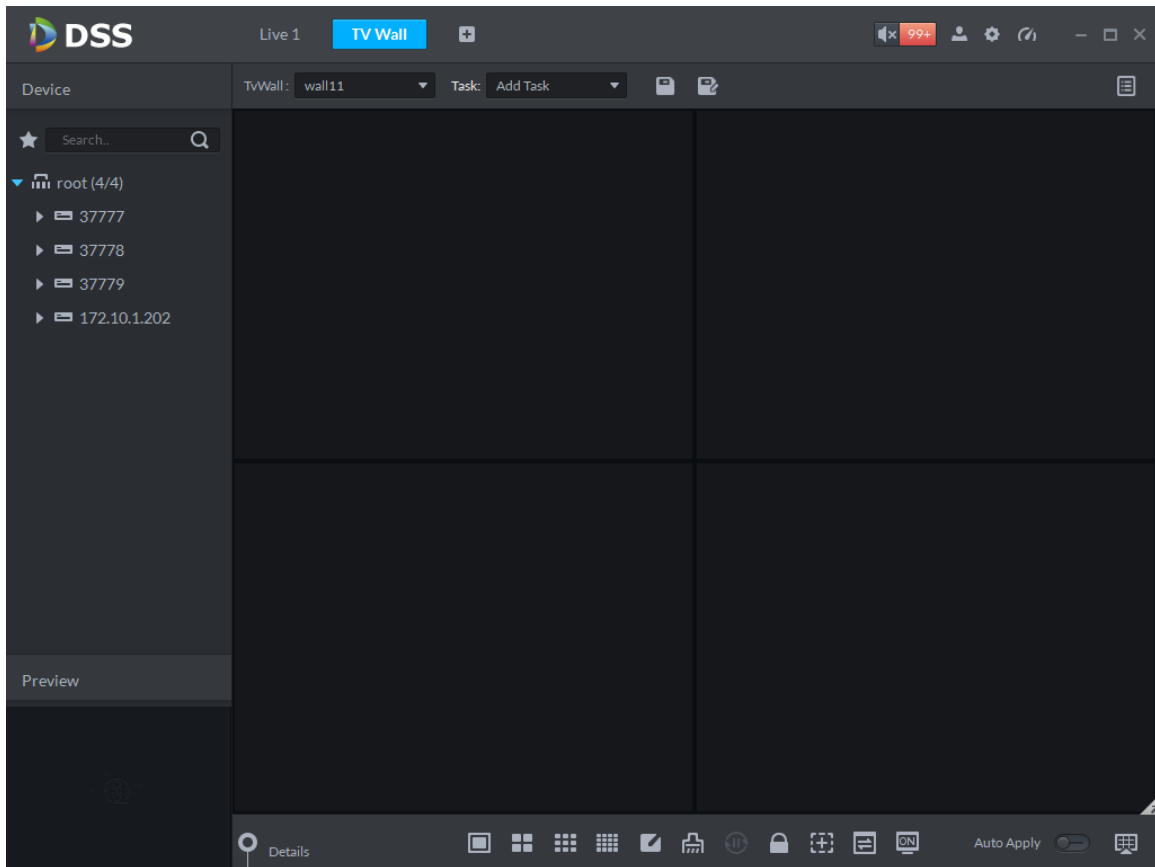


Figure 20-9

Step 3. Select TV wall, and drag channel on the left info TV wall window, see Figure 20-10.

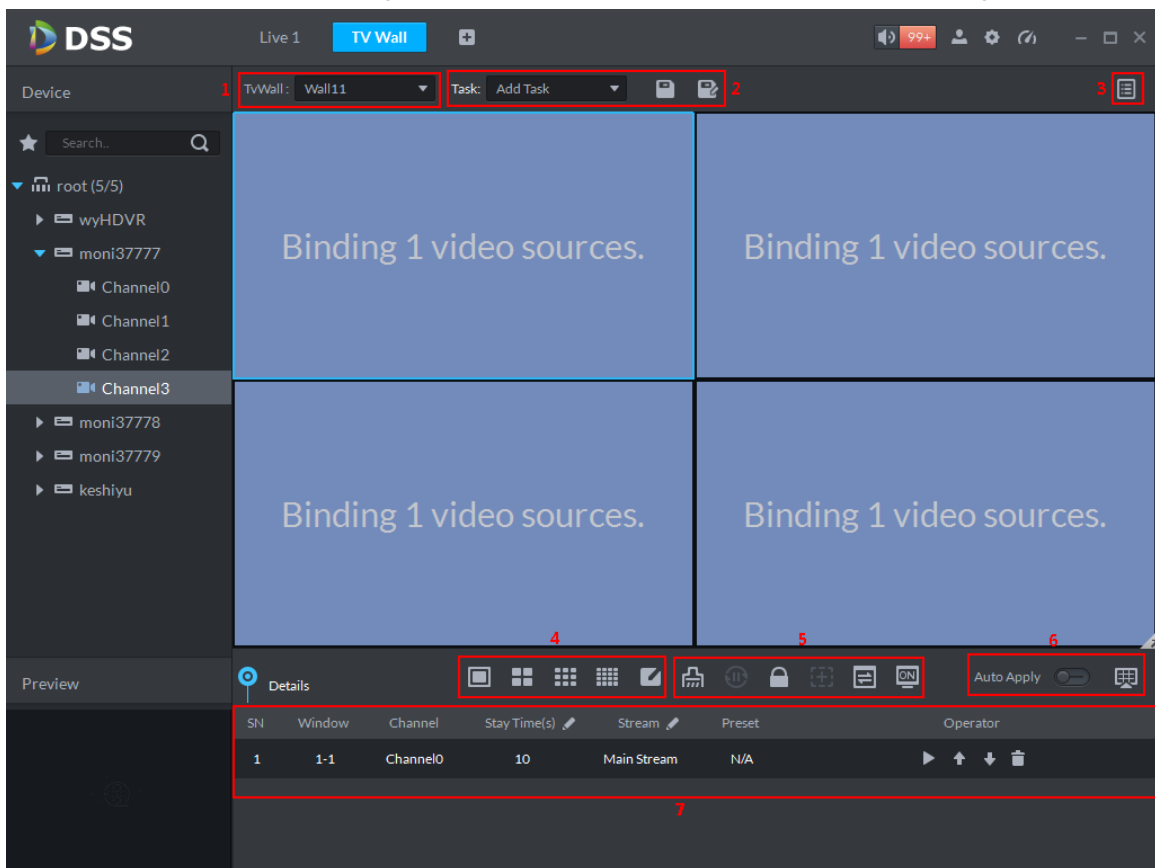










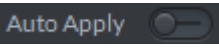



Figure 20-10

No.	Interface	Note
1	TV Wall Plan	Select TV wall in dropdown list.
2	Save Task	Save video wall task, and select saved task in dropdown list.
3	TV Wall Plan	<ul style="list-style-type: none"> : add timer plan. : add tour plan.
4	Window Split	<ul style="list-style-type: none"> : screen split. : custom screen split.
5	Advanced	<ul style="list-style-type: none"> : clear screen. : enable/disable tour plan. : lock window. : add frame. : display. : screen on/off.
6	Video Wall	<ul style="list-style-type: none"> : open, when you finish task setuo, it auto outputs task video to wall. : click to output to video wall.







7	Channel List	<p style="text-align: center;">Click  Details.</p> <p>Show screen, window, channel binding info.</p> <ul style="list-style-type: none"> ● Click , preview in Preview below, to view if you need channel. <li style="margin-left: 40px;">● Click , , to adjust sequence. ● Click , to delete added window signal source.
---	--------------	--


Chart 20-1

Step 4. Click . System pops up Save box.

Step 5. Enter task name, click OK.

20.6 Create Video Wall Plan

20.6.1 Timer Plan

Step 1. In TV Wall interface, click .

Step 2. Select .

Step 3. Enter plan name, select video task and set start time and end time, see Figure 20-11.

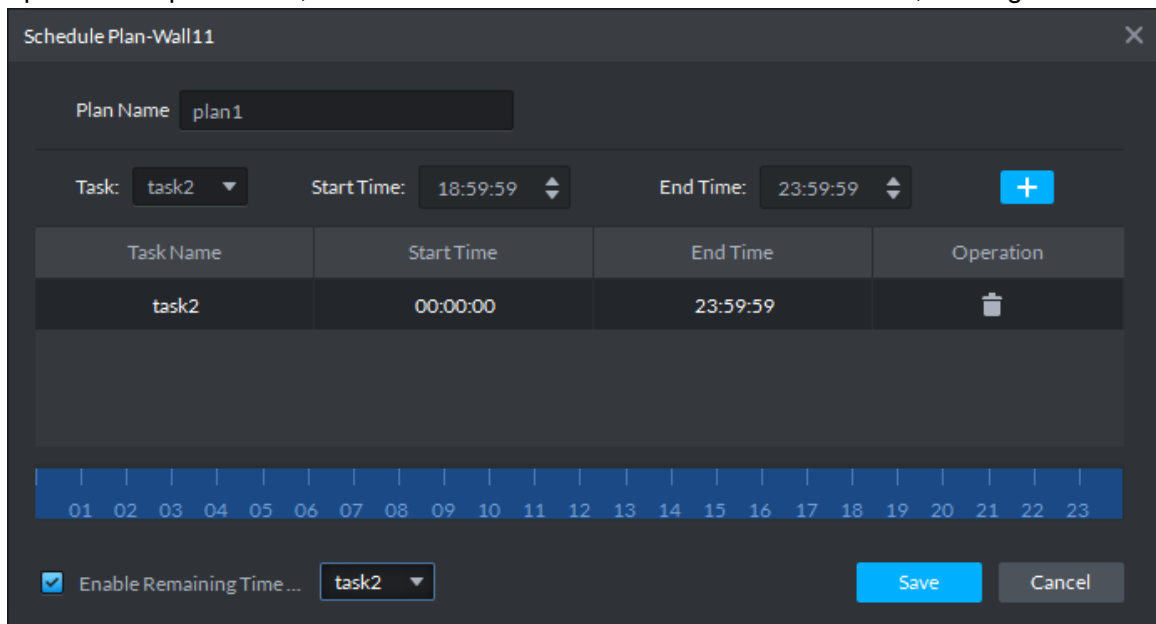


Figure 20-11

Step 4. Click Save.

If you select Enable remaining time plan, and set task, then it will shot other task during period out of this planned period.

20.6.2 Tour Plan

Step 1. Click , and select .

Step 2. Enter plan name, select video task, and set stay time, see Figure 20-12.

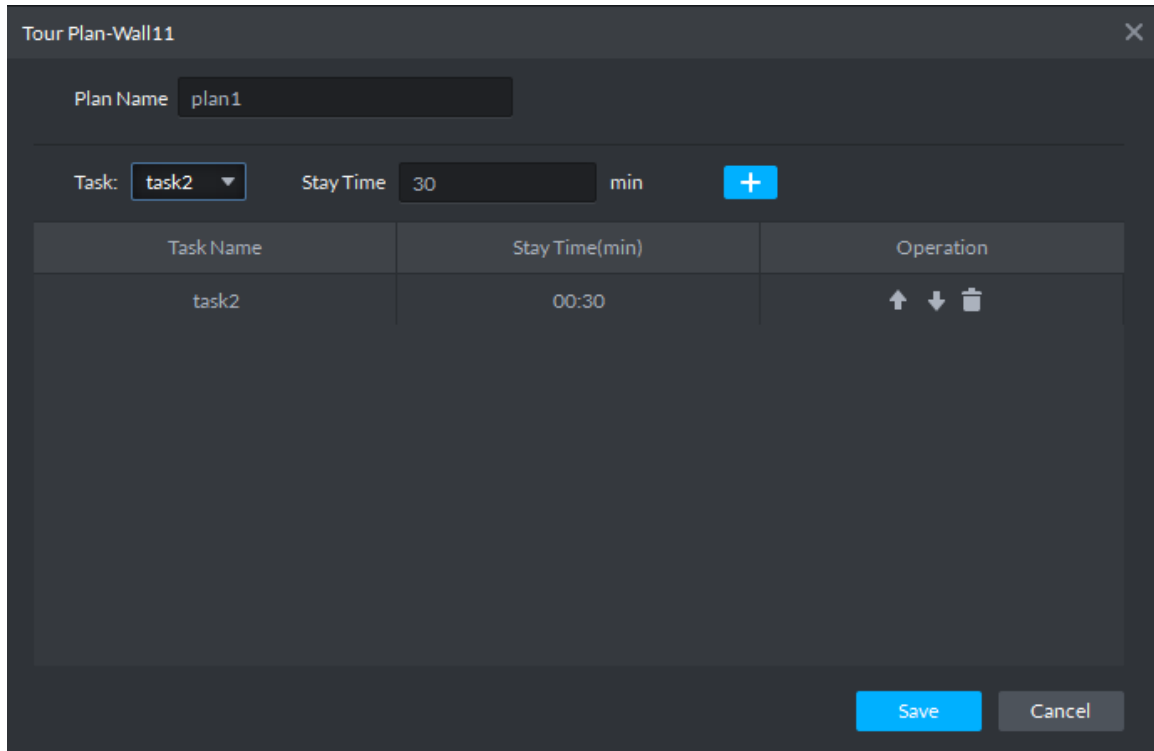


Figure 20-12

Step 3. Click Save.

20.7 Execution of TV Wall

After you successfully add plan, see Figure 20-13.

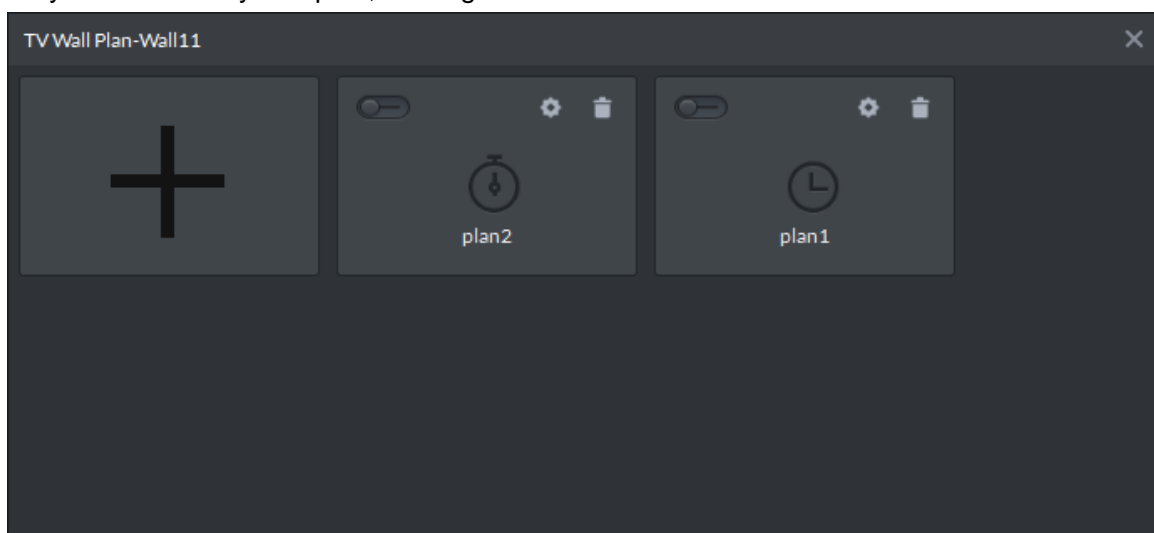
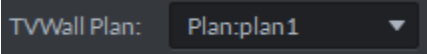



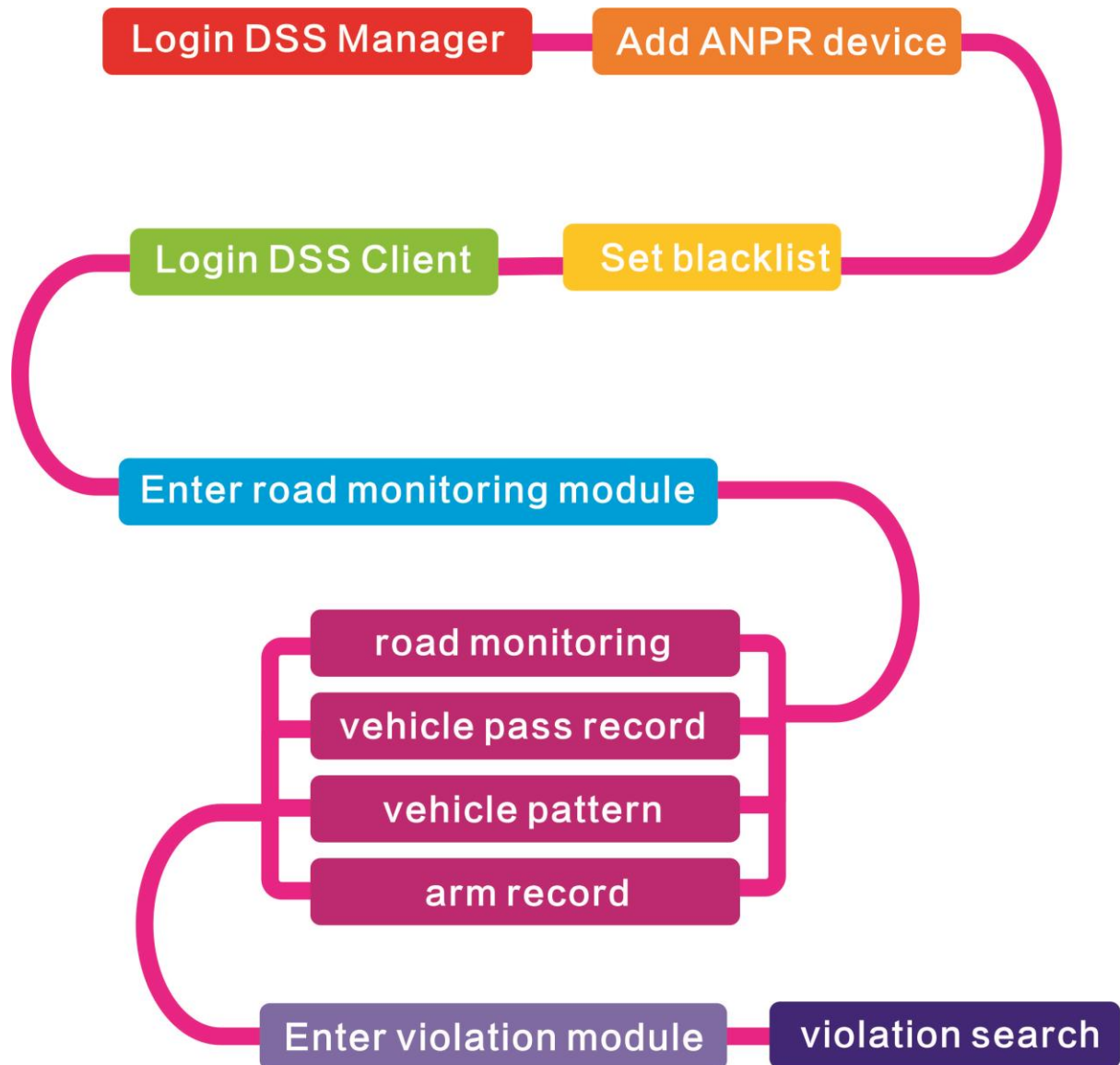
Figure 20-13

Click , open button, to execute plan.

Or you can select plan from dropdown list , click  to execute.

21ITC

21.1 Business Flow



21.2 Add ANPR Device

Step 1. Login DSS Manager, enter device module, in Figure 21-1 click  Add .

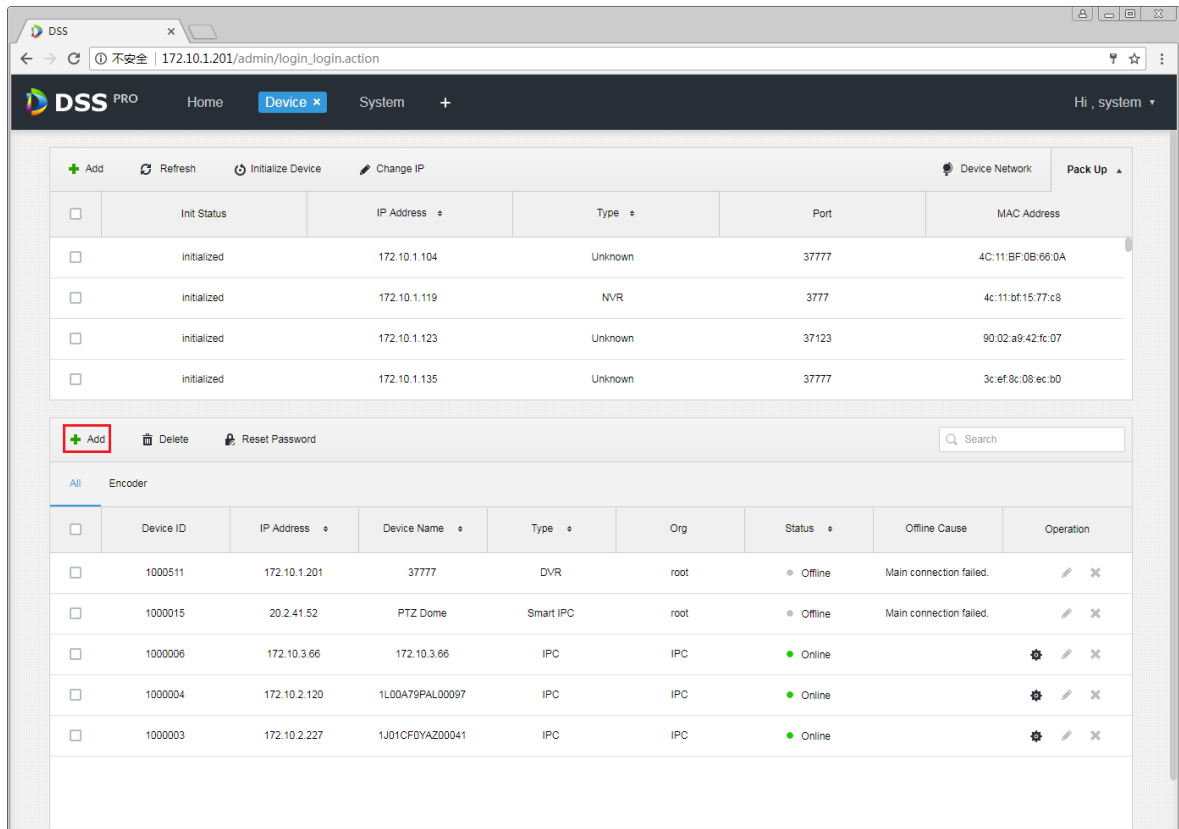


Figure 21-1

Step 2. Enter Add Device interface, in device type select “ANPR Device”, fill in ANPR device IP, port, username and password. Select device organization, video server, and picture server. Be careful, ANPR device has one more option as picture server. Please select according to actual deployment, See Figure 21-2.

Add ×

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

Picture Server:

Figure 21-2

Step 3. In Figure 21-3, enter ANPR device name, select corresponding device type, device model, organization, enter device SN and channel number, click OK. Device model includes: Dahua intelligent analytics box, Dahual ITC, and Dahua speed measurement Device.

Add ✕

2. Device Information. 1.Login Information 2.Device Information

Device Name: *

Type: ANPR Device ▼

Device Model: ▼

Device SN:

Role:

Video Channel: * 1

Figure 21-3

Step 4. After you add, in device list you can see device status. See Figure 21-4.

+ Add 🗑 Delete 🔑 Reset Password 🔍 Search										
All Encoder Decoder ANPR Device Matrix										
<input type="checkbox"/>	Device ID	IP/Domain	Video Server	Picture Server	Device Name	Type	Org	Status	Offline Cause	Operation
<input type="checkbox"/>	1000036	12.13.34.56	Center Server	Center Server	test2	ANPR Device	kakou	● Offline	Main connection fail...	✎ ✕
<input type="checkbox"/>	1000055	10.33.10.44	Center Server	Center Server	333	ANPR Device	root	● Online		✎ ✕
<input type="checkbox"/>	1000054	172.10.1.180	Center Server	Center Server	180 ltc	ANPR Device	kakou	● Online		✎ ✕
<input type="checkbox"/>	1000027	172.10.1.98	Center Server	Center Server	kakou 98	ANPR Device	kakou	● Online		✎ ✕

Total 4 record(s). ⏪ 1 ⏩ Go to page 1 Go

Figure 21-4

21.3 Vehicle Blacklist

Step 1. Login DSS Manager, open new tab, select Vehicle Blacklist module. See Figure 21-5.

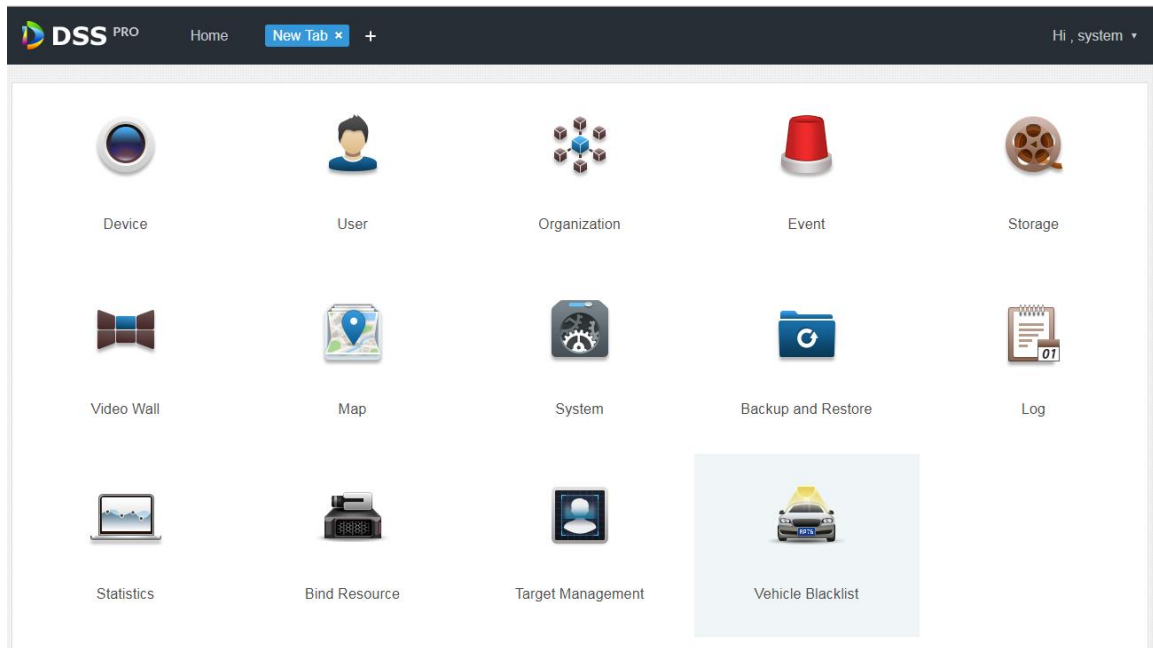


Figure 21-5

Step 2. Enter vehicle blacklist module, in Figure 21-6 click + Add to add blacklist info.

DSS PRO Home Vehicle Blacklist x + Hi, system

+ Add Delete Arm Disarm Import Export Select Export All Search

<input type="checkbox"/>	Plate No.	Arm Type	Start Time	End Time	Arm Status	Armed Person	Operate
<input type="checkbox"/>	A232TI	Suspicious Vehicle	2017-07-04 00:00:00	2017-07-22 17:00:00	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	DLBEW39	Check	2017-07-04 00:00:00	2017-07-14 17:00:00	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	SAK384	Theft Vehicle	2017-07-04 00:00:00	2017-07-13 17:00:00	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	BE944WJ	Over Speed Vehicle	2017-07-04 00:00:00	2017-07-14 17:00:00	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	TM03NRD	Accident Vehicle	2017-07-04 00:00:00	2017-07-05 17:00:00	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	AVV907	Over Speed Vehicle	2017-04-30 00:01:25	2017-07-31 00:01:25	Arming	system	<input type="checkbox"/> ON
<input type="checkbox"/>	AVV906	Over Speed Vehicle	2017-04-30 00:01:24	2017-07-31 00:00:00	Disarm	system	<input type="checkbox"/> OFF
<input type="checkbox"/>	AVV905	Over Speed Vehicle	2017-04-30 00:01:23	2017-05-30 00:01:23	Expired	system	
<input type="checkbox"/>	AVV904	Over Speed Vehicle	2017-04-30 00:01:22	2017-05-30 00:01:22	Expired	system	
<input type="checkbox"/>	AVV903	Over Speed Vehicle	2017-04-30 00:01:21	2017-05-30 00:01:21	Expired	system	
<input type="checkbox"/>	AVV902	Over Speed Vehicle	2017-04-30 00:01:20	2017-05-30 00:01:20	Expired	system	
<input type="checkbox"/>	AVV901	Over Speed Vehicle	2017-04-30 00:01:19	2017-05-30 00:01:19	Expired	system	
<input type="checkbox"/>	AVV900	Over Speed Vehicle	2017-04-30 00:01:18	2017-05-30 00:01:18	Expired	system	
<input type="checkbox"/>	AVV899	Over Speed Vehicle	2017-04-30 00:01:17	2017-05-30 00:01:17	Expired	system	
<input type="checkbox"/>	AVV898	Over Speed Vehicle	2017-04-30 00:01:16	2017-05-30 00:01:16	Expired	system	


Total 718 record(s). 1 2 3 4 5 ... 48 Go to page 1 Go


Figure 21-6

Step 3. Figure 21-7, enter plate no., start time, end time, vehicle type, plate color, vehicle brand and arm type, click OK.

Add ✕

Plate No.: *

Start Time: * 

End Time: * 

Vehicle Type: ▼

Plate Color: ▼

Vehicle Brand: ▼

Vehicle Color: ▼

Arm Type: ▼

Figure 21-7

Step 4. Arm type is in Figure 21-8.

- Over Speed Vehicle
- Theft Vehicle
- Accident Vehicle
- Suspicious Vehicle
- Intercept Vehicle
- Check
- Track
- High-risk Vehicle

Figure 21-8

21.4 Road Monitoring Application

21.4.1 Default Display

Step 1. Login Client and open new tab, click “ANPR” module to enter road monitoring. See Figure 21-9.

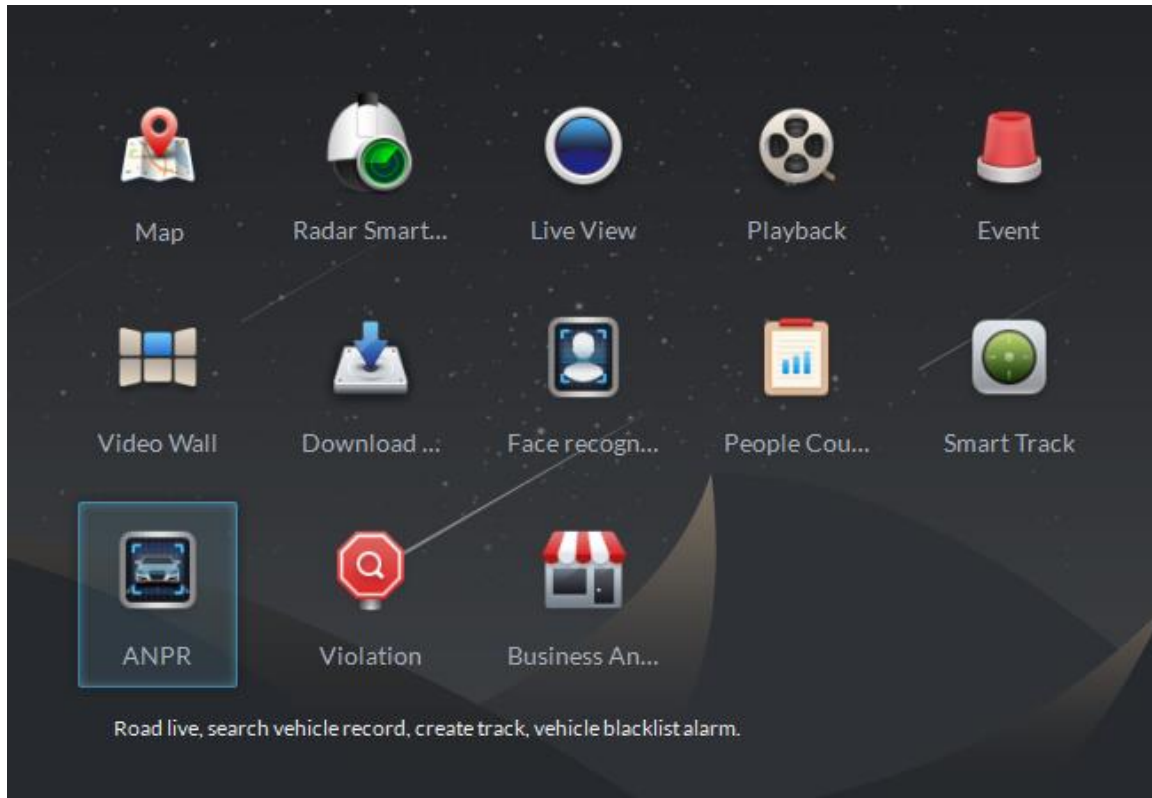


Figure 21-9

Step 2. In Figure 21-10, select tab and enter road monitoring application, it shows E-map in a single window by default, you can manually switch number of window.

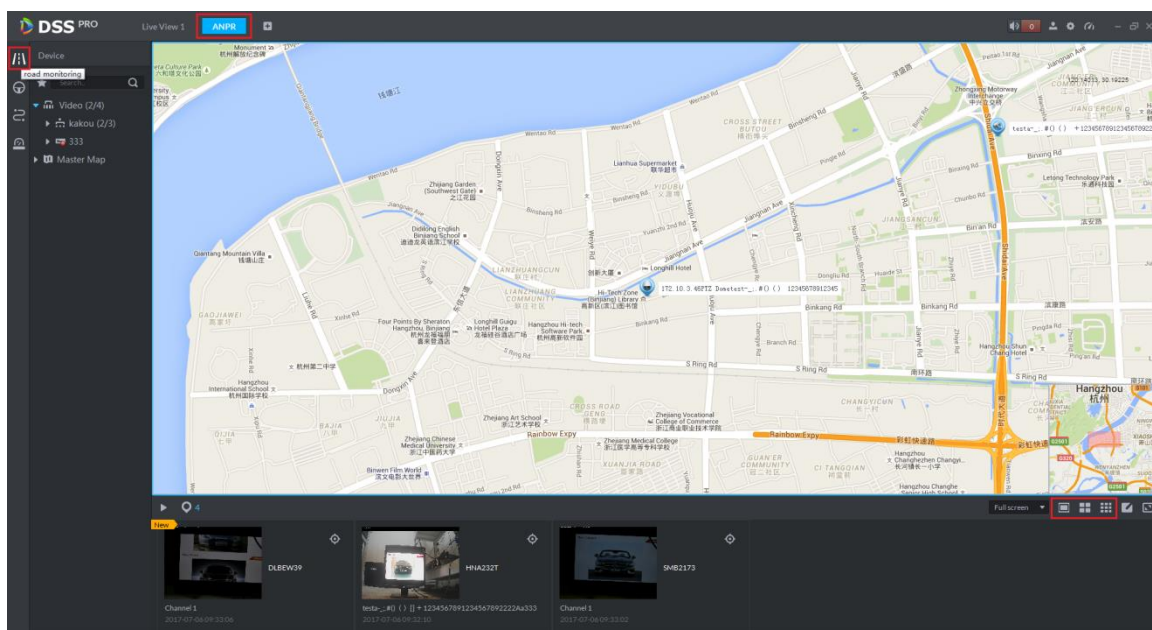


Figure 21-10

21.4.2 Passed Vehicle Picture Browse

Step 1. In Figure 21-11 interface, click  button to select ANPR channel.

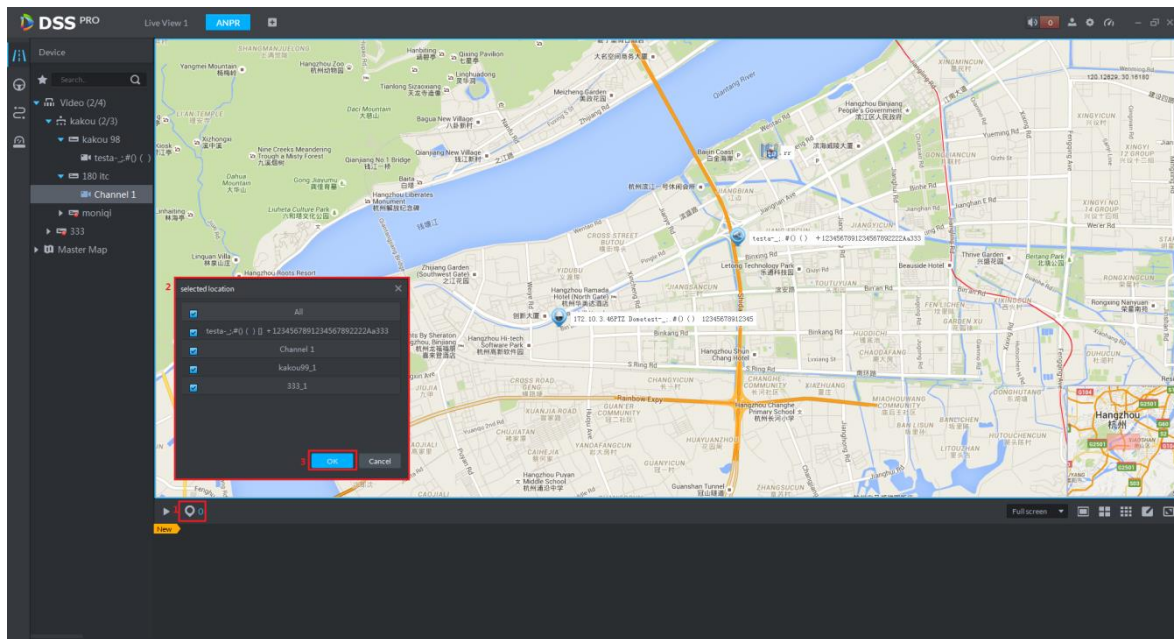




Figure 21-11

Step 2. View passed vehicle picture, see Figure 21-12.  means selected number of device. Click  button to stop refresh. Double click picture to view details.

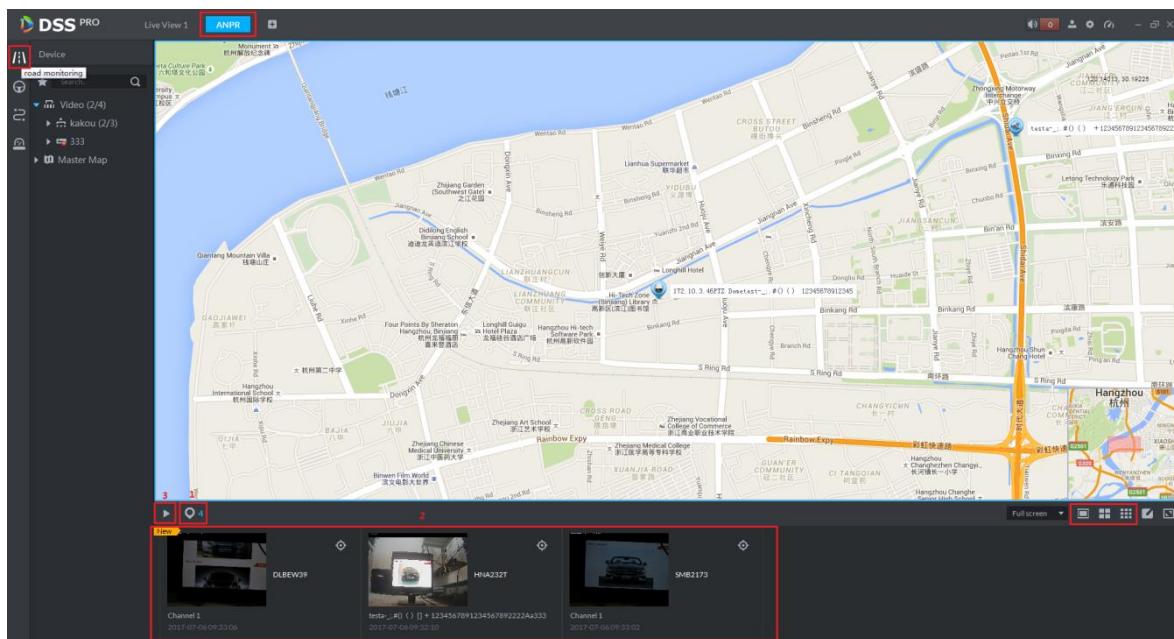


Figure 21-12

21.4.3 Video/Picture Preview

Step 1. Switch to four windows. Double click one ANPR channel of video on device tree. In the opened video window, right click and you can switch to picture preview mode.

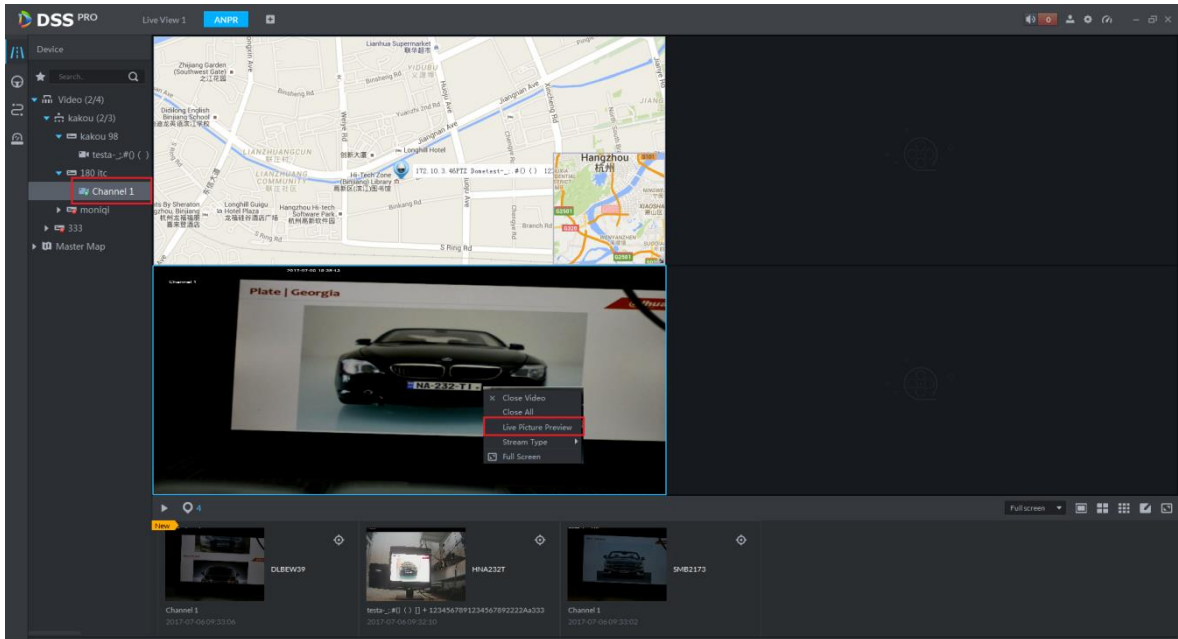




Figure 21-13

21.5 ANPR

Step 1. Enter ANPR module, see Figure 21-14. Select  icon to enter ANPR app. First select ANPR device and channel (multiple choice), and select criteria of search, including: period, plate no., plate color, vehicle manufacturer, brand logo, vehicle color, vehicle speed and etc. Click  button to search.

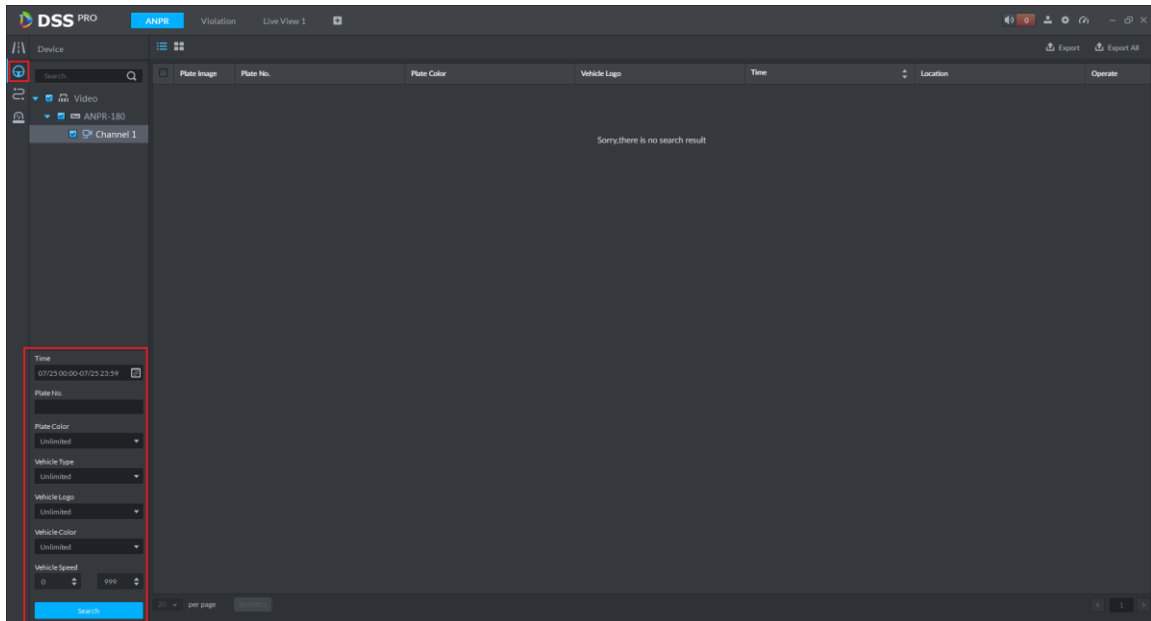
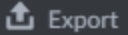
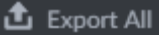



Figure 21-14

Step 2. See Figure 21-15 for result. Click  or  button to export record, click  to view total records.

