

DSS Manager User's Manual

Version 1.3.0

Table of Contents

1	OVERVIEW AND ENVIRONMENT	1
1.1	Overview.....	1
1.2	System.....	1
1.3	Requirement for Configuration.....	2
2	PROCEDURE OF CONFIGURATION	3
3	LOGIN SYSTEM	4
3.1	Login Interface	4
3.2	Buttons	5
4	SYSTEM SETTINGS	6
5	MANAGE DEVICE	8
5.1	Add Organization	8
5.2	Add Device	12
5.2.1	Add Encoder.....	12
5.2.2	Add Decoder.....	17
5.2.3	Add Video Wall	18
5.2.4	Add Alarm Host.....	18
5.2.5	Add Intelligent Device	18
5.2.6	Add Matrix	19
5.2.7	Add Transcoder	19
5.3	Manage Channel.....	19
6	MANAGE ACCOUNT	20
6.1	Add User Role	20
6.2	Add User.....	22
7	SERVER MANAGEMENT	25
8	DAILY OPERATION	26
8.1	Add Record Plan	26

8.2 Alarm	29
8.2.1 Set Contacts.....	30
8.2.2 Set Link Level.....	31
8.2.3 Set Alarm Time Template.....	32
8.2.4 Set Alarm Storm	33
8.2.5 Set Alarm Video on Wall	34
8.2.6 Set Alarm Scheme.....	35
8.3 Map	40
8.4 Set TV Wall	41
8.5 Video Diagnosis	44
8.5.1 Diagnosis Item.....	45
8.5.2 Diagnosis Task	46
8.5.3 Diagnosis Scheme.....	47
8.6 Set Cascading	48
8.7 Upload	49
8.8 Backup and Restore.....	49
8.8.1 System Backup.....	49
8.8.2 Restore.....	50
8.9 Resource Re-Config.....	50
8.9.1 DSS Server Re-Config.....	50
8.9.2 Parameter Re-Config	51
8.10 Statistics.....	51
8.10.1 Overview	51
8.10.2 Server.....	54
8.10.3 Device	55
8.10.4 Management.....	56
8.10.5 Operator	57
9 ADVANCED FUNCTION	58
9.1 Hot Spare.....	58
9.2 N+M Backup	60

Welcome

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

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.

1 Overview and Environment

1.1 Overview

DSS is a hard & software device with Linux structure. It is based on network to connects those decentral and independent on-site monitoring thus achieving centralized monitoring and management crossing area and industry. It provides user with a brand new, direct management tool. Besides A/V, alarm, remote collection, transmission, storage, processing, DSS has advantages of high quality, wide coverage, multi-task, integrable, easy management, one-stop service.

- Advanced All-In-One structure
- Real UPnP
- One-key upgrade
- Higher performance
- Higher reliability
- Higher stability

1.2 System

The system network is in Figure 1- 1.

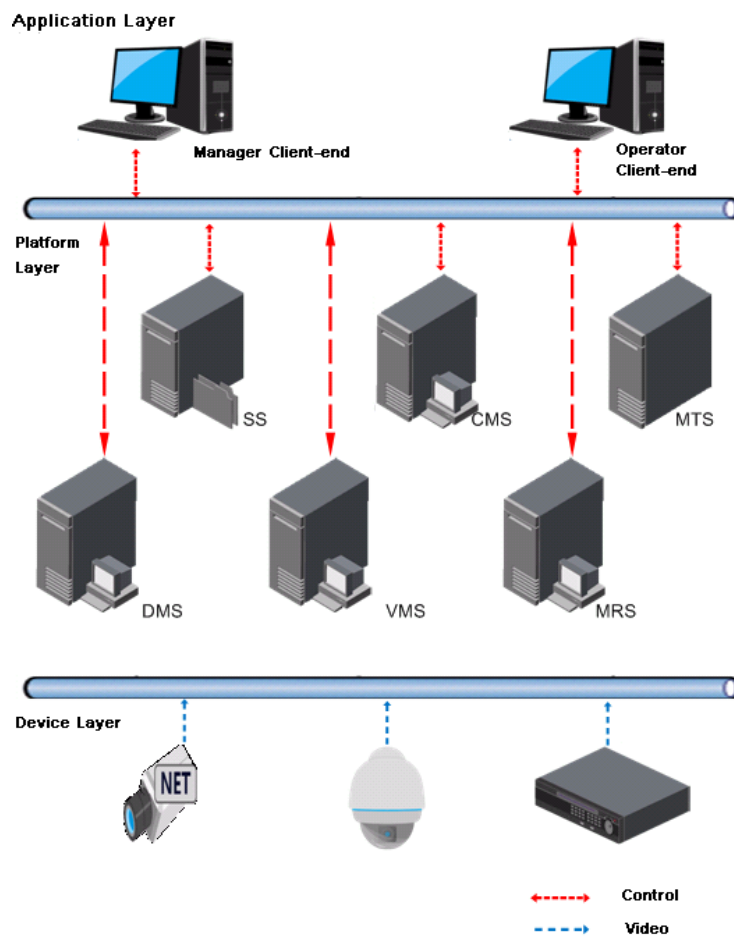


Figure 1- 1

Abbreviation	Definition
CMS	System management, server management, operation implementation, system dispatch, storage plan implementation.
DMS	Device config, PTZ, device alarm collection and distribution.
MTS	Real time transmission of A/V data, support streaming media.
SS	Centralized storage, playback, front-end play of A/V data
VMS	Manage decoder, output video signal to TV wall.
ARS	Provide support to actively signed device for connected device without static WLAN IP.
CU	Monitor core operation, real time monitoring, PTZ, play back, alarm activation and etc.
MU	Device management, username management, user group management, organizational structure management and etc.

1.3 Requirement for Configuration

The requirement for PC configuration is in Chart 1- 1.

Parameter	Definition
Processor	Core 2 3.0
Memory	DDR3 2GB
HDD	>10GB
OS	Microsoft Windows XP SP3 (32 bit), Microsoft Windows 7
Explorer	IE7.0.5730 or IE8.0.7601.17514 or higher
Display	1024×768 and higher, DirectX9.0c and higher

Chart 1- 1

2 Procedure of Configuration

You can refer to the following figure of procedures to configure DSS's operation. See Figure 2- 1.

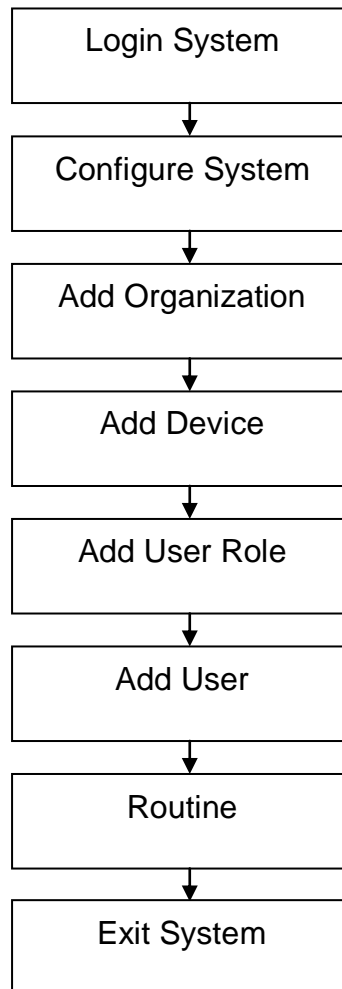


Figure 2- 1

3 Login System

3.1 Login Interface

You can refer to the following steps to login DSS manager.

Step 1. In Internet Explorer, input IP address of DSS, press Enter. You will see Figure 3- 1.

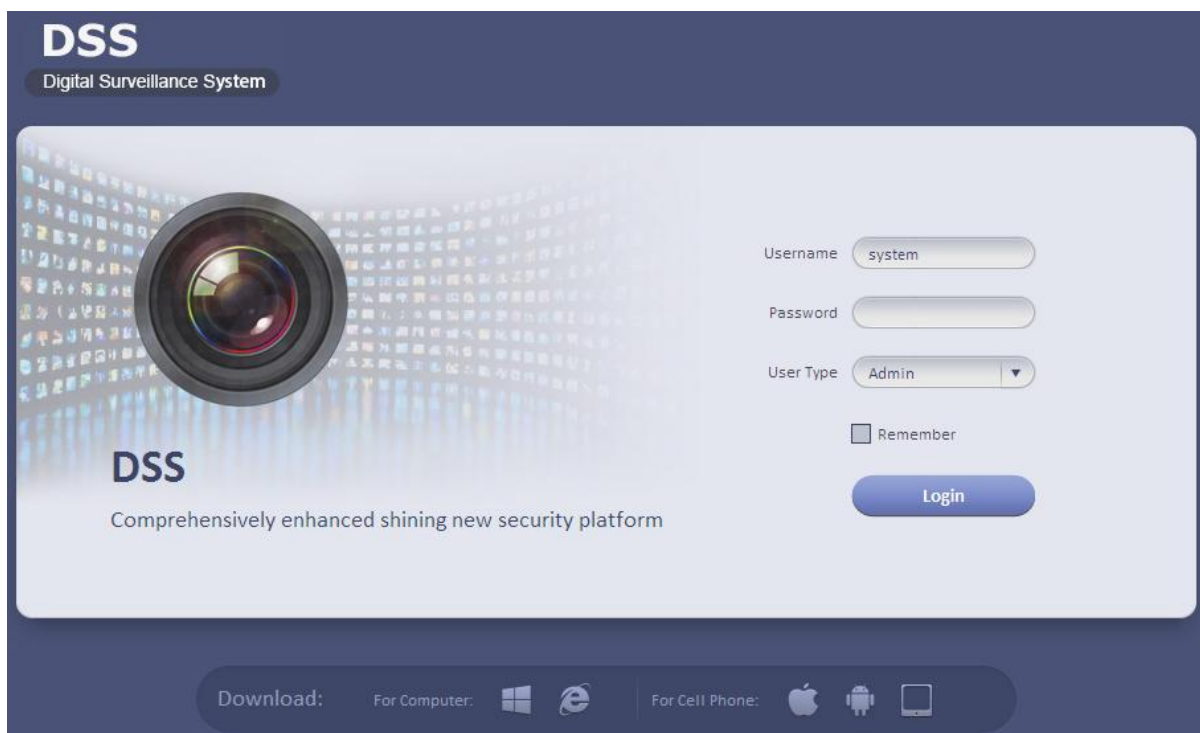


Figure 3- 1

Note:

You can download DSS Client on this login page. If it is your first time login DSS Manager, please add its IP address into the trusted site of your explorer.

Step 2. Input Username and Password. Default username is: **system**. Default password is: **123456**.

Step 3. Click Login.

After login, you will see Figure 3- 2.

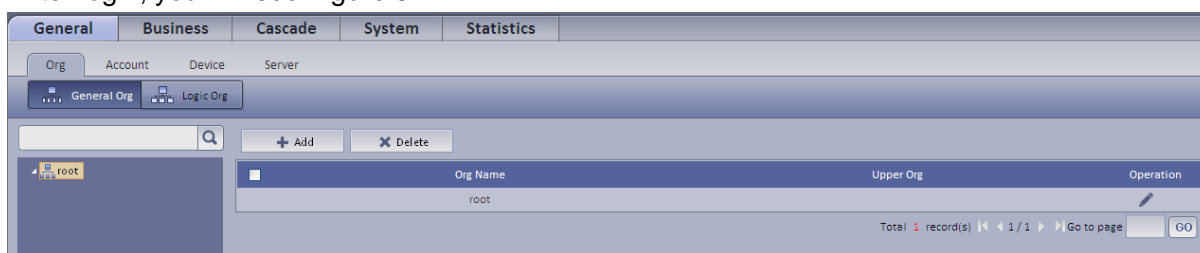



Figure 3- 2


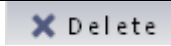











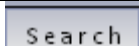








Note:

- When you exit the system, click Exit in the upper-right corner. Click OK in the prompt box.

- If you want to change password, click , and select Modify Password. You can change password in the prompt box.

3.2 Buttons

DSS Manager buttons that used most frequently are as follows:

Buttons	Note
	Add new info into interface.
	Delete current info in interface. Select info and then you may delete.
	Batch import info into interface.
	Batch export current info in interface.
	Edit current info in interface.
	Delete current info in interface.
	Enter device Web setup page.
	Edit searched info
	Manage searched device info.
	Search detailed interface info.
	When current page info is not locked, click this button to lock. Therefore the user will not be able to login DSS Client.
	Current page is locked. The process is the opposite of above status.
	Auto search of encoder and decoder.
	By filling in different filters to search. If you leave all filters blank, the system will search all info.
	Enable.
	Disable.
	Download.
	Change password.
	Move up.
	Move down.
	Move to top.
	Move to bottom.

4 System Settings

When you first login the system, you shall configure system settings in order to make the system run properly.

Configure the system as follows:

Step 1. Select System > Parameters, you will see Figure 4- 1.

Figure 4- 1

Parameter		Note
CMS	IP	IP address of manager server
	LAN Port	LAN port of manager server, default is 9000
	WAN Port	WAN port of manager server.
WEB Server	LAN IP	LAN IP of WEB server.
	WAN IP	WAN IP of WEB server.
	LAN Port	LAN port of WEB server, default is 80.
	WAN Port	WAN port of WEB server.
DDNS	IP	Set IP address and port of DDNS
	Port	
Log	Max Save Time	Set max save time of log, default is 30 days
Alarm Info	Max Save Time	Set max save time of alarm info, default is 30 days

Parameter		Note
Sync Setup	Enable	Enable time sync or not. If check the parameter, then system enables time sync function.
	Start Time	Set start time of time sync.
	Sync Interval	Subject to server time sync device and server time. Default is 2 hours as every 2 hours; system is subject to server time and sync time with server. Note: Device and server sync time via SDK.
	Sync Now	Click it to start time sync immediately.
Alarm Picture FTP Server	LAN Path	FTP LAN address where to save alarm picture.
	WAN Path	FTP WAN address where to save alarm picture.
	Username/Password	Username and password to login FTP server
Org/Channel SN	<ul style="list-style-type: none"> • If check Start, organization and channel will have this SN. • If you do not check Start, this SN will not be display in organization manager and device manager. 	
Multicast	<ul style="list-style-type: none"> • If check Start, you can see multicast when add device. • If you do not check Start, you cannot see multicast when add device. 	

Step 2. Configure parameters.

Step 3. Click Submit.

5 Manage Device

DSS supports adding organization and different types of device.

5.1 Add Organization

Before you add device, you need to add organization of current device. You can arrange, organize and manage layer of device in Org.

The default first-level organization is root node. Newly added organization will be displayed below the root node.

- Select General> Org, see Figure 5- 1.

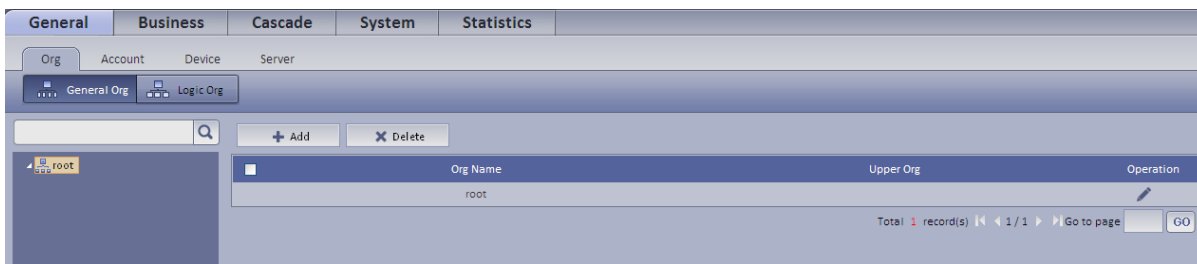



Figure 5- 1

- Click . System pops up a Edit Org box, see Figure 5- 2.

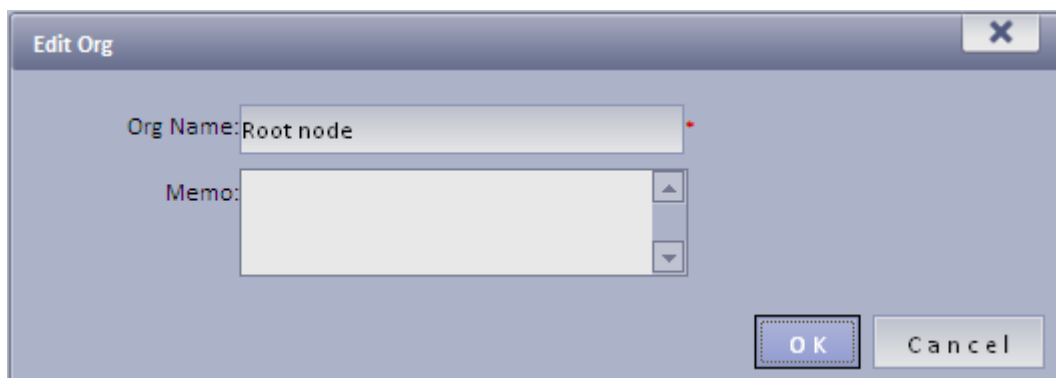



Figure 5- 2

Step 1. Edit Org Name, and click OK.

Step 2. Click . System pops up an Add Org box, see Figure 5- 3.

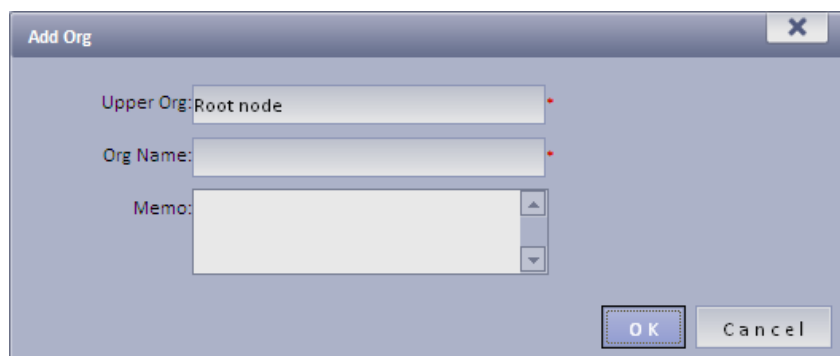


Figure 5- 3

Step 3. You can enter designated Org Name and click OK. For multiple layers of organizations, you shall repeat these steps. See Figure 5- 4.

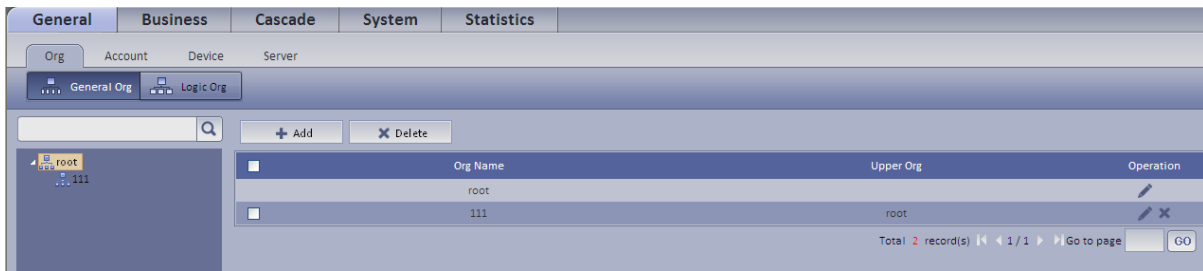


Figure 5- 4

Note:

You can only edit root node and the organization cannot be deleted.