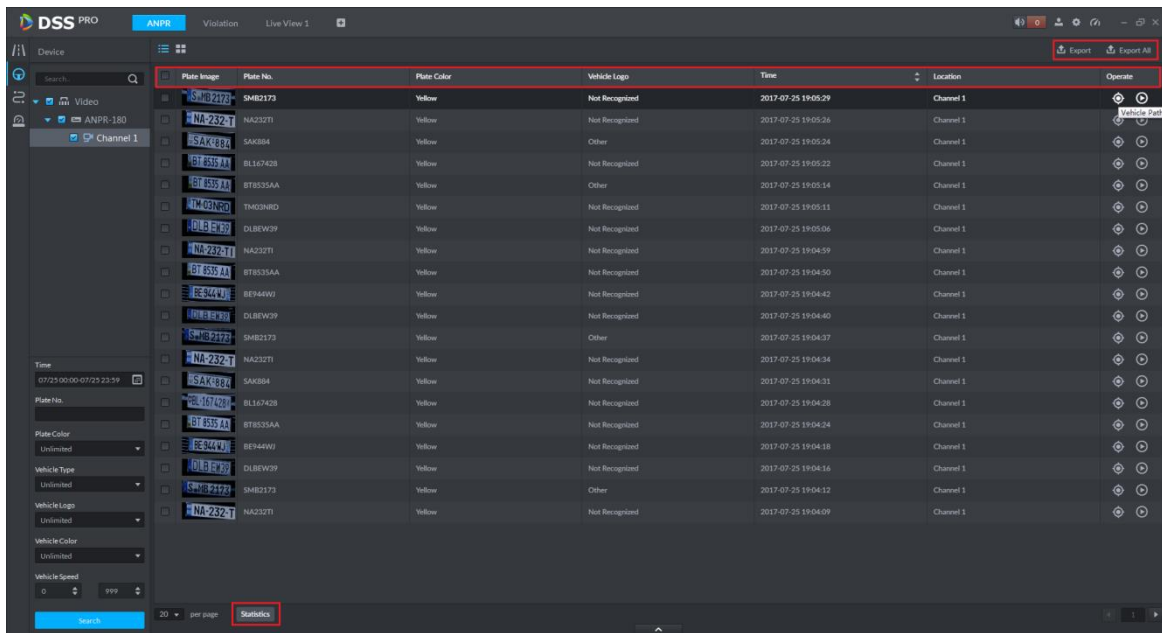


Figure 21-15

Step 3. Click button to view record info of this record.

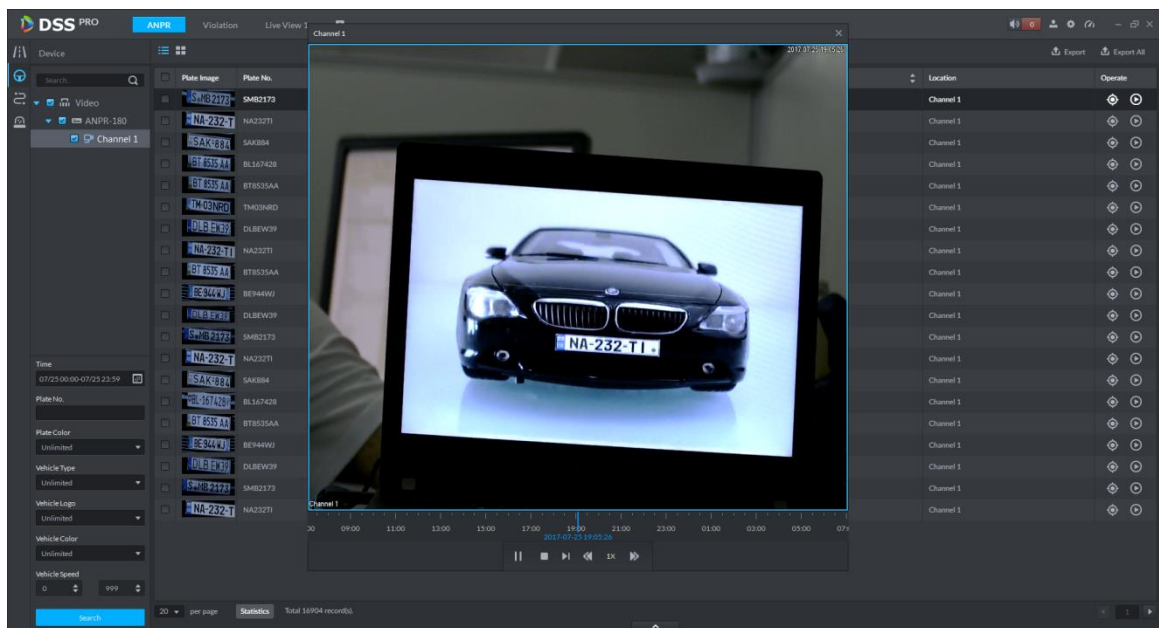


Figure 21-16

Step 4. Click button to search vehicle pattern, see Figure 21-17. It will auto search all passed vehicle records of this vehicle. It will show all time on time axis, and you click vehicle pattern on e-map which connects ANPR device where vehicle passed.

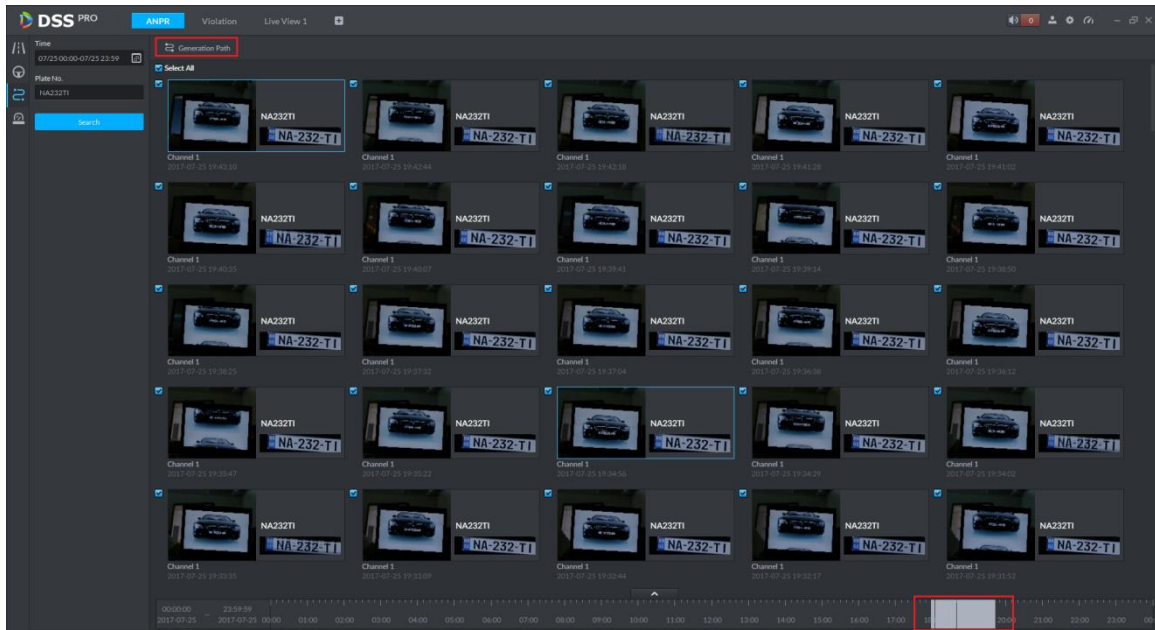


Figure 21-17

Step 5. See Figure 21-18.

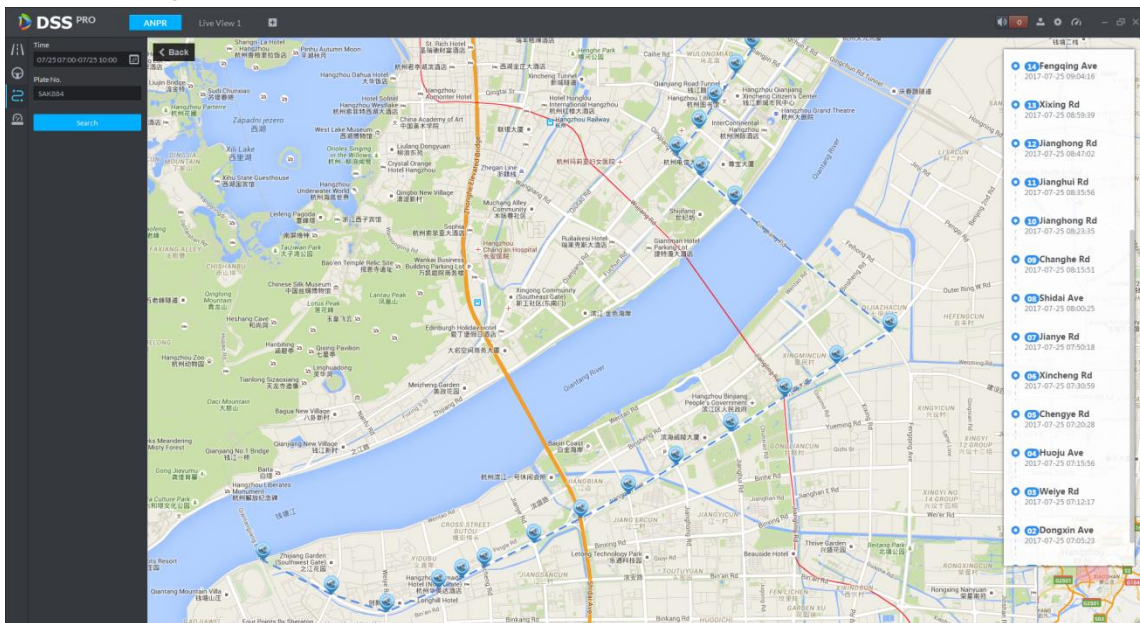



Figure 21-18

21.6 Vehicle Pattern

Enter road monitoring module, see Figure 21-19. Select  icon to enter vehicle pattern app, select period, enter plate no., click **Search** button to search vehicle pattern. See Ch 21.5 step 4-5.

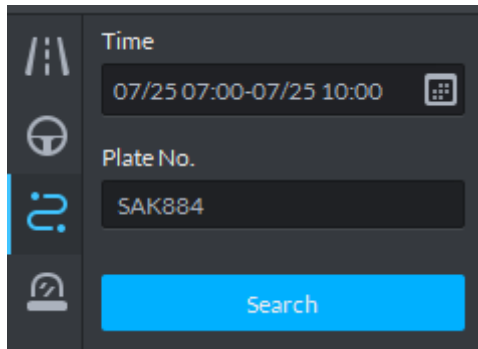




Figure 21-19

21.7 Arm Record

Arm record is the record of vehicle on blacklist.

Step 1. Enter road monitoring module, See Figure 21-20, select  icon to enter passed vehicle record app. First select ANPR device and channel (multiple choices), and select search criteria, including: period, plate no., plate color, vehicle manufacturer, brand logo, vehicle color, vehicle speed and etc. Click  button to search.

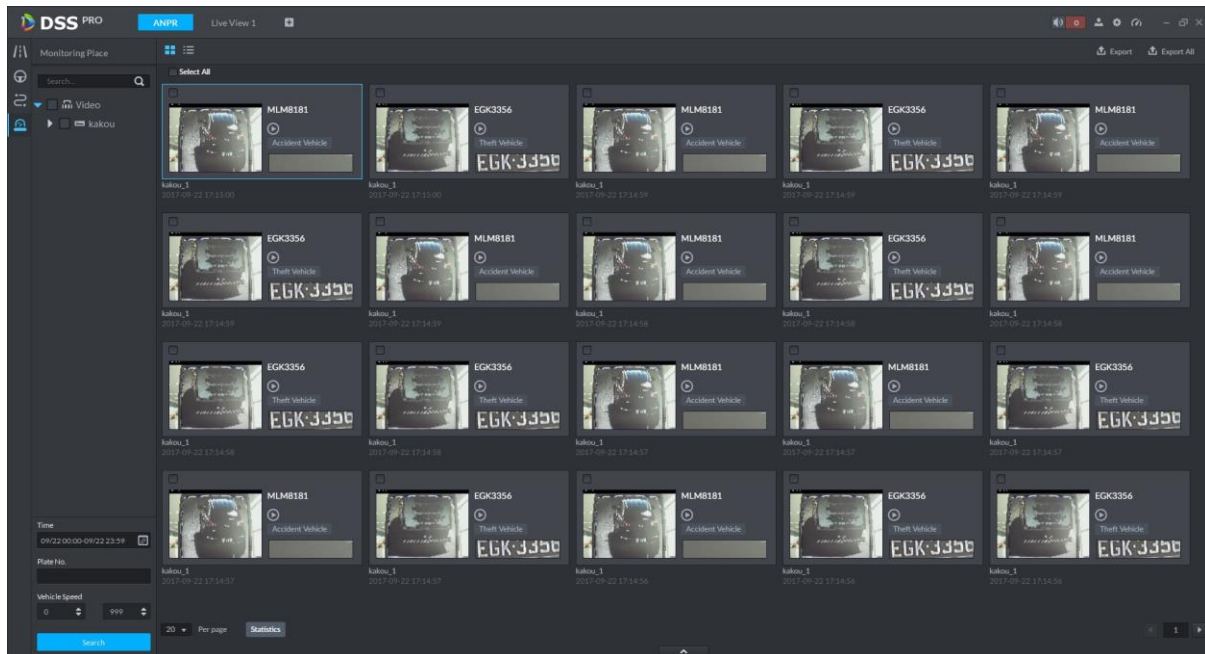


Figure 21-20

21.8 Violation Search

Step 1. Log in DSS Client, open a new tab, click “Violation” module to enter violation search application. See Figure 21-21.



Figure 21-21

Step 2. Enter Violation module, see Figure 21-22. Select start time and end time you want to search, enter plate no. (optional), click **Search** button to start.

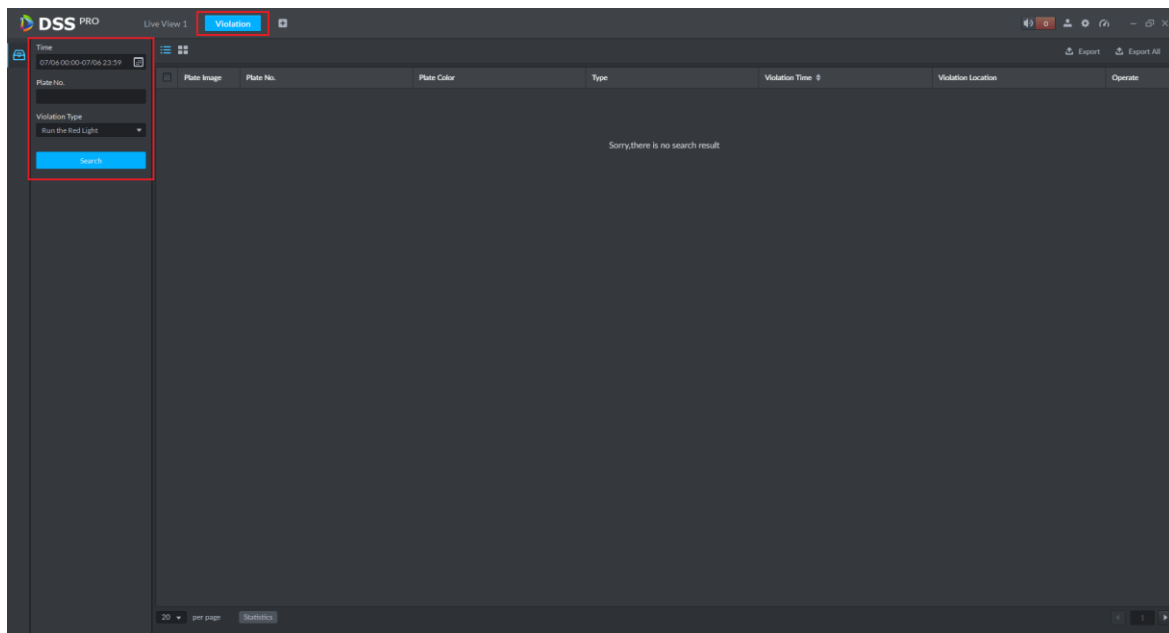


Figure 21-22

Step 3. Search result is in Figure 21-23. You can switch display in list and icon.

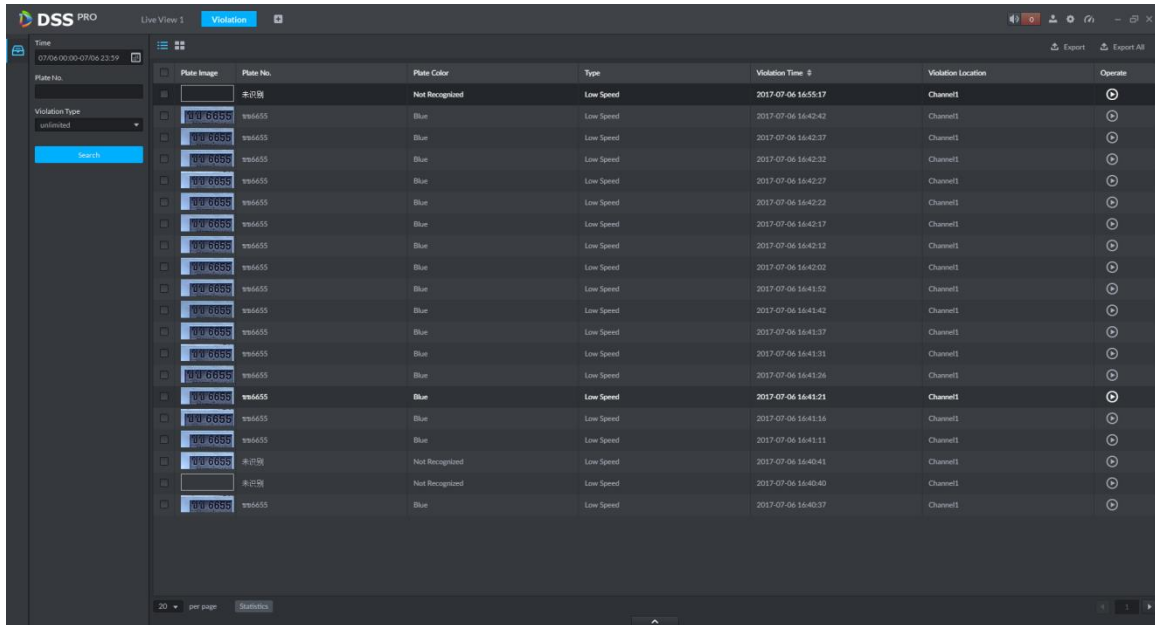



Figure 21-23

Step 4. Click  button to view record info of this record, see Figure 21-24.

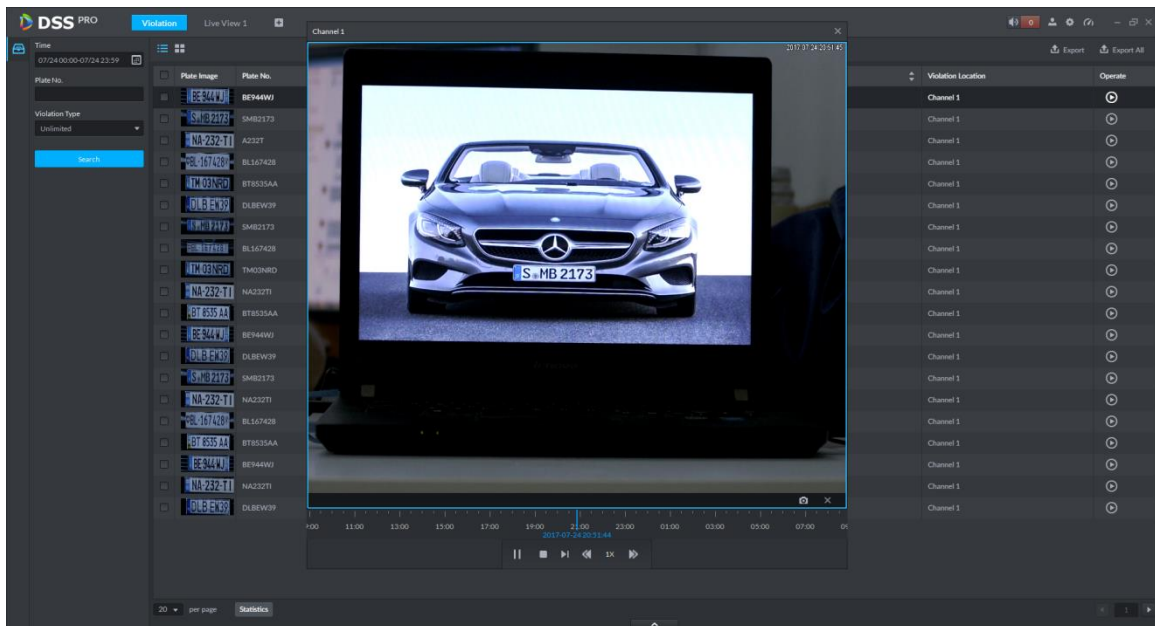




Figure 21-24

Note:

- You must add record storage disk first, and set alarm link plan in Manager before you playback record.
- Ensure that PC time zone and time match with server.

Step 5. Export search list. You can export selected result or all searched info. Click  **Export**  **Export All** to export.

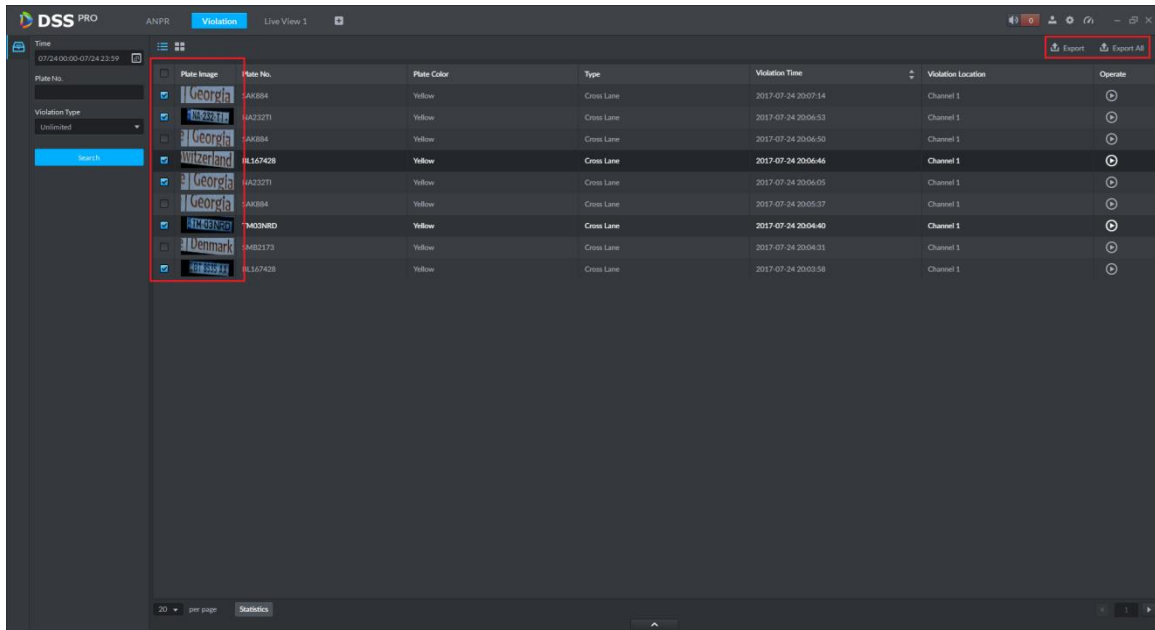


Figure 21-25

Step 6. Successfully exported, and you can see prompt as bellow.

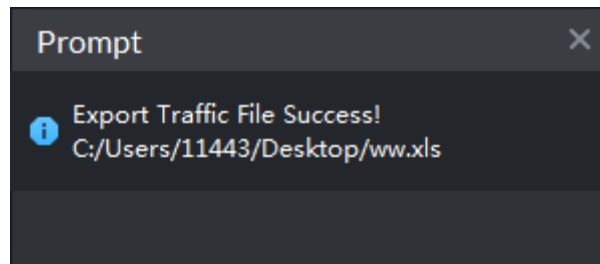
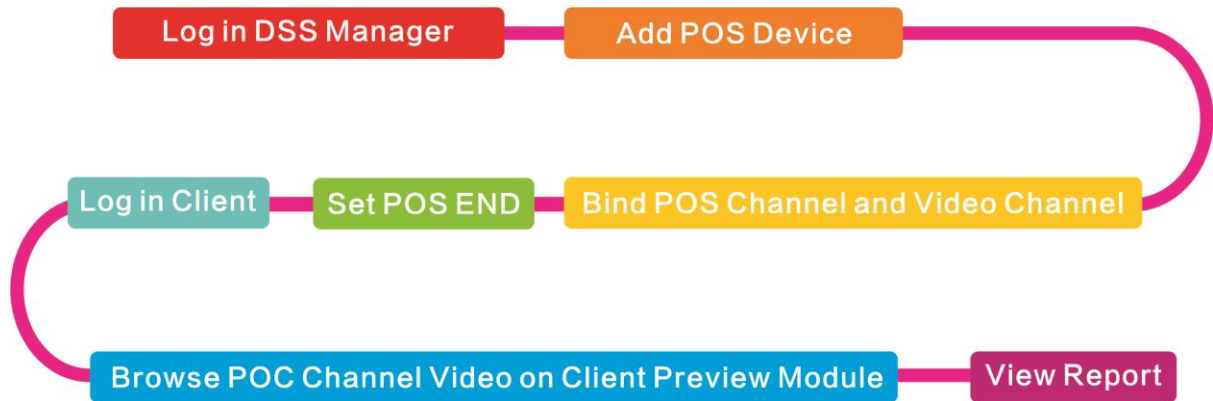


Figure 21-26

22 POS

22.1 POS Business Flow



22.2 Add POS Device

Step 1. Log in DSS Manager, enter Device module, in Figure 22-1. Click **+ Add** button to enter Add interface.

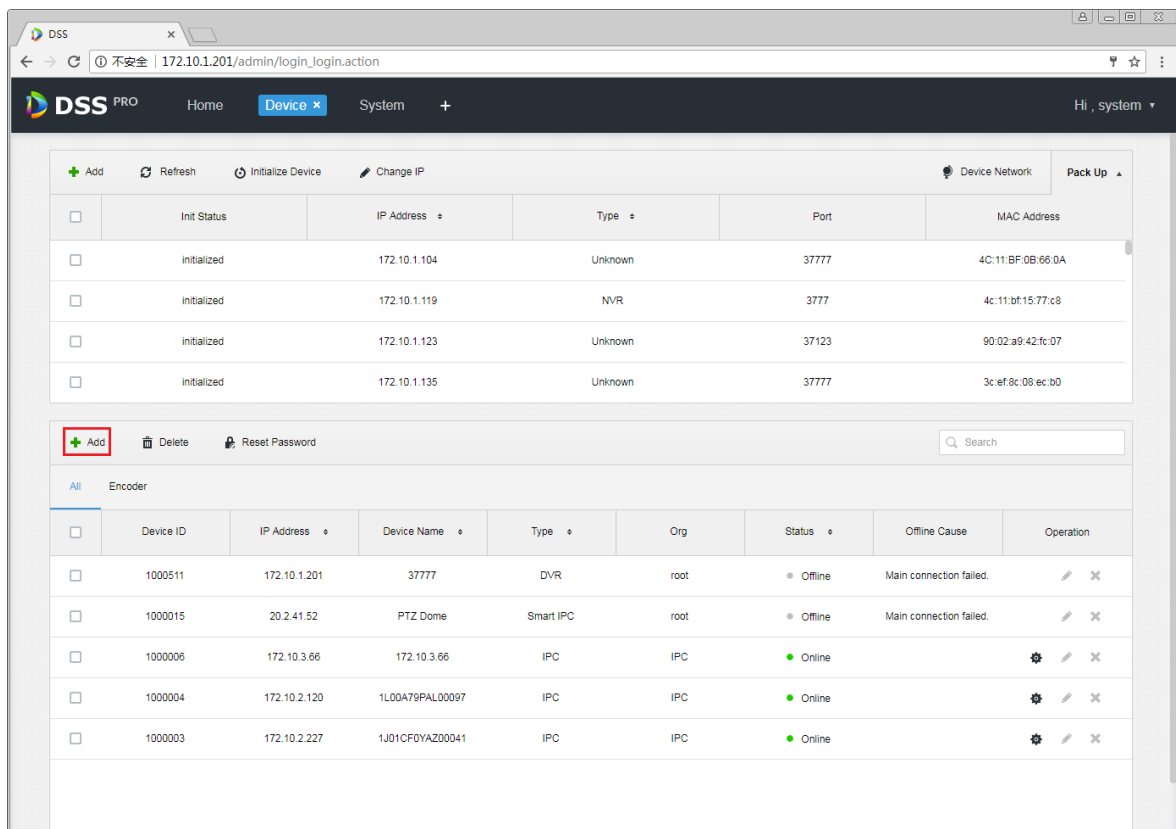


Figure 22-1

Step 2. In Figure 22-2, device category is “POS”, enter IP address, port, username and password of POS device, select device organization and server. Click **Add** to go to next step.

Add ×

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

Figure 22-2

Step 3. In Figure 22-3, enter POS device name, select role, click OK.

Add All ×

2. Device Information. 1.Login Information 2.Device Information

Device Name: * POS-1

Device SN:

Role: Administrator,Operator

Figure 22-3

Step 4. When you complete, in device list you can see device status as in Figure 22-4.

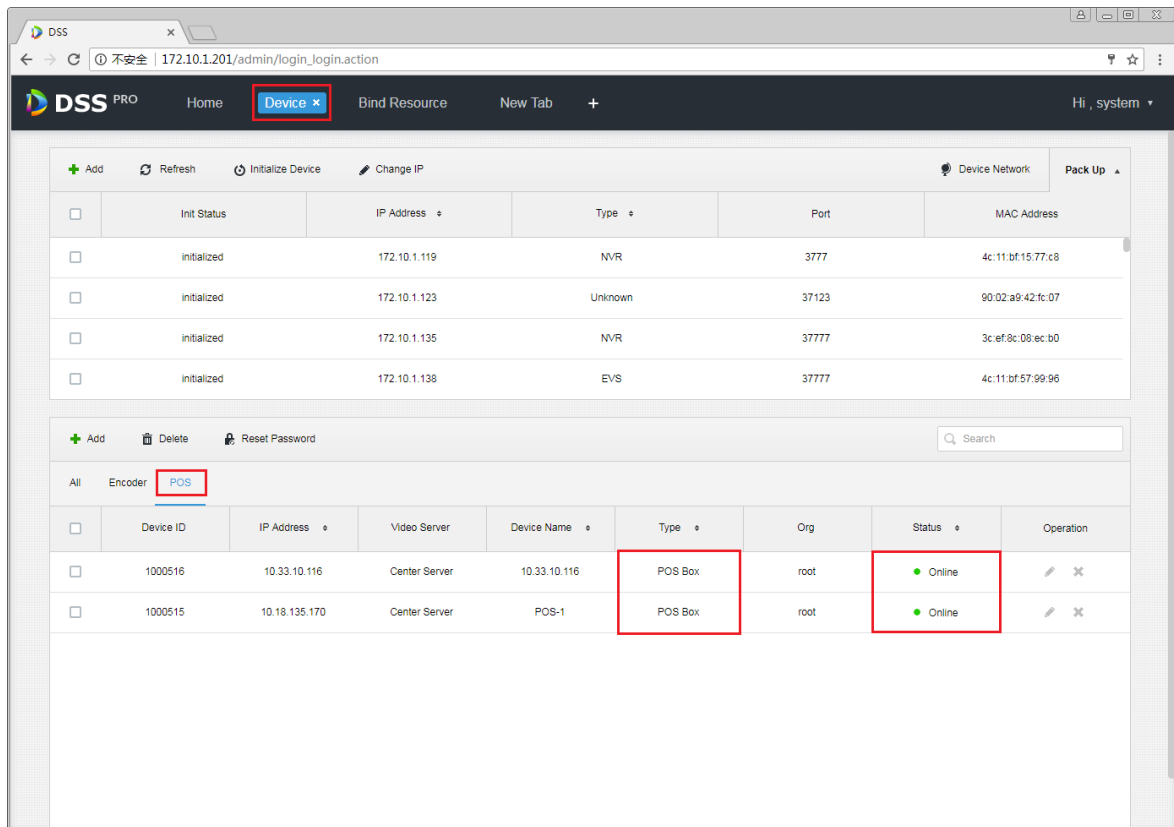


Figure 22-4

22.3 Bind POS and Video Channel

One POS device can bind up to 16 video channels. After binding, you can show POS printing info in corresponding video channel.

Step 1. Login DSS Manager, open new tab, in the figure select Bind Resource module. See Figure 22-5.

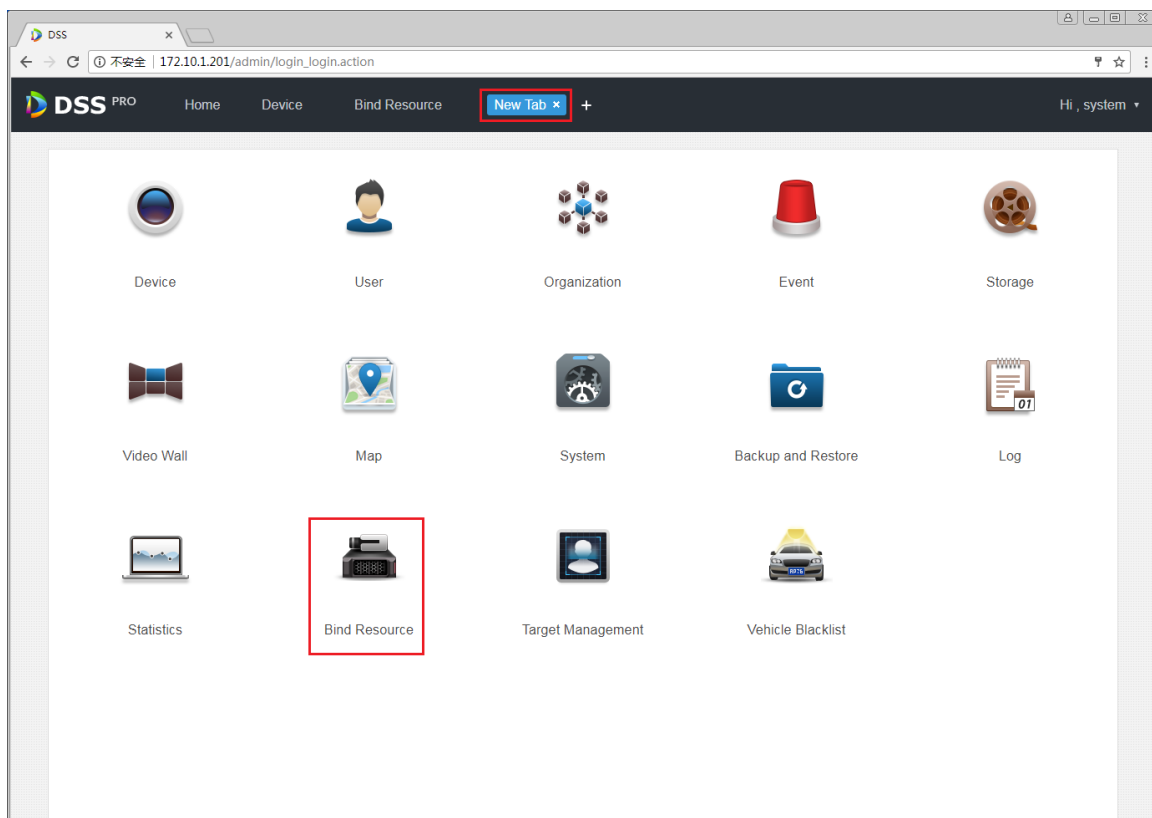


Figure 22-5

Step 2. Enter Bind Resource Module, and in Figure 22-6, select **POS Relation** tab, click **Setting** button to set binding.

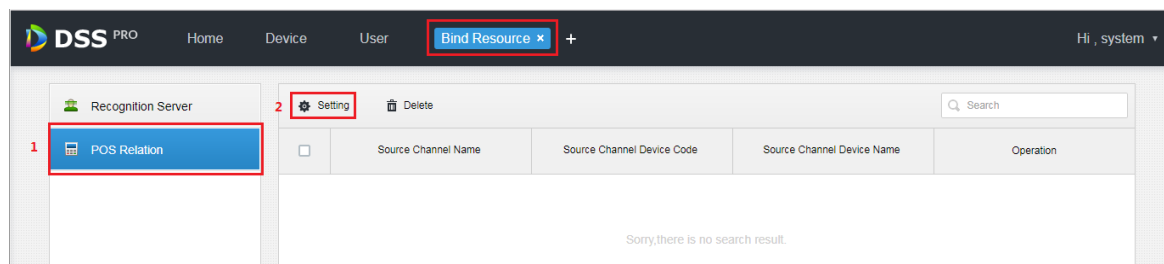


Figure 22-6

Step 3. In the figure, you can set binding, and select POS channel. Select video channel (max 16 channels), click OK to save.

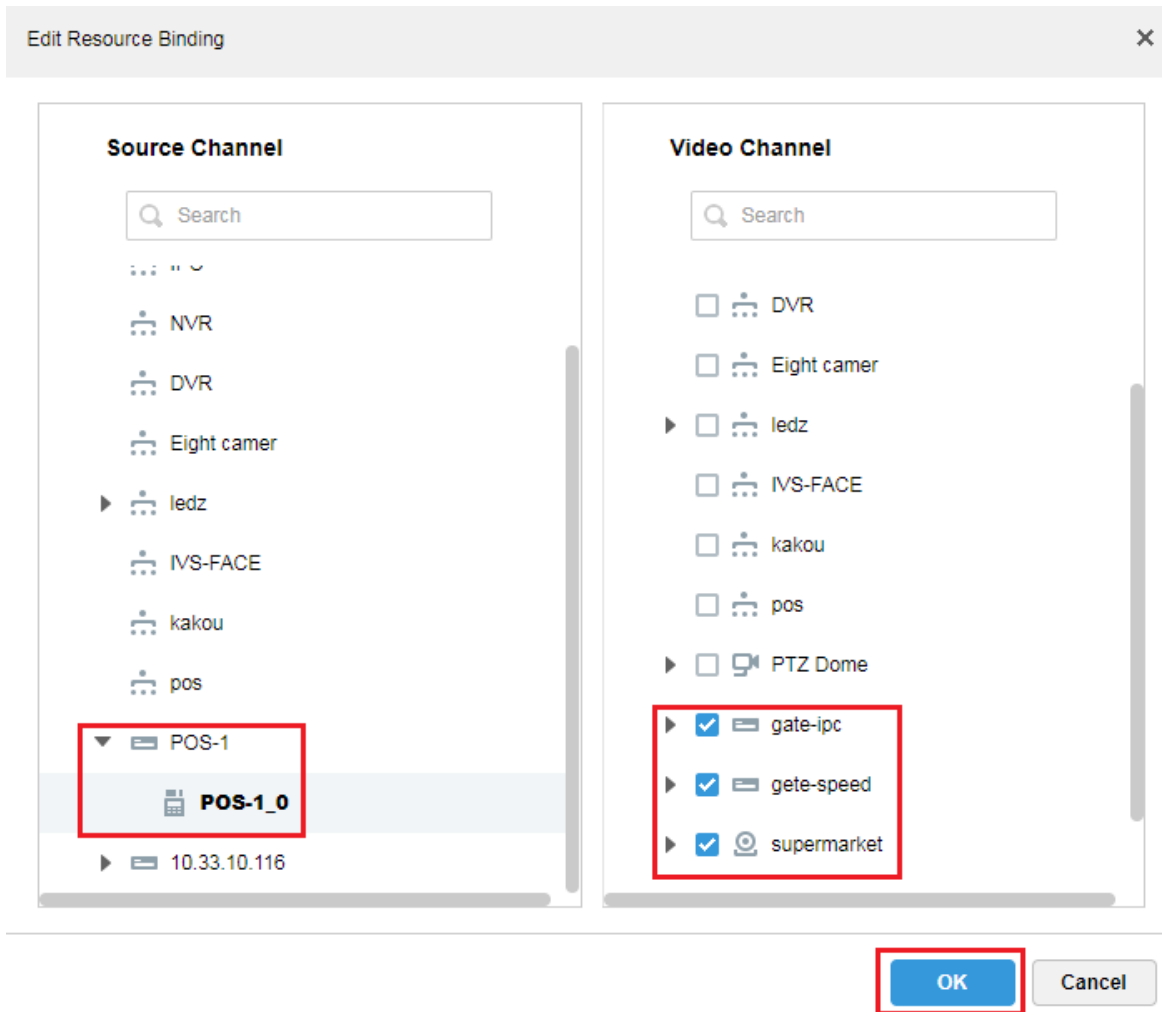




Figure 22-7

Step 4. In Figure 22-8, you can view created POS binding list, click  to edit this rule. Click  to delete this rule.

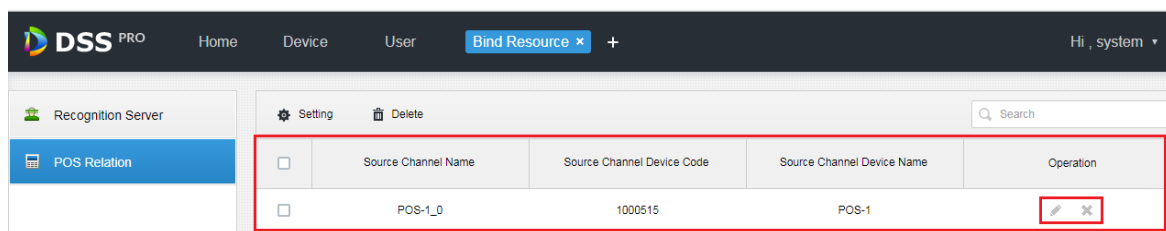



Figure 22-8

22.4 Set POS END

Step 1. In DSS Manager, enter system setup module, select  tab, set POS END info, click Save button.

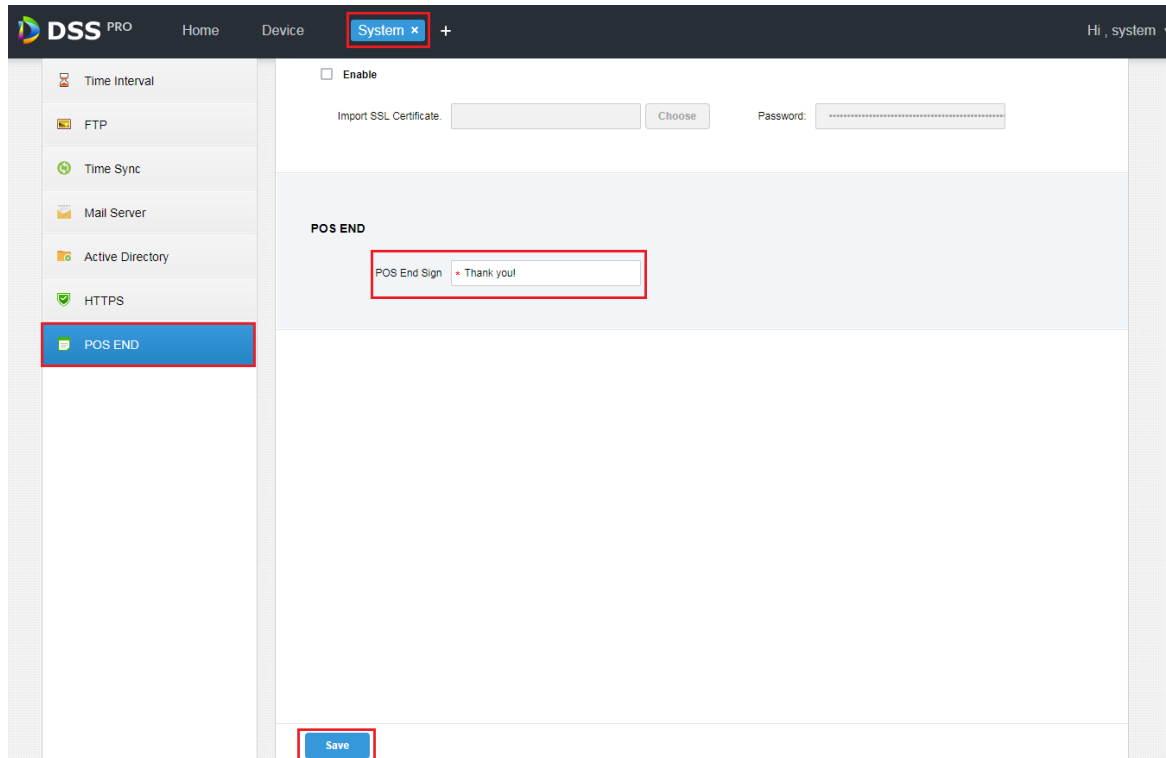


Figure 22-9

22.5 Client Demonstration

Log in DSS PRO Client, and in Live module, you can view video channel bound by POS device and POS transaction info.

Step 1. In Client Live module, it shows POS resource list. Double click or drag POS channel to preview window to open video. When POS device has info printed, the window auto overlay transaction info.