- Select Org> Logic Org, click . System shows new logic org box, see Figure 5- 5.

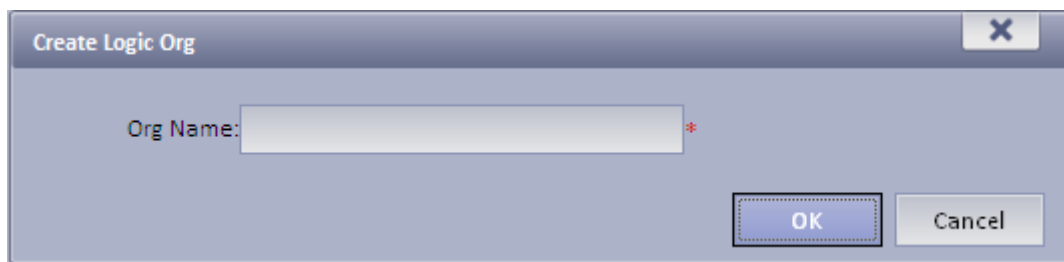


Figure 5- 5

Step 1. Enter organization name, and click OK.

Step 2. On the left, select logic org and click , select setup. See Figure 5- 6.

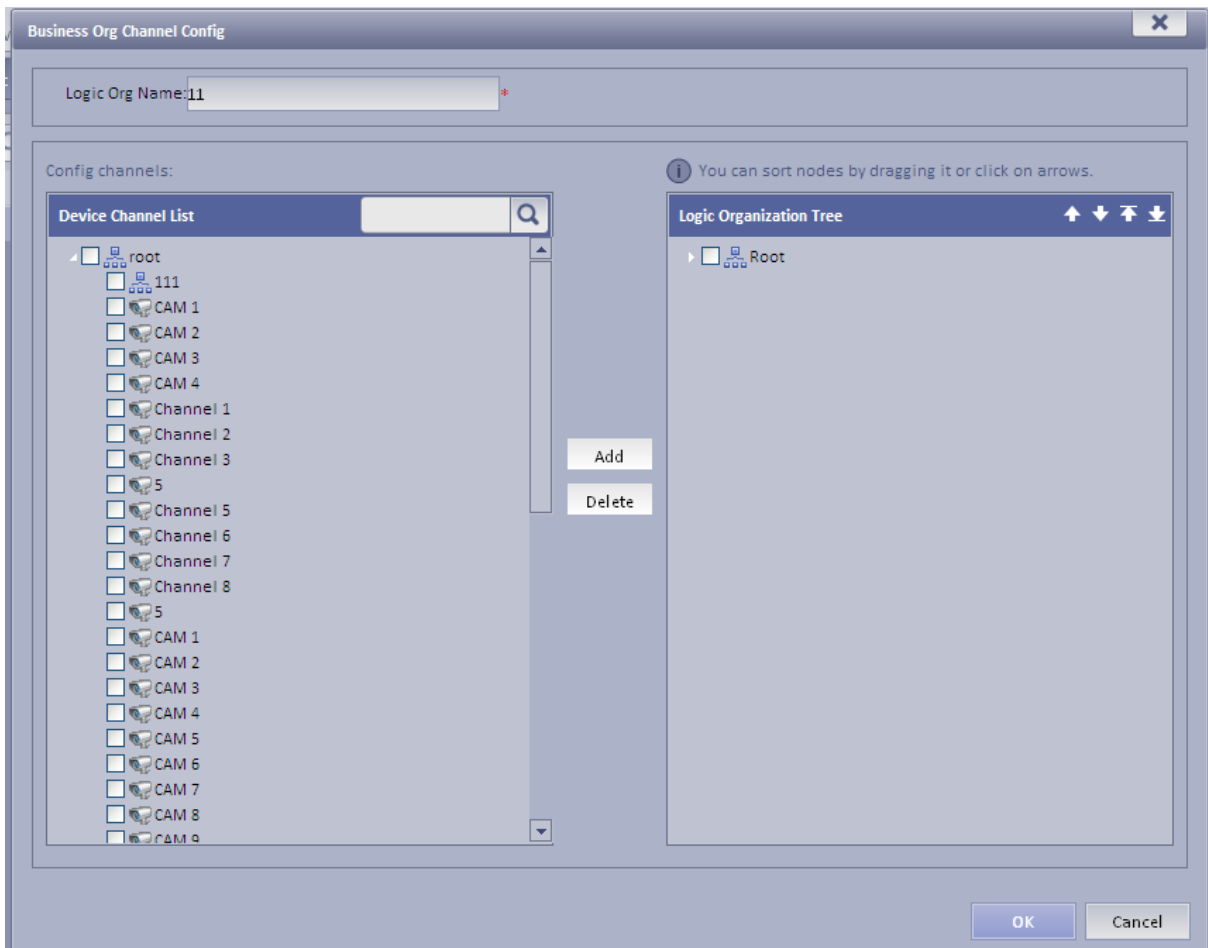


Figure 5- 6

Step 3. In config channel area, select alternate channel and add it to selected channel. See Figure 5- 7.

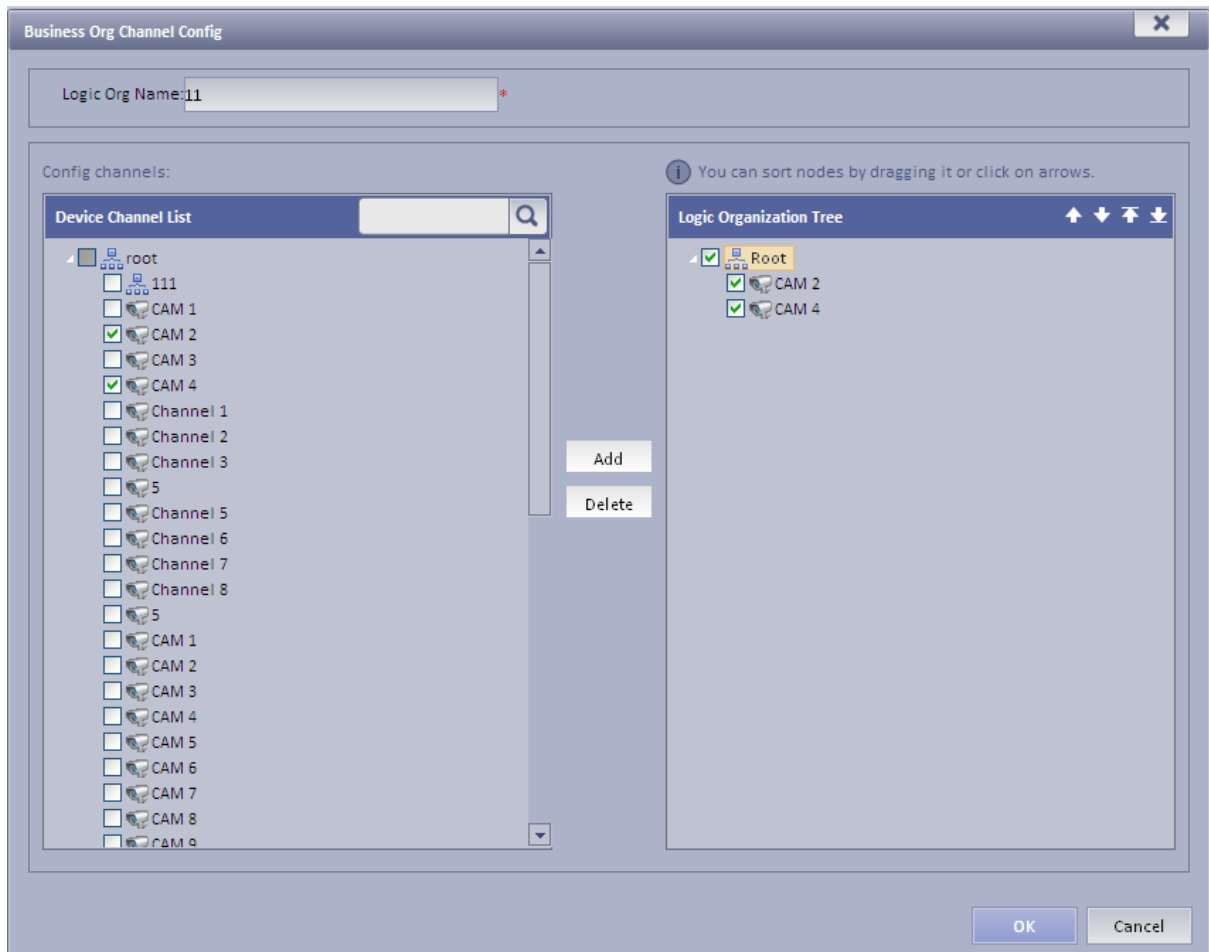


Figure 5- 7

You can adjust channel position via , , ,  buttons.

Step 4. Add user. Please refer to Ch 6.1.

Note:

In Figure 6-1, on the left, select logic org for device tree display.

Step 5. Add role. Please refer to Ch 6.2. After configuration is complete, you can login with the


added user account. Click  on General area to view. See Figure 5- 8.



Figure 5- 8

5.2 Add Device

You can add device in two ways:

- Device: Manage in device mode, where you can add, edit and delete devices, also you can configure and manage deployed devices.
- Channel: Manage in channel mode there you can view all devices' monitoring spot and alarm channel.