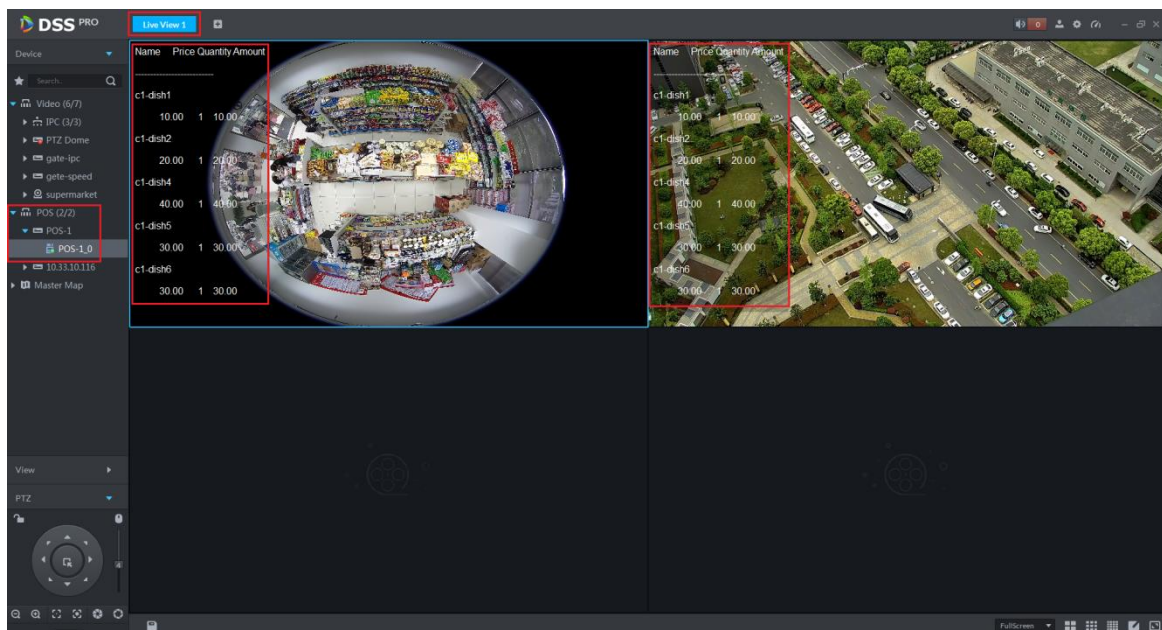
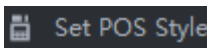


Figure 22-10

Step 2. In Figure 22-11, right click , set POS demonstration format.

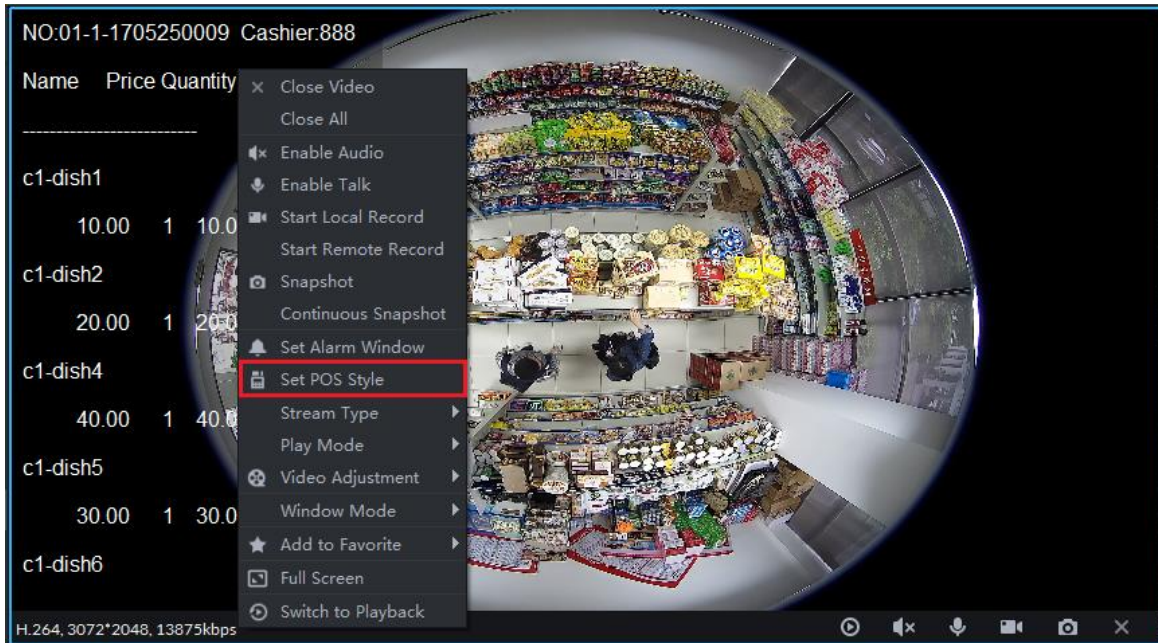


Figure 22-11

Step 3. See Figure 22-12, you can drag black box on the left to set POS info demonstration position, you can set other info: overlay mode (flip/scroll), font size (small/medium/large), background and font color.

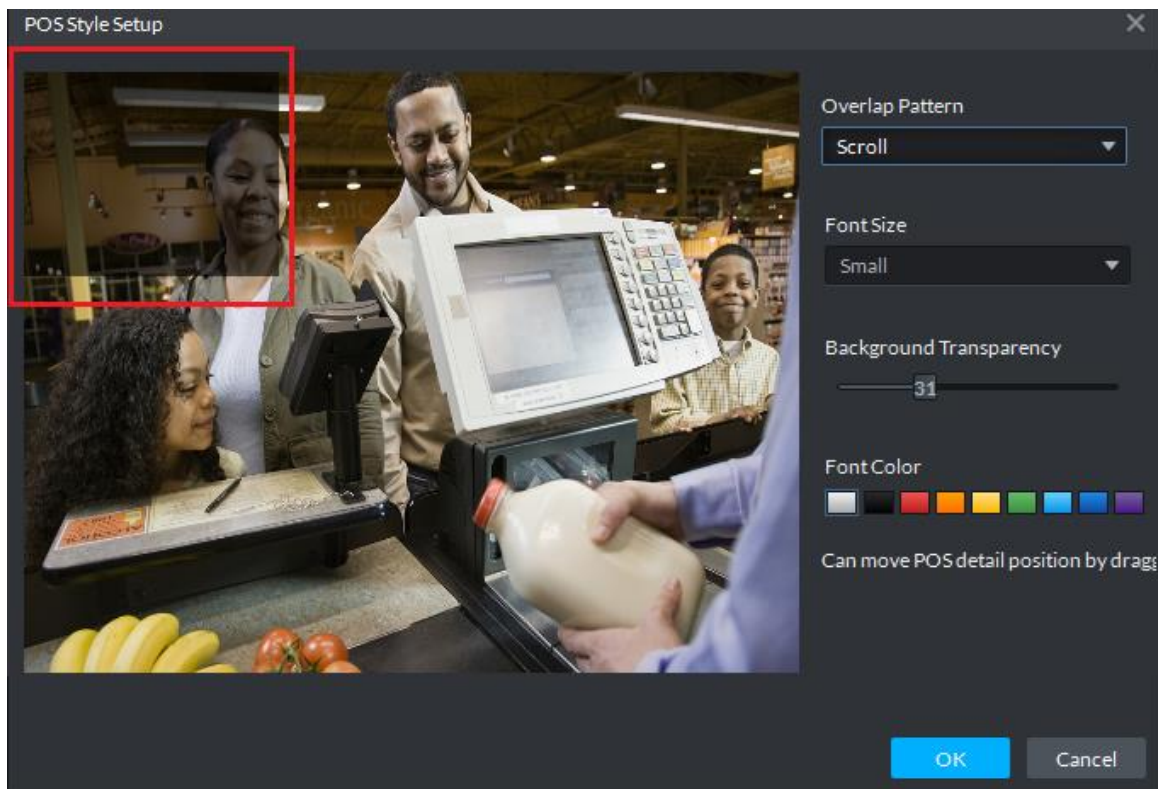



Figure 22-12

22.6 View Report

Step 1. In Client click  button, in Figure 22-13, click **Business An...** to enter Business

Analysis module.

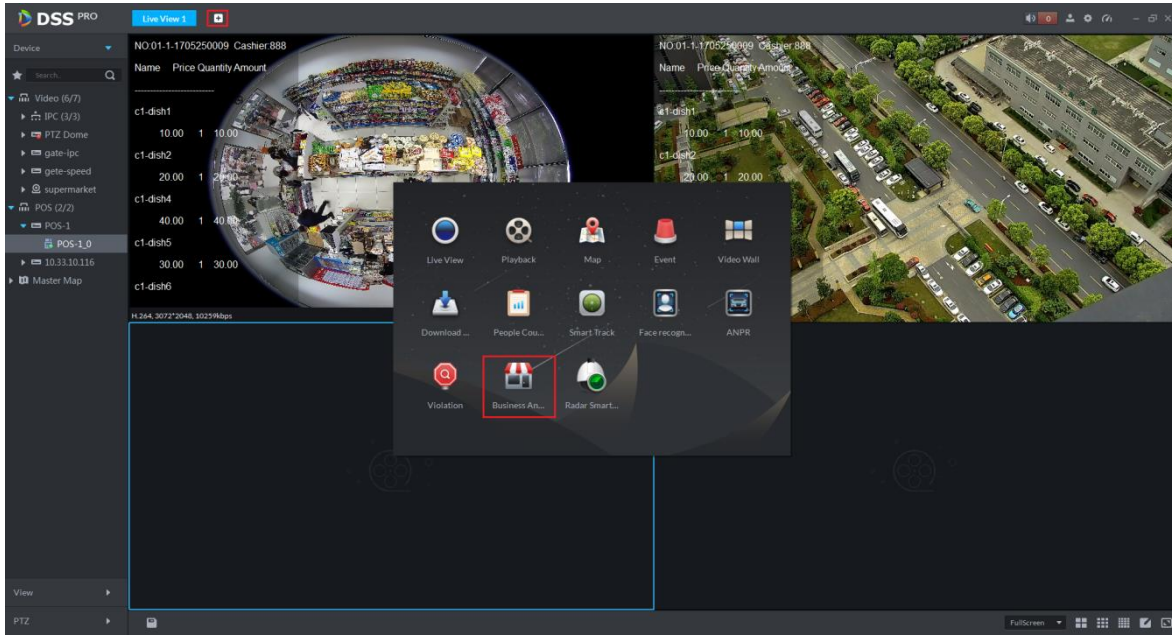



Figure 22-13

Step 2. In the figure, click  to enter report mode. Then select search period (Y/M/D), and click **Search** of corresponding button. On the right, select different tab to display, see Figure 22-14 and Figure 22-15.

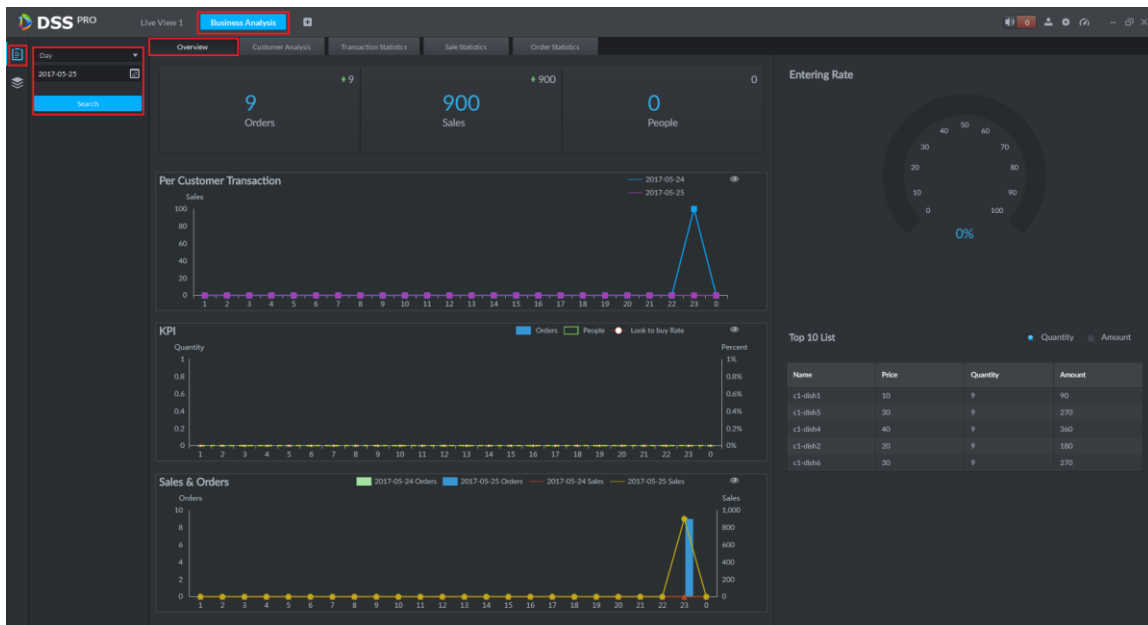


Figure 22-14

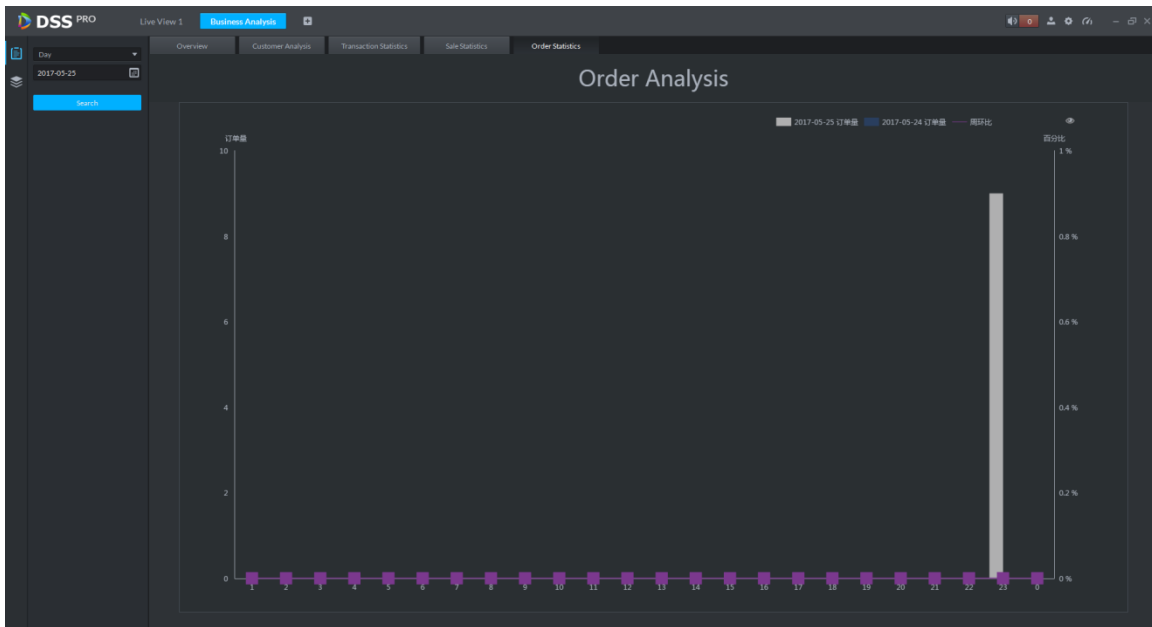
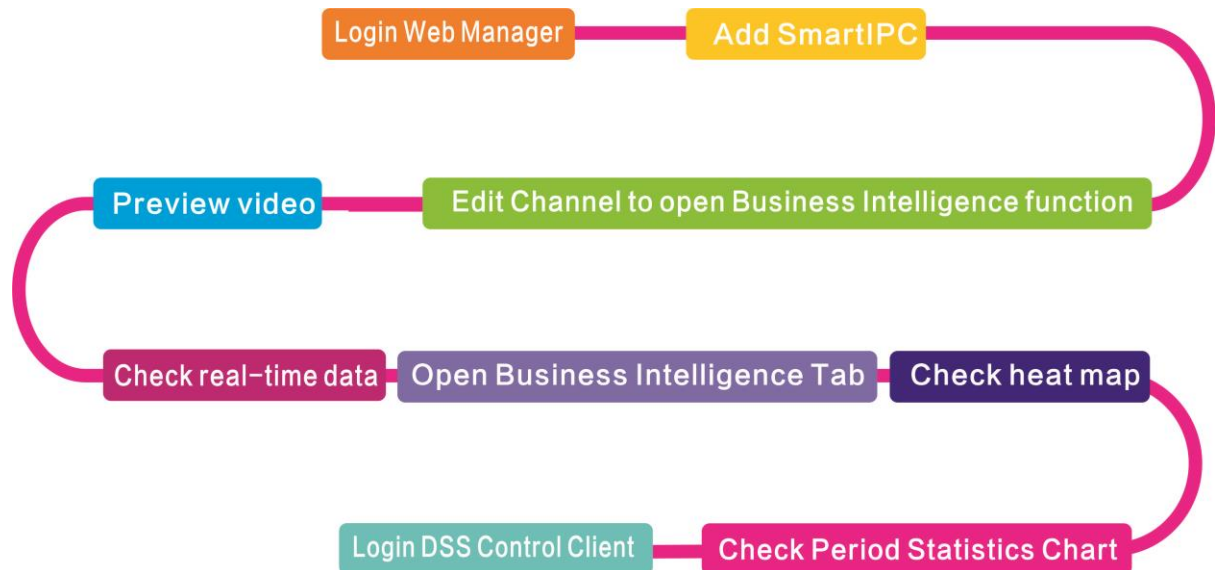


Figure 22-15

23 People Count

23.1 Flow



23.2 Add Smart IPC

Before you can use people count, please add SmartIPC device on DSS Manager.

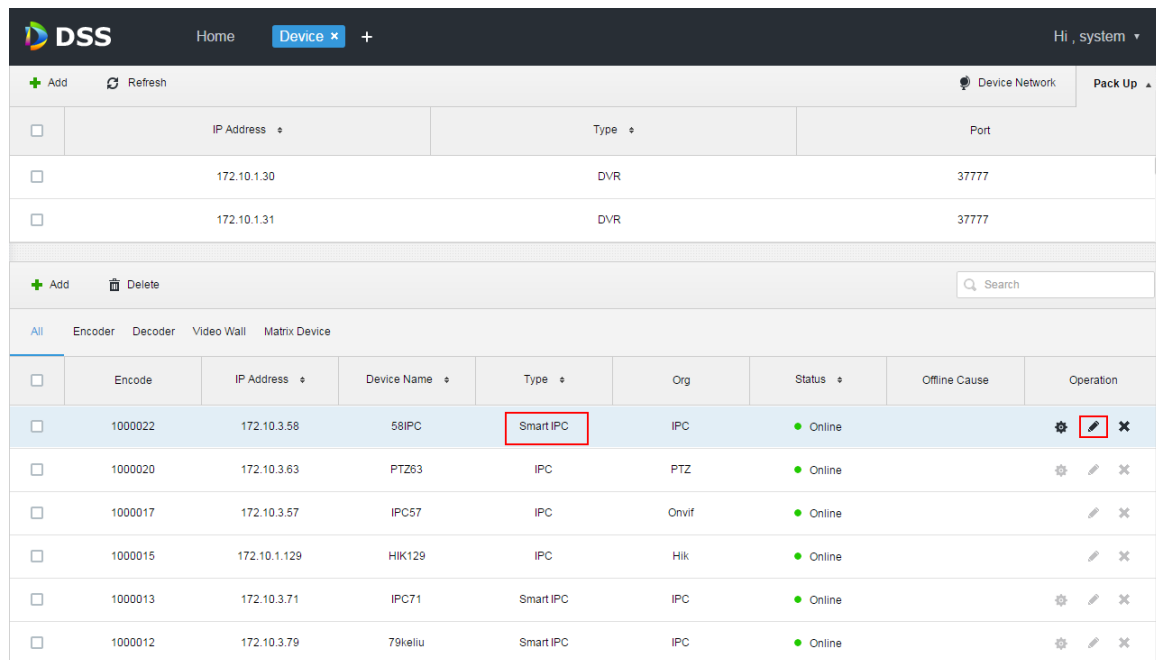
- Step 1. Login DSS Manager.
- Step 2. In Device Manager interface, click Add.
- Step 3. Enter IP address, click Add.
- Step 4. Enter device name, select Smart IPC for device type, see

The screenshot shows a dialog box titled "Add All" with a close button (X) in the top right corner. Below the title bar, there are two tabs: "1.Login Information" and "2.Device Information", with the second tab being the active one. The "2. Device Information" section contains several input fields: "Device Name" with the value "3.79" and a red asterisk icon; "Type" with a dropdown menu showing "Smart IPC" (this field is highlighted with a red border); "Device SN"; "Video Channel" with the value "1"; "Alarm Input Channel" with the value "1"; and "Alarm Output Channel" with the value "1". At the bottom of the dialog, there are three buttons: "Back", "Continue to add", and "OK".

Figure 23-1

- Step 5. Click OK.

Step 6. Click  next to complete Smart IPC device, see Figure 23-2.



IP Address	Type	Port
172.10.1.30	DVR	37777
172.10.1.31	DVR	37777

















Encode	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation
1000022	172.10.3.58	58IPC	Smart IPC	IPC	Online		  
1000020	172.10.3.63	PTZ63	IPC	PTZ	Online		  
1000017	172.10.3.57	IPC57	IPC	Onvif	Online		 
1000015	172.10.1.129	HIK129	IPC	Hik	Online		 
1000013	172.10.3.71	IPC71	Smart IPC	IPC	Online		  
1000012	172.10.3.79	79keliu	Smart IPC	IPC	Online		  

Figure 23-2

23.3 People Count Statistics

Step 1. Login DSS Client. Click  next to Preview, select people count. See Figure 23-3.

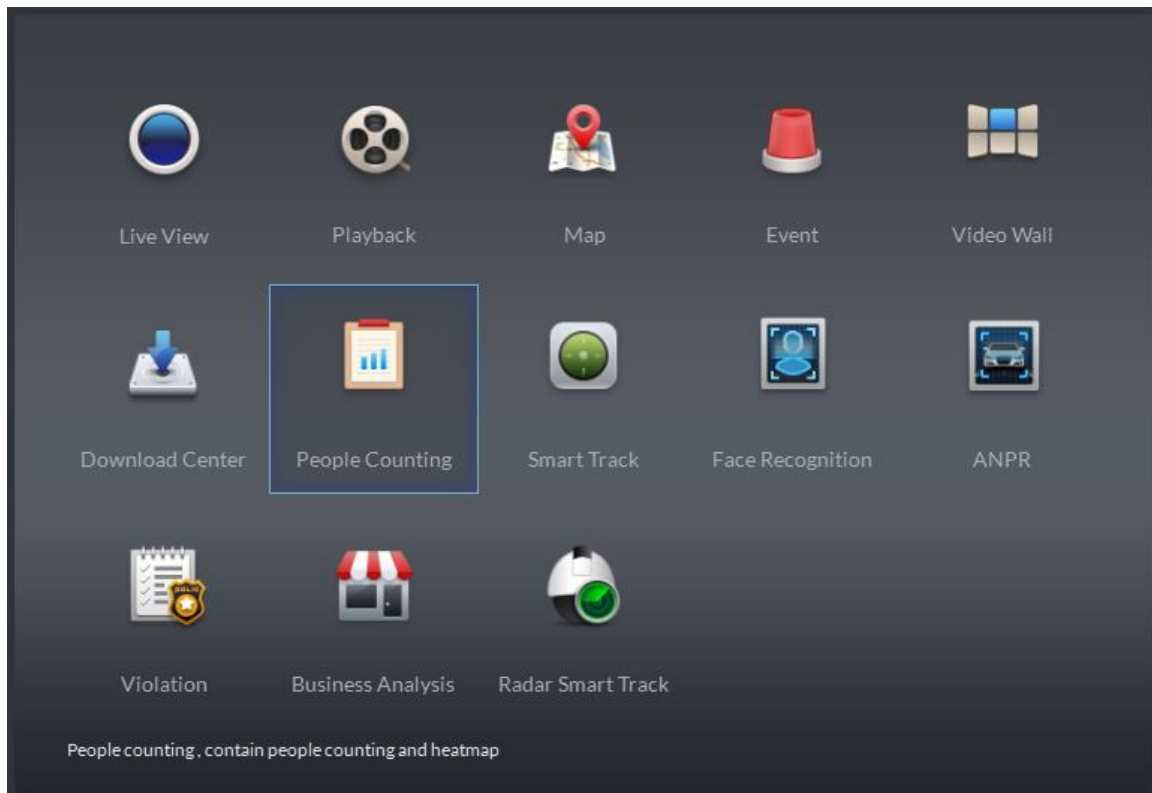


Figure 23-3

Step 2. Enter People Counting, see Figure 23-4.

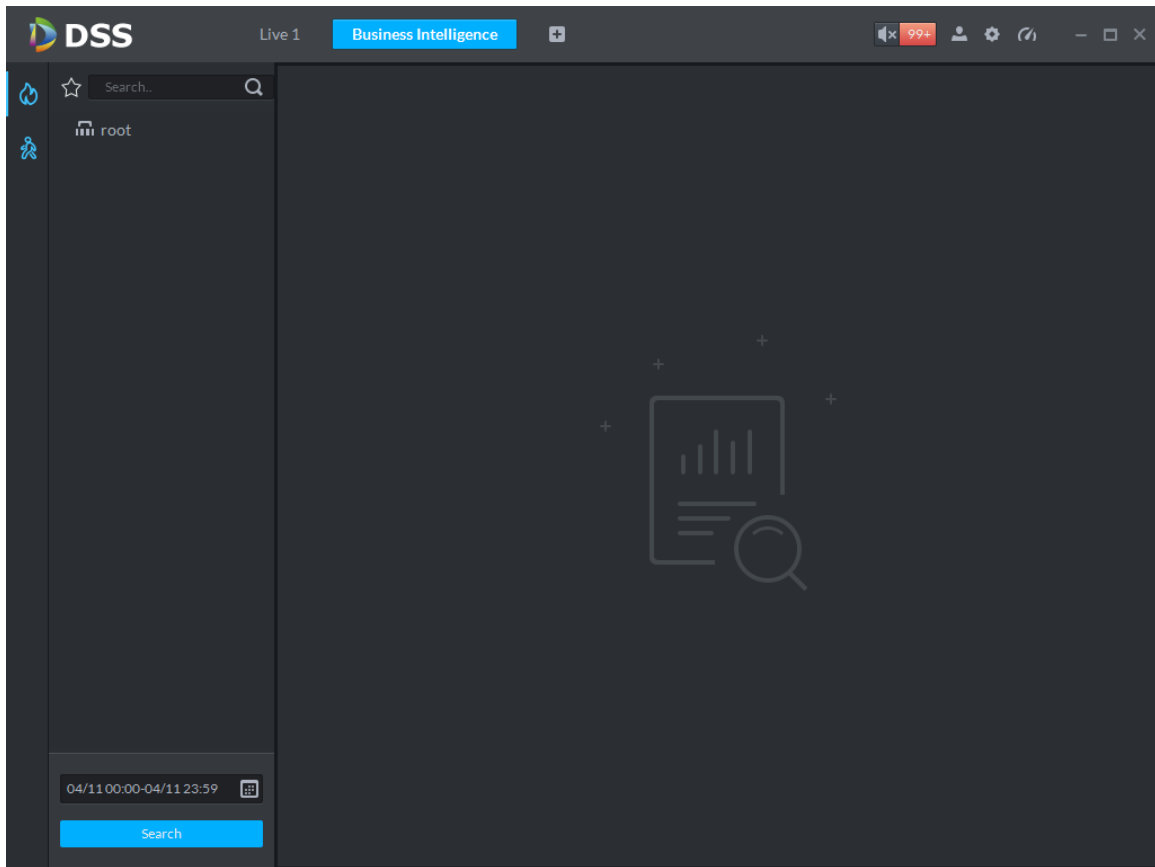



Figure 23-4

Step 3. Click  on the left, and select device channel. Below select report type, statistical time, click Search, see Figure 23-5.

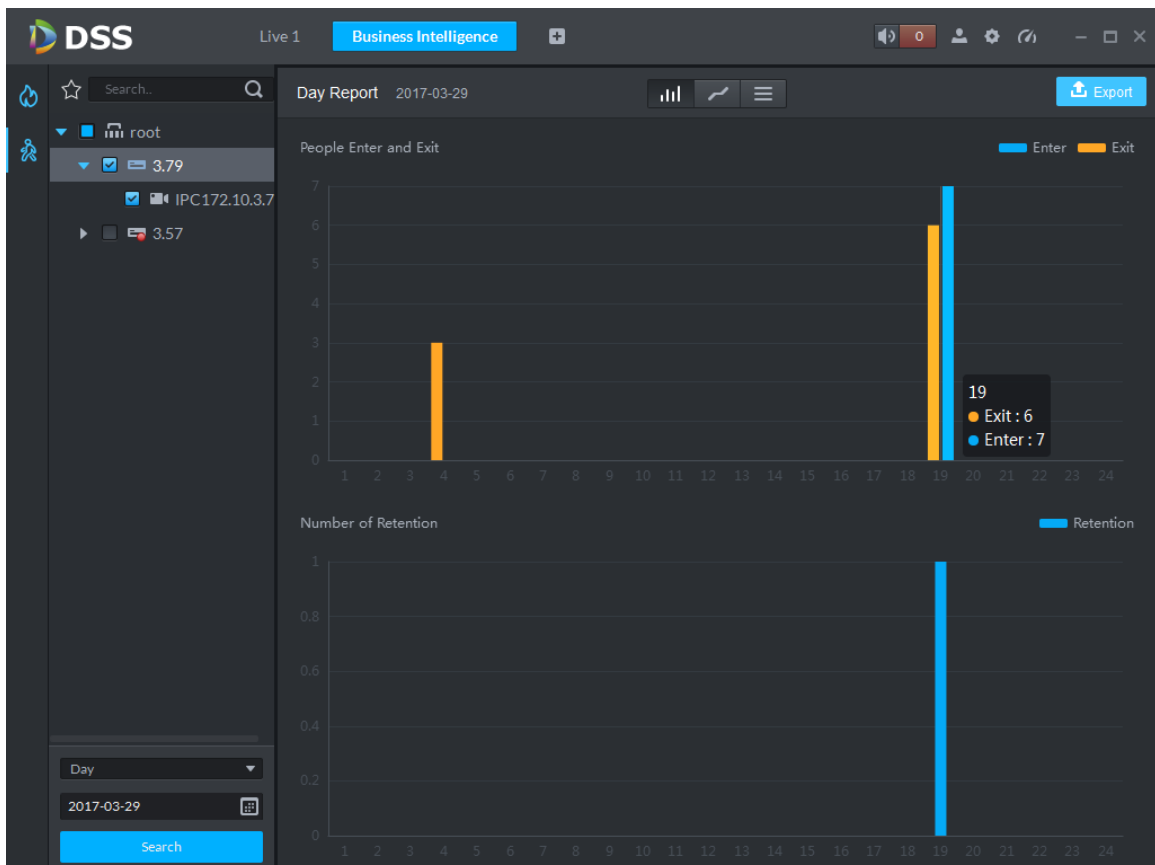


Figure 23-5

You can view line chart or list.

23.4 View People Count in Preview

In Preview interface, you can view Smart IPC video, and people count is shown at the upper-left corner, see Figure 23-6.

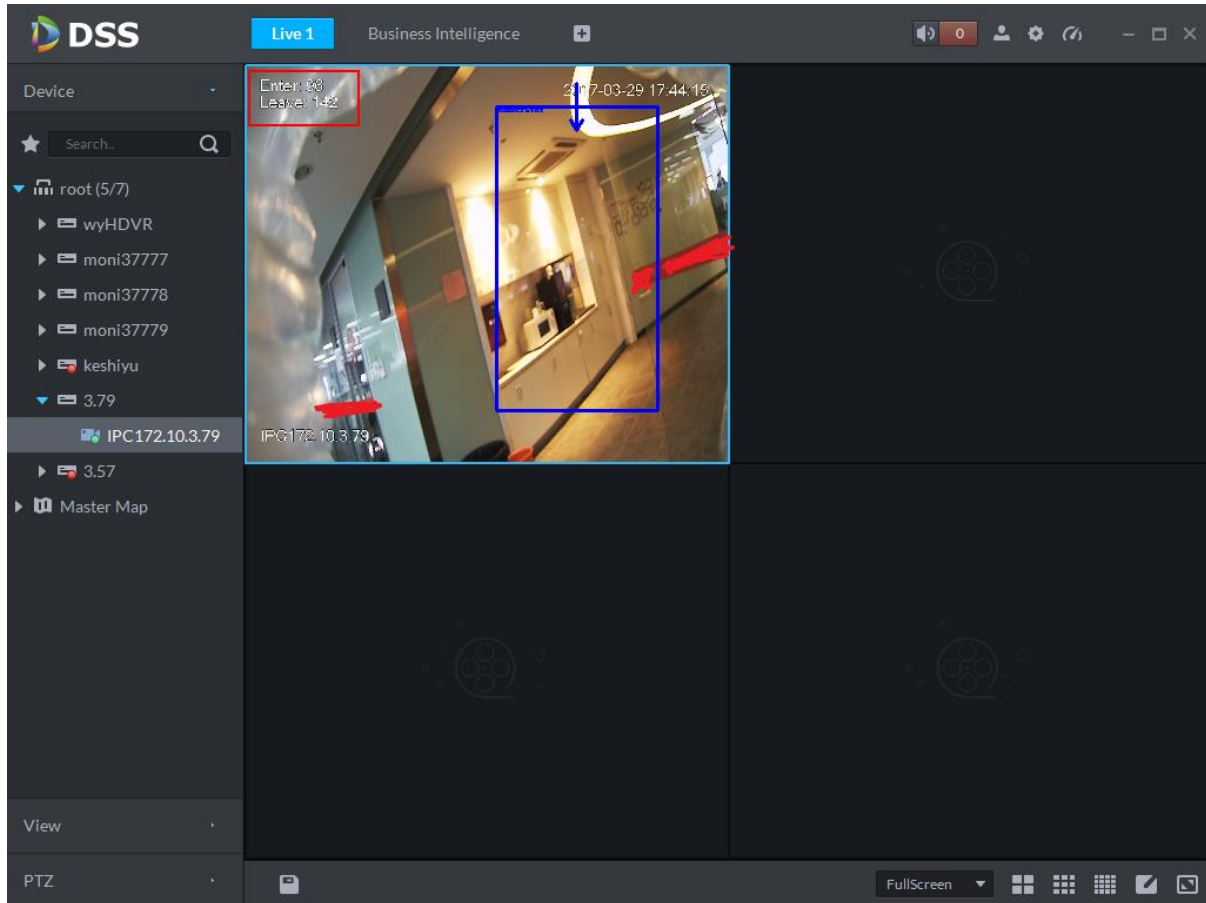


Figure 23-6

Entry/exit count is shown at the upper-left corner, see Figure 23-7.

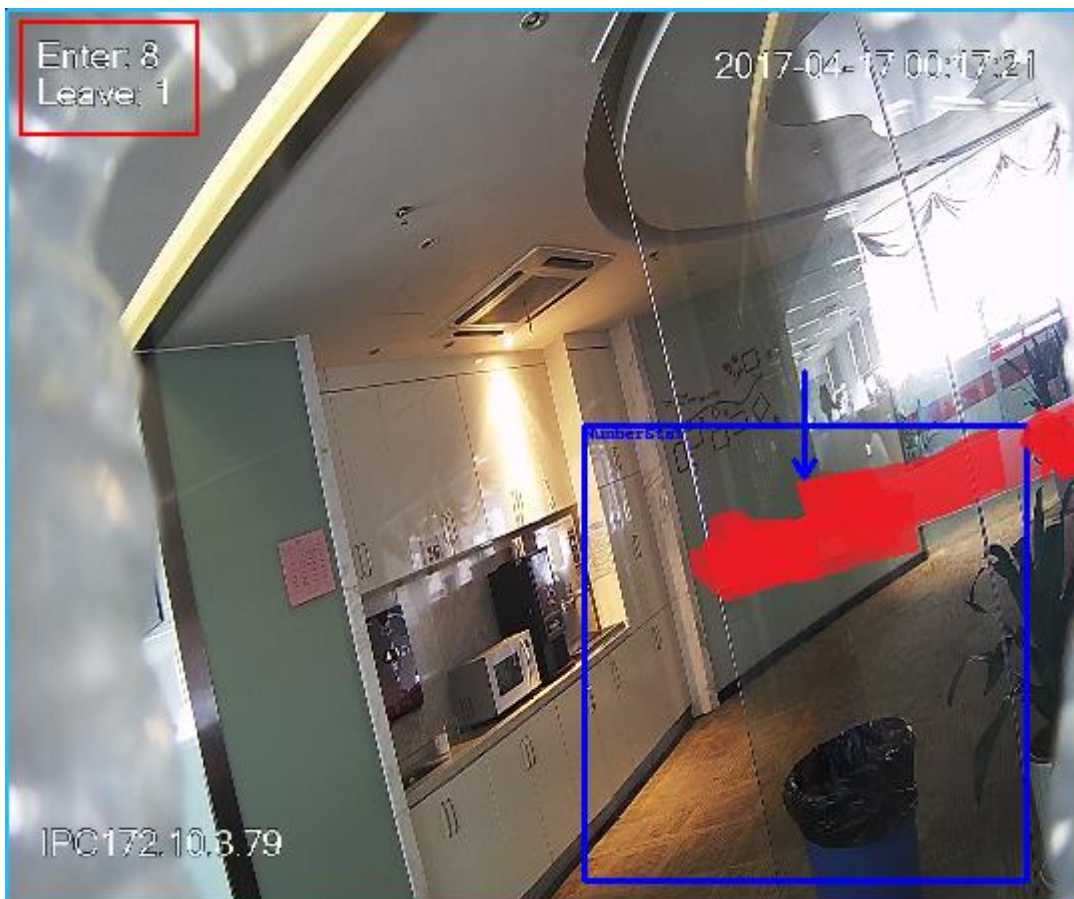


Figure 23-7

23.5 Heat Map

Step 1. Click  tab.

Step 2. Select channel to show heat map, and select time, click Search. See Figure 23-8.

Note:

The device sends heat map data to platform on a real-time basis. Starting when device is added to platform, you can search heat map data uploaded. Unit of search is week (interval between start time and end time cannot exceed 1 week).

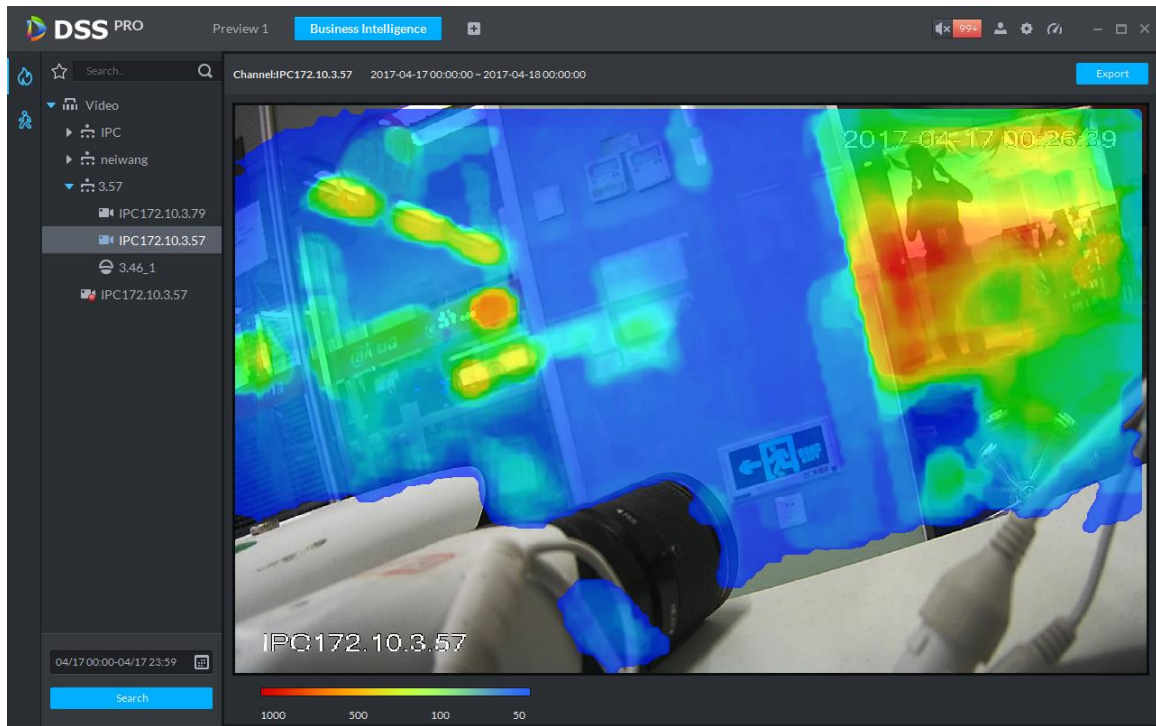
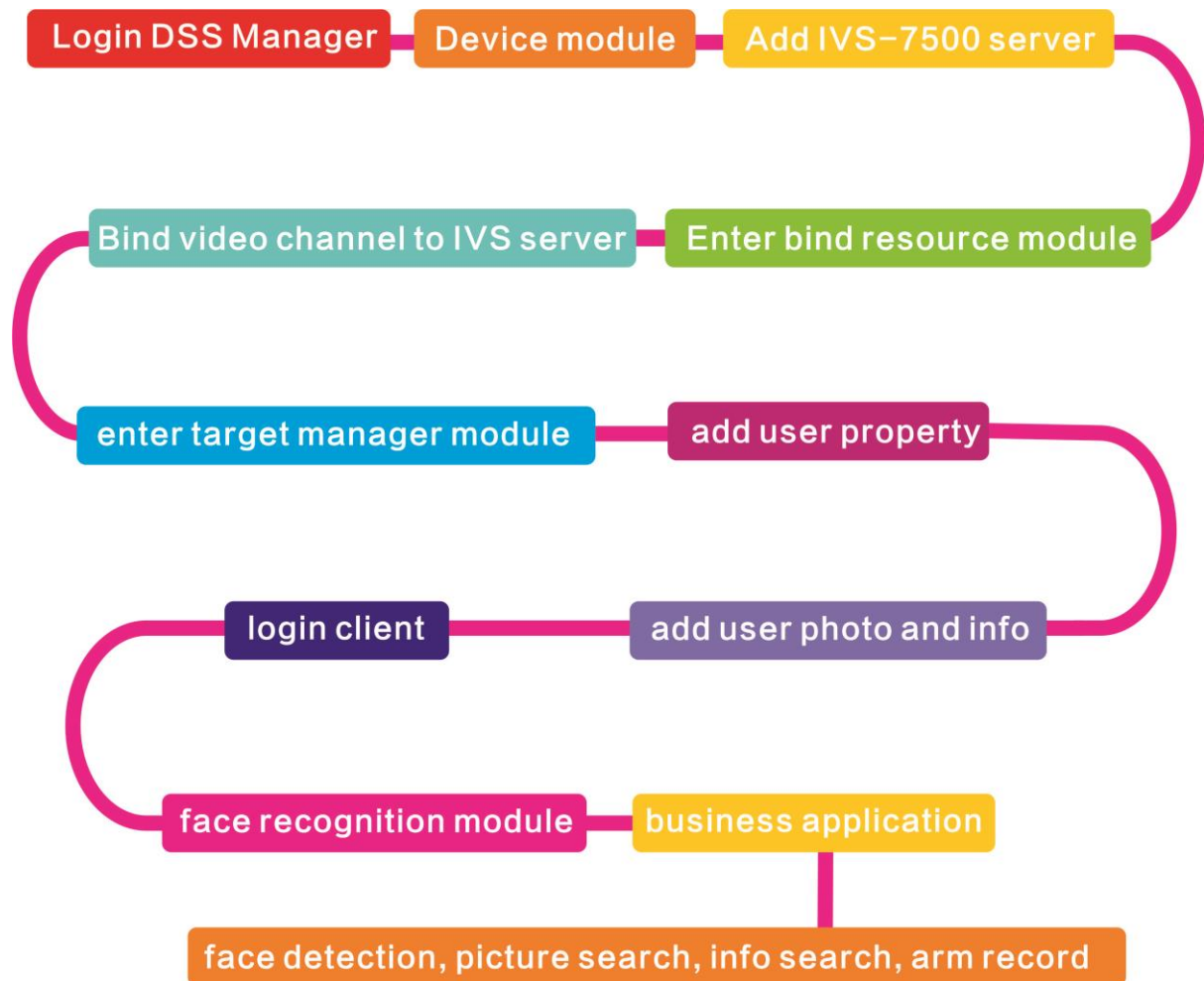


Figure 23-8

Click [Export](#) at the upper-right corner, you can export heat map in bmp format.


24 Face Recognition

24.1 Business Flow



24.2 Add IVS Server

DSS Professional V7.01 only supports IVS-7500 model of server for input.

Step 1. Log in DSS Manager, enter device management module, in Figure 24-1, click  Add to add IVS server.

The screenshot shows the DSS PRO web interface. At the top, there is a navigation bar with 'DSS PRO', 'Home', and a 'Device x' button highlighted with a red box. Below the navigation bar, there are several action buttons: '+ Add', 'Refresh', 'Initialize Device', and 'Change IP'. A 'Device Network' tab is selected, and a 'Pack Up' button is visible on the right. The main content area displays a table of devices with the following columns: Init Status, IP Address, Type, Port, and MAC Address. The table contains four rows of initialized devices. Below this table, there is a secondary table with columns: Device ID, IP Address, Device Name, Type, Org, Status, Offline Cause, and Operation. The 'Add' button in this section is also highlighted with a red box. The bottom table lists several devices with their respective IDs, IP addresses, names, types, and statuses.