5.2.1 Add Encoder

DSS Manager supports manually adding encoder and auto search deployed encoder.

- Manually Add

Step 1. Select General>Device>Device, system displays device interface.

Step 2. Click  Encoder

Step 3. Click  Add . System displays Add Encoder box, see Figure 5- 9.

Figure 5- 9

Parameter	Note
Manufacturer	Manufacturer of the device.
Add Type	<p>You can add device via the following methods:</p> <ul style="list-style-type: none"> ● IP Address: If the device has static IP address, you can add device with its IP address. ● IP Section: If there are multiple devices with continuous IP address, such as 192.168.1.50 ~ 192.168.1.100, and their port no., channel number and other parameters are the same, you can add these devices as batch by entering starting IP and end IP. ● Domain Name: If you do not know IP the device, you can its domain name. ● Auto Register: When front-end device has dynamic IP address or in LAN, you shall add device via auto register. For example, add mobile device via auto register. ● ONVIF: When device supports ONVIF protocol, you can add

Parameter		Note
		device via ONVIF.
Server		Default is DSS.
IP Address		IP address of the device.
Device Port		Device port no.
ID		When add type is auto, you need to set it.
Username		Username to login device WEB.
Password		Password to login device.
Org		Organization where the device belongs to. Click the box and you can select corresponding organization in prompt box.
Getting Info		Click it to get info of device video channel, alarm input channel and output channel.
Device Name		Set device name.
Device SN		SN of the device
Video Channel	Device Amount	Actual number of channels, ranging from 1 to 255. Note: After you save the parameter, you may not change it.
Video Channel	Enable All	<ul style="list-style-type: none"> ● If select this parameter, then enable all channels of the device. ● If not select this parameter, then not enable channel of the device and cannot preview at Client. By default, enable all is checked and is recommended.
	Channel Name	Name of channel.
	Camera Type	Type of camera in the channel.
	Transcode	Convert main stream, sub stream and three stream.
Alarm Input Channel	Channel Amount	Actual number of channels, ranging from 1 to 255. Note: After you save the parameter, you may not change it.

Parameter		Note
	Enable All	<ul style="list-style-type: none"> ● If select this parameter, then enable all channels of the alarm input device. ● If not select this parameter, then not enable channel of the alarm input device and cannot preview at Client. <p>By default, enable all is checked and is recommended.</p>
	Channel Name	Name of alarm channel.
	Camera Type	Type of alarm camera in the channel. Reserved text, currently not available for config.
	Alarm Level	Alarm level of the channel. Level 1 is the highest and level 3 is the lowest.
Alarm Output Channel	Channel Amount	Actual number of channels, ranging from 1 to 255. Note: After you save the parameter, you may not change it.
	Enable All	<ul style="list-style-type: none"> ● If select this parameter, then enable all channels of the alarm output device. ● If not select this parameter, then not enable channel of the alarm output device and cannot preview at Client. <p>By default, enable all is checked and is recommended.</p>
	Channel Name	Name of alarm channel.

Step 4. Set Input Info, and click Getting Info. System will automatically get info of video channel, alarm input channel and alarm output channel.

Note: If you add device with IP section, domain name or auto register, then you cannot get info of video channel, alarm input channel and alarm output channel by clicking on Getting Info.

Step 5. Click OK as finishing adding encoder.

- **Auto Search**

System automatically adds encoder as follows:

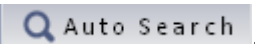
Step 1. Click . System auto searches the device and the result shall look like

Figure 5- 10.



Figure 5- 10

- Click to edit device info.
- Enter IP address in IP field and click Search to search IP within the range.

Step 2. Check device to add, and click . System pops up a Add Encoder box, see Figure 5- 11.

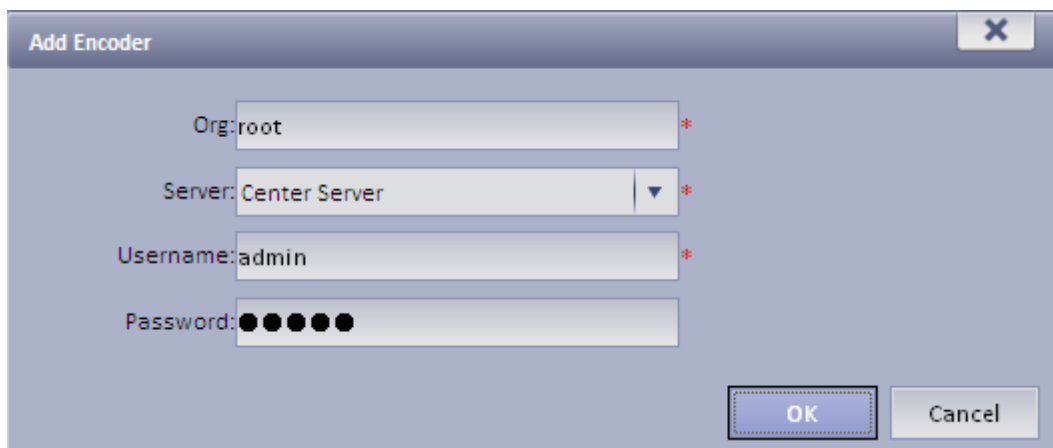




Figure 5- 11

Step 3. Select Org, input username and password. Username and password is the login username and password of device. Default username and password is admin/admin.
 Step 4. Click OK.

When device status switches from  to  as in Figure 5- 12. You also can view added device by selecting Controlled Status in the upper-right corner in Auto Search Encoder interface.

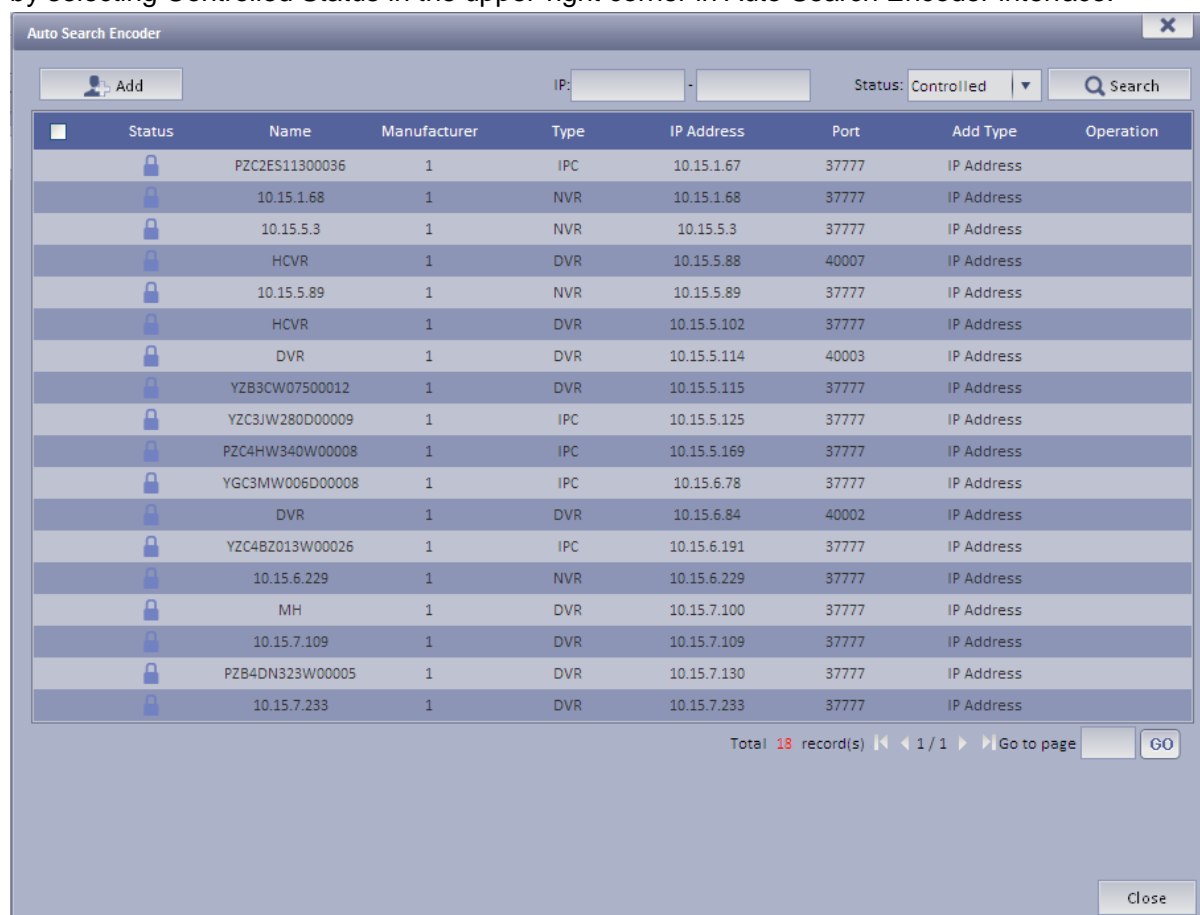


Figure 5- 12

Step 5. Click Close.

System will add the device into corresponding organizations. You may also edit and delete added device, please refer Ch 3.2.

5.2.2 Add Decoder

DSS Manager supports manually adding decoder and auto search deployed decoder. Please refer to Ch 5.2.1.

When you add decoder, please refer to Chart 5- 1.

Parameter		Note
Decoder Channel	Channel Amount	Actual channel number of the device, ranging from 1 to 255. Note: After you save the parameter, you may not change it.
	Decode Mode	Decode mode has direct and pull. <ul style="list-style-type: none"> • Direct: decoder obtain bit stream from device directly. • Pull: decoder obtain bit stream from device via DSS server. • Push: DSS platform returns bit stream to decoder. Default is pull.
	Combine	If decoder supports combining, then check this option.