Init Status	IP Address	Type	Port	MAC Address
initialized	172.10.1.119	NVR	37777	4c:11:bf:15:77:c8
initialized	172.10.1.123	IPC	37123	90:02:a9:42:fc:07
initialized	172.10.1.138	EVS	37777	4c:11:bf:57:99:96
initialized	172.10.1.139	EVS	37777	4c:11:bf:57:99:98

Device ID	IP Address	Device Name	Type	Org	Status	Offline Cause	Operation
1000515	10.18.135.170	POS-1	POS Box	root	Offline		⚙️ ✖️
1000520	10.18.135.170	supermarket	IPC	root	Online		⚙️ ✖️
1000519	10.18.135.170	gete-speed	DVR	root	Online		⚙️ ✖️
1000518	10.18.135.170	gate-ipc	DVR	root	Online		⚙️ ✖️
1000006	172.10.3.66	172.10.3.66	IPC	IPC	Online		⚙️ ✖️
1000004	172.10.2.120	1L00A79PAL00097	IPC	IPC	Online		⚙️ ✖️
		FOYAZ00041	IPC	IPC	Online		⚙️ ✖️

Figure 24-1

Step 2. In the figure, add device and select type to be “Intelligent Device”.

Add All
✕

1. Login Information.

1.Login Information
2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

Add
Cancel

Figure 24-2

Step 3. In the figure, enter IVS-7500 IP address, port, username and password. Select device organization and server, click **Add** button to enter device info input interface.

Add All ✕

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

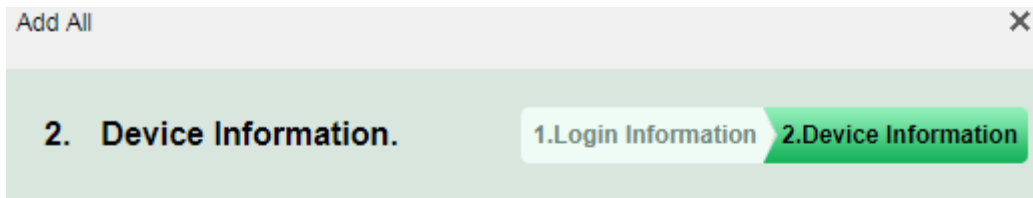
Password:

Org:

Video Server:

Figure 24-3

Step 4. In Figure 24-4, enter device name, select role for the device, click OK.



Device Name: * IVS-7500

Type: IVS-7500

Device SN:

Role: Administrator,Operator

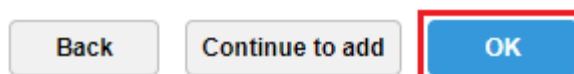


Figure 24-4

Step 5. IVS device is in Figure 24-5.

+ Add 🗑 Delete 🔒 Reset Password 🔍 Search									
All Encoder Decoder ANPR Device Intelligent Device									
<input type="checkbox"/>	Device ID	IP/Domain	Video Server	Device Name	Type	Org	Status	Offline Cause	Operation
<input type="checkbox"/>	1000032	172.10.1.232	Center Server	IVS-7500	IVS-7500	root	● Online		✎ ✕

Figure 24-5

24.3 Bind Video Channel

Step 1. Log in DSS Manager, click + to open new tab, in the figure select “Bind Resource” to

enter bind resource module.

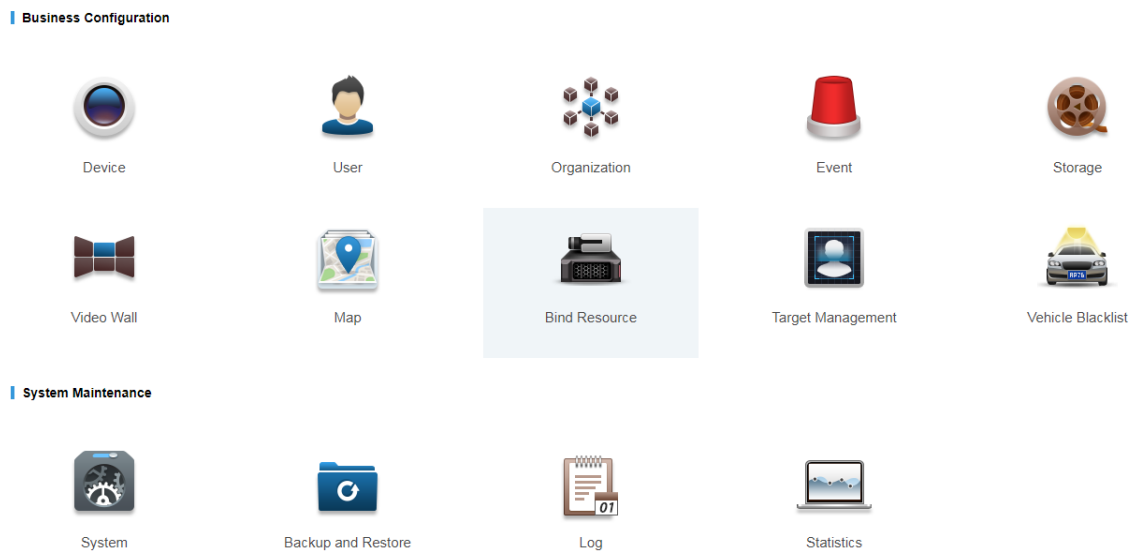



Figure 24-6

Step 2. Enter setting interface, click  **Setting** in this interface to set binding. See Figure 24-7.

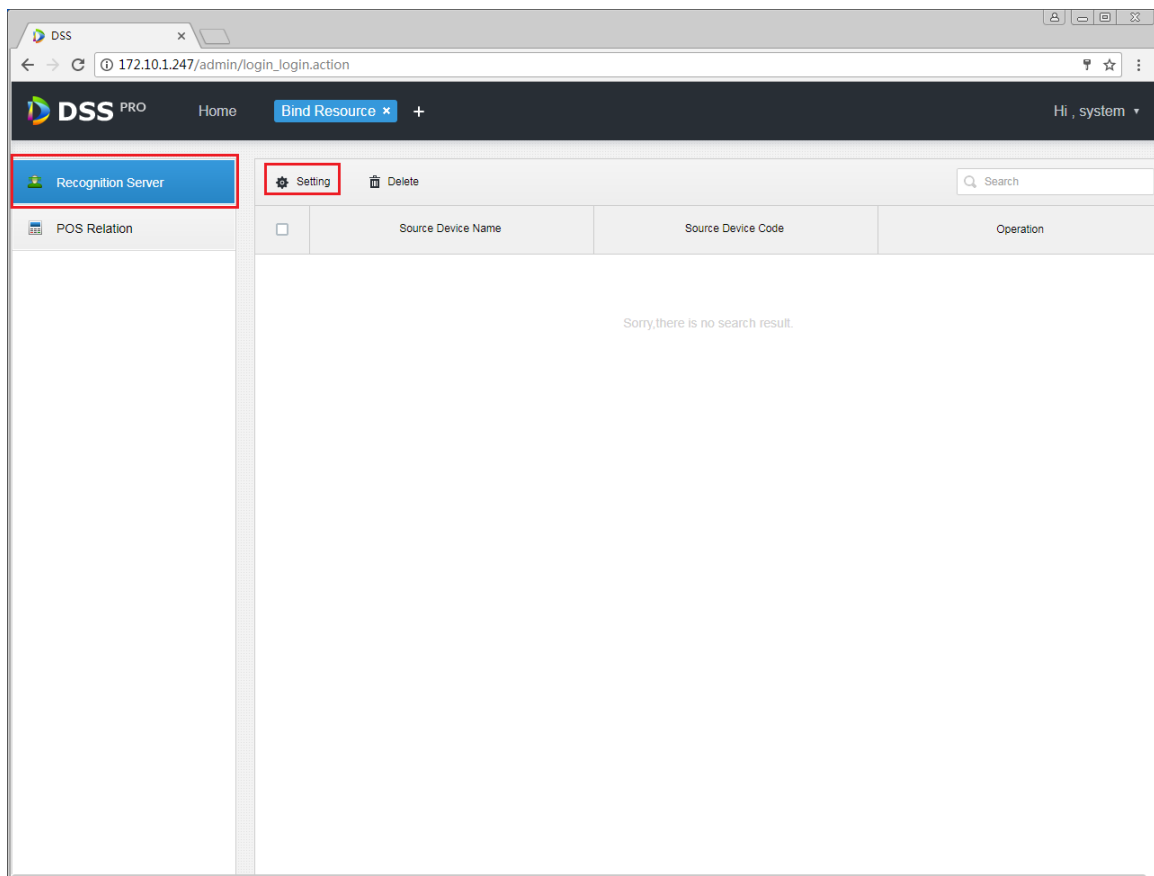


Figure 24-7

Step 3. In the figure, select IVS-7500 server and video channel to bind, click OK.

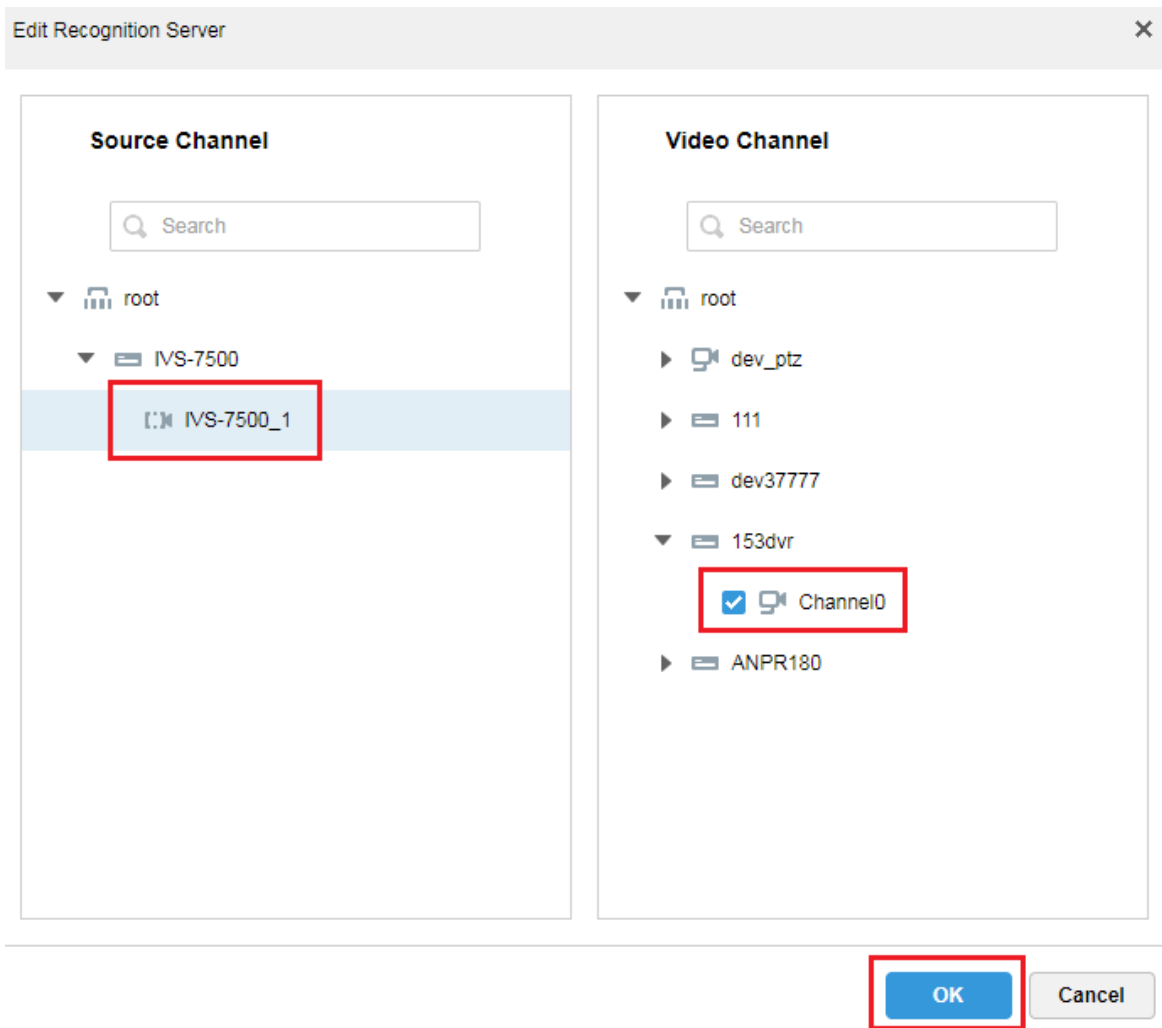



Figure 24-8

24.4 User Resource Management

There are two ways to create user info. If user picture and info exist, you can import user info as administrator. If user picture does not exist, you can add info of user snapshot by camera into user database.

24.4.1 User Type Management

Step 1. Login DSS Manager, click  to open new tab, see the figure and select “Target Management” to enter user resource management module.

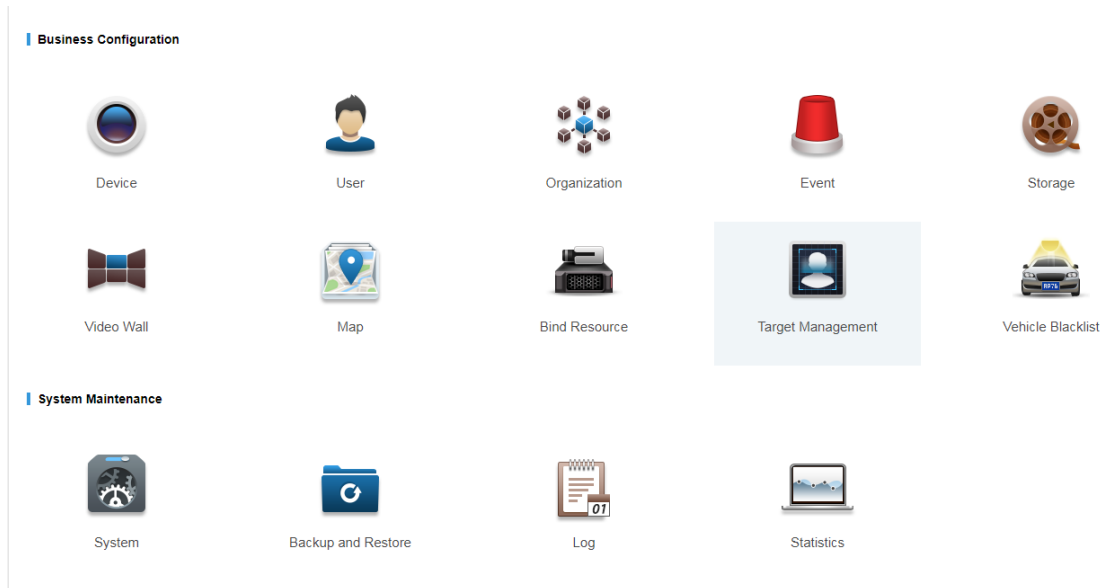


Figure 24-9

Step 2. Before you add user info, please create user type. In the figure, click **User Property Setup** button to enter setup interface.

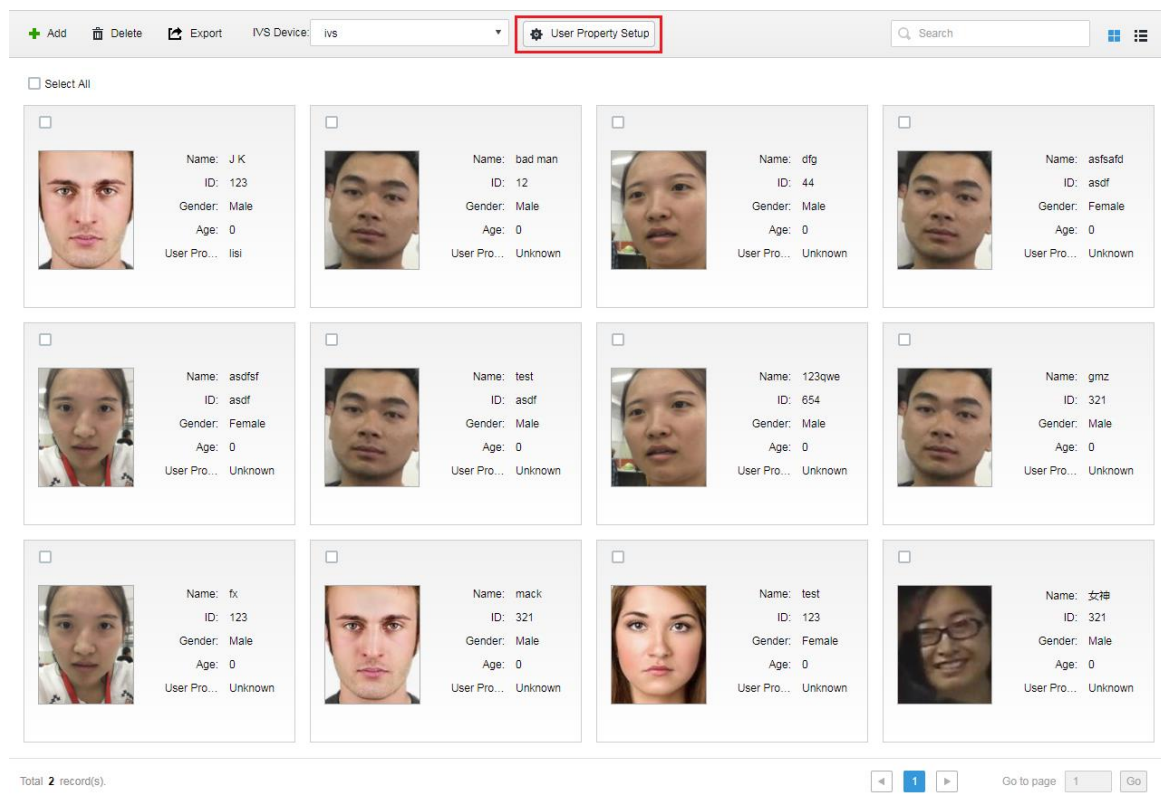


Figure 24-10

Step 3. In the figure click **+ Add** to enter add interface.

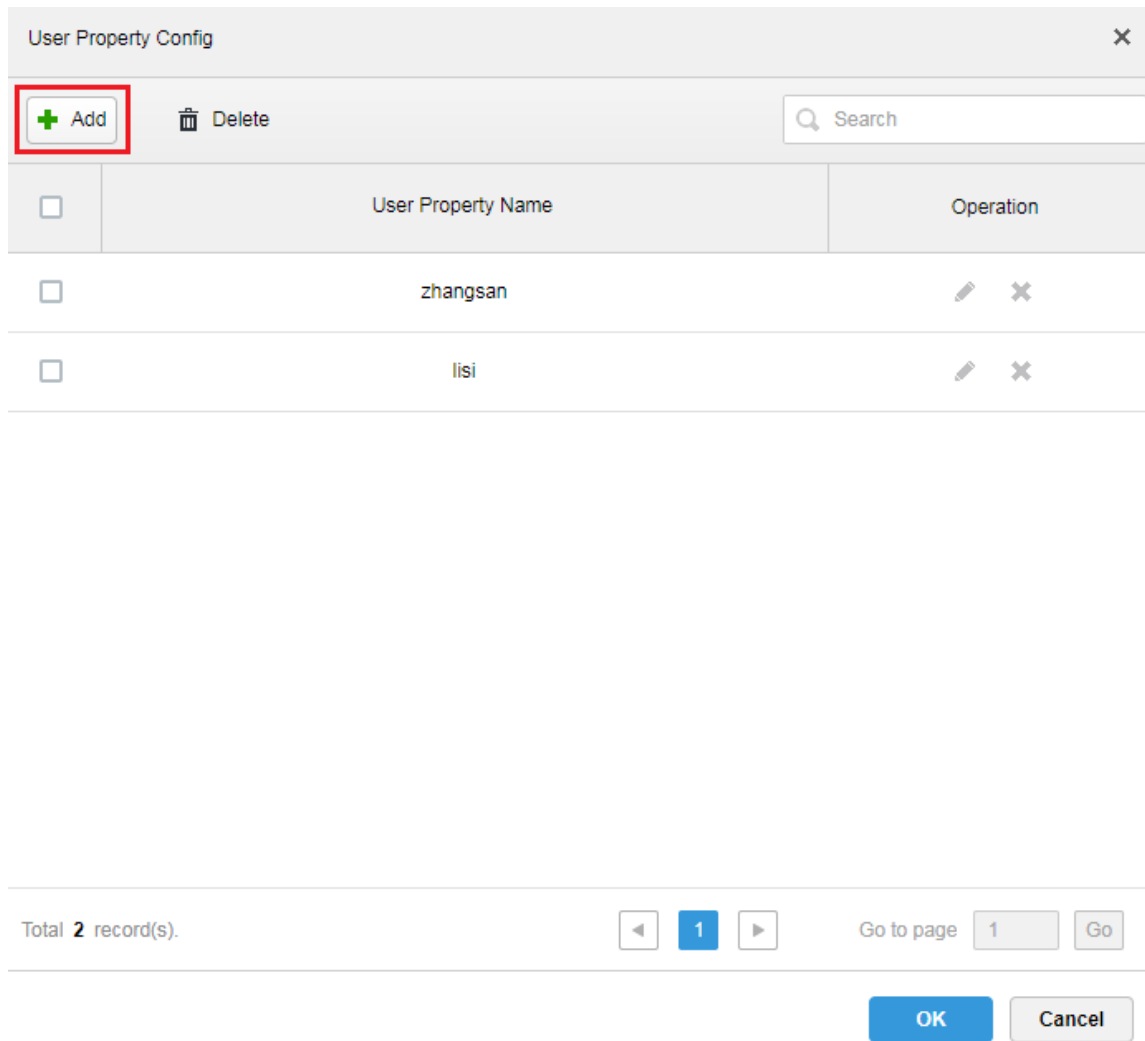


Figure 24-11

Step 4. In add interface, enter user property name, click OK.

Step 5. Click button to enter edit interface for existing user, click button to delete this type.

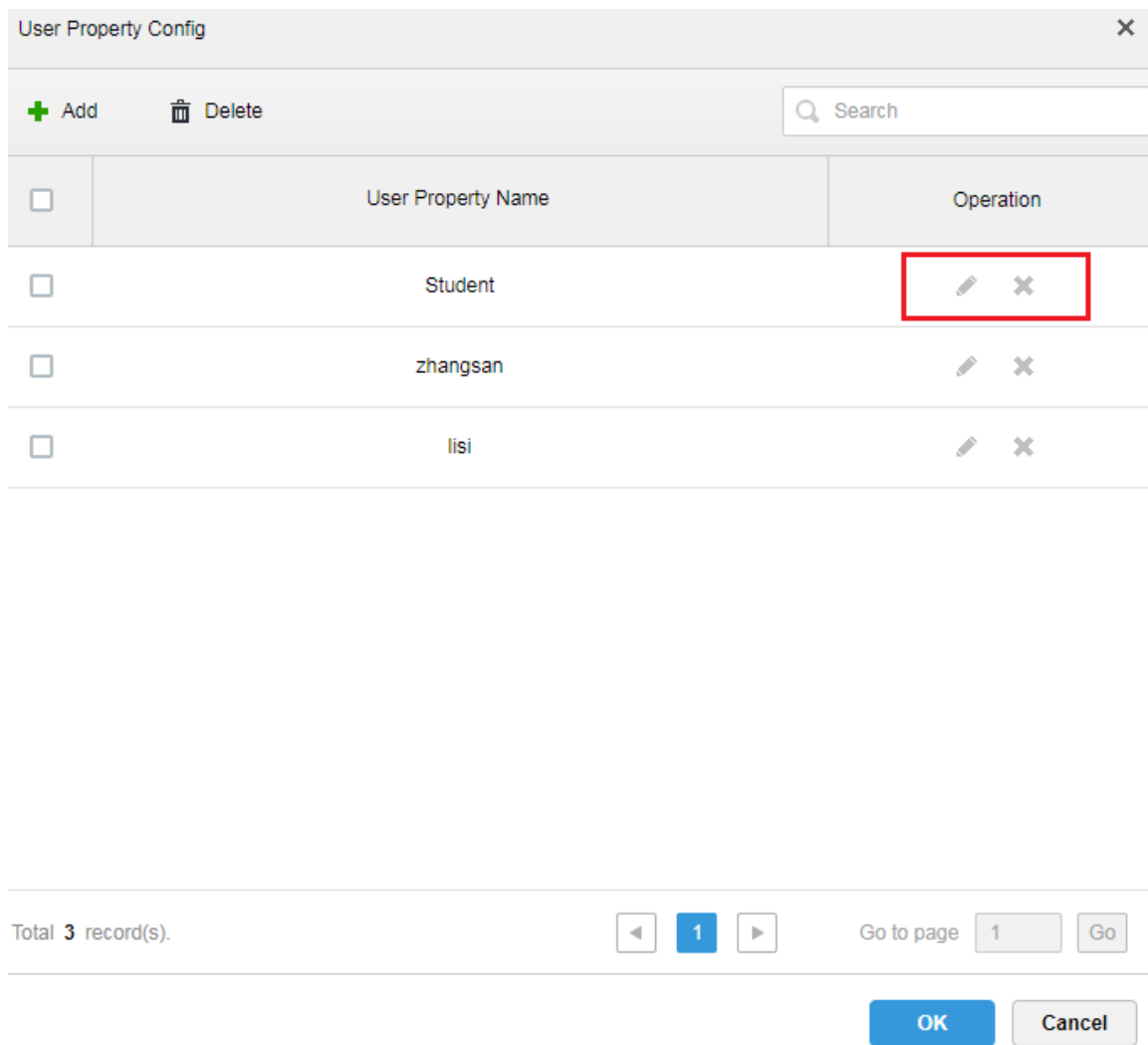


Figure 24-12

24.4.2 Add User-Manager

Step 1. Log in DSS Manager, click to open new tab, and in the figure select “Target Management”, to enter user resource management module.

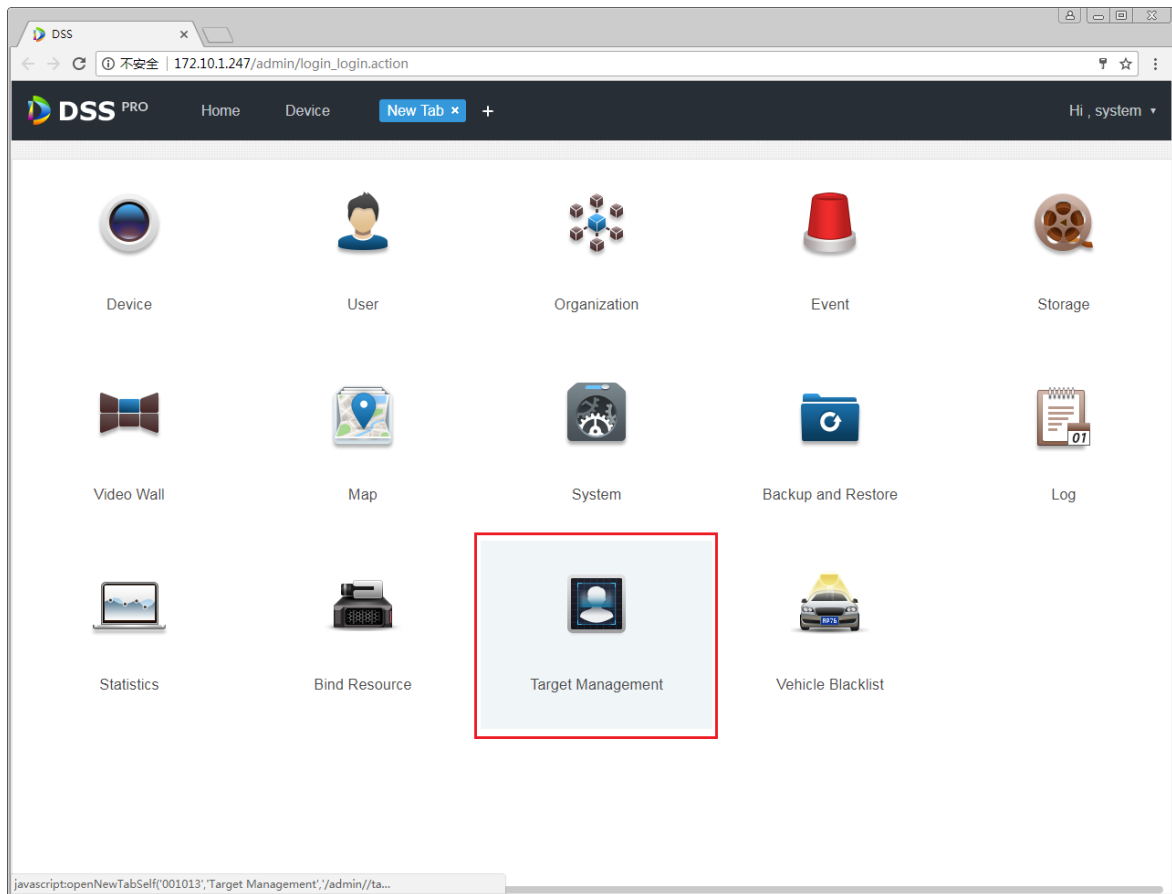


Figure 24-13

Step 2. Enter target management interface, see figure below, click **+ Add** button to enter add user interface. See Figure 24-14.

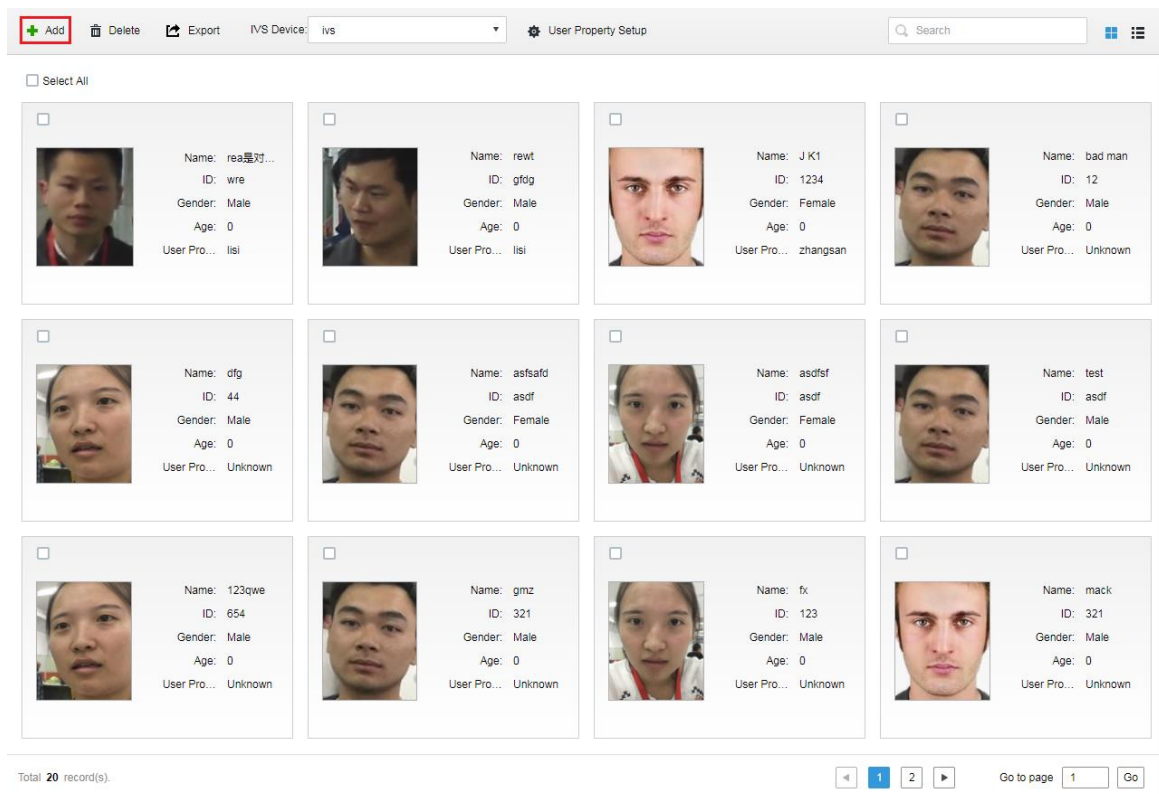


Figure 24-14

Step 3. Enter add user interface, see figure below, click **Upload Image** button to upload user image, and fill in user name, ID, select gender and DOB. Click OK.

1 Upload Image

2 Name: +

3 ID: +

4 Gender: Male Female

5 DOB: [Date Picker]

6 User Property: lisi

7 OK Cancel

Figure 24-15

Note:

Requirement of user image:

- Front image.
- Width $\leq 1000\text{px}$, height $\leq 1000\text{px}$.
- Image format in jpg.

24.4.3 Add User Info-Client

Step 1. Log in DSS Client, click face recognition module, see Figure 24-16.



Figure 24-16

Step 2. Open corresponding IVS channel video, and detected user image will be shown below. See Figure 24-17, user with a red box exists in user database.

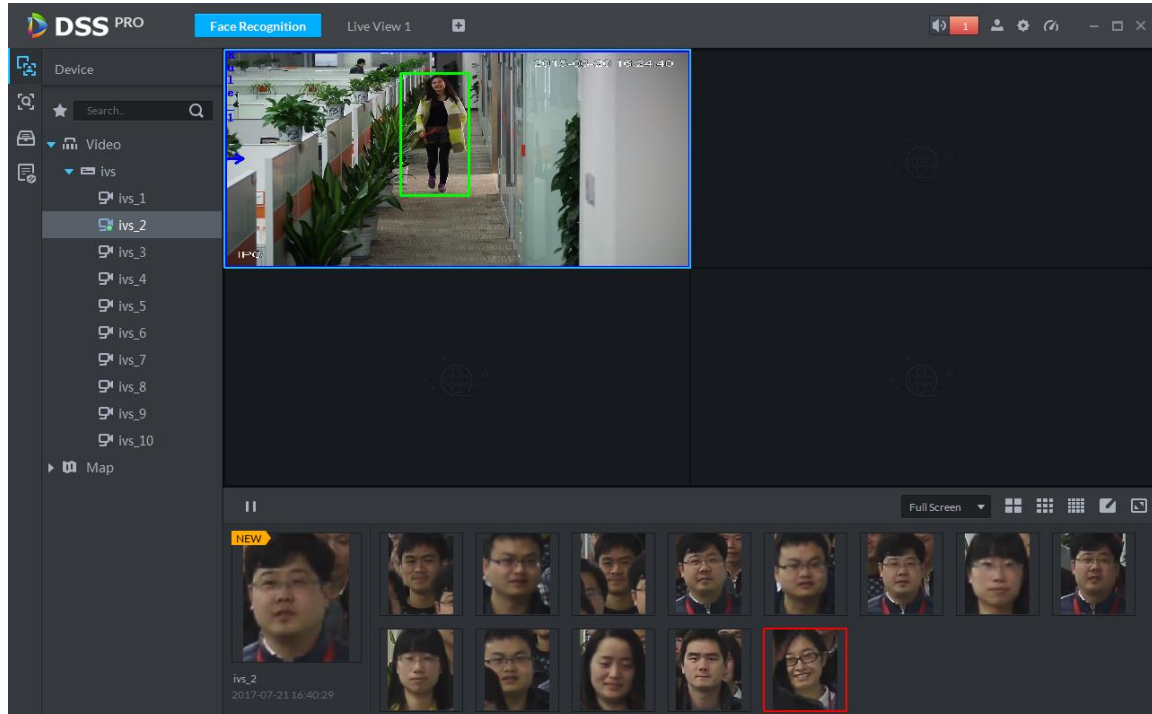


Figure 24-17

Step 3. Double click image in scroll bar, enter corresponding info, click **Register** button to add user into user database.

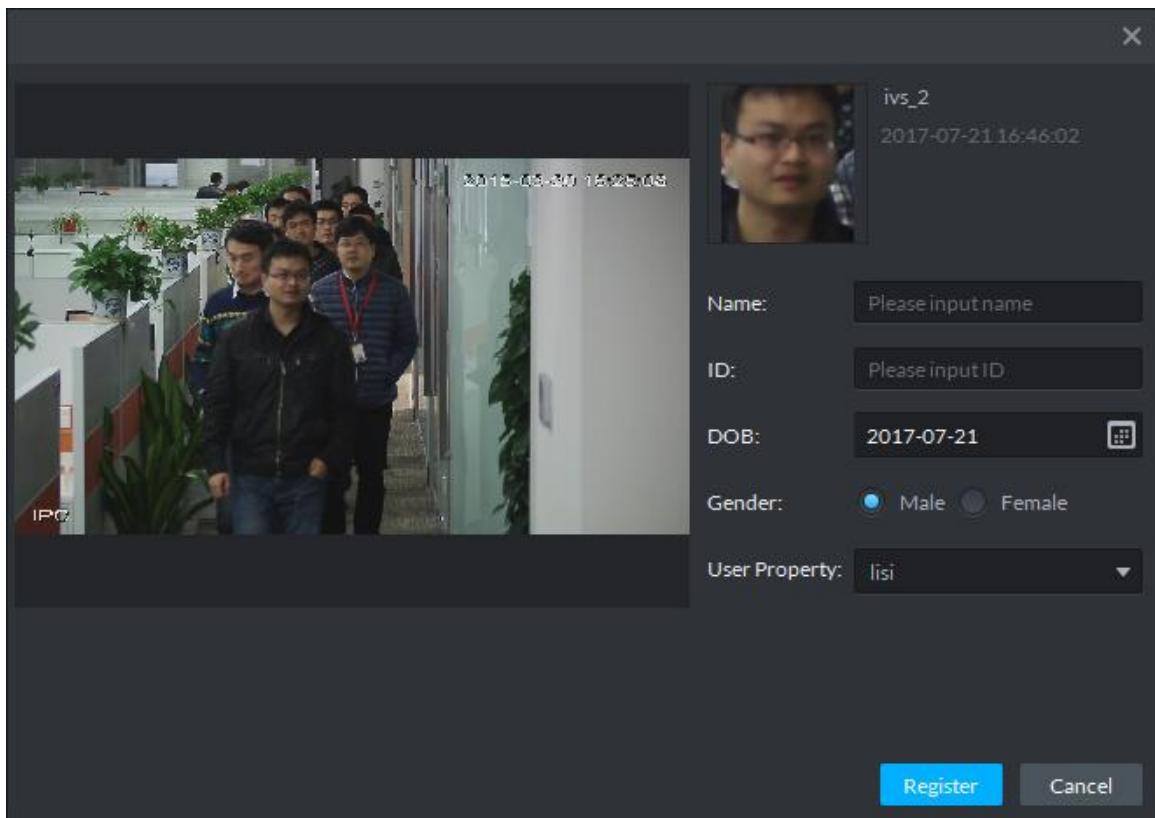


Figure 24-18

24.5 Client Application

24.5.1 Face Recognition

Step 1. Log in DSS Client and open new tab, click “Face Recognition” module to enter ANPR application, see Figure 24-19.

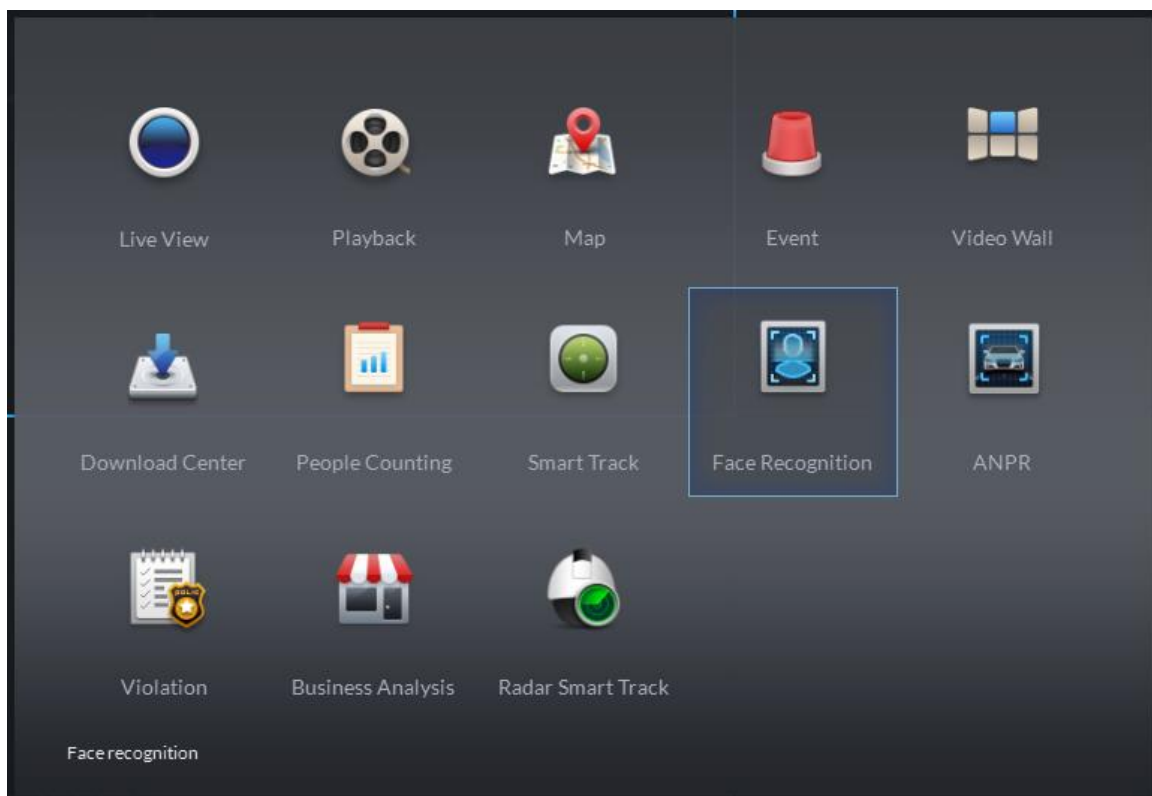



Figure 24-19

Step 2. Enter face recognition module, select  to enter face recognition application, double click to open or drag IVS channel to video window. In scroll bar, it will show face image detected, see Figure 24-20. A red box means successful pairing with user database.

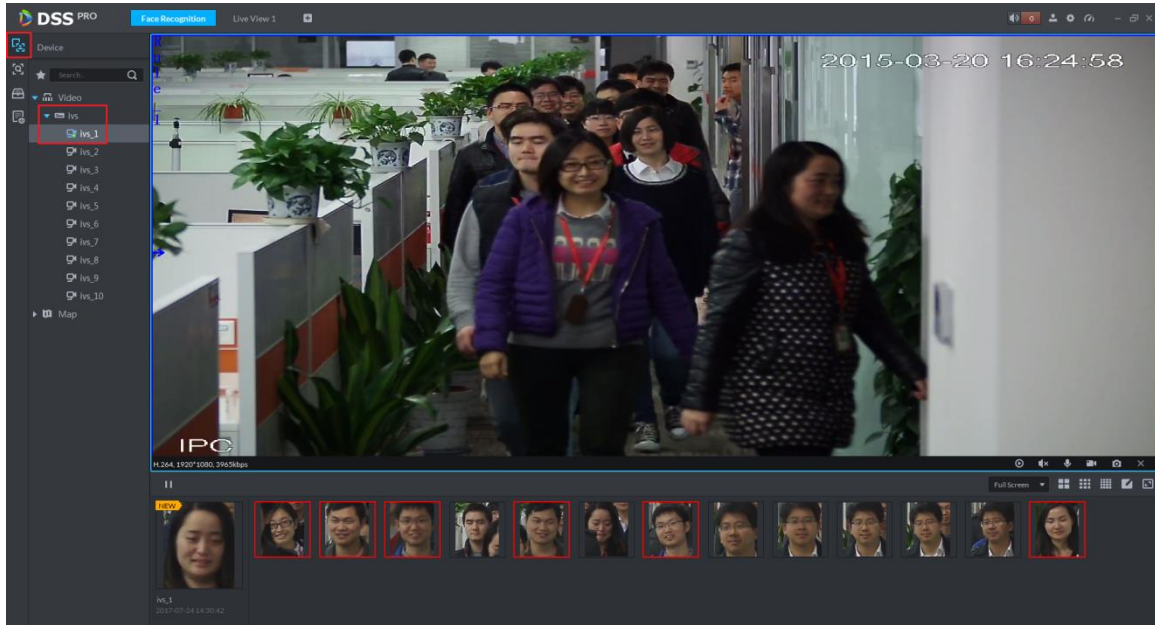




Figure 24-20

Step 3. In scroll bar, click  button to pause picture refresh, click  button to restore refresh.

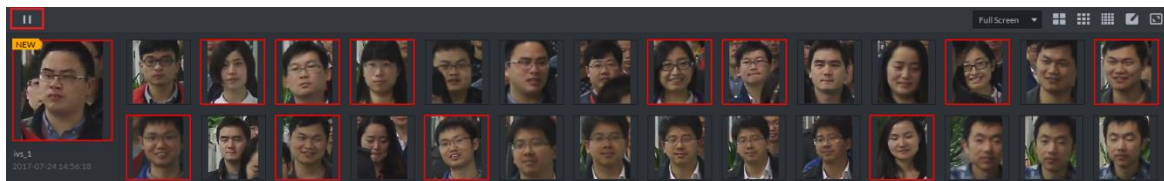


Figure 24-21

Step 4. Place mouse on image with red box, you can see similarity, see Figure 24-22.



Figure 24-22

Step 5. Double click red box to see detail of snapshot, see Figure 24-23.

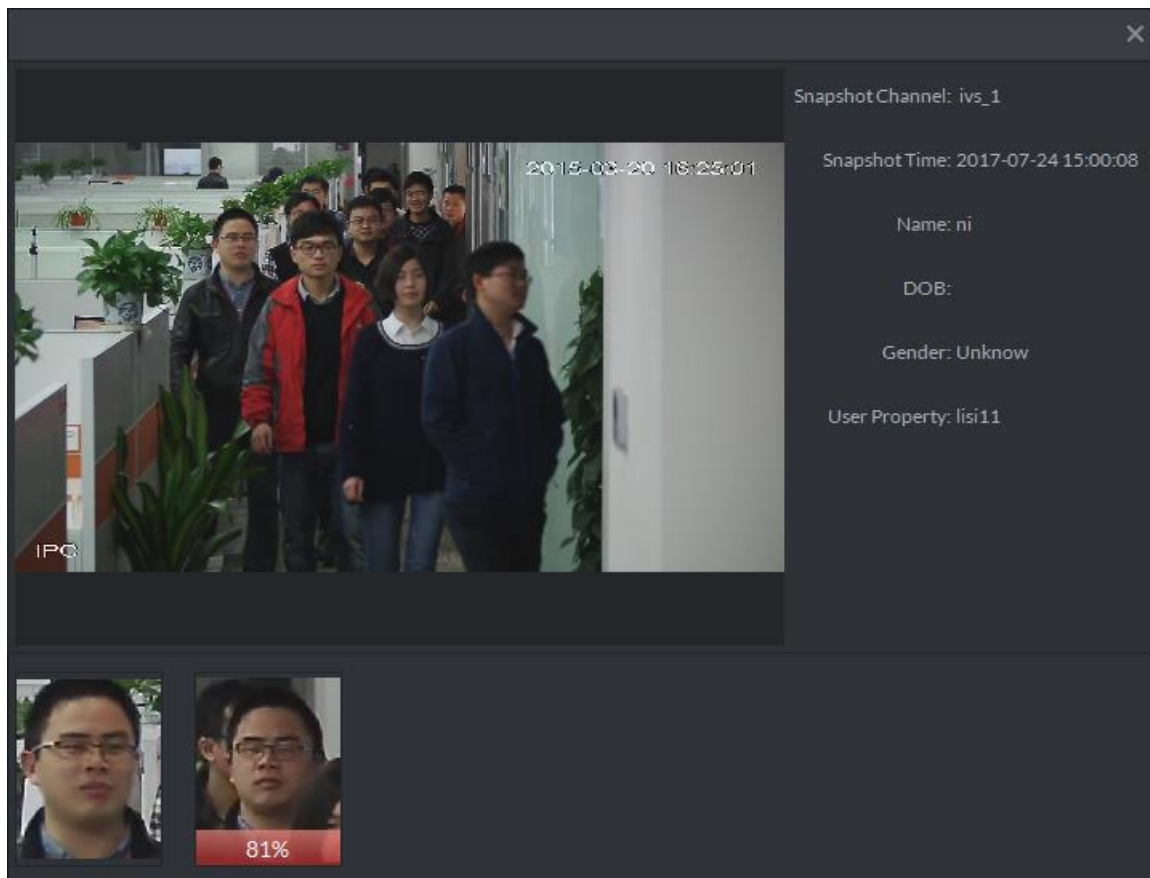


Figure 24-23

Step 6. Double click image without red box, fill in user info, see Figure 24-24. Click “Register” button to add the user into user database.

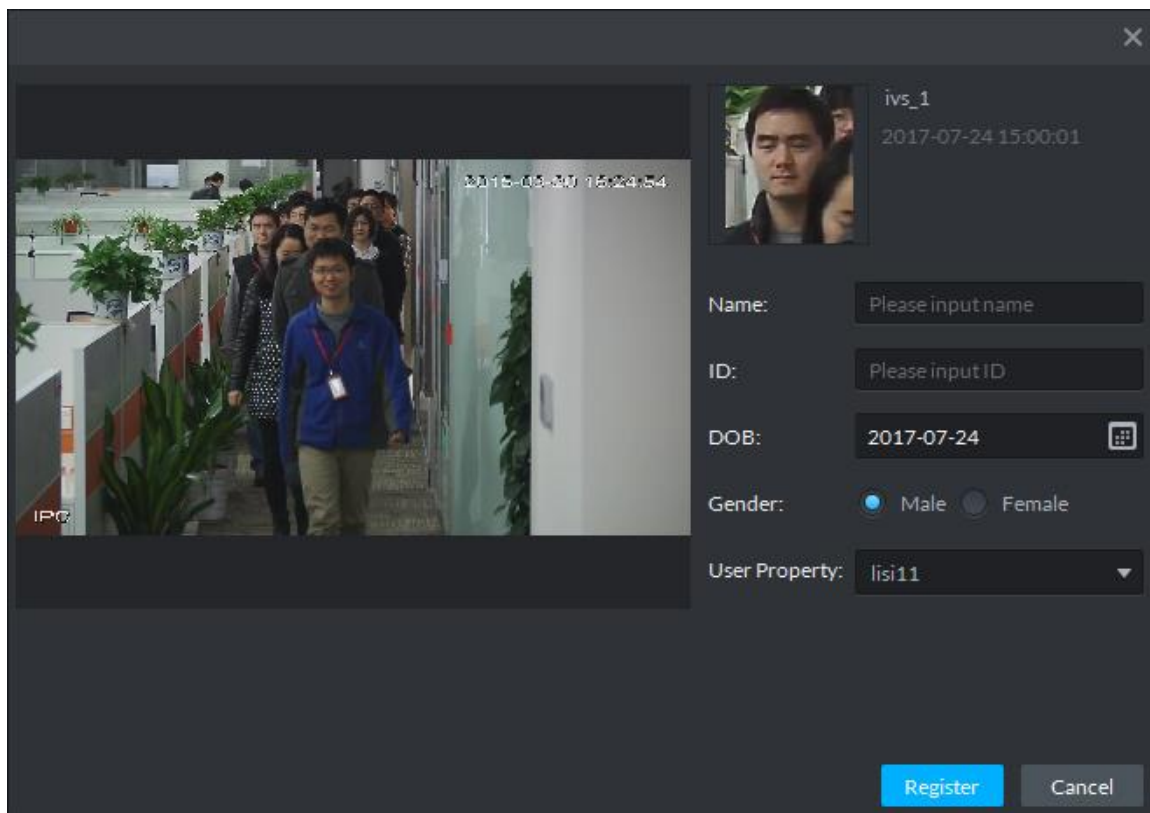

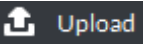
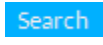


Figure 24-24

24.5.2 Snapshot Search

Step 1. Enter face recognition module, select  icon to enter snapshot search app. First select IVS device and channel (multiple choices), and then click  button to upload user snapshot you want to search. In read face snapshot, select face you want to search, drag your selected similarity and select period for search, click .

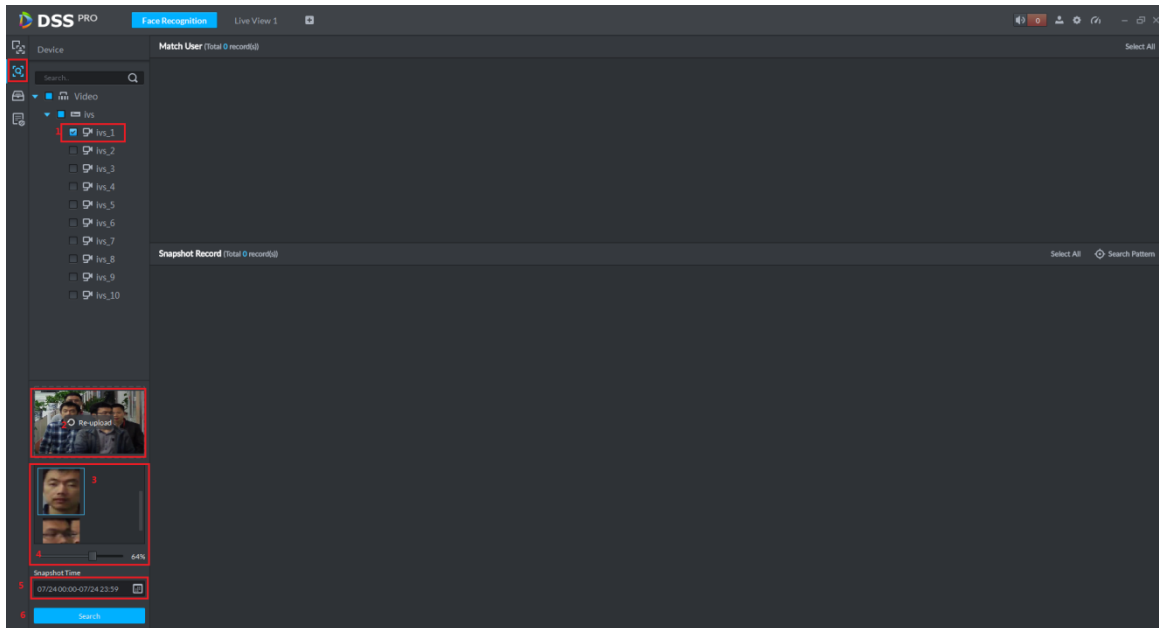


Figure 24-25

Step 2. See Figure 24-26, in Match User it shows matched record from user database. In Snapshot Record, you can see all matched records detected in the IVS channel.

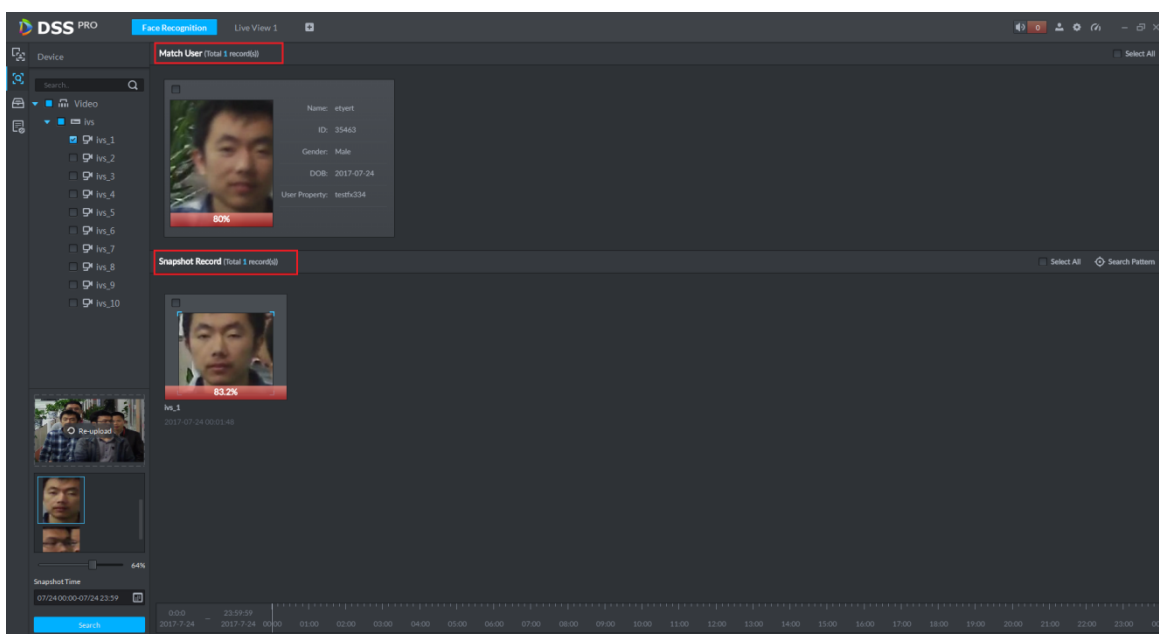


Figure 24-26

Step 3. In Snapshot Record, select picture, click  **Search Pattern** button to view user pattern.

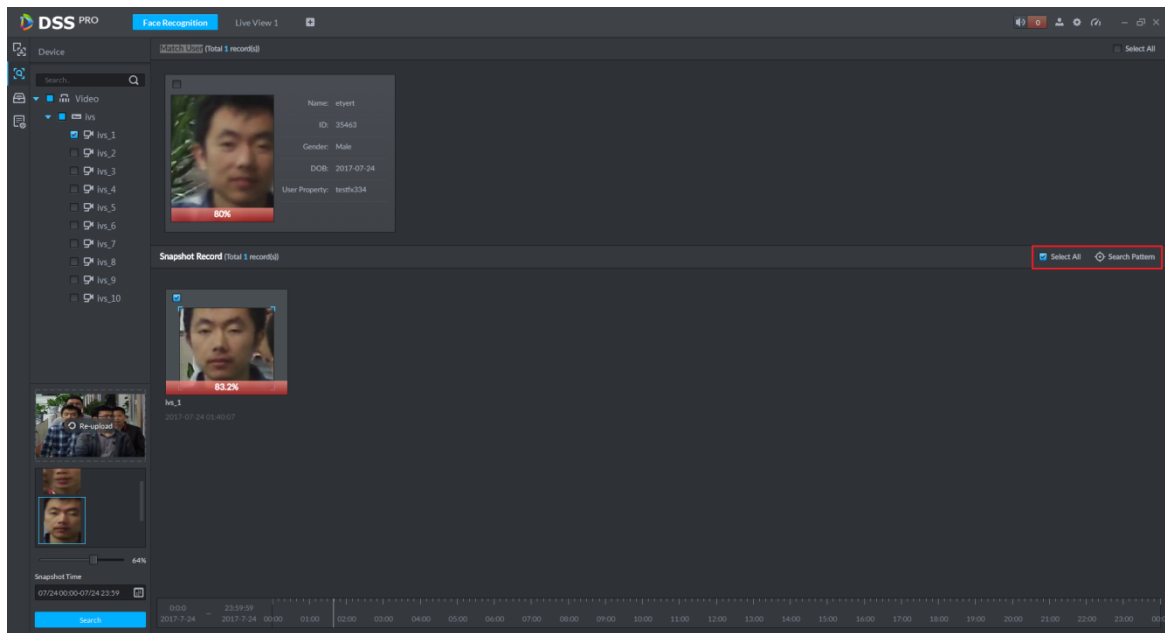


Figure 24-27

Step 4. See user pattern, See Figure 24-28

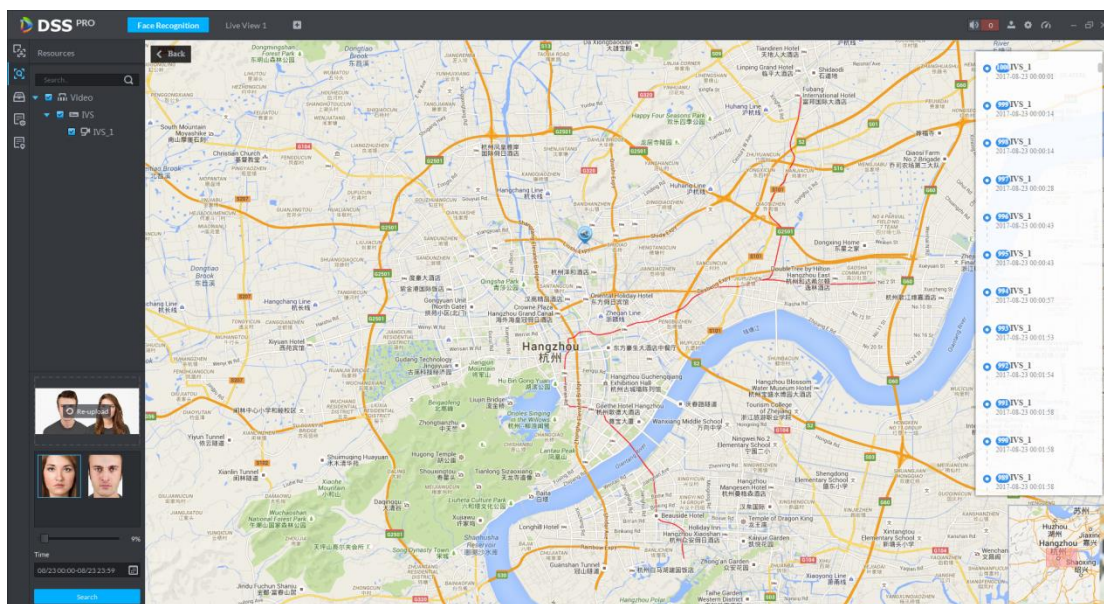




Figure 24-28

24.5.3 Info Search

Step 1. Enter face recognition module, select  mark to enter snapshot search app, see Figure 24-29 and select IVS device and channel (select one only), and select search period, user type, name, ID, gender and etc. Click  **Search** button to search.

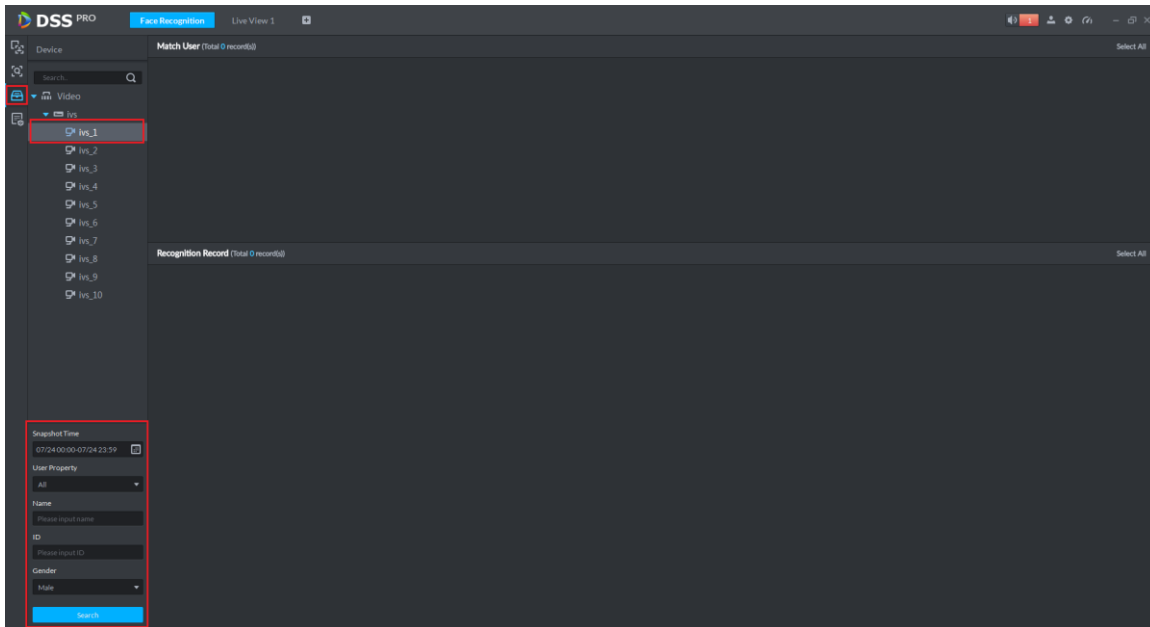


Figure 24-29

Step 2. Search result is in Figure 24-30. Match User shows match result by user type, name, ID, gender and etc. Recognition Record shows result of comparison between IVS channel snapshot record and user database.

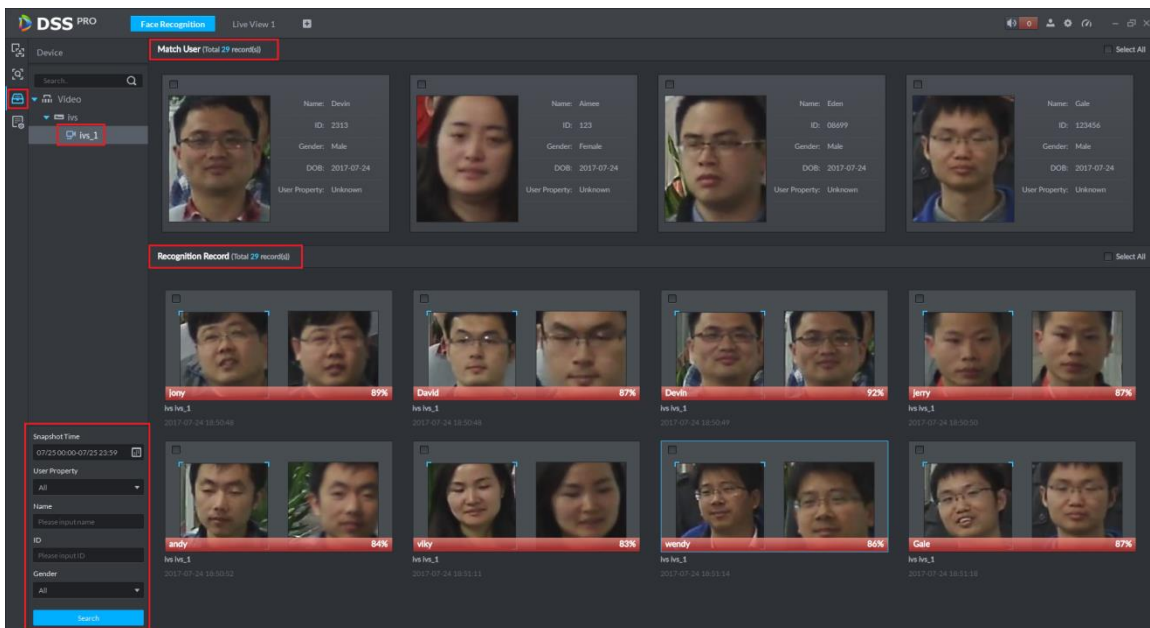


Figure 24-30


Step 3. Double click any one result in Recognition Record and you can see details of this recognition, as well as detailed scene of user, see Figure 24-31.



Figure 24-31

24.5.4 Arm Record

Arm record shows all detection records of existing user in user database by an IVS channel.

Step 1. Enter face recognition module, see Figure 24-32. Select  icon to enter picture search app, select period to search, click **Search** button.

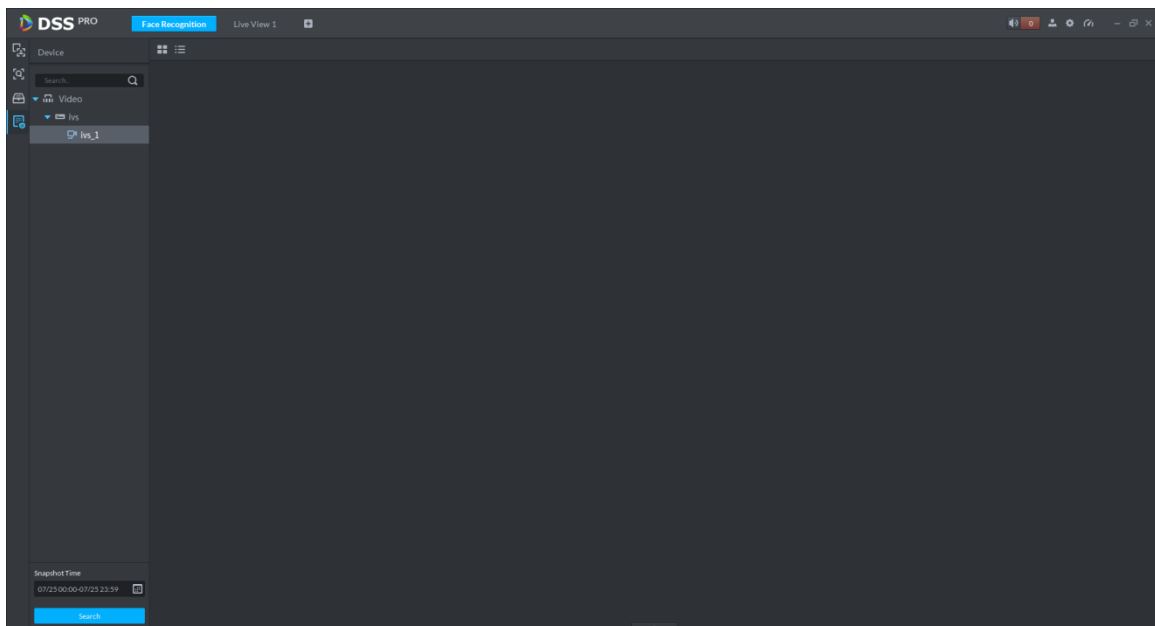


Figure 24-32

Step 2. See Figure 24-33, click **Statistics** button to search total record quantity.

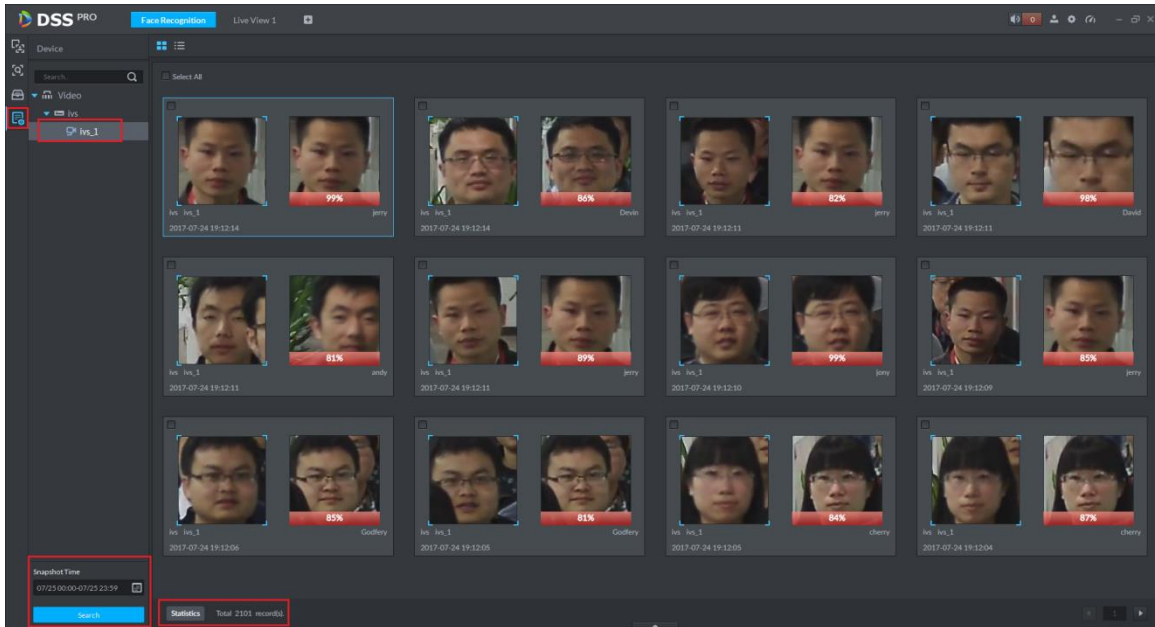


Figure 24-33

Step 3. Double click any one record to view details, see Figure 24-34, click **Previous One** or **Next One** button to view previous or next record.

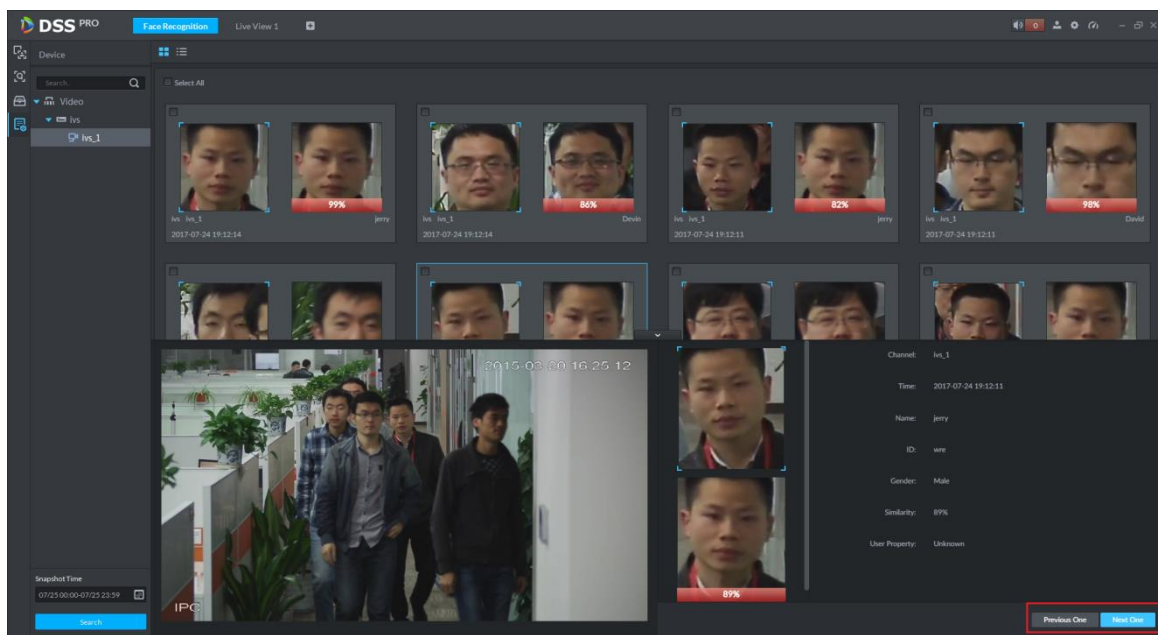



Figure 24-34

25 Smart Track

DSS Client supports smart track which links fisheye speed dome to general speed dome to better control each monitoring point.

Note:

Before operating smart track, you must go to Device manager to add fisheye device (after device is added, click , and select fisheye and general speed dome. See Ch 7.2.

25.1 Flow

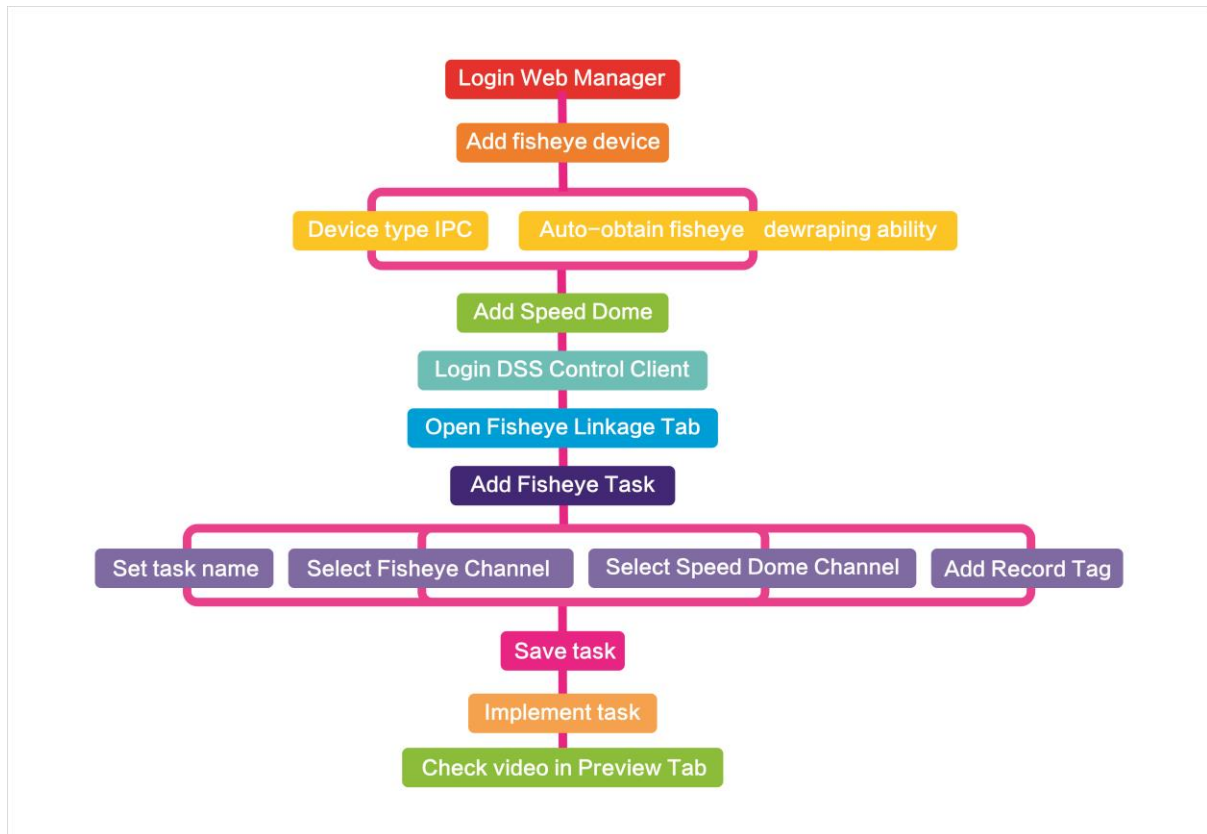


Figure 25-1

25.2 Add Monitor Task

Step 1. Click  next to Preview, select smart track.

Step 2. Click . See Figure 25-2.

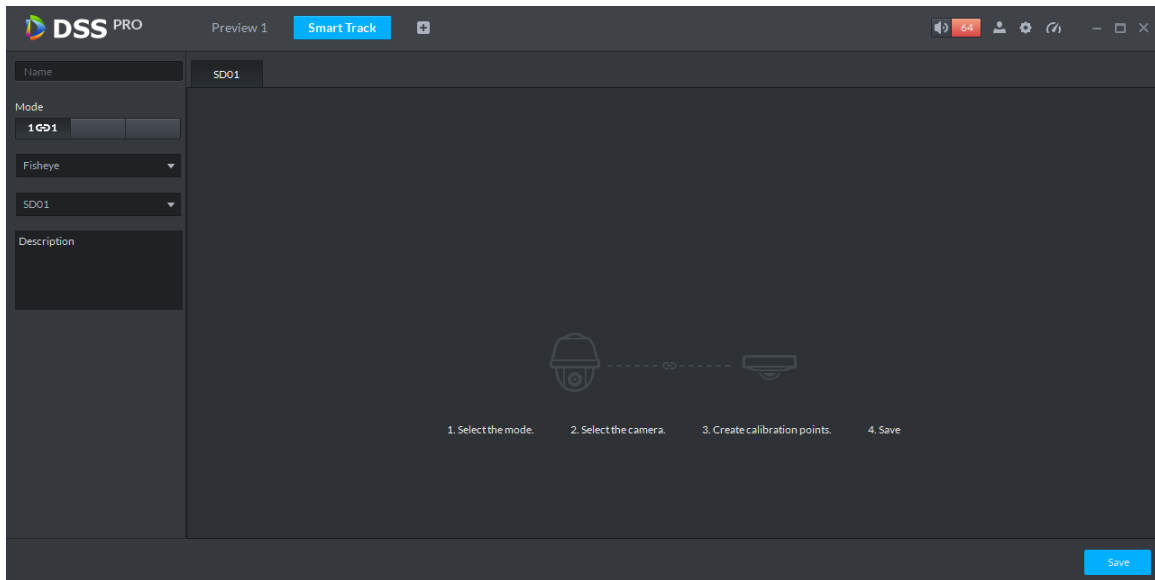


Figure 25-2

Step 3. Set monitor point name, select fisheye name and speed dome name, see Figure 25-3.

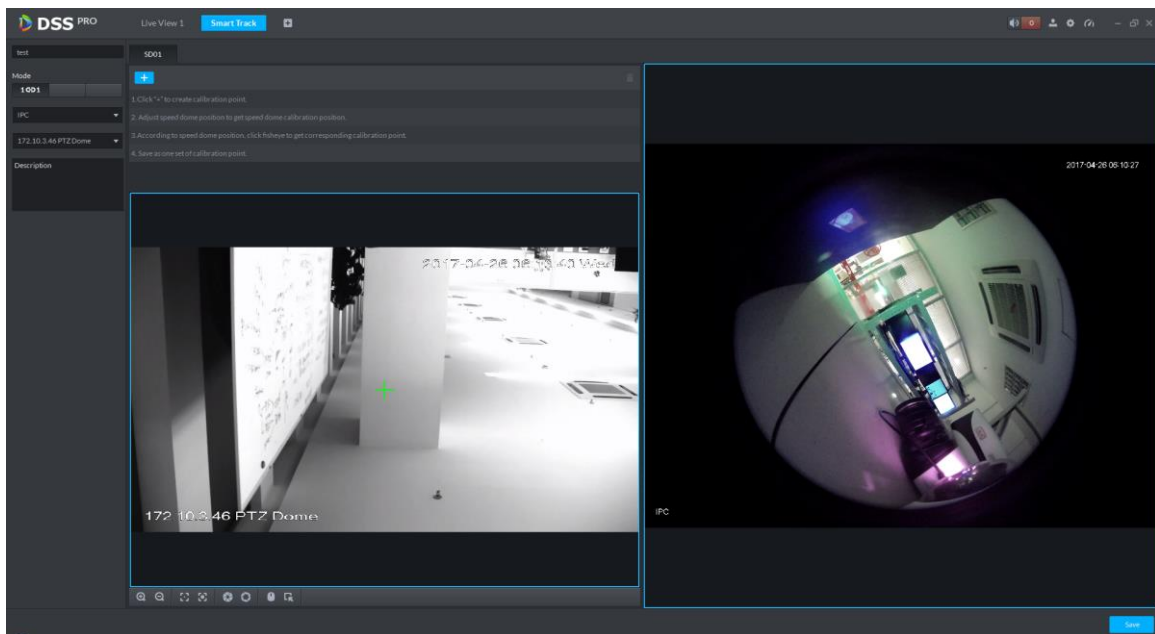





Figure 25-3

Step 4. Click , on the right move  to select one point. On general speed dome on the left, click  to rotate speed dome to find this point. Adjust PTZ to move to center position (green cross in window), see Figure 25-4.

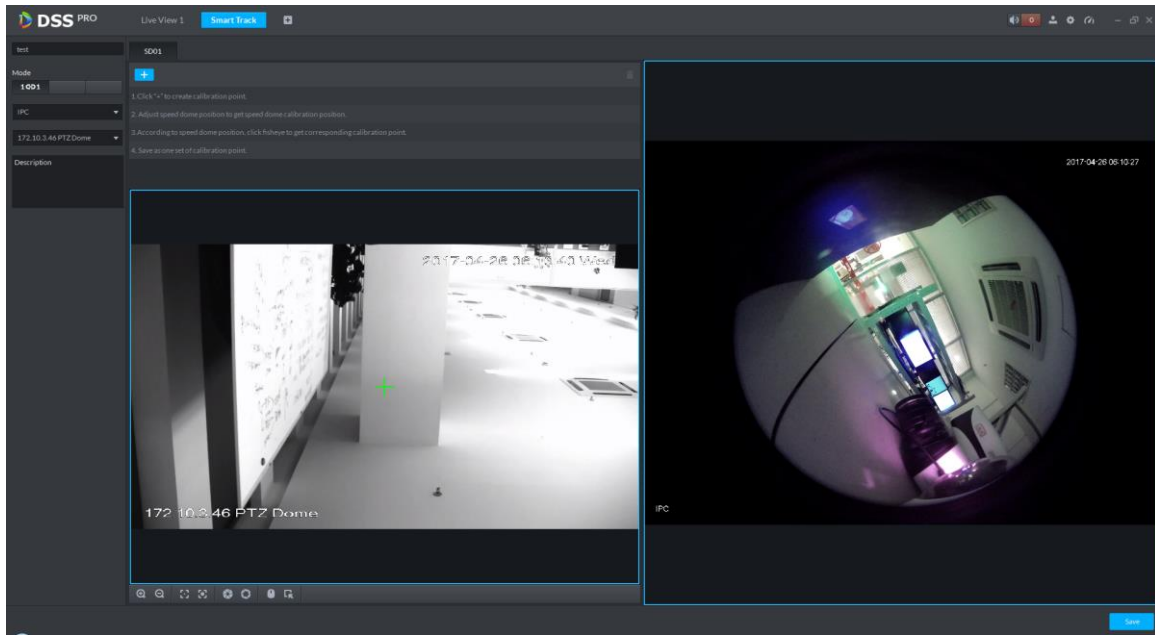




Figure 25-4

Note:

- Select 3-8 mark points on fisheye speed dome.
- When you find mark point on the left side of general speed dome, click  to zoom out PTZ.
- Click  to 3D position, and when you click a certain point on the left side of speed dome, it will auto move to the center.

Step 5. Click  to marked point.

Step 6. Follow Step 4. -5 to add at least three mark which shall not be on a same straight line.
See

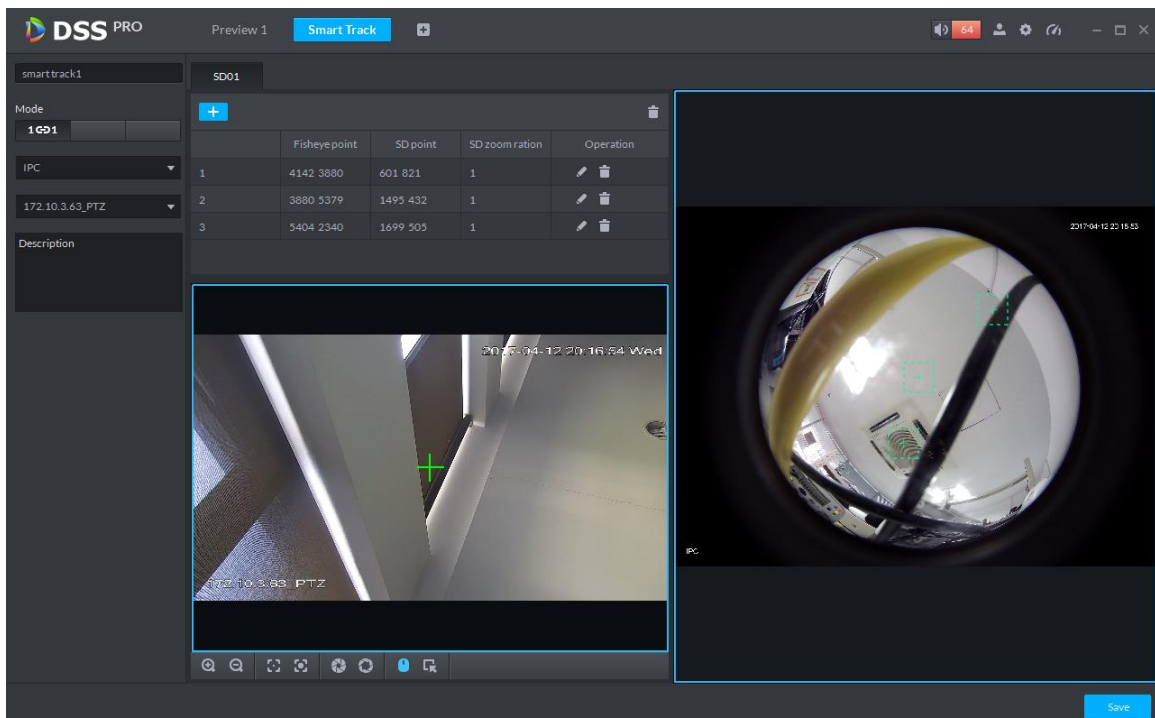


Figure 25-5

Step 7. Click Save, see Figure 25-6.

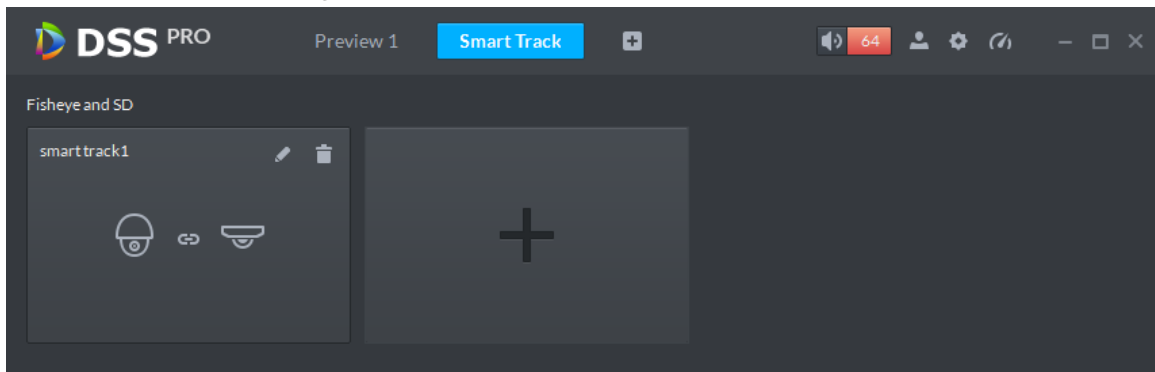


Figure 25-6

25.3 Execution of Fisheye Monitor Task

Step 1. Double click complete monitor task box, enter Preview interface, see Figure 25-7.

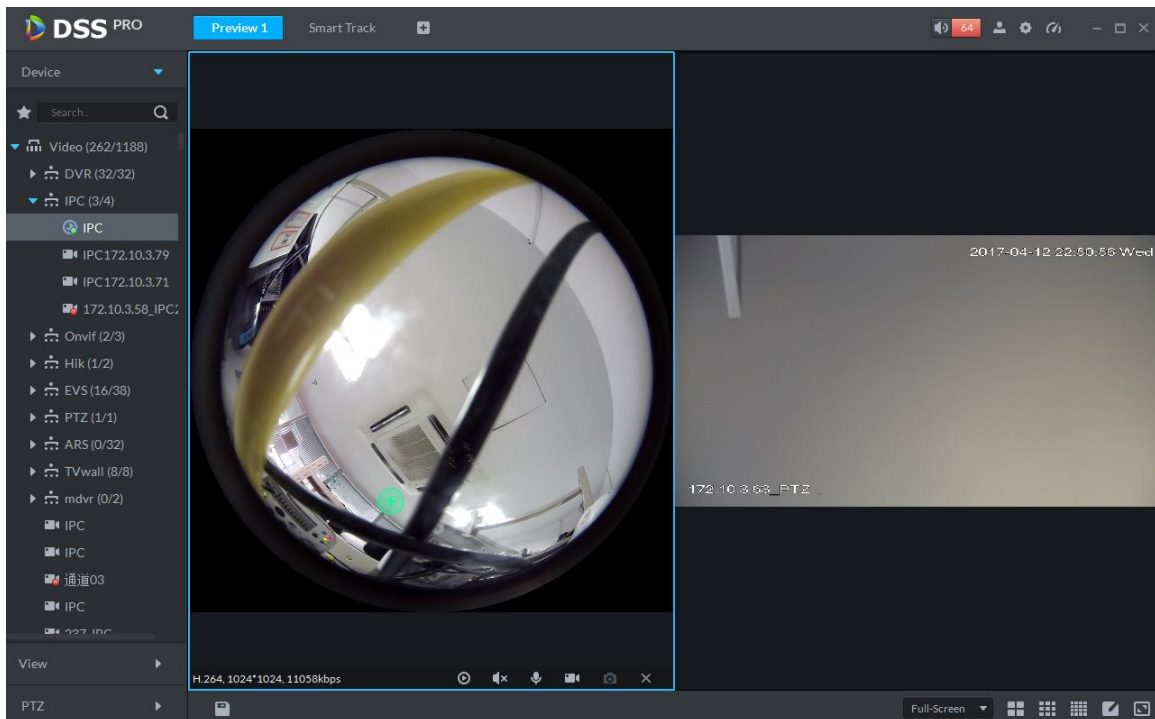



Figure 25-7

Step 2. Click any point on the left of fisheye, general speed dome on the right will auto link to corresponding position.