Chart 5- 1

5.2.3 Add Video Wall

DSS Manager supports adding of video wall. Please refer to Ch 5.2.1.

5.2.4 Add Alarm Host


DSS support manually adding of alarm host. Please refer to Ch 5.2.1.

5.2.5 Add Intelligent Device

DSS Manager supports manually adding of intelligent device. Please refer to Ch 5.2.1.

Step 1. Add IVS device.

Step 2. Download and install IVS control.


1. Click  in IVS device Operation column. If you have no installed IVS control, system will pop up a message and ask you to download it and re-login the platform.
2. Click OK. System pops up download box.
3. Click Save.
4. When downloading is complete, click Close.
5. Open the downloaded file and install IvsConfigCtrl_Setup.exe.
6. Log in IVS interface again.

Step 3. Bind video channel to IVS device.

1. Click Add.
2. Double click device on the left and select channel and select IVS channel on the right.

Click . System will bind video channel and IVS channel.

3. Check IVS analysis, configure device name, device port and select strea,.
4. Click OK. System says successfully saved.
5. Click OK.

Step 4. Click  in Config column to configure rule.

- Detection zone: By drawing detection zone, it will detect the entire drawn zone. It will not detect areas outside the detection zone. There is only one detection zone. You can set more than one excluded zone. If no detection zone is set, it will detect the entire area.
- Scene mark: By drawing mark zone and set actual distance for vertical length and horizontal length. Event detector will decide road length and width with a series of algorithm and detect over speed, under speed and etc.
- Target filter: Set size or dimension of target and only reserves target within range.
- Rule config: Config alarm rule. You can add multiple rules to one channel. Rule type: perimeter protection, tripwire and etc.
- Parameter config: Config jitter rate, sensitivity and etc. Please refer to IVS user's manual.

5.2.6 Add Matrix

DSS Manager supports manually adding of matrix device. Please refer to Ch 5.2.1.

5.2.7 Add Transcoder

DSS Manager supports manually adding of transcoder. Please refer to Ch 5.2.1.

5.3 Manage Channel

In Channel, you can view added video channel, alarm input channel and alarm output channel. You can search added channel in Video Channel interface.

Alarm Channel includes alarm input and output channels. You can search added channels here.

6 Manage Account

DSS Manager allows user to add and delete accounts. User must create user role before adding user. Existing user can login manager and login the client. Different users may have different operation rights according to their user role.

6.1 Add User Role

Before you configure user, you must set user role and grant certain rights to the role.

Rights of user role includes Administrator Menu right, Operator Menu right and Device right. You must grant these rights before operate.

For example, you want to grant right as administrator:

Step 1. Click General>Account. System displays Account interface.

Step 2. Click Role tab.

Step 3. Click . System pops up Add Role box.

Step 4. Input Role Name, and select Role Level.

Note: If you check Copy Role next to Role Name, and select one role from the dropdown box, then the info will be pasted to your selected role.

Step 5. Click Device Rights page, select right in Right Trees and select channel in Channel Tree on the right. See Figure 6- 1.

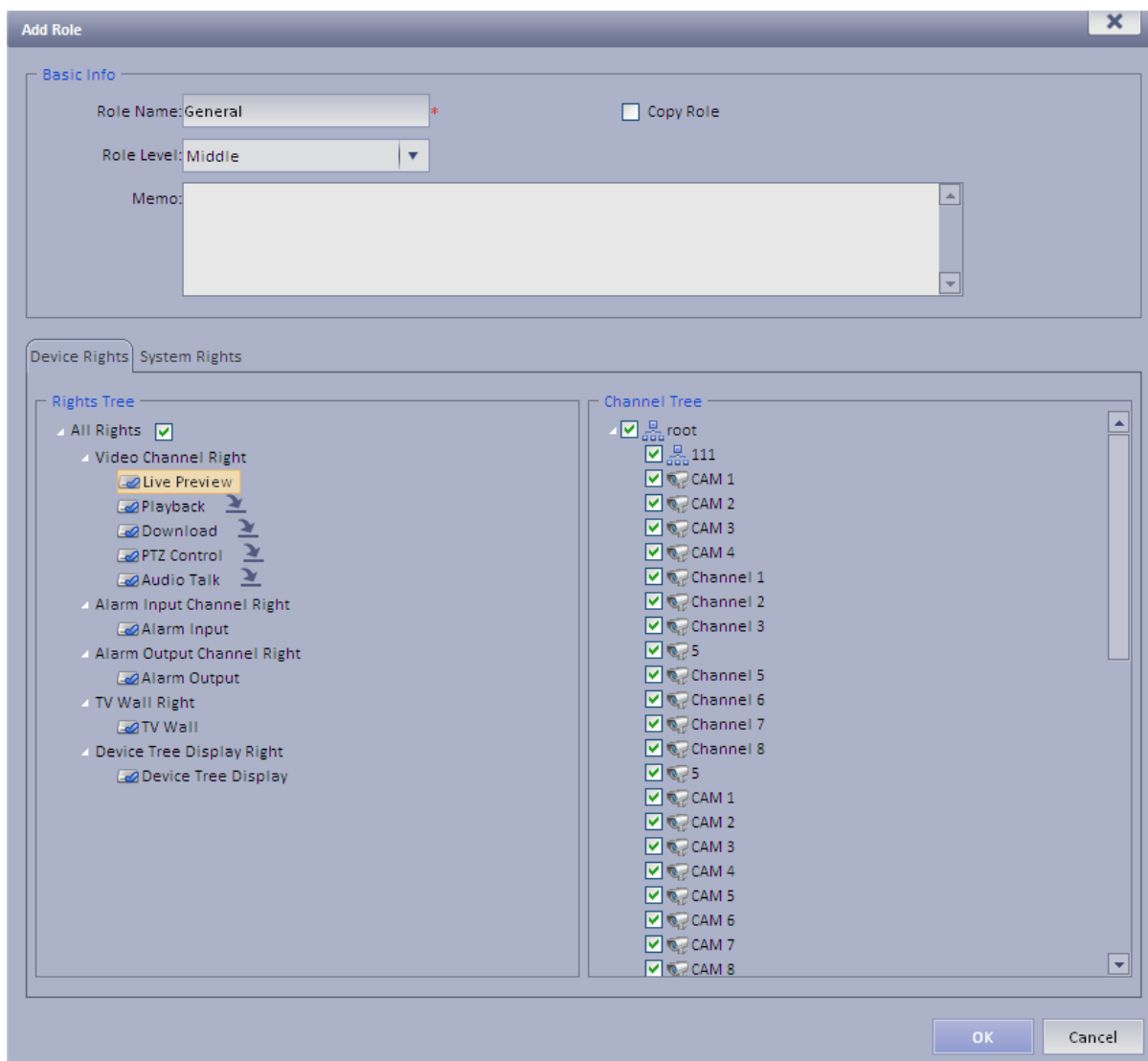



Figure 6- 1

Note:

- Click  so you can copy setting from the selected node to current node.
- If you do not check corresponding device right, then all users under this role will have no corresponding rights.
- You must add TV wall in Business>TV Wall before set right of TV wall. Please refer to Ch 8.4.

Step 6. Click System Rights tag, select corresponding system rights. See Figure 6- 2.

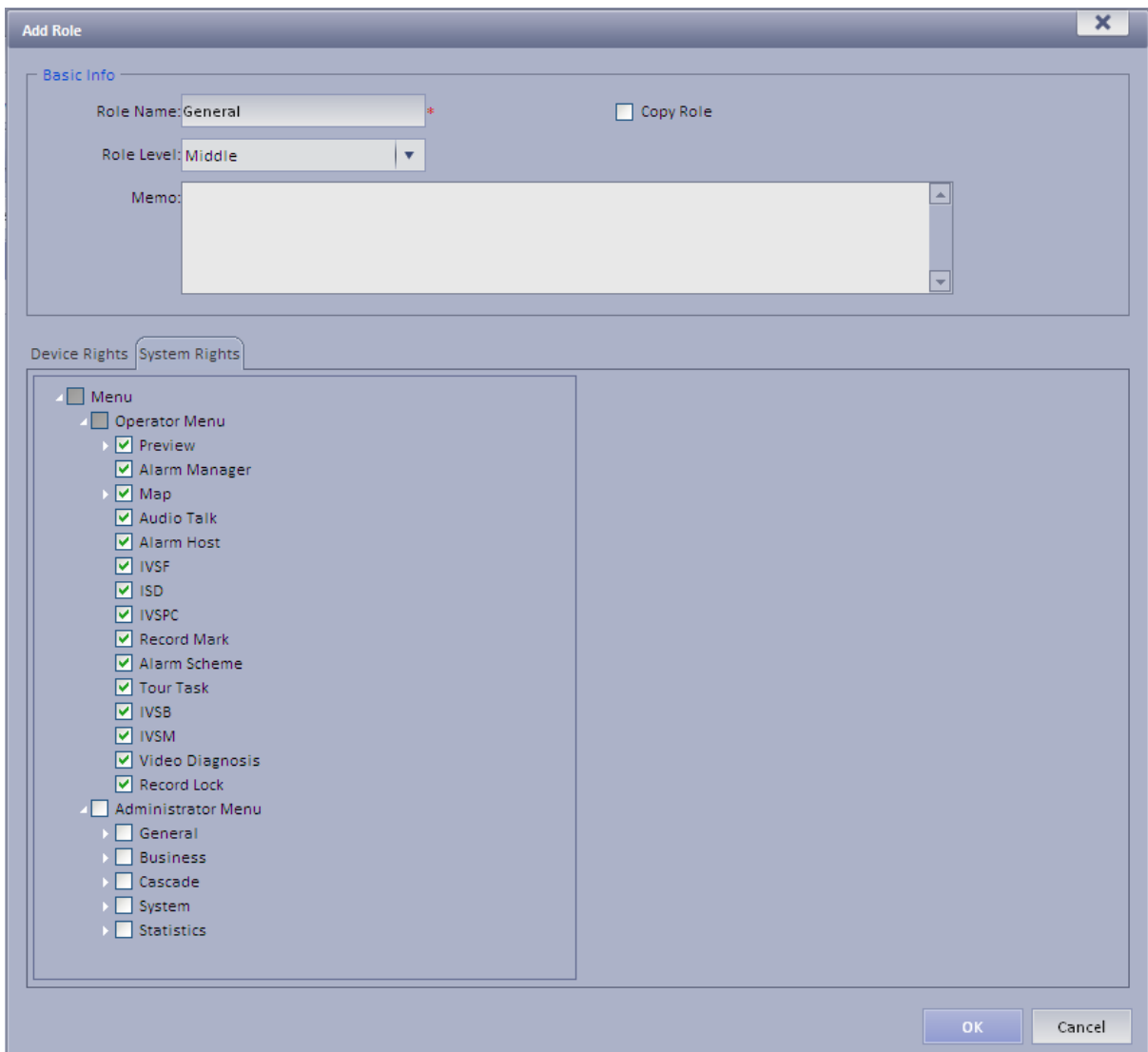


Figure 6- 2

Note:

- If you do not check corresponding device right, then all users under this role will have no corresponding rights. For example, if Operator Menu is not checked, then when this user logs in Operator, there will be no menu displayed.
- Operator menu in system right means C/S and B/S format menu in Client.

Step 7. Click OK to add the role.

6.2 Add User

If you have added user role, now you can add user of that role.

Step 1. Click User tab under Account.

Step 2. Click  Add. System pops up Add User box.

Step 3. Create a username, a password and confirm password. Select Department and Role.

See Figure 6- 3.

Add User

Compulsive Info

User Name: Reusable

Department:

New Password:

Confirm:

Role:

Optional ▾

OK Cancel

Figure 6- 3

Note:

- If you check Reusable box next to Username, then you allows more than one user to login system with this Username at the same time.
- If you do not select a role, then the user will have no System Rights or Device Rights.
- You can select more than one role at a time.
- You can click Optional in the lower-left corner to fill in extra info.

Step 4. Click Optional, system display interface as in Figure 6- 4.

Hide ^

Extension Info

User Name: *

ID No.: (Refers to any ID.)

Email:

Telephone:

Valid Date: -

Valid Period: -

MAC Check: (Only Support Client)

Memo:

OK Cancel

Figure 6- 4

Step 5. Set parameters.

Step 6. Click OK to add user.

7 Server Management

DSS series Manager provides server management function. Server management has center unit and video unit.


- Center server
- Has not added dual hot spare.

Step 1. Open General>Server>Center Server, you can see operation status of center server. See Figure 7- 1.

Name	IP Address	Type	Active Status	Running Status	Encode	Operation
Center Server	192.168.1.108	Host	Active	Normal	master	[Edit] [Settings]

Total 1 record(s) | 1 / 1 | Go to page [] GO

Figure 7- 1

Step 2. Click , you can view center server's name, service type, LAN/WAN IP and status. See Figure 7- 2.

Name	Service Type	LAN IP	WAN IP	Status
ASC(10001)	ASC	127.0.0.1:9700	10.15.6.98:9700	Online
ADS(11001)	ADS	127.0.0.1:9600	10.15.6.98:9600	Online
APP_MAIL(12001)	APP_MAIL	10.15.6.98:0		Online
APP_SMS(13001)	APP_SMS	10.15.6.98:0		Online
APP_SS(14001)	APP_SS	10.15.6.98:0		Online
ADP(15001)	ADP	127.0.0.1:9800	10.15.6.98:9800	Online
MGW(16001)	MGW	127.0.0.1:9090	10.15.6.98:9090	Online
VMS(4001)	VMS	10.15.6.98:0		Online
PES(8001)	PES	127.0.0.1:9400	10.15.6.98:9400	Online
APP_MATRIX(9001)	APP_MATRIX	10.15.6.98:0		Online

Figure 7- 2

- Add dual hot spare.
Please refer to DSS Platform Initialization User's Manual Ch 2.3.
Open General>Server>Center Server, you can see operation status of center server.

- Video Server



Step 1. Open General>Server>Video Server, you can see operation status of sub server. See Figure 7- 3.

Keyword: Search

Name	IP Address	Type	Server Target	Running Status	Enable Status	Encode	Operation
------	------------	------	---------------	----------------	---------------	--------	-----------

Total 0 record(s) | 1 / 1 | Go to page [] GO

Figure 7- 3

Step 2. Click  or , you can edit or delete video server.

Step 3. Click , you can view each host server name, server type, LAN/WAN IP and status.

8 Daily Operation

8.1 Add Record Plan

DSS Manager supports record plan of channel which allow front-end device to record during planned period.

System saves record file to network storage server. You can plan the file in General >Playback on Operator-end.

Step 1. Select Business>Storage. System displays Storage interface as in Figure 8- 1.

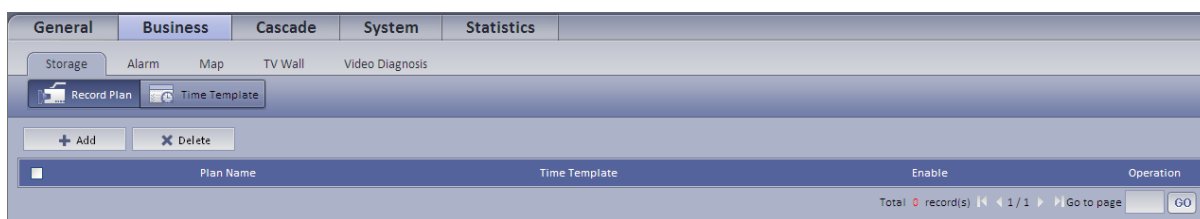


Figure 8- 1

Step 2. Set record time.

a) Click Time Template in the upper-right corner of record interface. System displays Time Template interface. Default Time Templates are weekend, weekday and 24-hour.

b) Click . System pops a Add Time Template box. See Figure 8- 2.

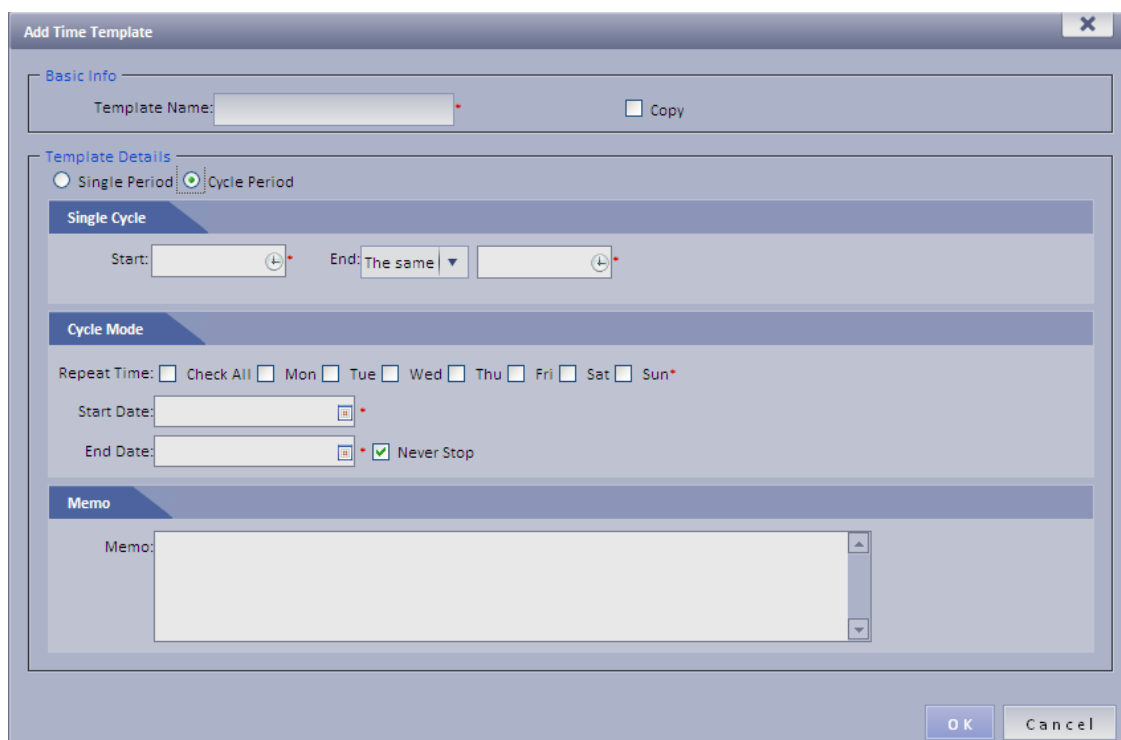


Figure 8- 2

- c) Input Template Name, select cycle period. Set single system, cycle mode and never stop.
See Figure 8- 3.

Figure 8- 3

Note:

If you check Copy next to Template Name, and select template in the dropdown list, then you can copy configured template to current template.

- d) Click OK.


See Figure 8- 4.

Time Template	Operation
Period 1	✎ ✕
Weekend Template	✎ ✕
Business Day Template	✎ ✕
All-Periods Template	✎ ✕

Figure 8- 4

Step 3. Set record plan.