Step 3. Click , pop up Save the View box, see Figure 25-8.

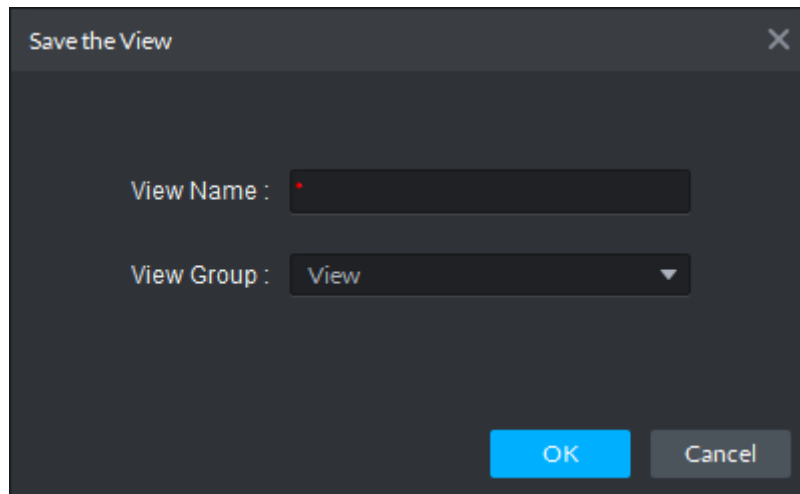
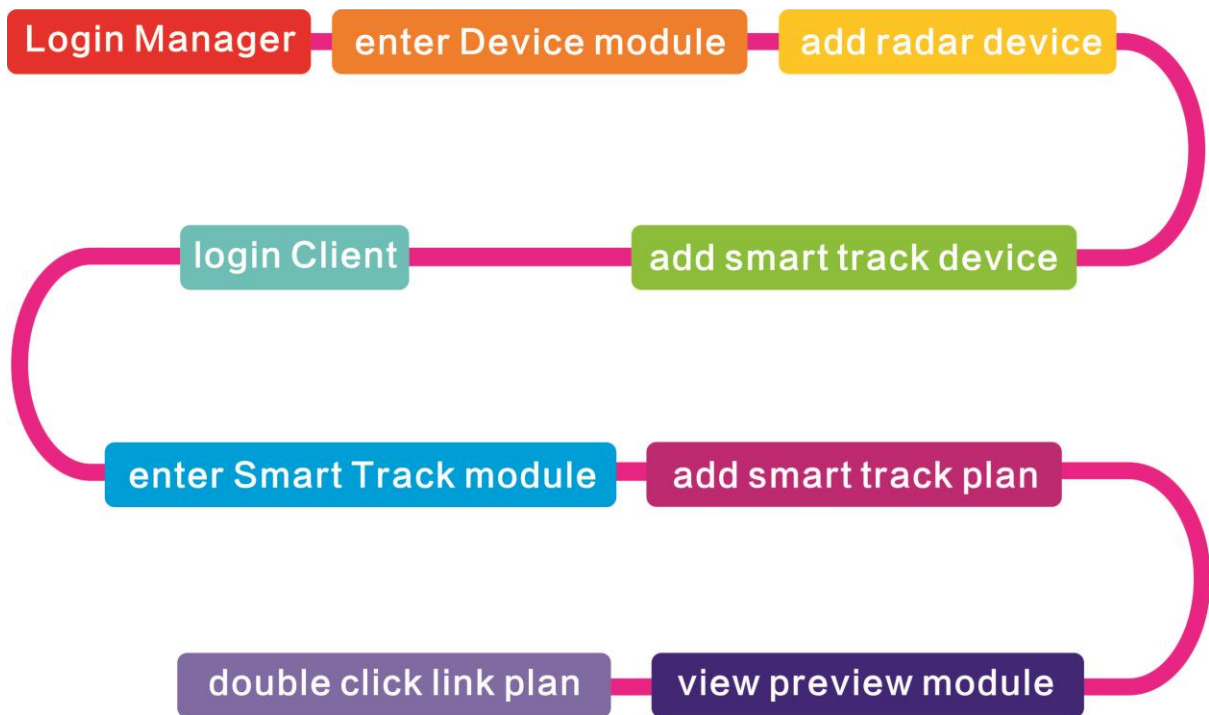


Figure 25-8


Step 4. Enter view name, select group, and click OK.

26 Radar Smart Track

26.1 Business Flow



26.2 Add Radar

Step 1. Login Manager, enter Device module, in Figure 26-1 click  Add to enter Add interface.

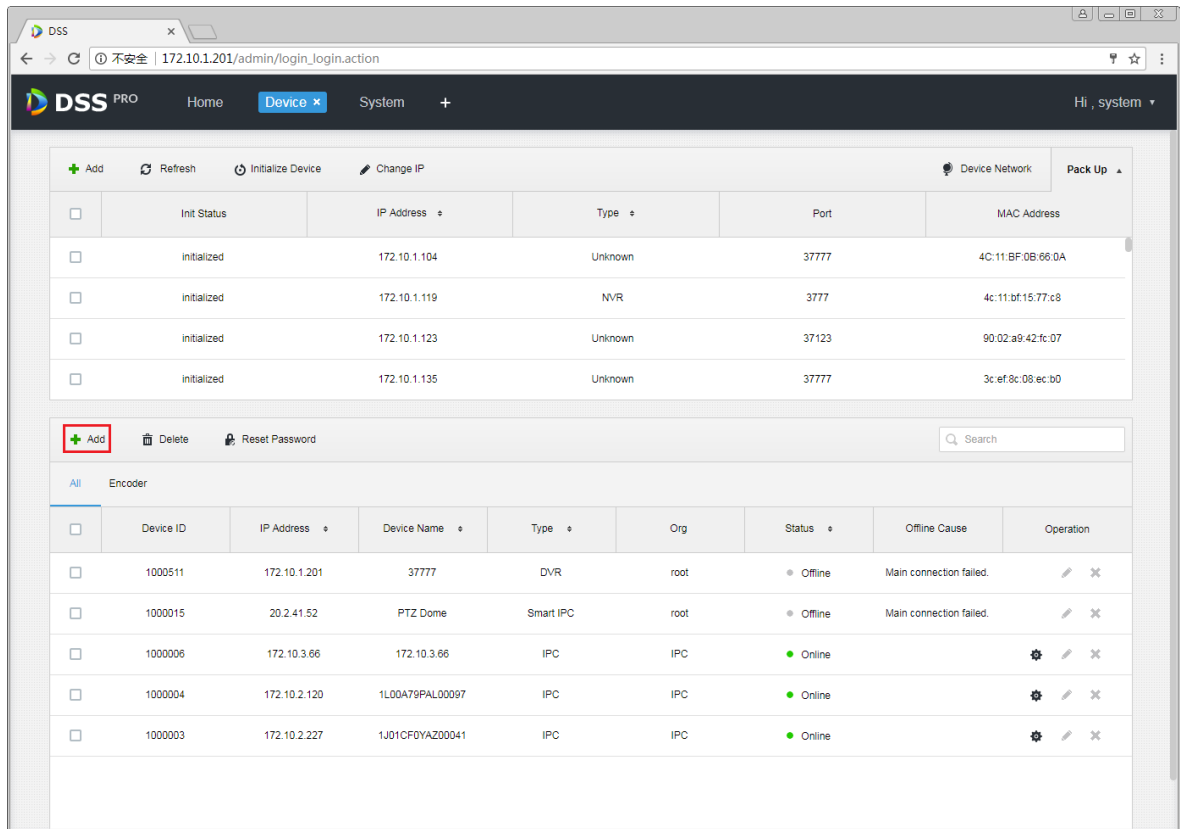


Figure 26-1

Step 2. In Figure 26-2, device category shall be “Radar Device” and enter device IP, port, username and password. Select device organization and server, click **Add** to go to next step.

Add All ✕

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

Figure 26-2

Step 3. In Figure 26-3, fill in radar device name, select device model (currently support B100 and B300), fill in device SN, select device role and click OK.

Add All ✕

2. Device Information. 1.Login Information 2.Device Information

Device Name: * Radar-B300


Type: B100

Device SN: B100
B300

Role: Administrator,Operator

Back Continue to add OK

Figure 26-3

Step 4. Radar device is shown in Figure 26-4. Click  to edit this radar device.

+ Add - Delete 🗑️ Reset Password Org: root 🔍 Search									
All Encoder ANPR Device Intelligent Device Matrix Radar Device									
<input type="checkbox"/>	Device ID	IP/Domain	Device Name	Type	Org	Status	Offline Cause	Operation	
<input type="checkbox"/>	1000066	10.11.9.194	Radar-B300	B300	root	Online			

Total 1 record(s). ⏪ 1 ⏩ Go to page 1 Go

Figure 26-4

Step 5. Click to edit this radar device, see Figure 26-5.

Edit device.other ✕

Basic Info

Virtual Channel

Input Info

Protocol:

IP Address:

Device Port:

Video Server:

Manufacturer:

User:

Password:

Org:

Device Details

Device Name:

Type:

Device SN:

Figure 26-5

26.3 Add Smart Track

Step 1. Login Manager, enter device module, in Figure 26-6 click to enter Add interface.

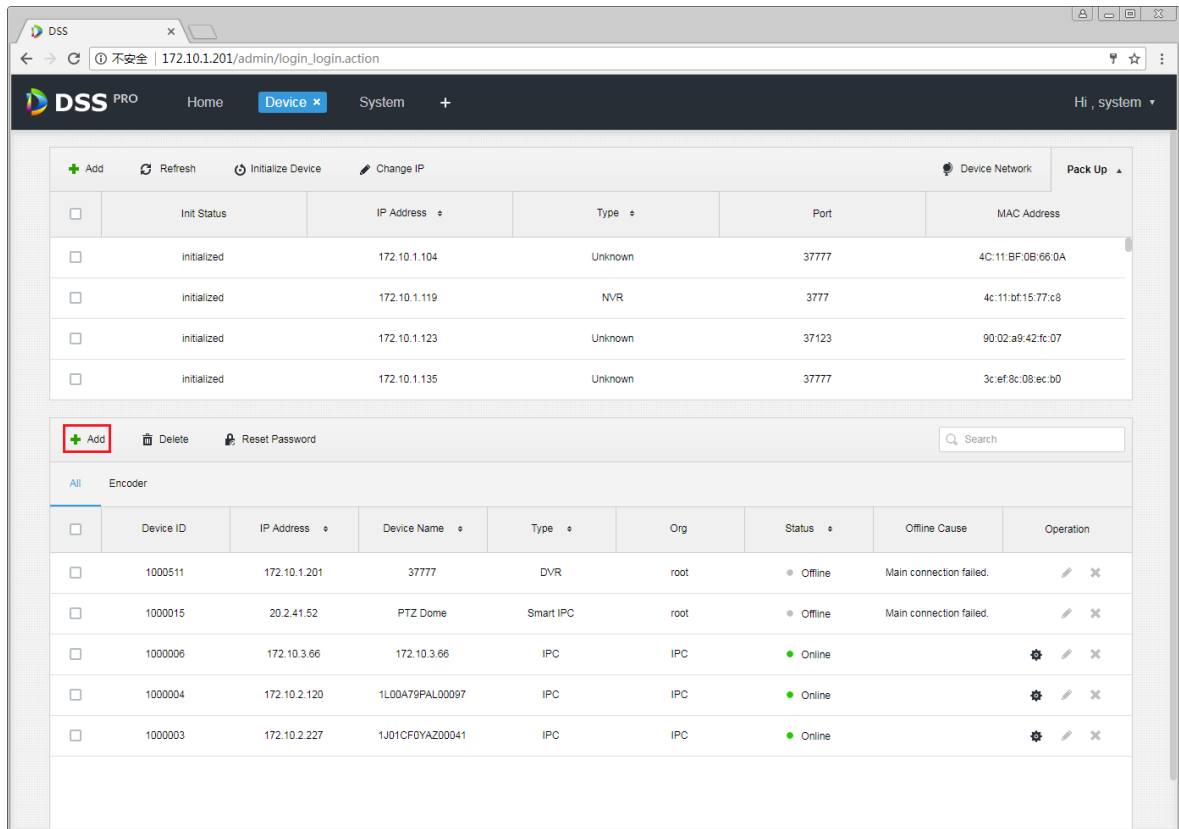


Figure 26-6

Step 2. In Figure 26-7, for device category select “Encoder”, enter smart track dome IP, port, username and password. Select device organization and server, click **Add** to go to next step.

Add All ✕

1. Login Information. 1.Login Information 2.Device Information

Protocol:

Manufacturer:

Add Type:

Device Category:

IP Address:

Device Port:

User:

Password:

Org:

Video Server:

Figure 26-7

Step 3. In Figure 26-8 fill in smart track dome name. When network is unobstructed, the platform will auto get device type and channel info. See the figure, select device role, click OK.

Add All ×

2. Device Information. 1.Login Information 2.Device Information

Device Name:

Type:

Device SN:

Role:

Video Channel:

Alarm Input Channel:

Alarm Output Channel:

Figure 26-8

Step 4. Smart track device is in Figure 26-9.

+ Add			Delete			Reset Password			Org: root	Search
All Encoder ANPR Device Intelligent Device Matrix Radar Device										
<input type="checkbox"/>	Device ID	IP/Domain	Video Server	Device Name	Type	Org	Status	Offline Cause	Operation	
<input type="checkbox"/>	1000042	10.33.10.144	Center Server	dev37777	DVR	root	Offline	Netwok anomaly.		
<input type="checkbox"/>	1000067	10.11.9.193	Center Server	PTZ-RADAR	Smart IPC	root	Online			
<input type="checkbox"/>	1000064	172.10.3.57	Center Server	people count	Smart IPC	root	Online			
<input type="checkbox"/>	1000048	10.33.10.27	Center Server	10.33.10.27	EVS	root	Online			
<input type="checkbox"/>	1000040	10.33.10.241	Center Server	10.33.10.241	DVR	root	Online			
<input type="checkbox"/>	1000036	172.10.1.138	Center Server	172.10.1.138	EVS	root	Online			

Total 6 record(s).

Go to page 1 Go

Figure 26-9

26.4 Smart Track Plan Setup

Step 1. Login Client, open New tab to enter radar smart track module, see Figure 26-10.

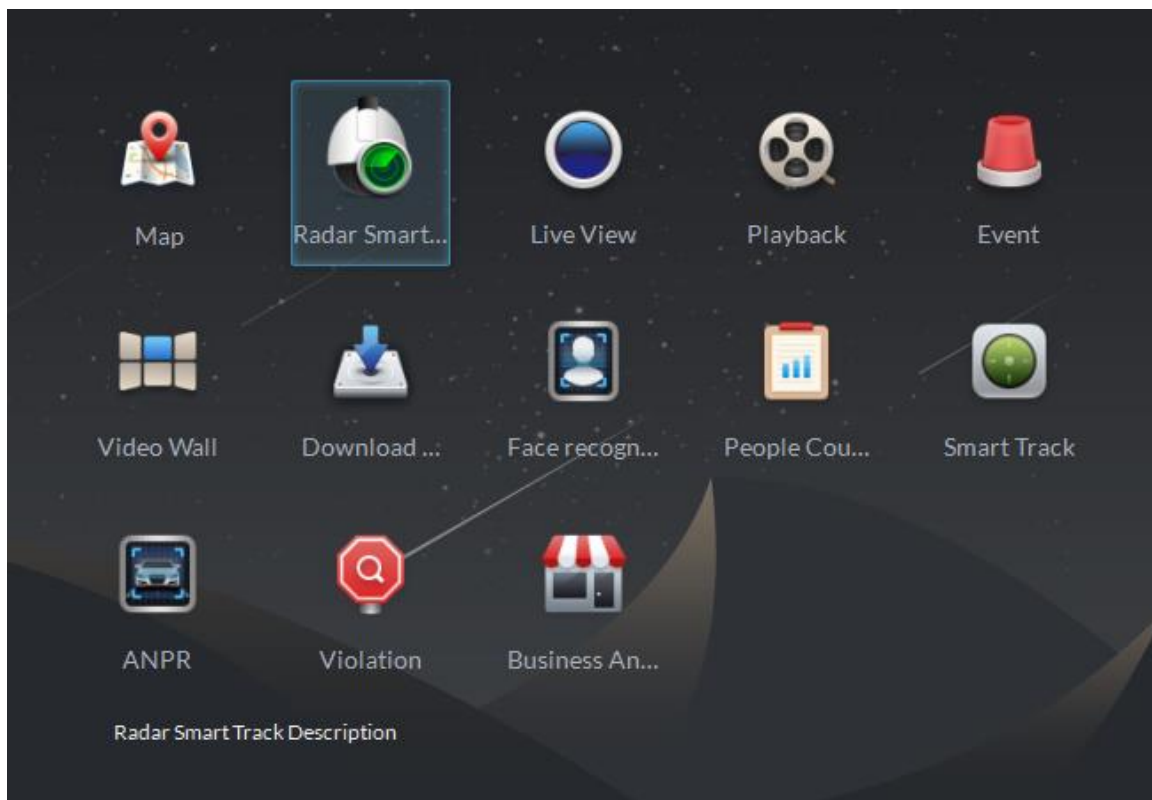


Figure 26-10

Step 2. Enter radar smart track module, see Figure 26-11 for initial status, click to add link plan.

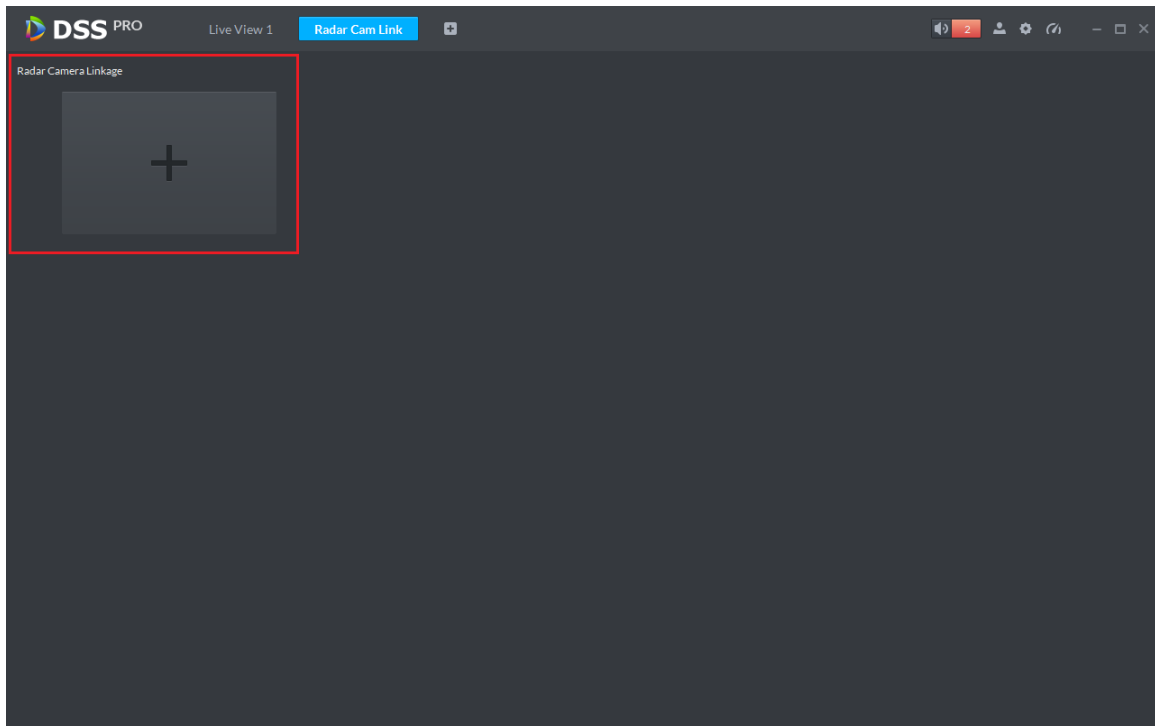


Figure 26-11

Step 3. Enter add interface, see Figure 26-12 prompt “No map data, please set the map on the left first.” Because radar channel shall be dragged onto ma and if the system has not added map, you shall login Manager and add map.

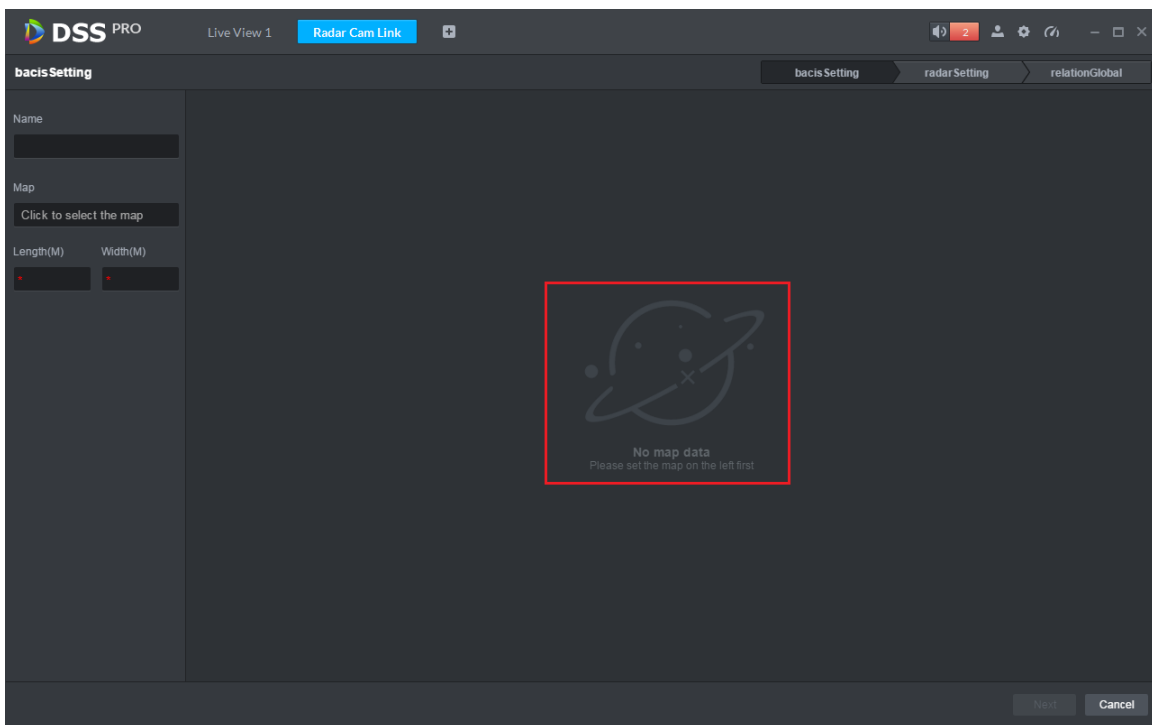


Figure 26-12

Step 4. Basic config. Set plan name, select map. Enter actual length and width of map’s corresponding area. See Figure 26-13 and Figure 26-14. Click Next to enter radar config.

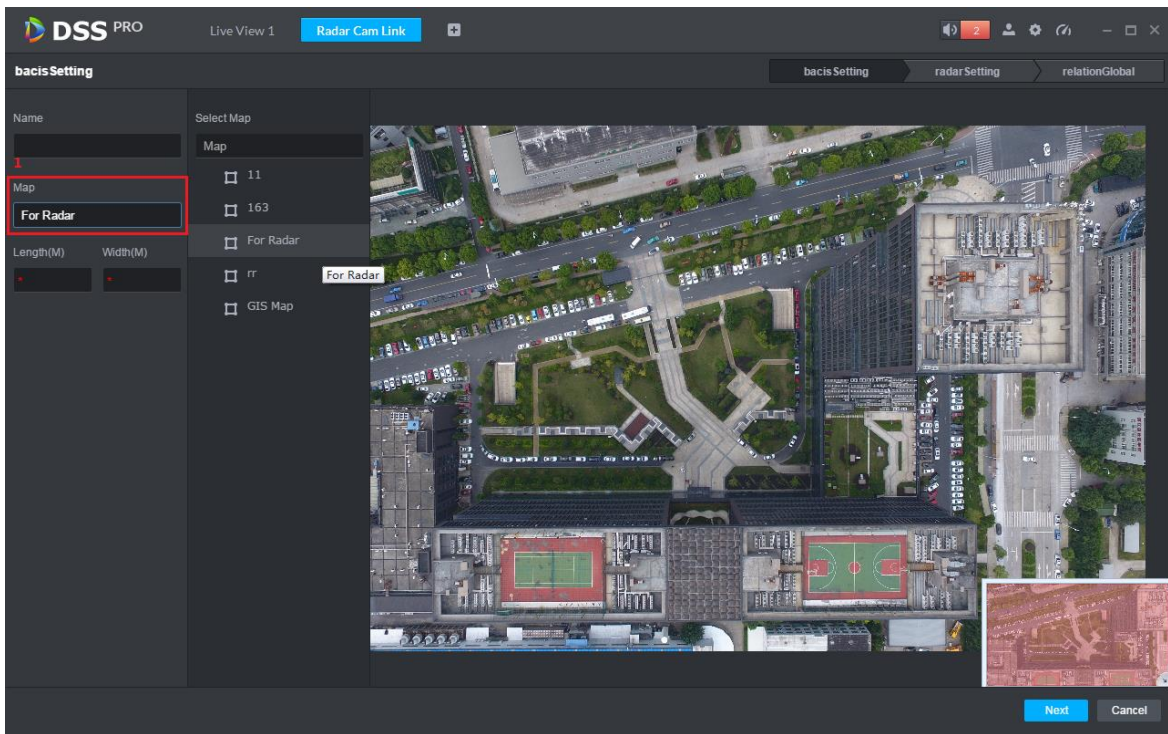


Figure 26-13

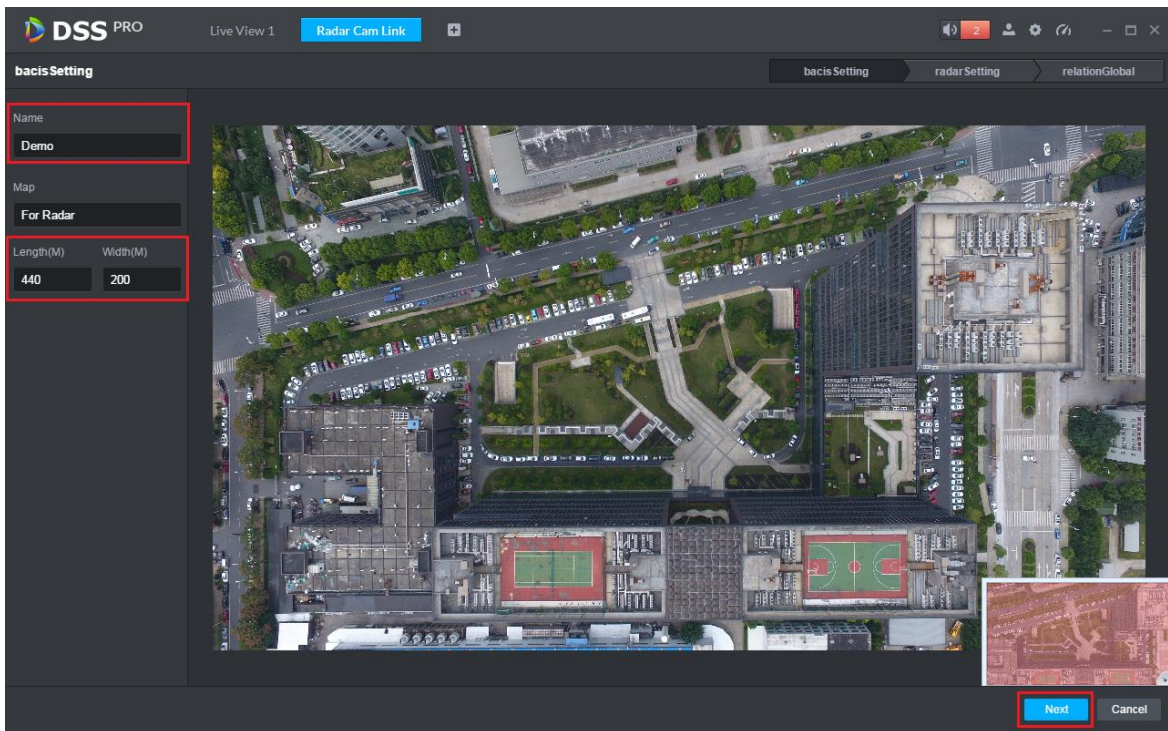


Figure 26-14

Step 5. Enter radar setup, see Figure 26-15, select corresponding radar channel and drag it to actual installation position on map.

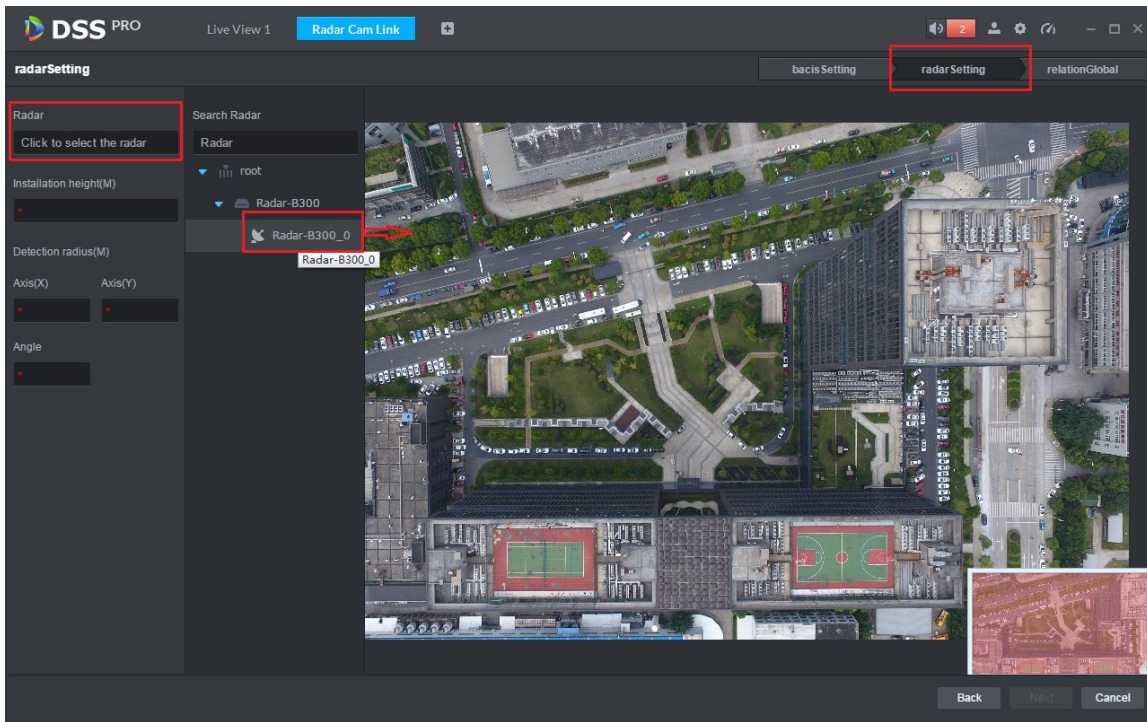


Figure 26-15

Step 6. In Figure 26-16 you can set radar device installation height. Manually rotate blue shadow area to adjust radar device monitoring area as well as you can manually adjust angle value. Click Next to enter smart track dome config.

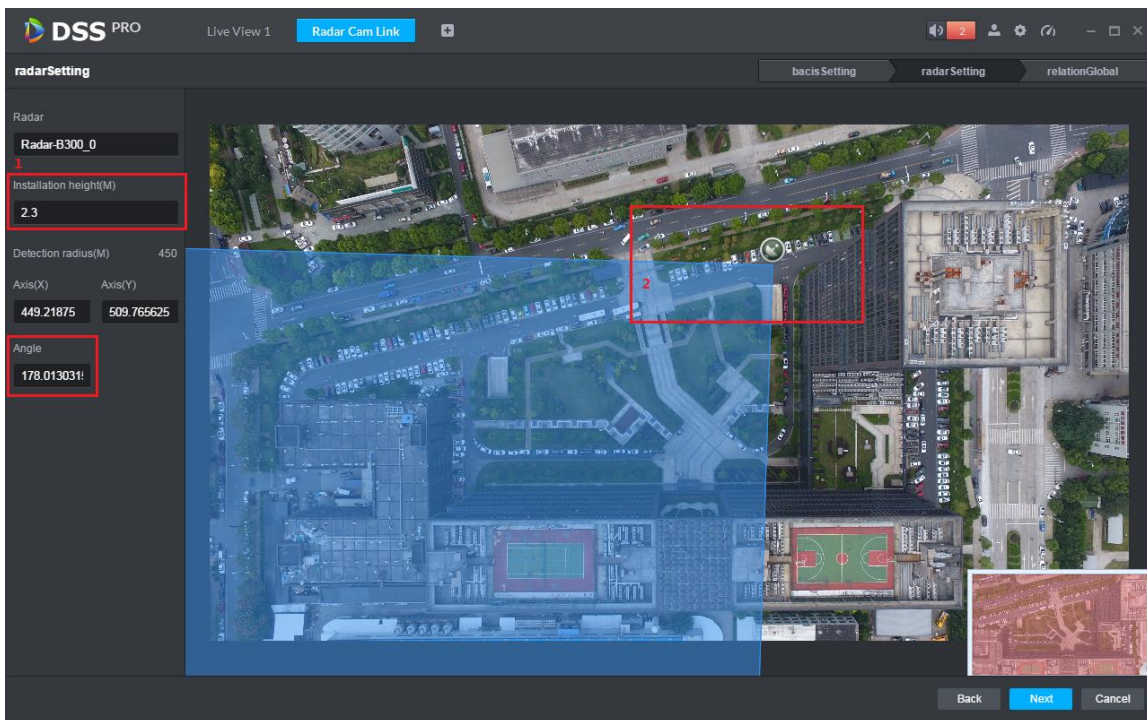


Figure 26-16

Step 7. Config dome. In Figure 26-17, click speed dome and select input box. In open device list, double click channel you want to link.

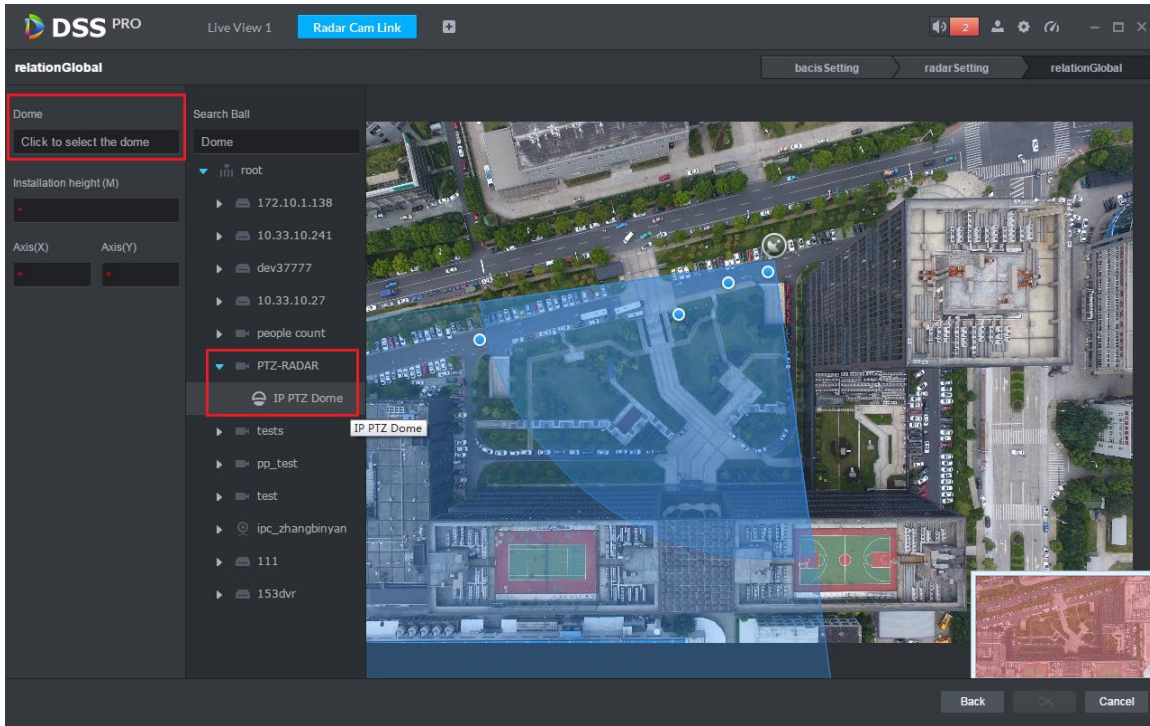


Figure 26-17

Step 8. In Figure 26-18, set speed dome installation height, XY axis data are auto gotten.

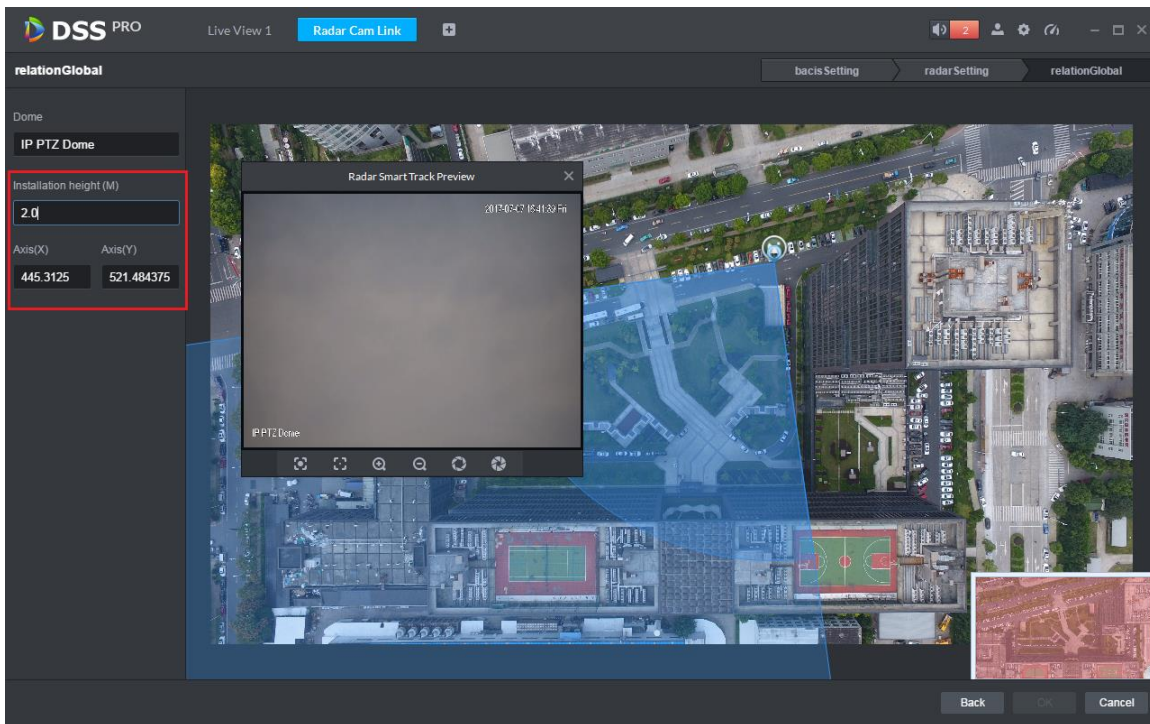


Figure 26-18

Step 9. Set calibration point. You shall link radar to monitoring position of the dome via one calibration point. See Figure 19-9. How to set: in radar monitoring area, select one blue point (detected moving object), then the blue point turns to yellow; rotate dome toward this moving object, click OK to save.

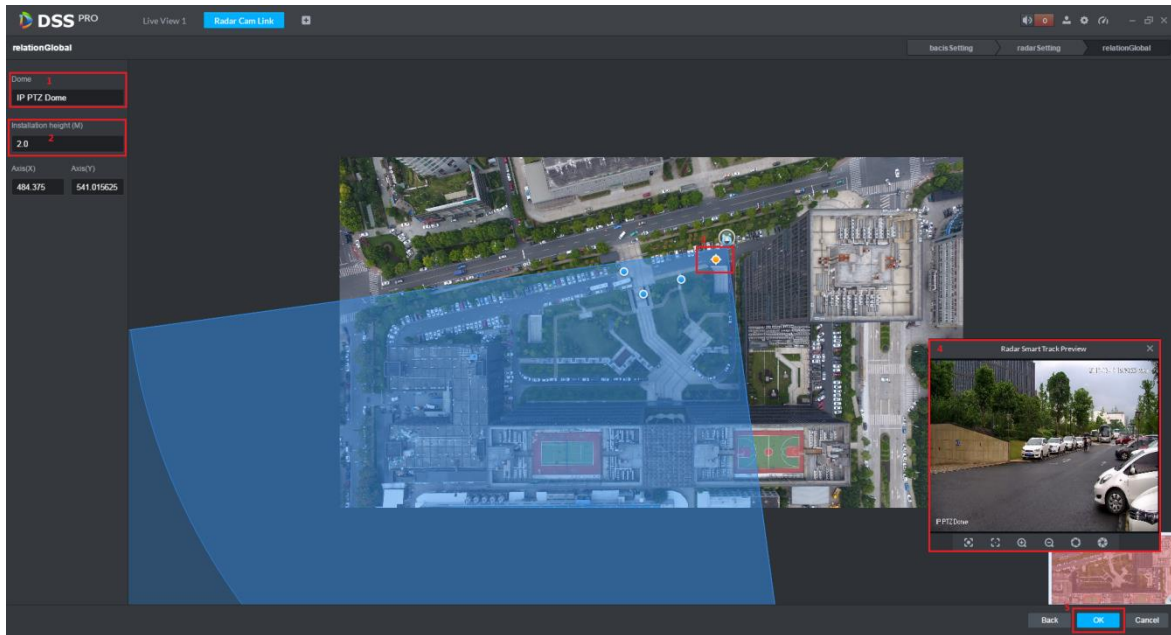




Figure 26-19

Step 10. Radar link plan view and modification. In Figure 26-20, click  to edit this plan. Click  to delete this plan.

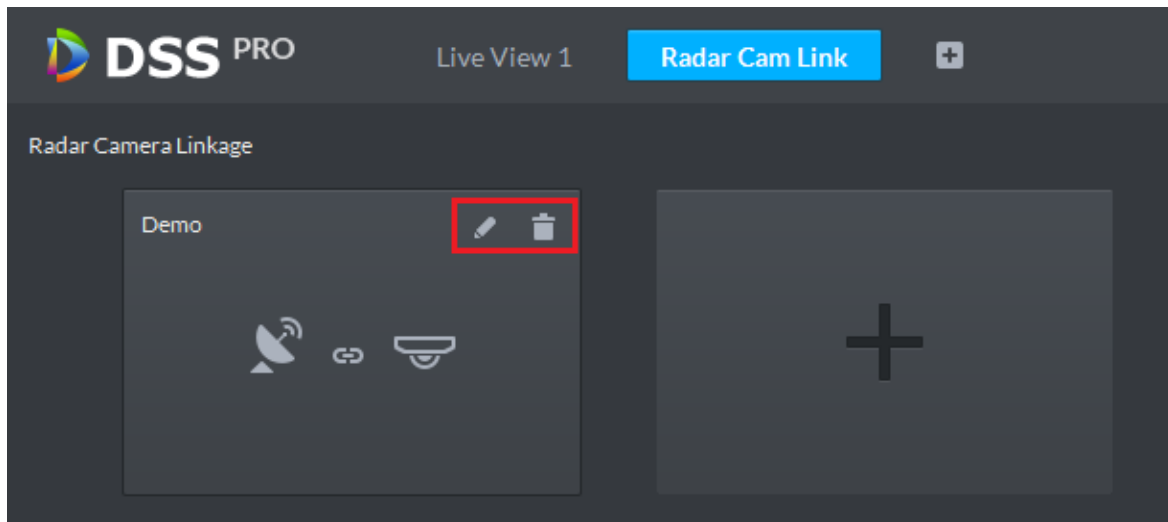


Figure 26-20

26.5 Application Display

Step 1. In smart track module, see Figure 26-21, double click plan list to open set link plan.

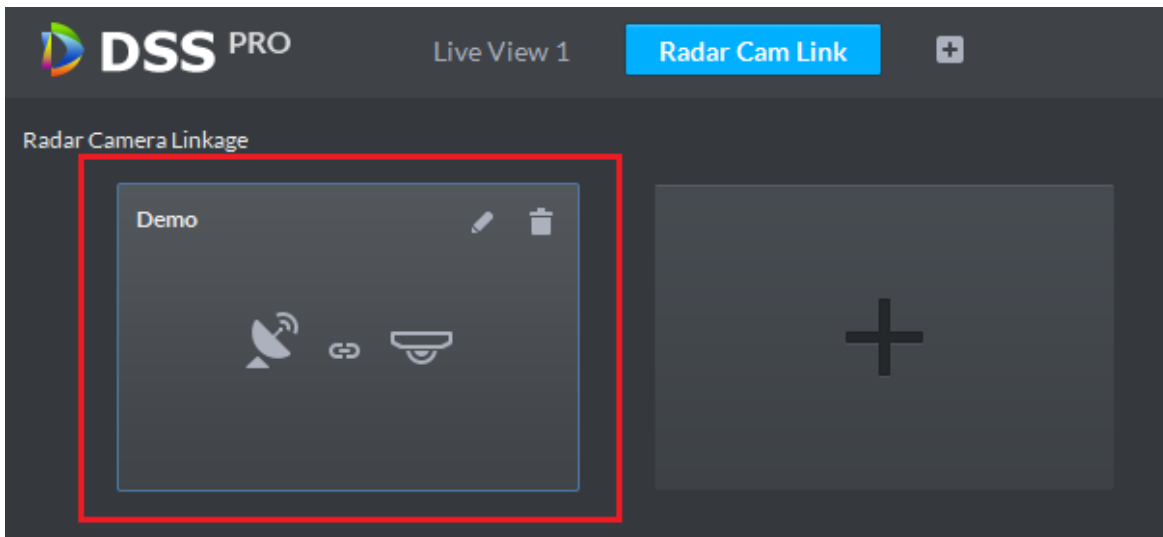


Figure 26-21

Step 2. Open plan to it auto goes to live view module, see Figure 26-22, when moving object appears in monitoring range of radar, dome will auto track this object. You can freely drag the dome.



Figure 26-22

27 Backup and Restore

DSS Manager supports to back up config info and save backup to local PC, meantime it supports to restore backup file.

Note:

Only “system” user can back up and restore which means only when a user login via “system” account, he/she can back up and restore config.


27.1 System Backup

27.1.1 Intro to Function

To ensure user data security, DSS Professional system provides backup function of data. It includes manual backup and auto backup.

27.1.2 Manual Backup

Step 1. Login DSS Manager.

Step 2. Click  next to Home, select Backup and Restore, see Figure 27-1.

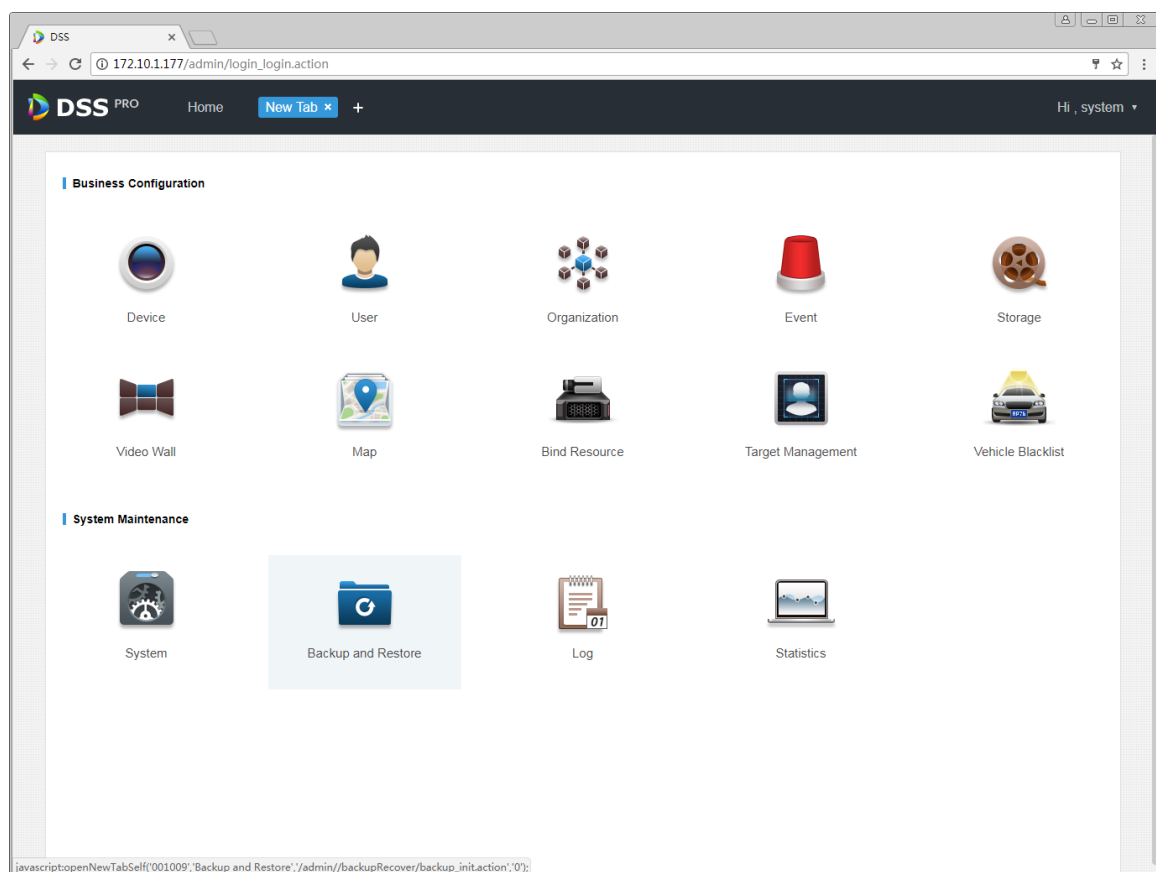



Figure 27-1

Step 3. Select  tab, enter backup interface, see Figure 27-2.

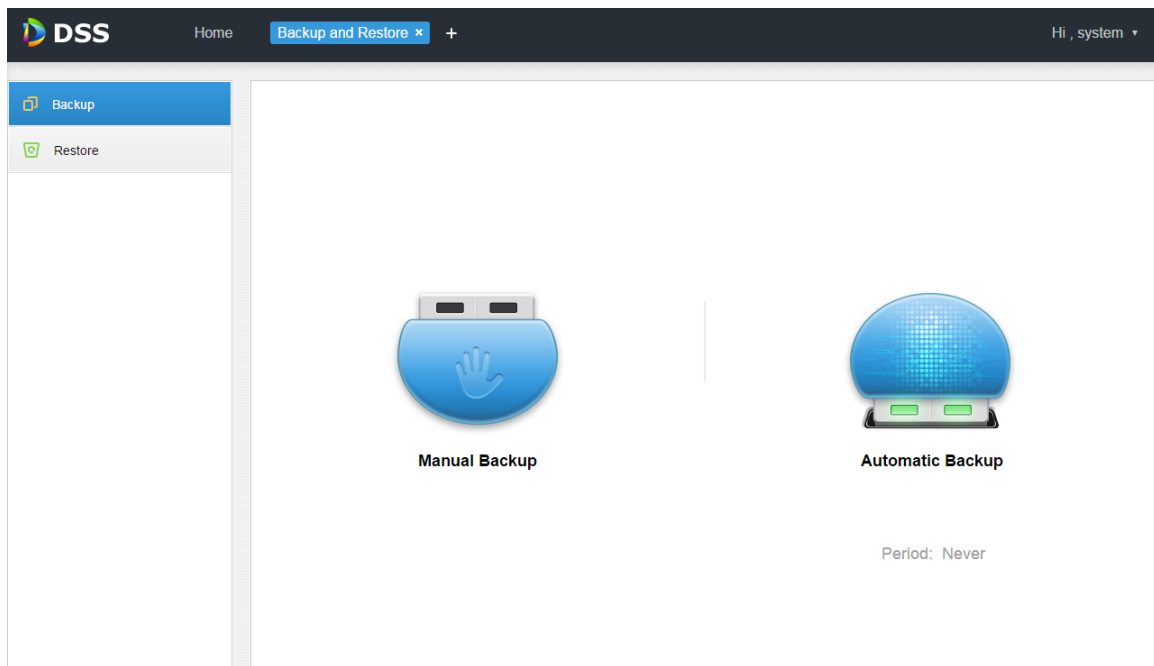


Figure 27-2



Step 4. Manually back up data by clicking  .

Step 5. Backup result is shown, and you can see backup result at the lower-left corner in explorer (as well as download content of explorer). Click to show it in folder. Default backup path is C:\Users\”actual user name”\Downloads.

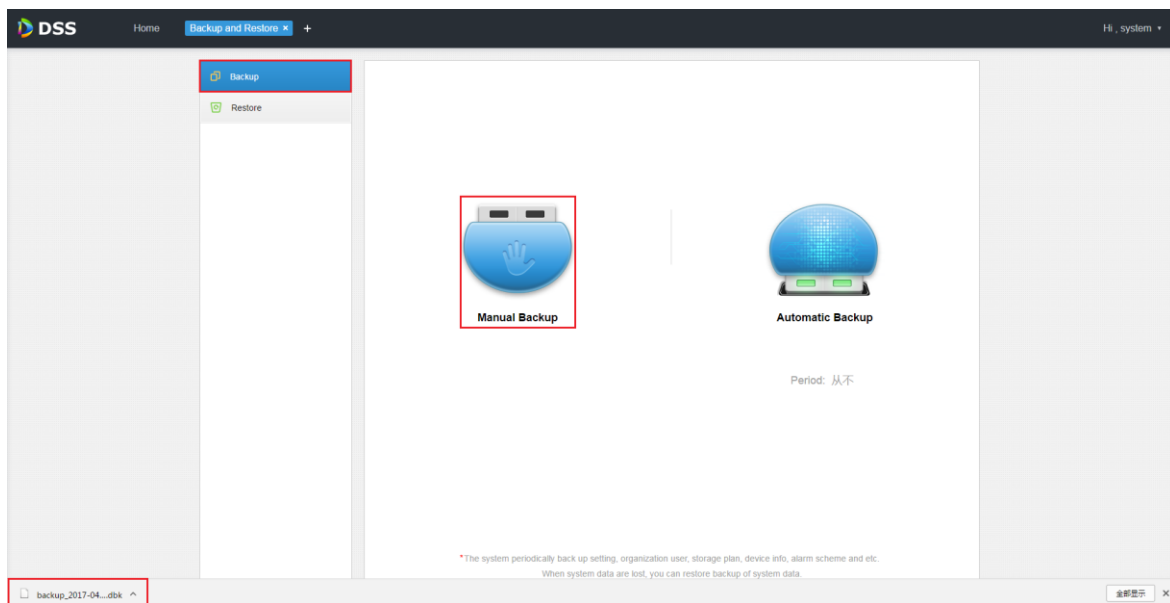


Figure 27-3

Step 6. See Figure 27-4 pop up box, enter password to encrypt this backup file.

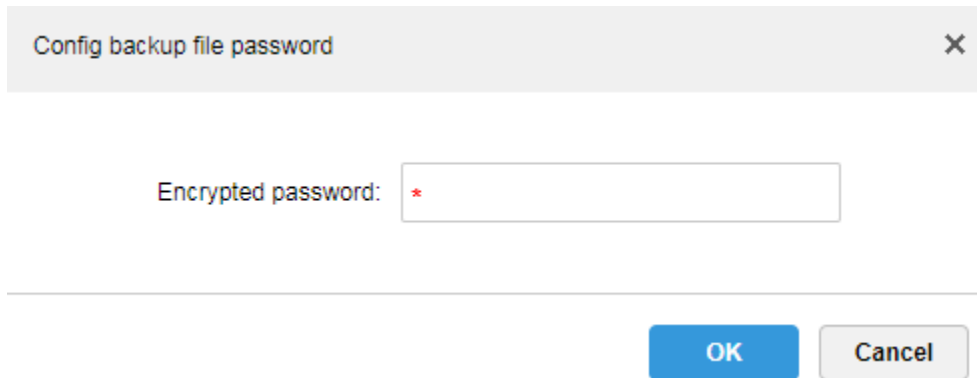


Figure 27-4

Step 7. In default path, see Figure 27-5.



 backup_2017-04-12 (1).dbk	2017/4/12 17:11	DBK 文件	89 KB
 backup_2017-04-12.dbk	2017/4/12 17:07	DBK 文件	89 KB

Figure 27-5

27.1.3 Auto Backup

Step 1. Refer to Ch 18.1.2 Step 1.~3.



Step 2. Auto back up, click  , see Figure 27-6.

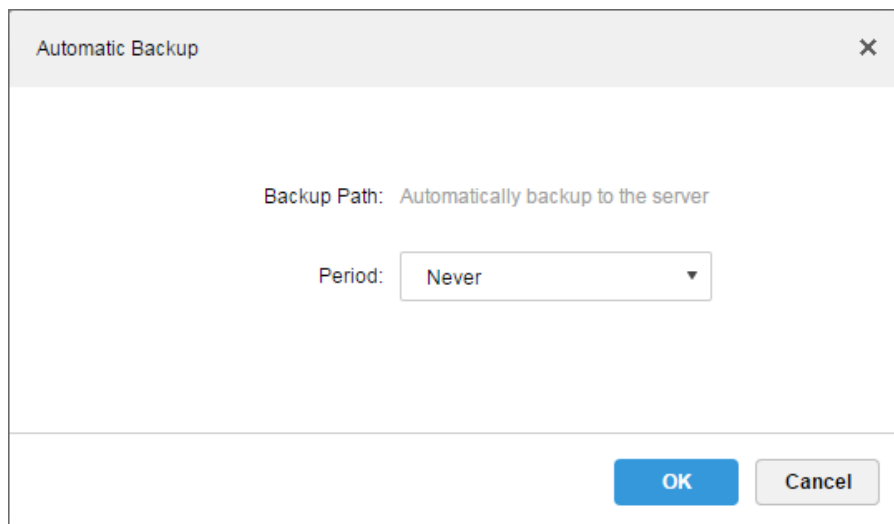


Figure 27-6

Step 3. Select backup period from dropdown list, you can select: never, by data, by week, by month, see Figure 27-7.

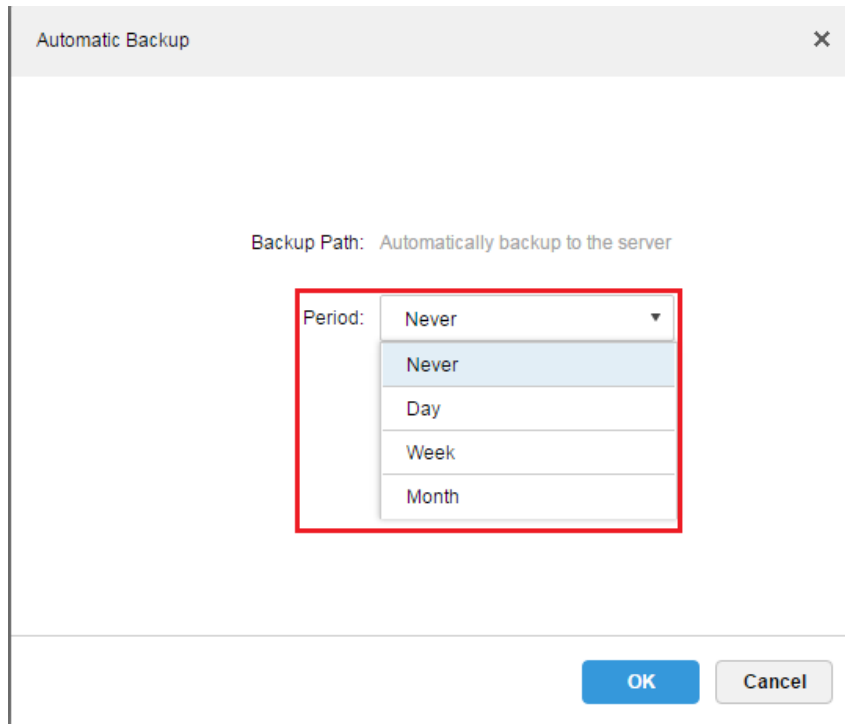



Figure 27-7

Step 4. Select backup period, and the pages show setup menu, you can set auto backup execution time. After you set time, click  to save config. The system auto back up data by selected period and time to server.

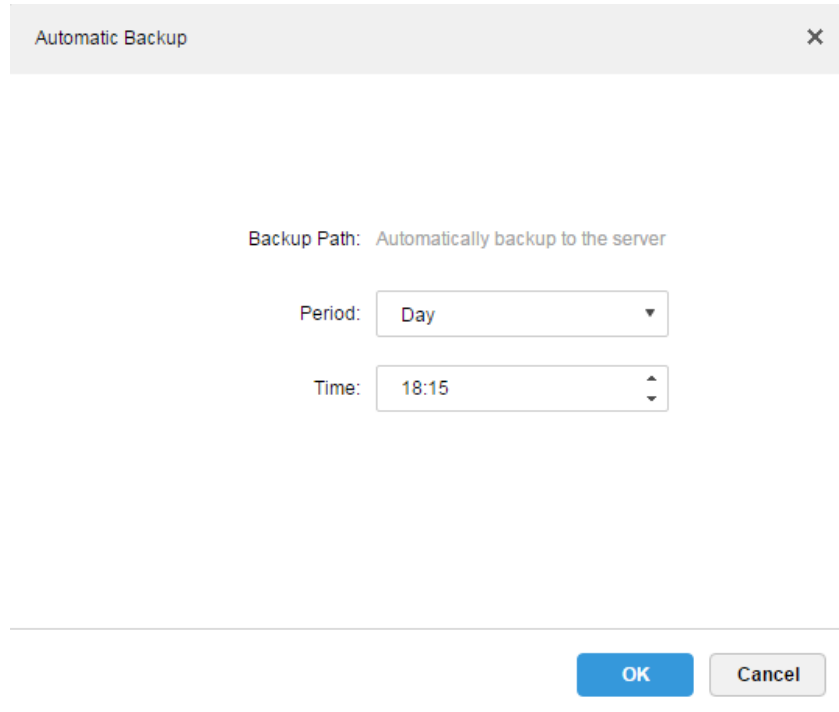


Figure 27-8



Automatic Backup

Period: Day

Time: 18:15

Figure 27-9

Step 5. On server, view auto backup file. Default backup path is server installation directory-Servers-bak- db_backup, see Figure 27-10.



 172.5.1.207_dss_20170412_1.sql	2017/4/12 18:15	SQL 文件	221 KB
 172.5.1.207_dss_20170412_dm1_1.sql	2017/4/12 18:15	SQL 文件	42 KB

Figure 27-10

27.2 System Recovery

27.2.1 Intro to Function


When user database is abnormal, you can use the recovery function to recover data to the latest backup so DSS system can quickly recovers thus minimize user loss.

Warning:

Before you restore system, you shall stop DSS operations done by other users. This function will change data info, be careful!

27.2.2 Restore Local File

Local file restore is to restore manually backed up file to server.

Step 1. Select  Restore tab, enter Restore interface, see Figure 27-11.

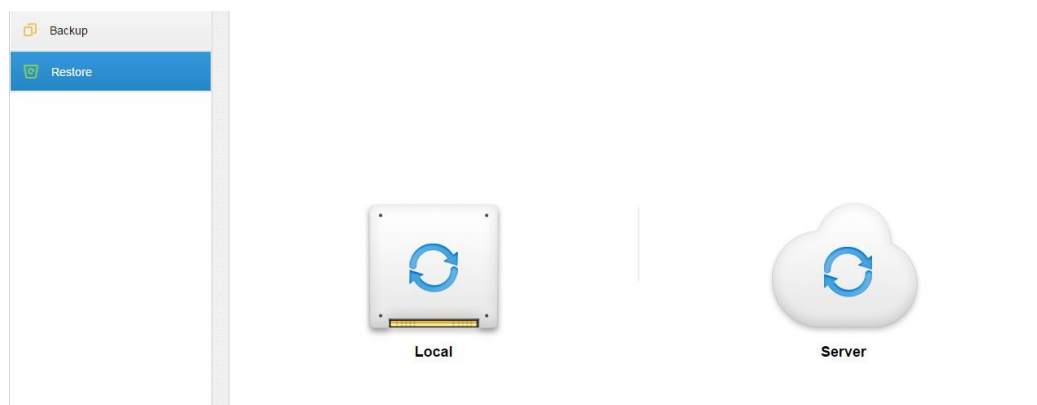



Figure 27-11

Step 2. Click  , select local file to restore, click **Choose** and select file. Click **OK** to continue, see Figure 27-12.

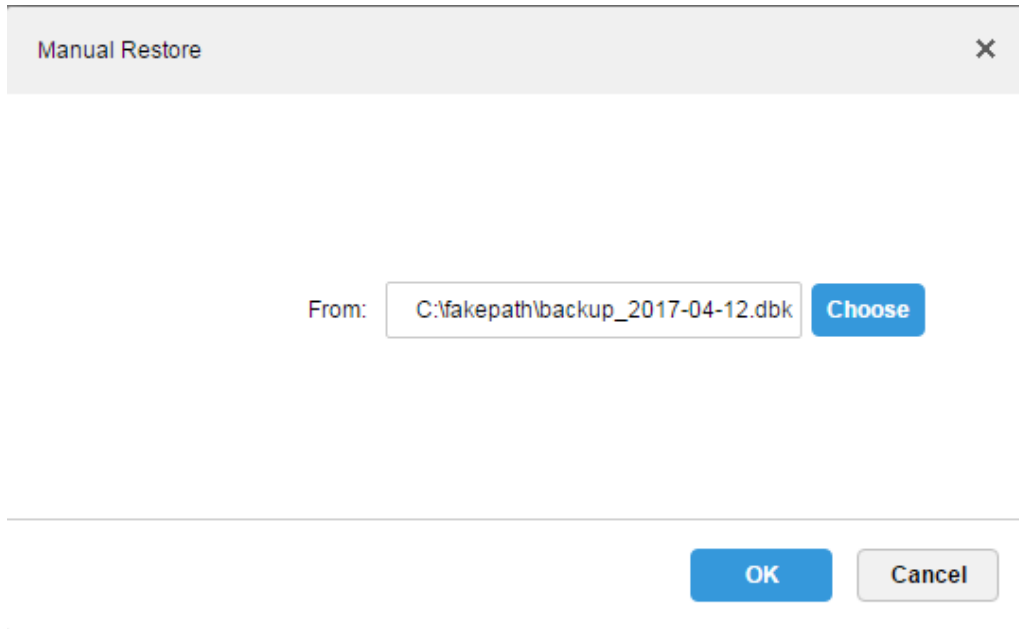


Figure 27-12

Step 3. Enter admin password to restore, see Figure 27-13.

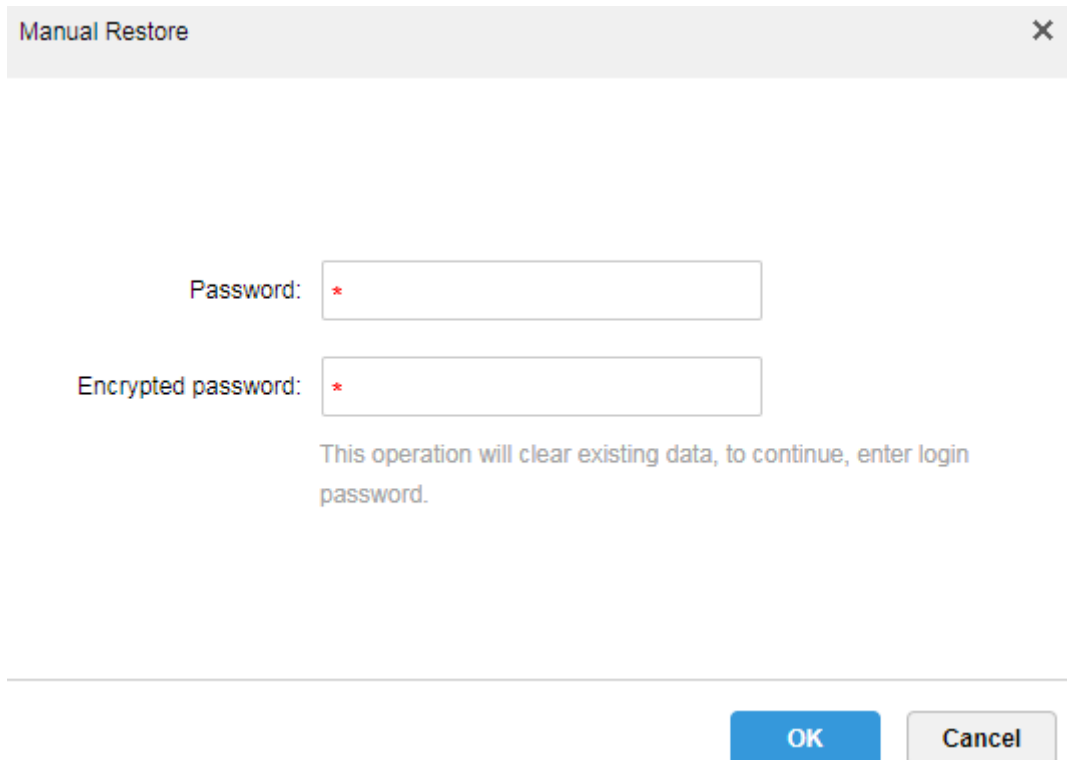


Figure 27-13

Step 4. Now it is restoring data, you can see percentage of progress complete.
Step 5. When it successfully restores, system will reboot.

27.2.3 Restore Server File

Select to restore backup file on server, however, you must have enabled auto backup function of the system already, so the server has backed up file periodically.

Step 1. Select  Restore tab, see Figure 27-14.

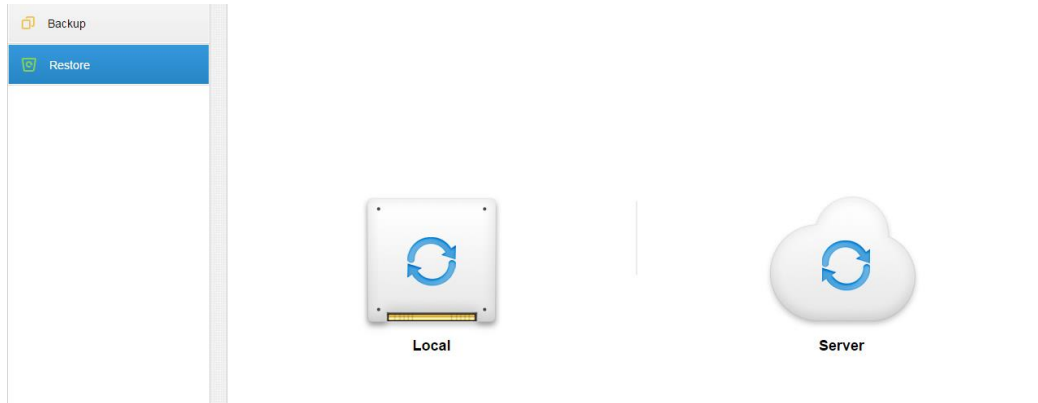


Figure 27-14

Step 2. Click  Server, in pop-up list, click  and select file to restore, see Figure 27-15.

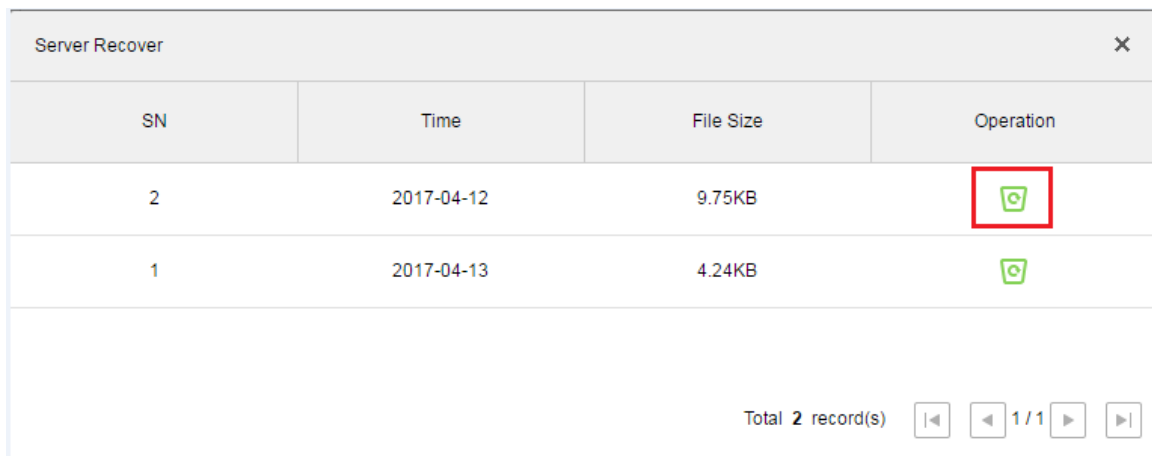


Figure 27-15

Step 3. Enter admin password, click  to execute, see Figure 27-16.

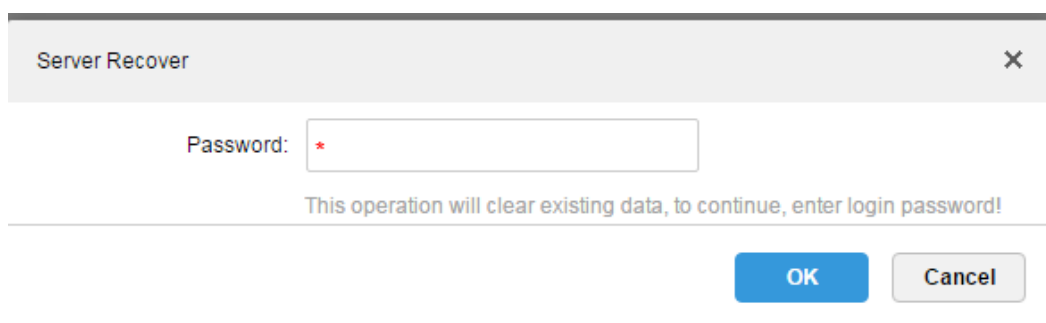


Figure 27-16

Step 4. When it successfully restores, you will see a prompt and system will reboot.

28 Log

28.1 Intro to Function

The system supports to search Manager config log, Client config log and system log. You can filter search type of search, select period and keyword. You also can export log (in PDF format). The following takes Manager config log as an example.

28.2 Intro to Operation

Step 1. Login DSS Manager.

Step 2. Click  next to Home.

Step 3. Select log module, see

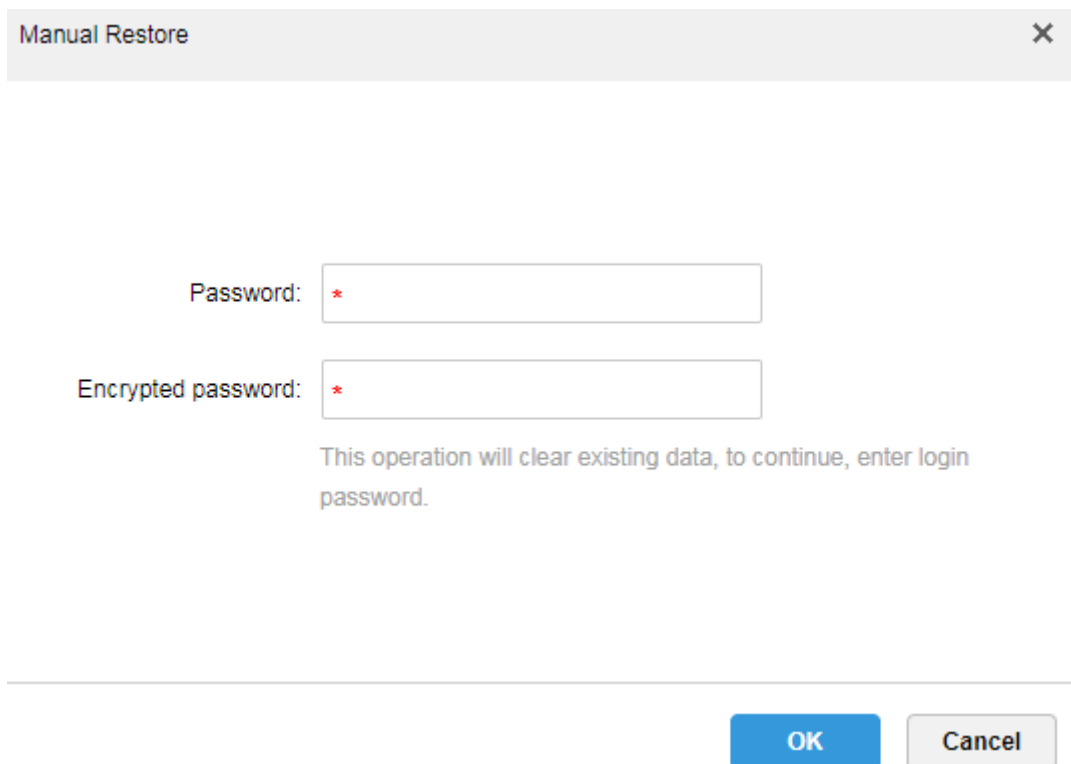


Figure 28-1

Step 4. Select log type, event type, search time. See Figure 28-2.

Log Type	Event Type	Period	Search	Export
Manager Config Log	All	2017-04-12	2017-04-12	
Manager Config Log	All			
Client Setup Log	User			
System Log	Parameter Config			
2017-04-12 23:44:00	Device	Login		10.33.10.14
2017-04-12 23:45:05	Organization Structure	Login		172.10.3.13
2017-04-12 23:44:53	Role	Login		10.33.10.14
2017-04-12 23:41:32	Event	Login		10.18.135.170
2017-04-12 23:41:26	Storage	Login		10.33.10.207
2017-04-12 23:39:47	Time Template	Login		10.33.7.15
2017-04-12 23:39:47	Video Wall	Exit		10.33.7.15
2017-04-12 23:39:47	Backup and Restore	Login		10.33.7.15
2017-04-12 23:38:37		Login		10.33.10.14
2017-04-12 23:37:20		Login		10.33.10.27
2017-04-12 23:32:16		Login		10.33.10.65
2017-04-12 23:19:02		Login		10.33.10.158
2017-04-12 23:17:54		Login		10.33.10.177
2017-04-12 23:10:24		Login		10.33.10.14
2017-04-12 22:59:03		Login		10.33.7.15

Total 250 record.

Figure 28-2

Step 5. Result of log search is shown below, and total number of search is shown at the lower-left corner. See Figure 28-3.

Log Type	Event Type	Period	Search	Export
Manager Config Log	Device	2017-04-11	2017-04-12	
Time	Username	Event Type	Event Contents	IP
2017-04-12 18:11:10	system	Device	Add 设备 : 172.10.4.111	172.10.3.13
2017-04-12 18:10:44	system	Device	Add 设备 : 172.10.4.62	172.10.3.13
2017-04-12 18:10:01	system	Device	Add 设备 : 172.10.23.23	172.10.3.13
2017-04-12 18:09:58	system	Device	Add 设备 : 172.10.4.8	172.10.3.13
2017-04-12 18:09:53	system	Device	Add 设备 : 172.10.4.6	172.10.3.13
2017-04-12 18:09:49	system	Device	Add 设备 : 172.10.3.88	172.10.3.13
2017-04-12 18:09:46	system	Device	Add 设备 : 172.10.3.84	172.10.3.13
2017-04-12 18:09:41	system	Device	Add 设备 : 172.10.3.74	172.10.3.13
2017-04-12 18:09:37	system	Device	Add 设备 : 172.10.3.70	172.10.3.13
2017-04-12 18:09:33	system	Device	Add 设备 : 172.10.3.66	172.10.3.13
2017-04-12 18:09:29	system	Device	Add 设备 : 172.10.3.64	172.10.3.13
2017-04-12 18:09:25	system	Device	Add 设备 : 172.10.2.227	172.10.3.13
2017-04-12 18:09:21	system	Device	Add 设备 : 172.10.2.223	172.10.3.13
2017-04-12 18:09:17	system	Device	Add 设备 : 172.10.2.208	172.10.3.13

Total 93 record.

Figure 28-3

Step 6. Click  **Export** to export log info, see Figure 28-4.

Time	Username	Event Type	Event Contents	IP
2017-04-12 18:11:10	system	Device	Add 设备 : 172.10.4.111	172.10.3.13
2017-04-12 18:10:44	system	Device	Add 设备 : 172.10.4.62	172.10.3.13
2017-04-12 18:10:01	system	Device	Add 设备 : 172.10.23.23	172.10.3.13
2017-04-12 18:09:58	system	Device	Add 设备 : 172.10.4.8	172.10.3.13
2017-04-12 18:09:53	system	Device	Add 设备 : 172.10.4.6	172.10.3.13
2017-04-12 18:09:49	system	Device	Add 设备 : 172.10.3.88	172.10.3.13
2017-04-12 18:09:46	system	Device	Add 设备 : 172.10.3.84	172.10.3.13
2017-04-12 18:09:41	system	Device	Add 设备 : 172.10.3.74	172.10.3.13
2017-04-12 18:09:37	system	Device	Add 设备 : 172.10.3.70	172.10.3.13
2017-04-12 18:09:33	system	Device	Add 设备 : 172.10.3.66	172.10.3.13
2017-04-12 18:09:29	system	Device	Add 设备 : 172.10.3.64	172.10.3.13
2017-04-12 18:09:25	system	Device	Add 设备 : 172.10.2.227	172.10.3.13
2017-04-12 18:09:21	system	Device	Add 设备 : 172.10.2.223	172.10.3.13
2017-04-12 18:09:17	system	Device	Add 设备 : 172.10.2.208	172.10.3.13

Total 93 record.

Navigation: 1 2 3 4 5 6 7 Go to page 1 Go

Figure 28-4

Step 7. View export log result, and it shows current log pack at the lower-left corner, you also can view in Explorer download bar, see Figure 28-5.

The screenshot shows the DSS web interface with the same log table as Figure 28-4. At the bottom left, a file named 'Logs.zip' is visible in the Explorer download bar, indicating the export operation is complete. The interface also shows navigation controls and a search bar.

Figure 28-5

Step 8. Open compression pack, log (PDF) is shown in Figure 28-6.

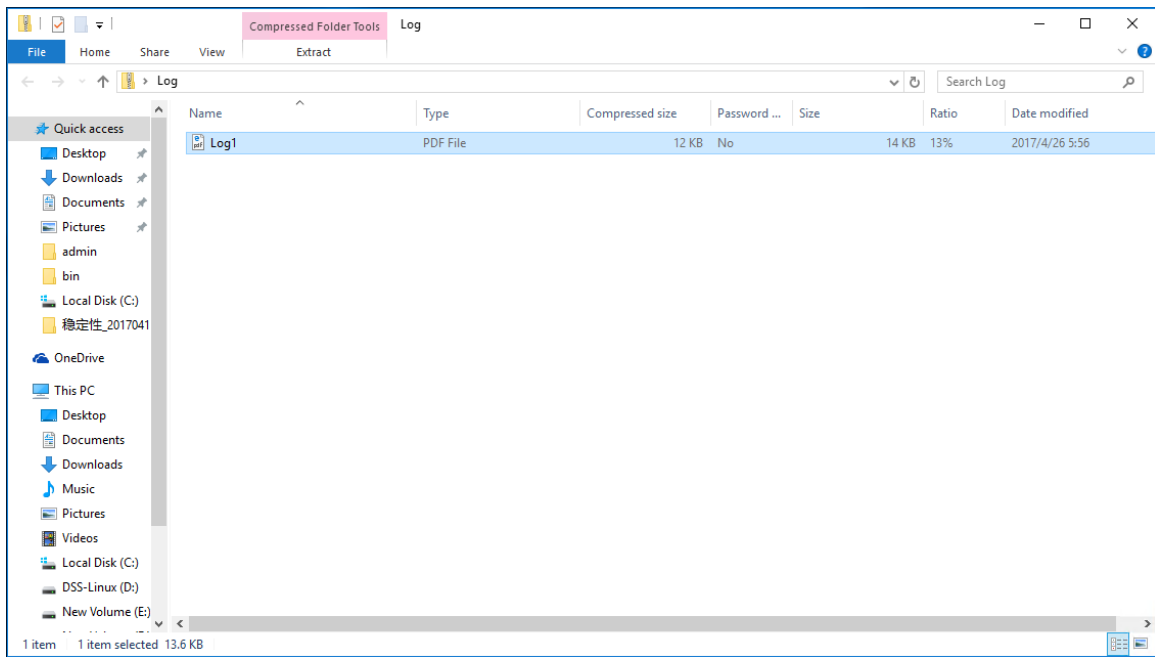



Figure 28-6

Step 9. View log final result.

29 Statistics

DSS Manager supports to search system operation and maintenance statistics function and understand system operation on time.

29.1 Overview

Step 1. Click  next to Home, see Figure 29-1.

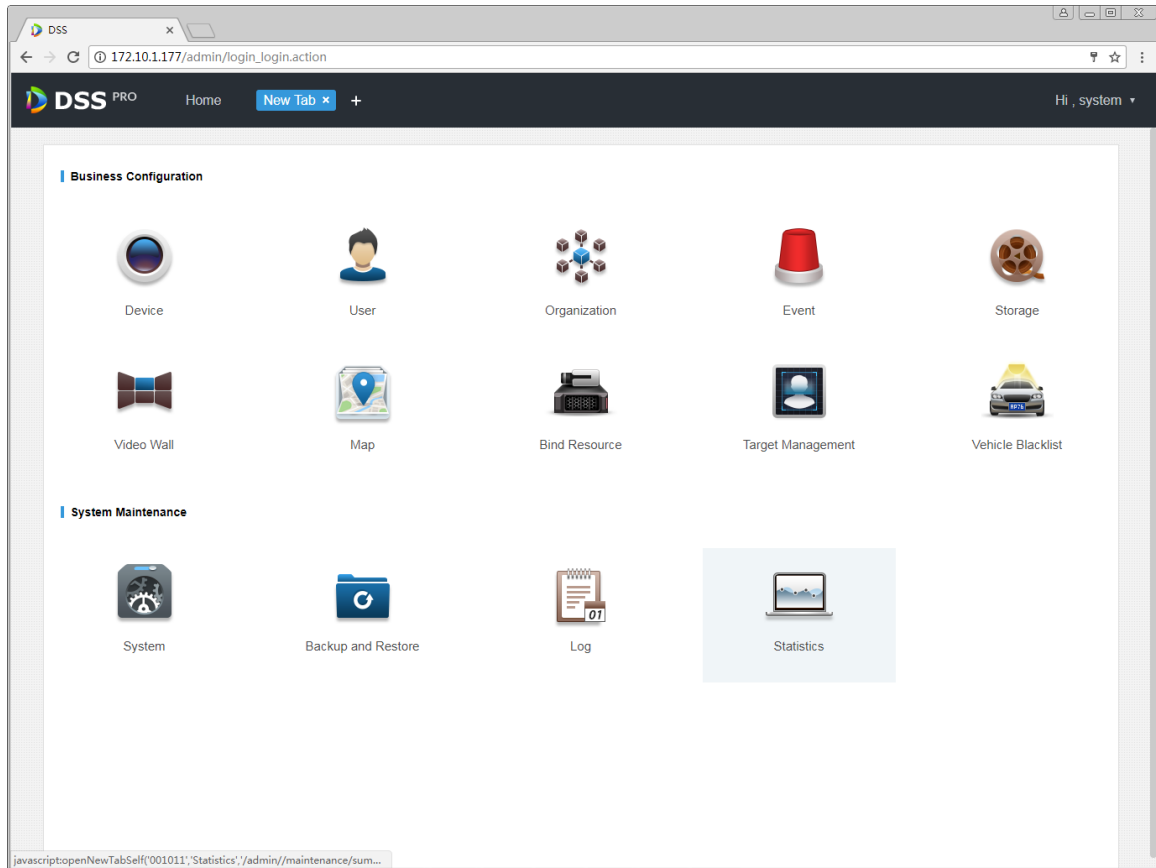


Figure 29-1

Step 2. Select Statistics, see Figure 29-2.

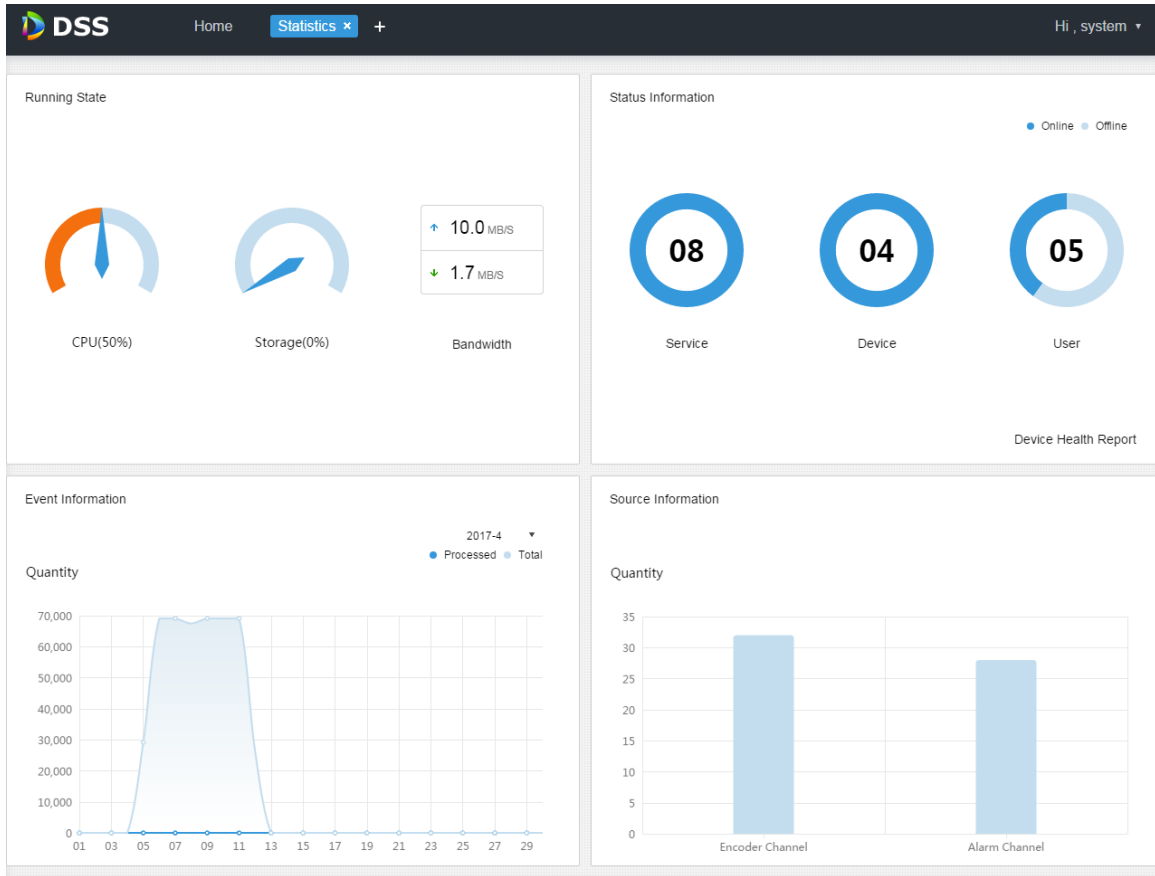


Figure 29-2

29.2 Running State

View CPU, storage, bandwidth and etc. Click Running State or icon below to go to detail page, see Figure 29-3.