- a) Click Record Plan in the upper right corner of Record interface. System displays Record Plan interface.

b) Click . System pops up Add Record Plan box. See Figure 8-

5.

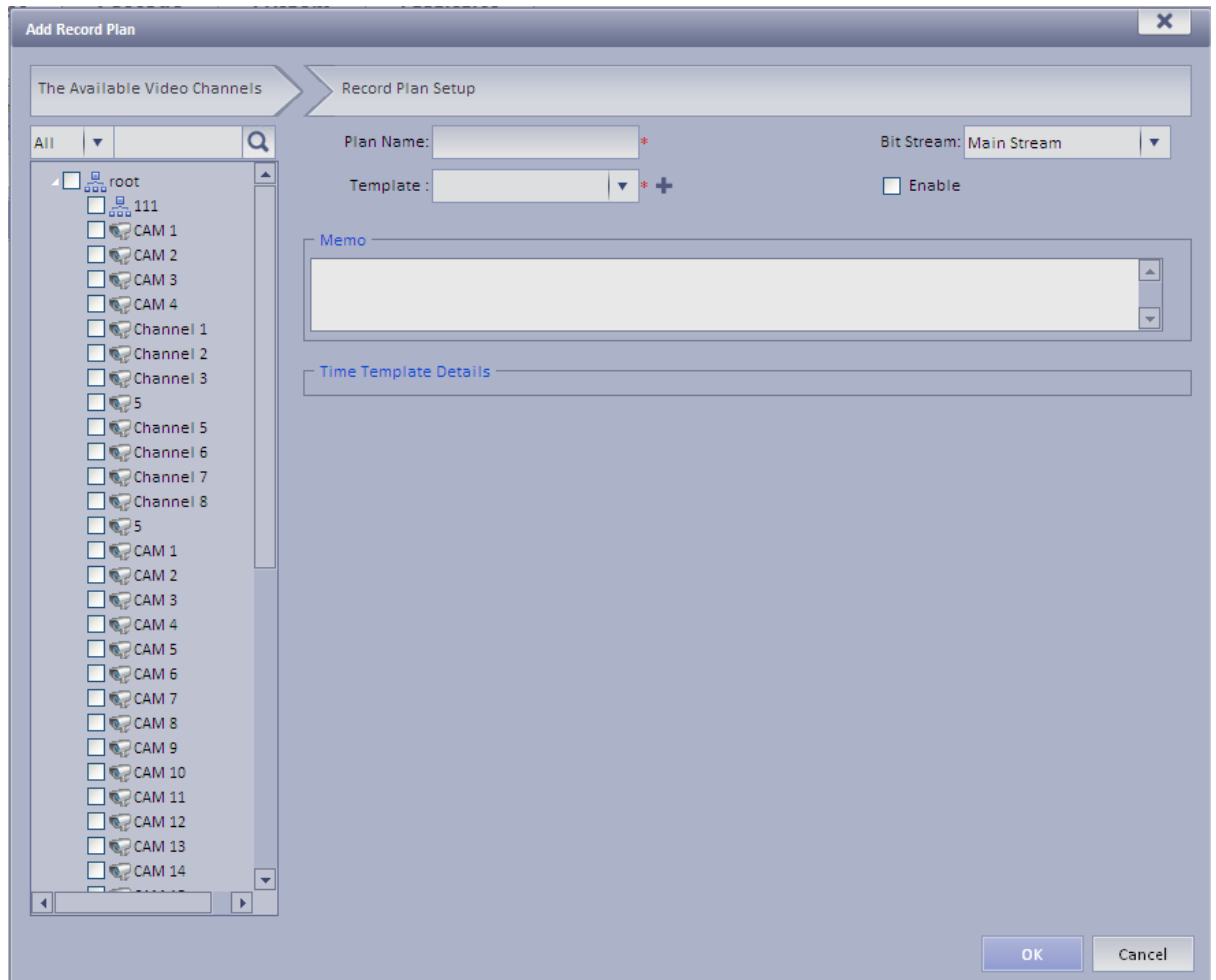



Figure 8- 5

Parameter	Note
Bit Stream	Video channel bit stream. It has main stream, sub stream and third stream. Main stream is more clear than sub stream.
Time Template	Record time template. <ul style="list-style-type: none"> If you have added time template under Storage interface, then you can select existing time template. If you have not added time template under Storage interface, you can click  here to add.
Enable	Select Enable to enable record plan, and system will start record at set time. Otherwise, system will not record.
Single Period	You need to set detailed start time and end time. It records within the period. Note: Only when time template is set to custom, you shall set the parameter.

Parameter	Note
Cycle Period	You shall set record period and repeat strategy. Note: Only when time template is set to custom, you shall set the parameter.
Add Plan to Time Template	Select to add plan into time template, then customized time template will be added to time template in Storage interface. Note: Only when time template is set to custom, you shall set the parameter.

c) Input Plan Name, and select Template, Bit Stream. Check Record Plan. See Figure 8- 6.

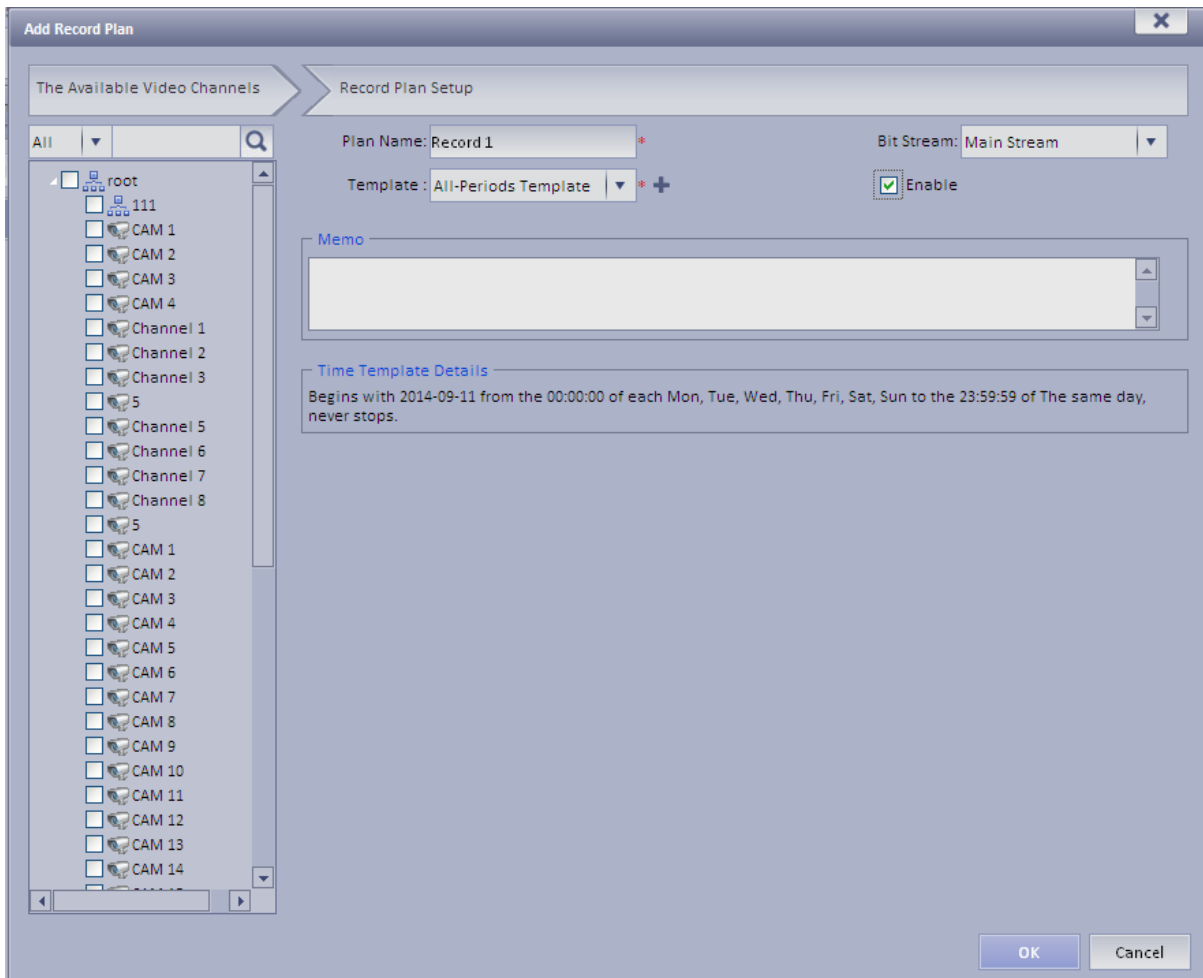


Figure 8- 6

Step 4. Click OK. System displays configured record plan.

8.2 Alarm

DSS Manager supports alarm, including Alarm Scheme, Output Alarm Video to the Wall, Alarm Type, Alarm Time Template, Link Level and Contacts.

- Alarm Scheme: set alarm scheme template.

- Output Alarm Video to the Wall: Make alarm video display on wall.
- Alarm Type: Set system alarm interval and customize alarm as batch.
- Alarm Time Template: Set alarm time template.
- Link Level: Set alarm link level.
- Contacts: Set user who to receive alarm notice.

Alarm flow chart is in Figure 8- 7.