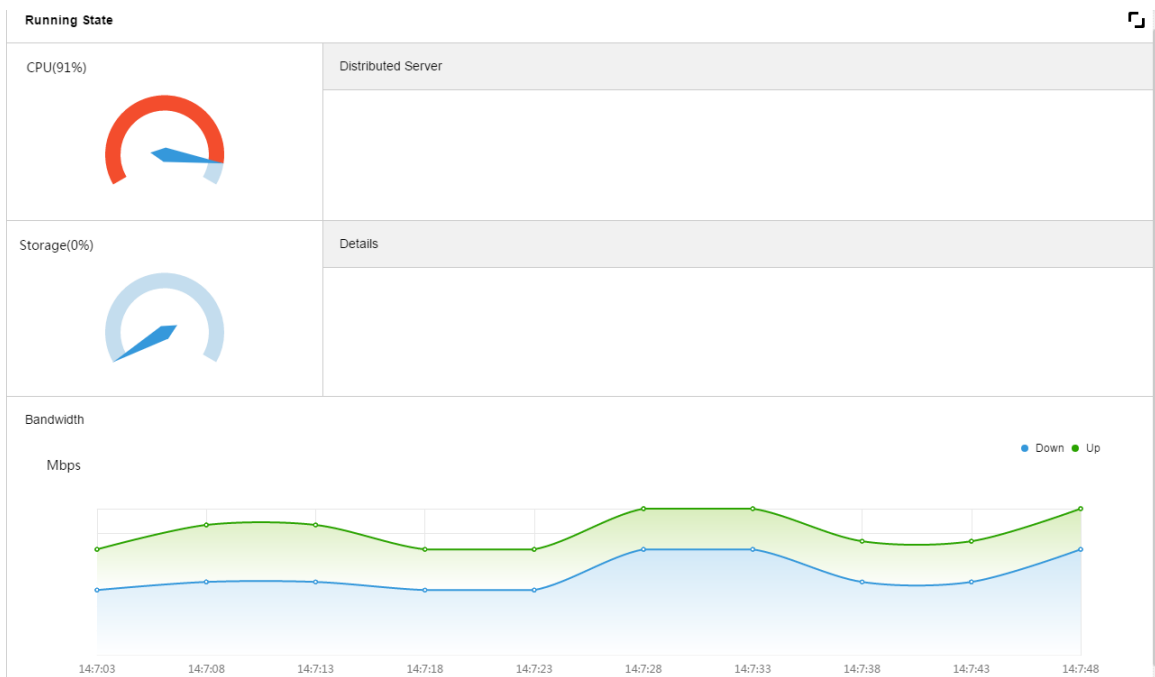



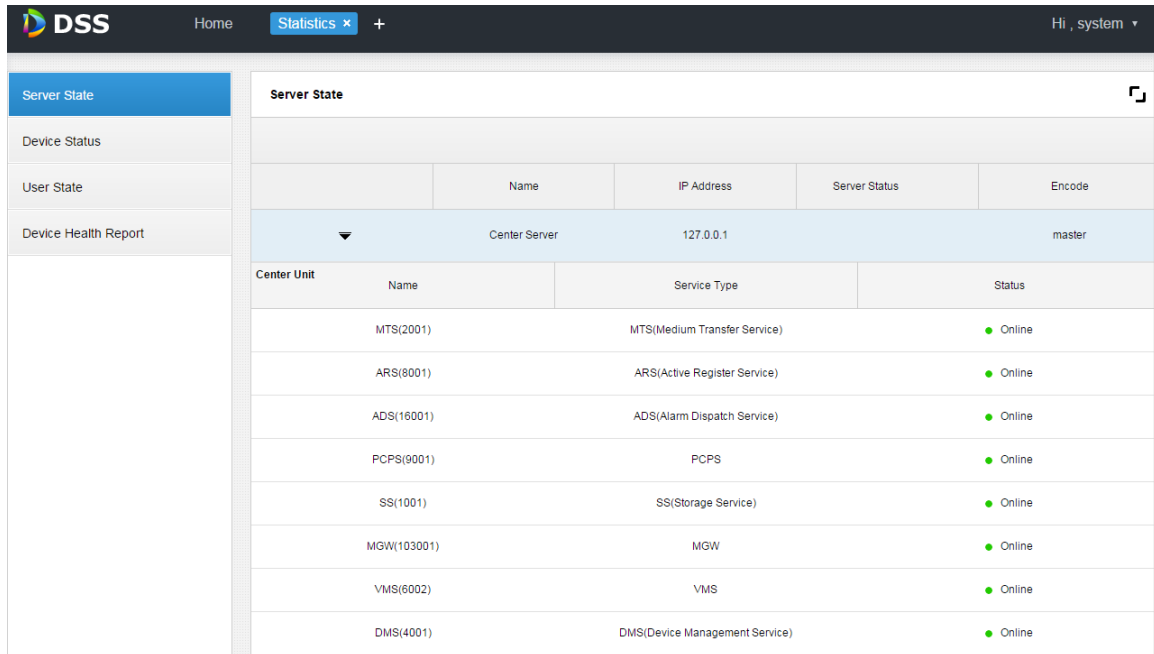
Figure 29-3

29.3 Status Info

View server, device, user online/offline status statistics and click Status Info or icon below to go to detail page.

29.3.1 Server State

Click  in Server State interface, see Figure 29-4.

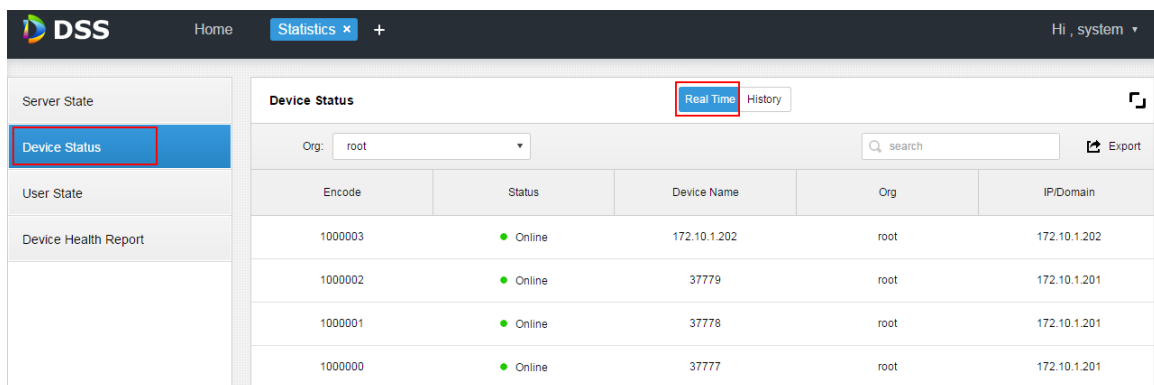


	Name	IP Address	Server Status	Encode
	Center Server		127.0.0.1	master
Center Unit	Name	Service Type	Status	
	MTS(2001)	MTS(Medium Transfer Service)	● Online	
	ARS(8001)	ARS(Active Register Service)	● Online	
	ADS(16001)	ADS(Alarm Dispatch Service)	● Online	
	PCPS(9001)	PCPS	● Online	
	SS(1001)	SS(Storage Service)	● Online	
	MGW(103001)	MGW	● Online	
	VMS(6002)	VMS	● Online	
	DMS(4001)	DMS(Device Management Service)	● Online	

Figure 29-4

29.3.2 Device Status

Step 1. Click Device Status tab, see Figure 29-5.



Encode	Status	Device Name	Org	IP/Domain
1000003	● Online	172.10.1.202	root	172.10.1.202
1000002	● Online	37779	root	172.10.1.201
1000001	● Online	37778	root	172.10.1.201
1000000	● Online	37777	root	172.10.1.201

Figure 29-5

Step 2. Click Export, to export real-time device status PDF format, see Figure 29-6.

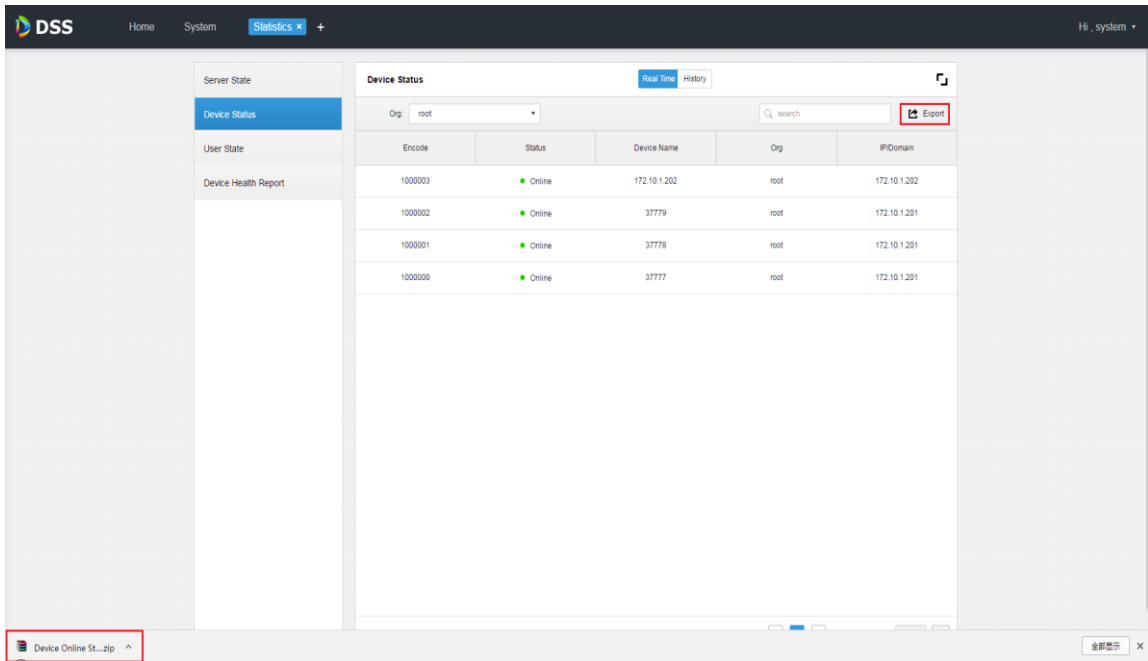


Figure 29-6

Step 3. Open export file, see Figure 29-7.

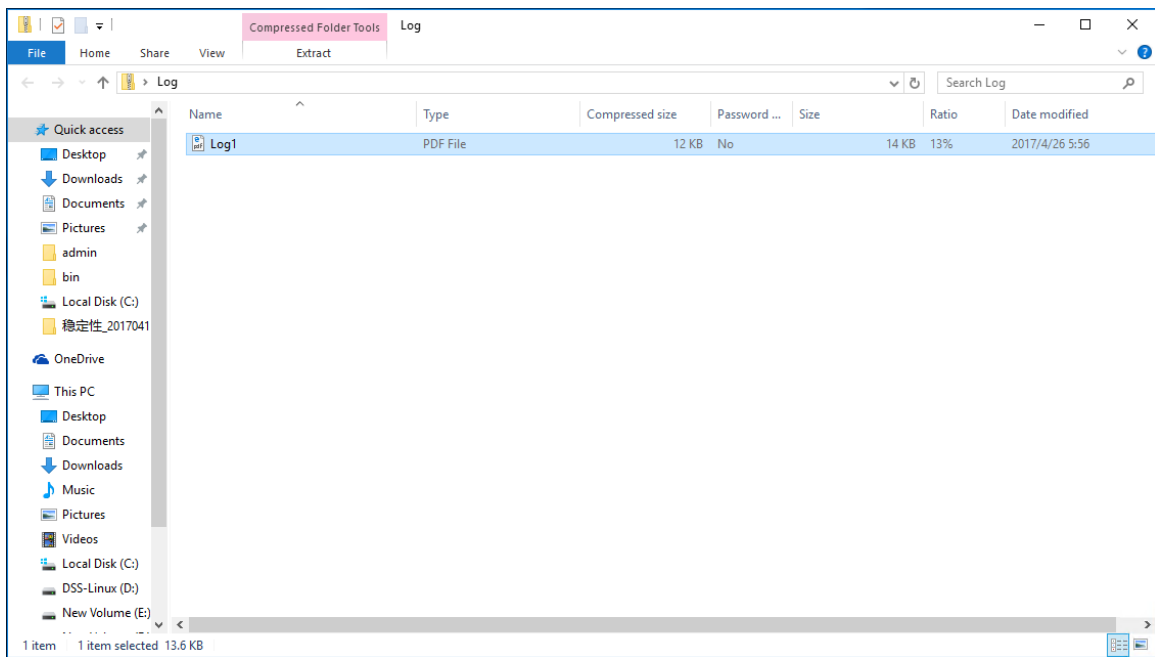


Figure 29-7

Step 4. Click History tab in device status interface to view device historical status, see Figure 29-8.

Server State	Device Status				
Device Status	Period: 2017-04-01 - 2017-04-07		Org: root	Q search	Export
User State	Time	Status	Device Name	Org Name	IP/Domain
Device Health Report	2017-04-08 11:51:45	● Online	172.10.1.202	root	172.10.1.202
	2017-04-08 11:51:45	● Online	37779	root	172.10.1.201
	2017-04-08 11:51:45	● Online	37778	root	172.10.1.201
	2017-04-08 11:51:44	● Online	37777	root	172.10.1.201
	2017-04-08 11:51:17	● Online	172.10.1.202	root	172.10.1.202
	2017-04-08 11:51:17	● Online	37779	root	172.10.1.201
	2017-04-08 11:51:17	● Online	37778	root	172.10.1.201
	2017-04-08 11:51:16	● Online	37777	root	172.10.1.201
	2017-04-07 01:23:22	● Online	172.10.1.202	root	172.10.1.202
	2017-04-07 01:19:19	● Offline	172.10.1.202	root	172.10.1.202
	2017-04-07 01:19:16	● Offline	172.10.1.202	root	172.10.1.202
	2017-04-06 11:46:04	● Online	172.10.1.202	root	172.10.1.202
	2017-04-06 11:42:36	● Offline	172.10.1.202	root	172.10.1.202
	2017-04-06 11:42:33	● Offline	172.10.1.202	root	172.10.1.202

Figure 29-8

Click user state, device health report tab to view corresponding details, which are skipped here.

29.4 Event Information

View statistics and processed alarm of alarm event by month, see Figure 29-9.

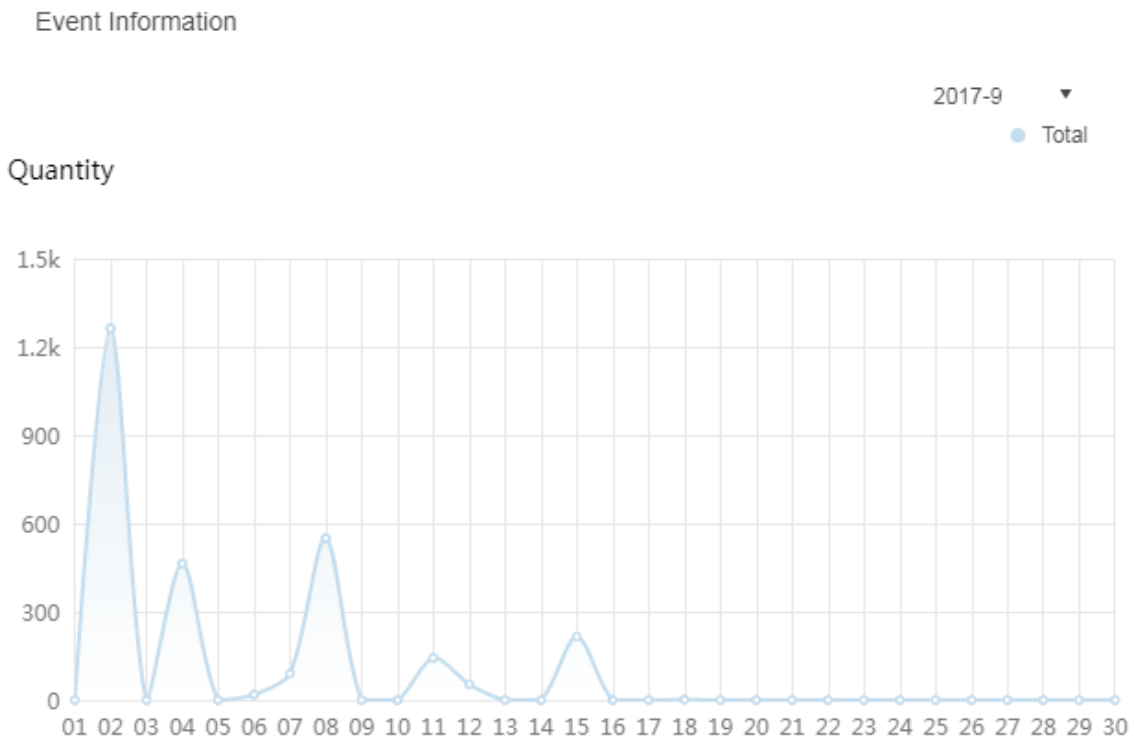


Figure 29-9

29.5 Source Info

View encoding channel and alarm channel statistics, click Source Info or icon below, go to detail page, see Figure 29-10.

Name	Device	Org	SN	Camera Type
wyHDVR_1	wyHDVR	root		Fixed Camera
wyHDVR_2	wyHDVR	root		Fixed Camera
wyHDVR_3	wyHDVR	root		Fixed Camera
wyHDVR_4	wyHDVR	root		Fixed Camera
wyHDVR_5	wyHDVR	root		Fixed Camera
wyHDVR_6	wyHDVR	root		Fixed Camera

Figure 29-10

Click Alarm tab to view alarm channel detail.

30 Sync Time

30.1 Device&Slave Server Sync Time


30.1.1 Function

Device sync time is to sync time on front-end device with platform server. DSS platform supports devices of Dahua, Hikvision and ONVIF protocol. You can view platform server time: DSS platform server installation time.

30.1.2 Principle

Both Dahua and Hikvision devices call related SDK interface to send command to device. Device executes the command and sends feedback to DSS server. Device of ONVIF protocol connects to device which receives sync time command sent from DSS server by calling ONVIF protocol interface. Device executes command and sends feedback to DSS server.

30.1.3 Config

Step 1. Click  next to Home, see Figure 30-1.

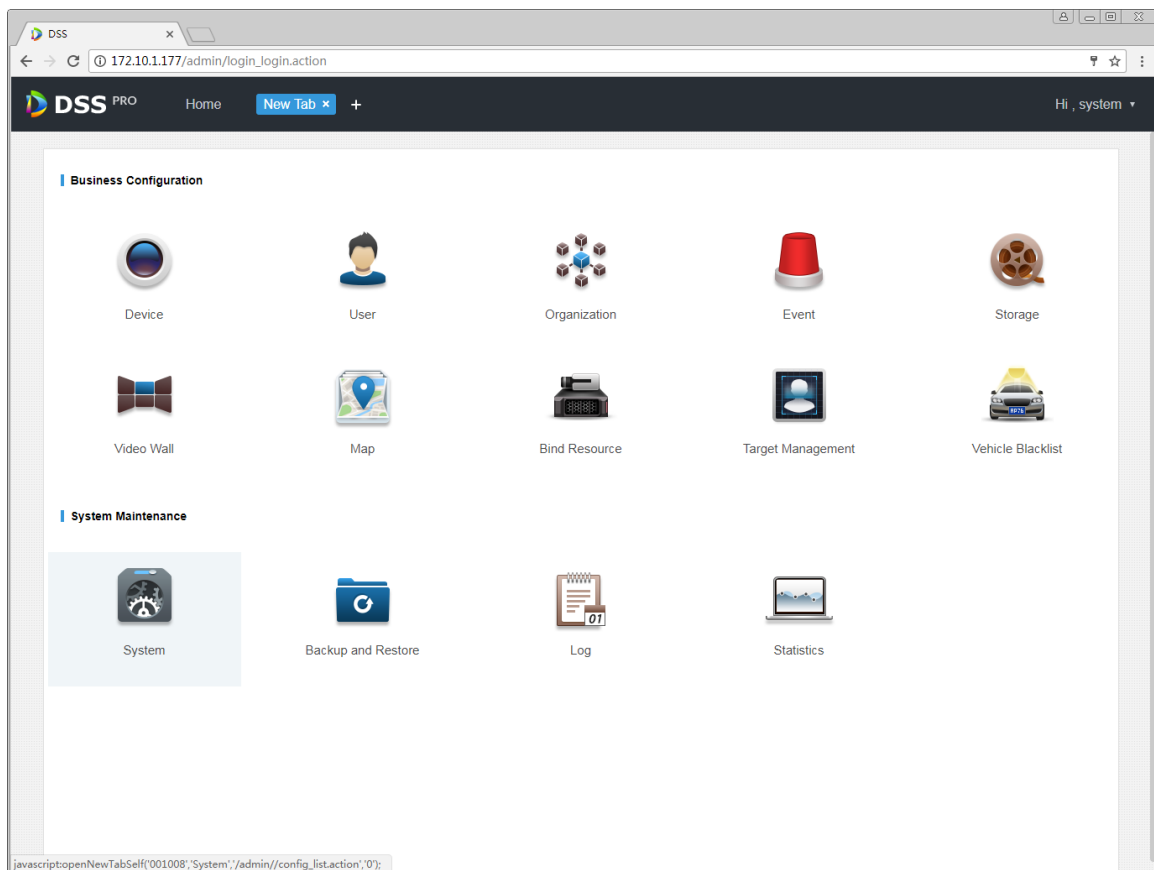


Figure 30-1

Step 2. Click Interval Setup tab, enable device time calibration, and set parameter, see Figure 30-2.

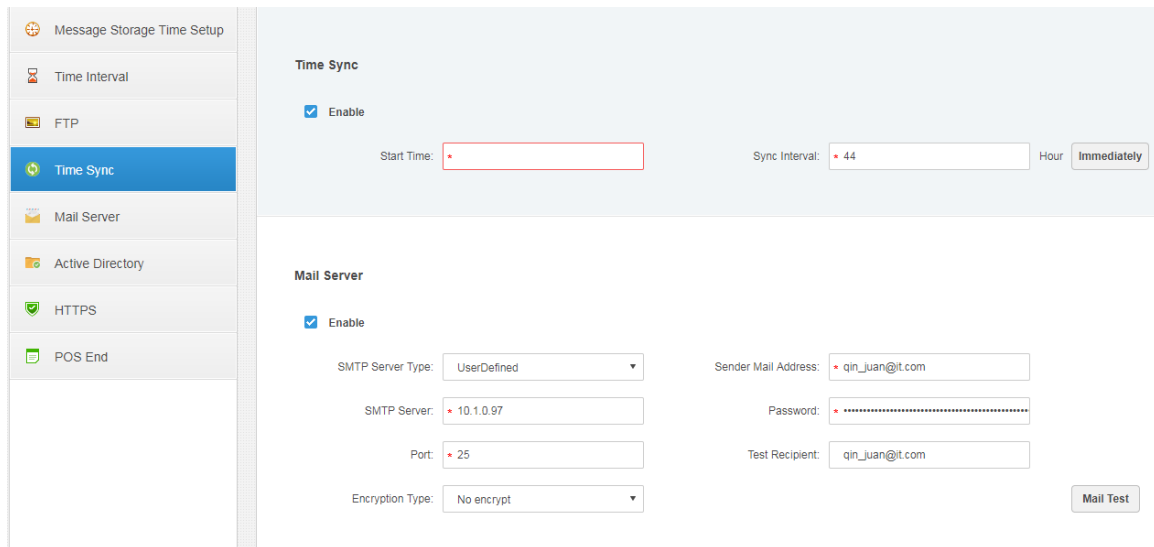
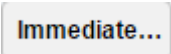


Figure 30-2

Note:

Start time can be selected in dropdown list, and you shall enter interval manually.

Step 3. Click  to sync time now.

Step 4. Click  to save.

30.2 Client Sync Time


30.2.1 Function

Client sync time is to sync DSS Client time with platform server. After sync time is enabled on Manager, sync time on Client is enabled as well, however, you must go to local config on Client to accept this sync separately before sync time on Client.

View client time: PC time where the DSS Client is installed.

30.2.2 Config

Step 1. Refer to Ch 18.1.3.

Step 2. Login in DSS Client, click  at the upper-right corner, open local config.

Step 3. Select General tab, enable net time, see Figure 30-3.

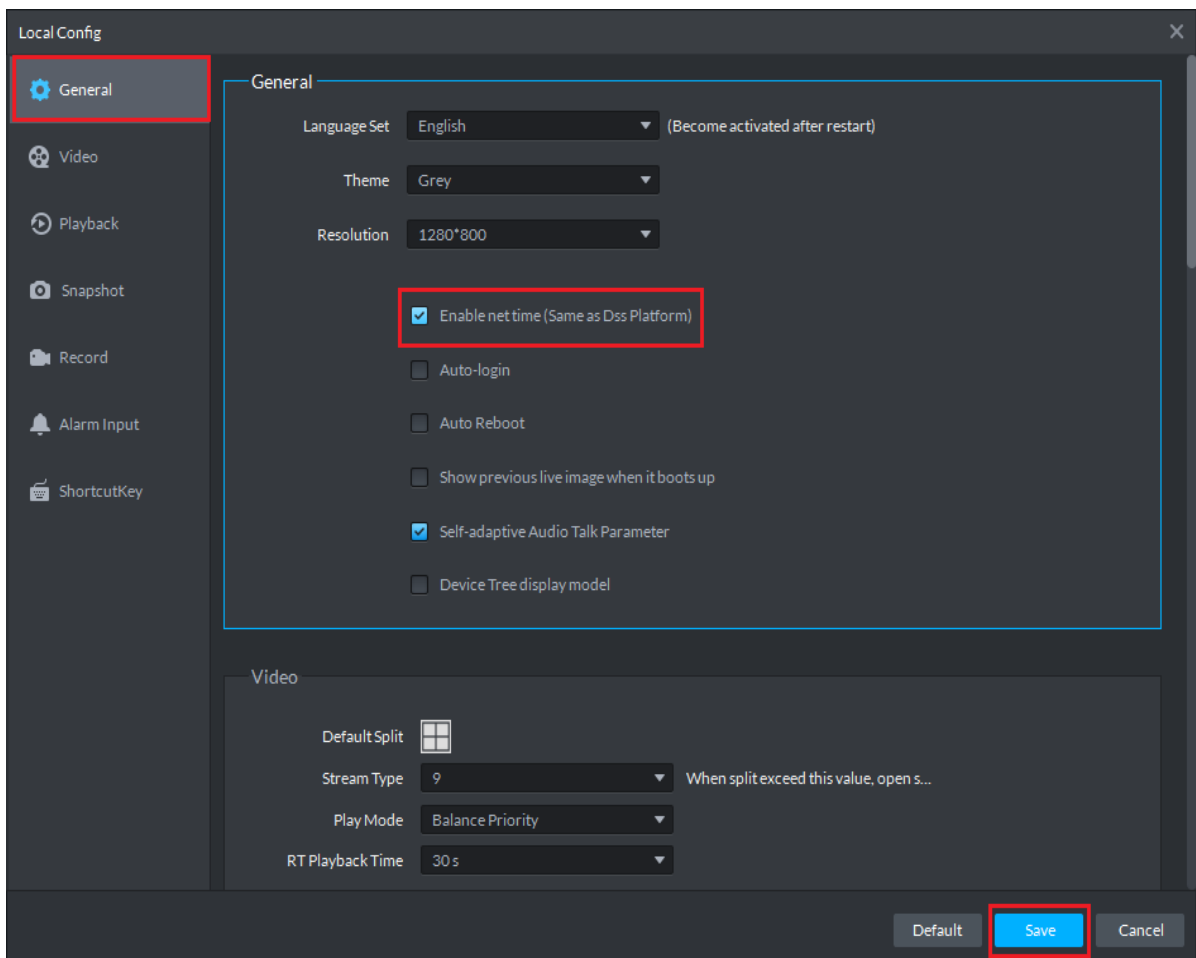


Figure 30-3

Step 4. Click Save.

Step 5. On Manager, click **Immediate...** button, then PC time where Client is installed will sync with DSS server time.

31 FTP

31.1 Usage

Enable FTP function on DSS server, which is mainly used to upload alarm snapshot to DSS platform. You can use DSS system self-carried FTP, or other FTP server you create.

31.2 Config

Step 1. Click **+** next to Home.

Step 2. Select System tab, see Figure 31-1.

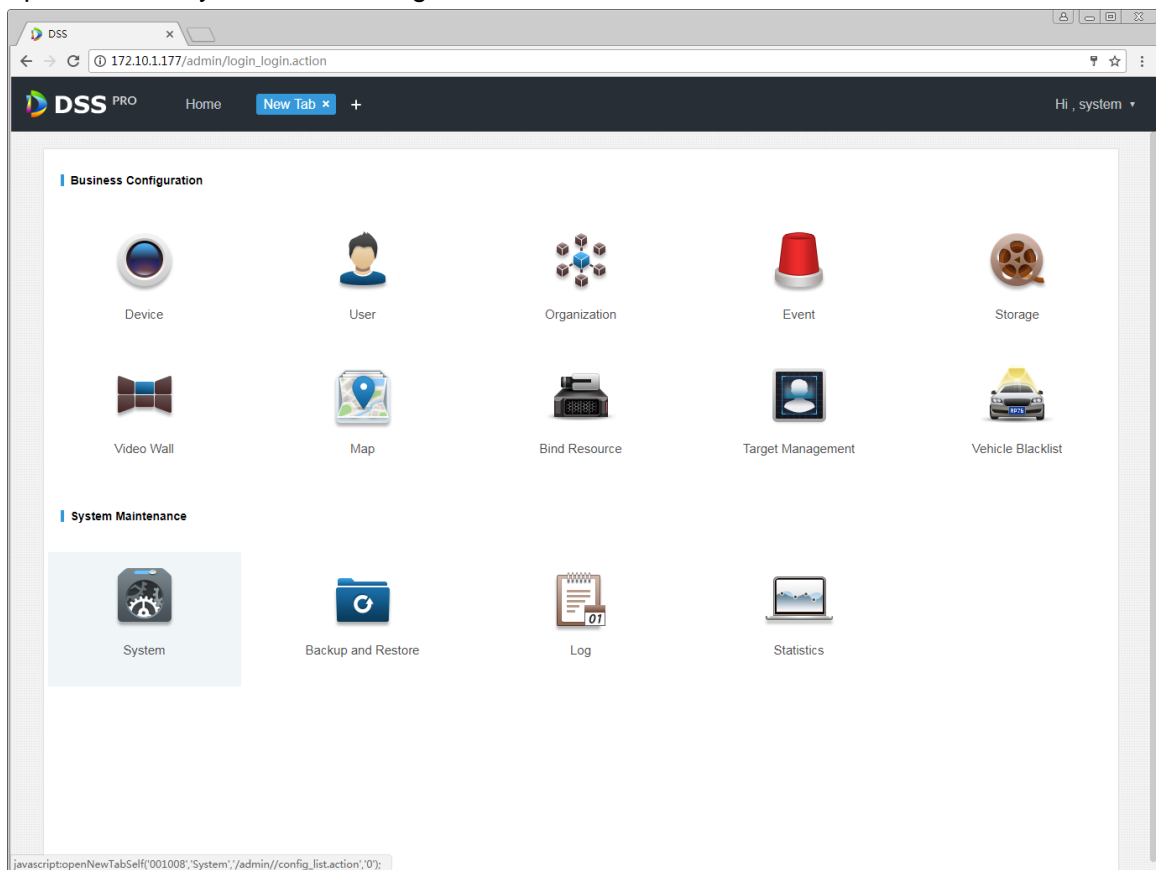


Figure 31-1

Step 3. Click FTP Setup tab, set FTP address and username, password.
See Figure 31-2.

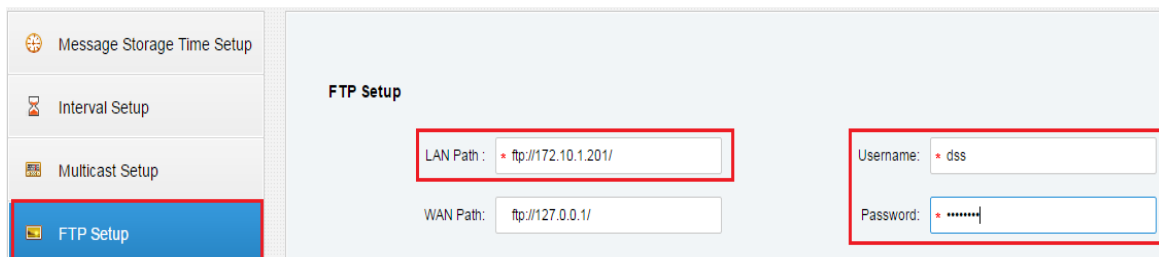


Figure 31-2

Note:

Item with * sign is mandatory, and FTP standard format is: ftp://x.x.x.x/. System self-carried FTP address is IP address of DSS server. Username and password are “dss” by default.

Step 4. Click  to save. See Figure 31-3.

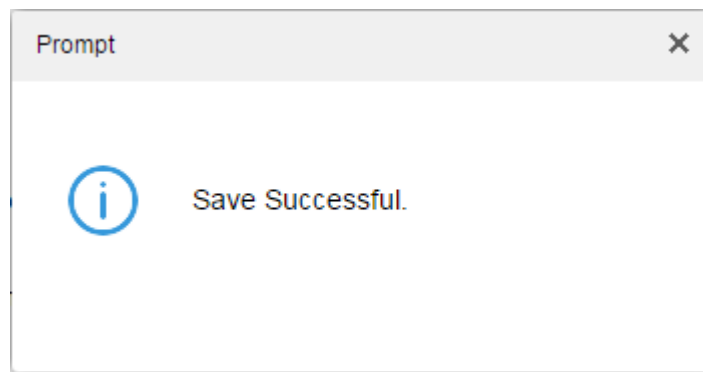


Figure 31-3

31.3 Usage Display

Step 1. On PC desktop, click My Computer.

Step 2. In address field, enter FTP address you set, such as ftp://172.10.1.201/, press Enter.
See Figure 31-4.

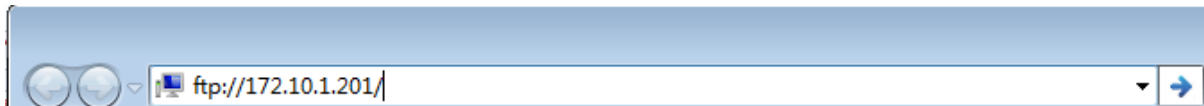



Figure 31-4

Step 3. After you press Enter, when the FTP is open, enter username and password. (default is dss/dss)

Step 4. Click Login, enter FTP directory.

32 Version

32.1 Client Version

Click  at the upper-right corner of DSS Client, select About, to view version as in Figure 32-1.

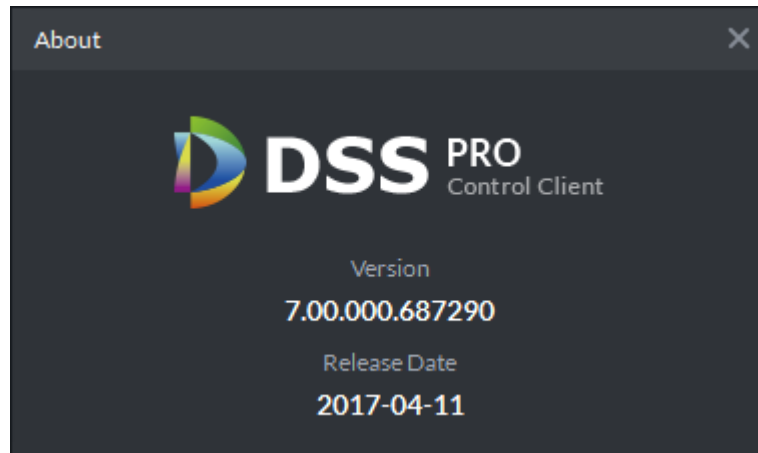



Figure 32-1

33 Naming Rule Setup

Click  at the upper-right corner of DSS Client, open Local Config interface. Click Snapshot and Record tab, you can set naming rule of snapshot and local record, see Figure 33-1.

Naming rule can be select from: channel name_time, channel no._time, time_channel and time_channel name.

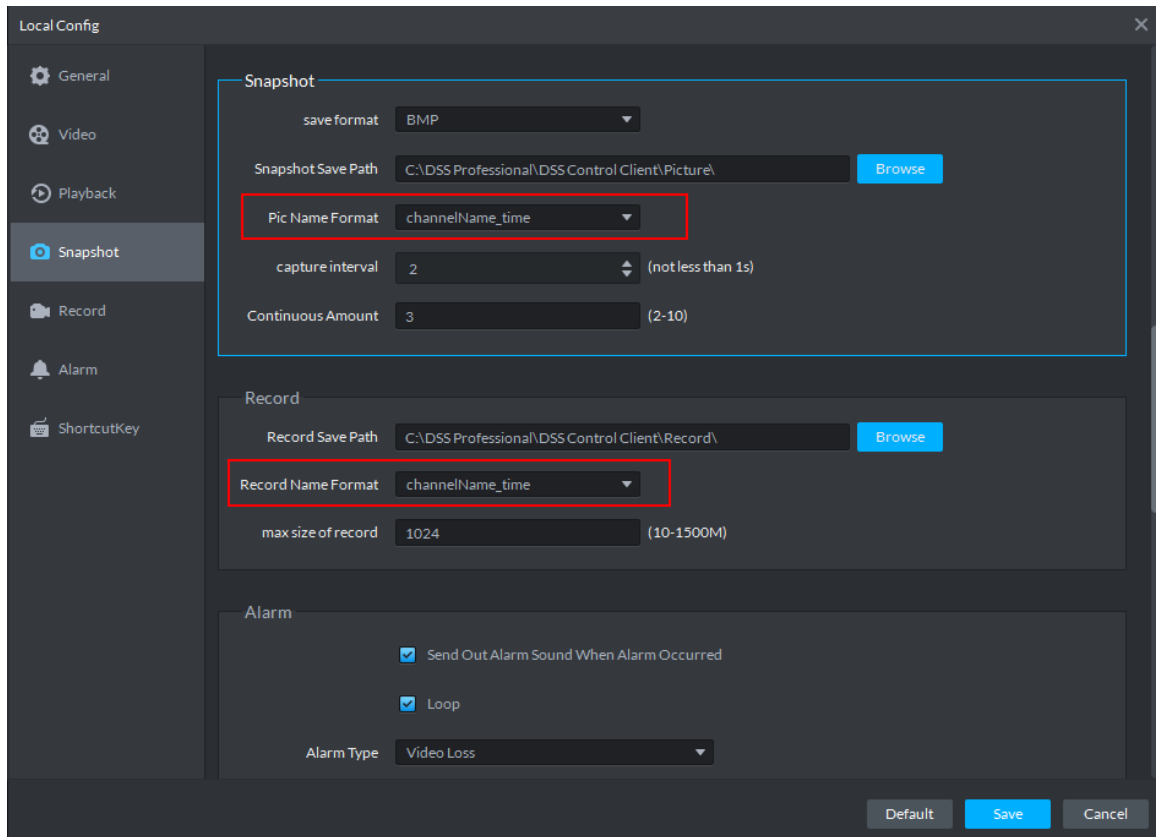



Figure 33-1

34 Path Setup

Click  at the upper-right corner of DSS Client, open Local Config interface. Click Snapshot and Record tab, you can view storage path of snapshot and local record, see Figure 34-1.

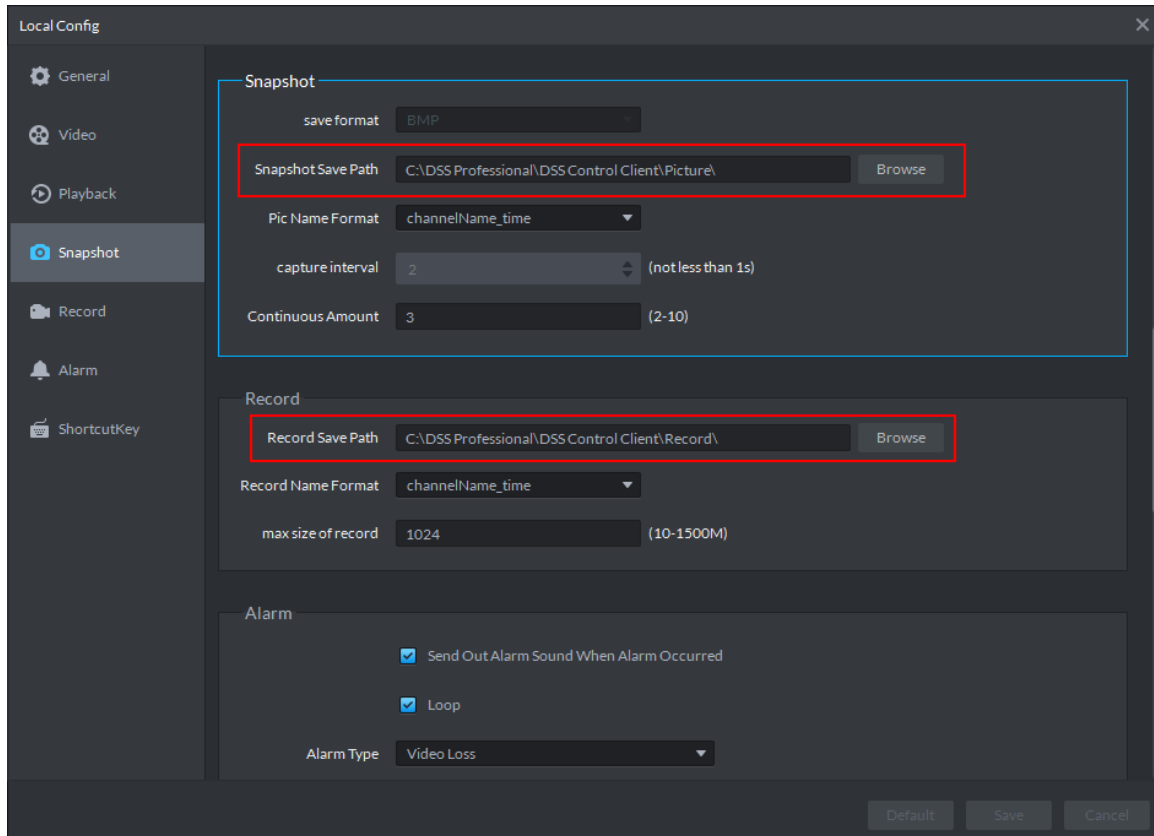



Figure 34-1

35 Help


In homepage of DSS Manager, you can view user's manual, mobile client manual and FAQ.



Add Device

Manually input device connection parameter, to add the device to the platform.


Add Device



Add User

Add user, and authorize the user with system permission.


Add User



Add Event

Add device or system events, and configure the corresponding link actions.

Configure Event



Set Record Plan

Configure the record plan of cameras.

Configure Record Plan

Overview

Status:	Online	Offline
Device:	28	8
User:	3	10
Service:	8	0
HDD	<div style="width: 100%;"><div style="width: 100%;"></div></div> 0G/0G	

License

Date: 2017-04-20. [Details of license](#)

Step 1: Export license request file.
Export trial request file.

Step 2: Contact sales person for license

Step 3: Import License File

Help

[User Manual](#)

[FAQ](#)

E-Mail: dss_support@dahuatech.com

36 Shortcut

Shortcut of PC is in Chart 36-1.

Function	Shortcut	Function	Shortcut
Wnd Move up	Up	Snap Single Wnd	P
Wnd Move down	Down	Snap pic	Ctrl+P
Wnd Move Left	Left	Local Record	Ctrl+R
Wnd Move Right	Right	PreSet1	1
Aperture-	Insert	PreSet2	2
Aperture+	Delete	PreSet3	3
Focus-	Home	PreSet4	4
Focus+	End	PreSet5	5
Wiper	PgUp	PreSet6	6
Light	PgDn	PreSet7	7
Open Single Wnd	L	PreSet8	8
Close Single Wnd	L	PreSet9	9
Open Full Screen	Ctrl+F	PreSet10	10
Close Full Screen	ESC		

Chart 36-1

Appendix 1 Server Module

Abbreviation	Service Name	Function	Port	Protocol
CMS	Center Management Service	Manage each service and provide access interface.	80	TCP
MQ	Message Queue Service	Responsible for message transfer between platforms	61616	TCP
DMS	Device Management Service	Log in front end encoder, receive alarm, forward alarm, send time command.	9200	TCP
MTS	Media Transmission Service	Get audio and video stream from the front-end device, then distribute to the SS, client, decoding device.	9100	TCP
SS	Storage Service	Video storage , video query and video playback	9320	TCP
VMS	Video Matrix Service	Log in the decoding device and send the wall task to the decoding device.	Not a fixed value/no need mapping to WAN	TCP
MGW	MediaGateway Service	Send the address of the MTS to the decoding device	9090	TCP
ARS	Auto Register Service	Monitor and login auto-register device, get stream from the device then send to MTS	9500	TCP
PCPS	ProxyList Control Proxy Service	Login Hik and Onvif device, get stream from the device then send to MTS	5060/14509	UDP/TCP
ADS	Alarm Dispatch Service	According to the plan to send alarm information to different objects	9600	TCP

Note:

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local service engineer for more information.**