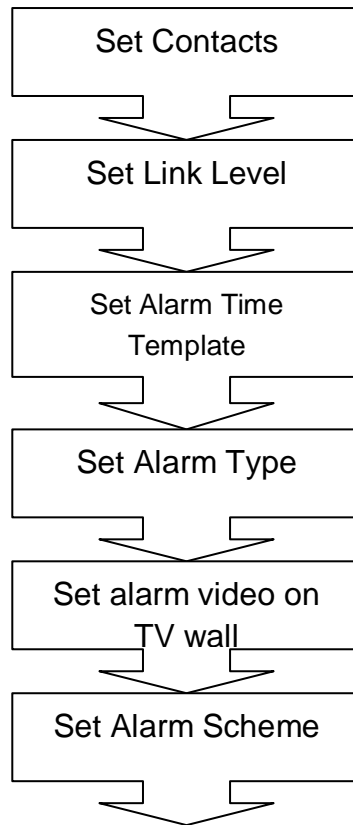



Figure 8- 7

8.2.1 Set Contacts

When you add user into contacts and if the setup of Link Level includes email or sms, then system will send email or sms to the new contact.

Step 1. Click Alarm tab. System displays Alarm interface.

Step 2. Click .

Step 3. Click . System pops up a Add Contacts box. See Figure 8- 8.

The 'Add Contacts' dialog box features a title bar with a close button (X). Below the title bar are five input fields: 'User Name:', 'ID No.:', 'Email:', 'Telephone:', and 'Memo:'. The 'Memo' field is a text area with scrollbars. At the bottom right, there are two buttons: 'OK' and 'Cancel'. The 'OK' button is highlighted with a dashed border.


Figure 8- 8

Step 4. Input User Name, ID No., Email and Telephone.

Step 5. Click OK.

8.2.2 Set Link Level

You can set Link Level and its corresponding Link Mode as 1 is the highest and 5 is the lowest.

Step 1. Click . System pops up an interface as in Figure 8- 9.

Link Name	Link Mode	Link Memo	Operation
LEVEL 5	Email, Record, SMS, TV Wall	LEVEL 5	
LEVEL 4	Email, Record, SMS, TV Wall	LEVEL 4	
LEVEL 3	Email, Record, SMS, TV Wall	LEVEL 3	
LEVEL 2	Email, Record, SMS, TV Wall	LEVEL 2	
LEVEL 1	Email, Record, SMS, TV Wall	LEVEL 1	

Total 5 record(s) | < 1 / 1 > | Go to page: GO

Figure 8- 9

Step 2. Click . See Figure 8- 10.

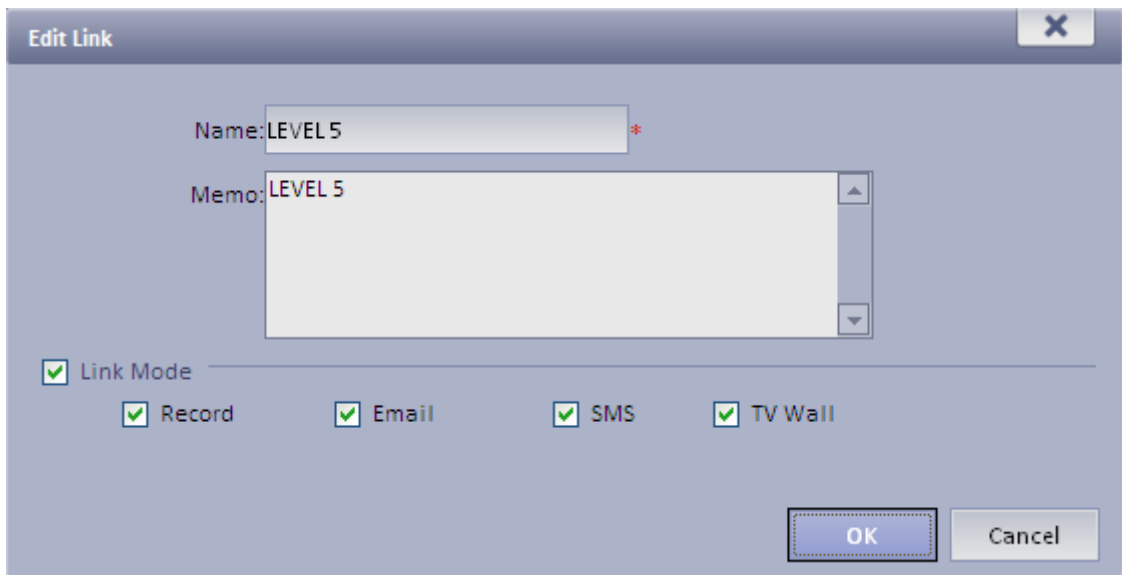



Figure 8- 10

Step 3. Set Link Level Name and select Link Mode.

Step 4. Click OK.

8.2.3 Set Alarm Time Template

You can follow these steps:

Step 1. Click  Alarm Time Template. System displays time template interface.

Step 2. Click Add. System pops up an Add Alarm Time Template box.

Step 3. Input Template Name, select cycle period. Set Single Period and link level. See Figure 8-11.

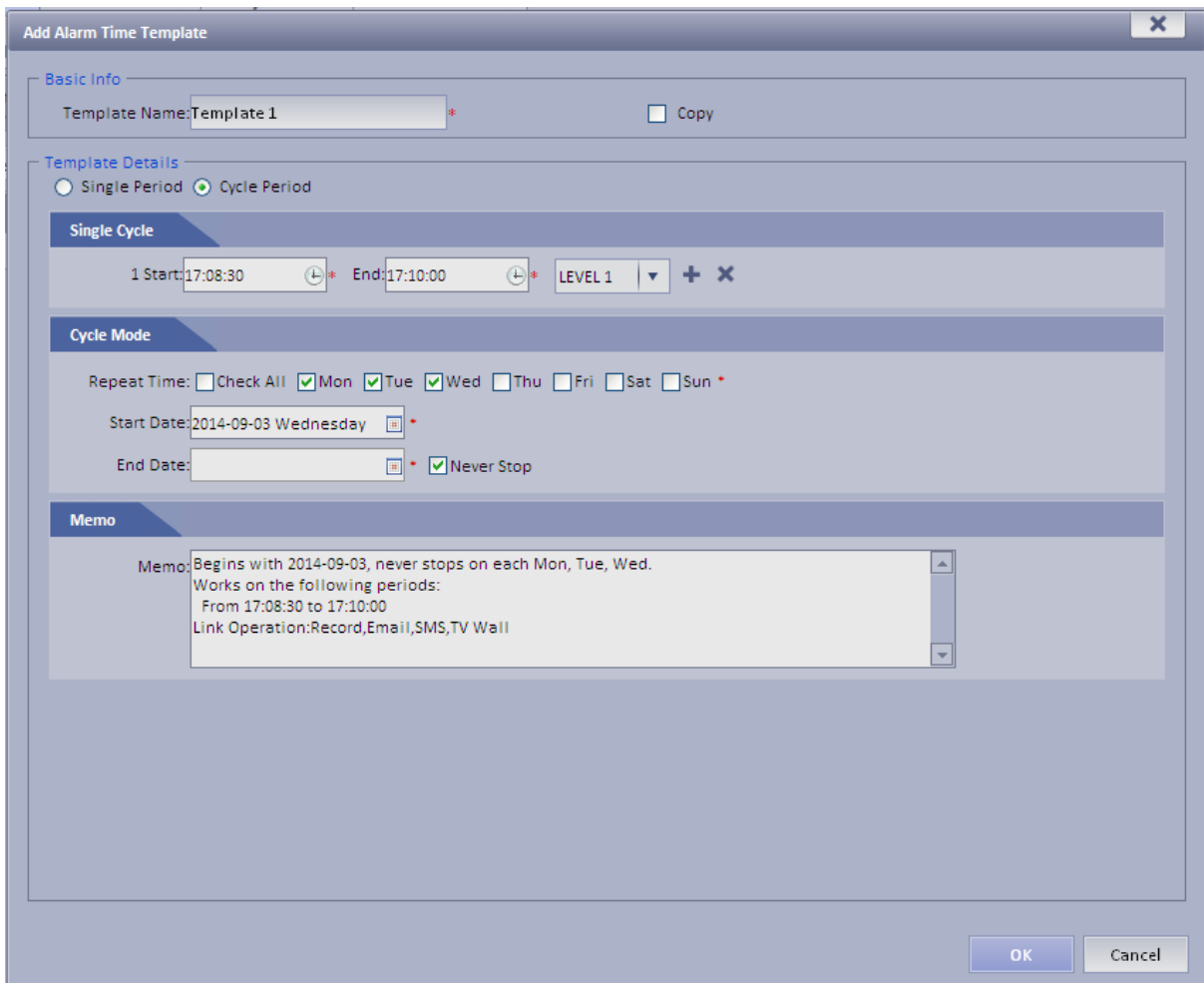



Figure 8- 11

Note:

- If you check the Copy box next to Template Name, then you need to select template in the dropdown box.
- You shall set Link Level first before select level here. Please refer to Ch 7.2.2.
- Click  to set Link Level of other periods.

Step 4. Click OK.

8.2.4 Set Alarm Storm

You can set alarm interval and customized alarm storm as batch.

- **Set alarm interval as batch**

Step 1. Click  Alarm Storm. System displays Alarm Storm interface.

Step 2. Select one or more alarm storm, and click  Alarm Interval Setup. System pops up a box as in Figure 8- 12.




Figure 8- 12

Step 3. Set Alarm Interval.

Note: The interval cannot be over 86400 seconds.

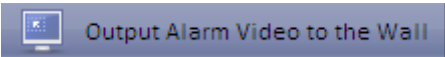
Step 4. Click OK.

You can click  to stop alarm interval as batch.

8.2.5 Set Alarm Video on Wall

Note:

You shall configure TV wall before outputting alarm video to the TV wall. To configure TV wall, please refer to Ch 8.4.

Step 1. Click .

Step 2. Click . System pops up an Add Alarm Scheme box.

Step 3. Input Task Name and select TV Wall.

Step 4. Drag channel on the left to TV wall window. See Figure 8- 13.

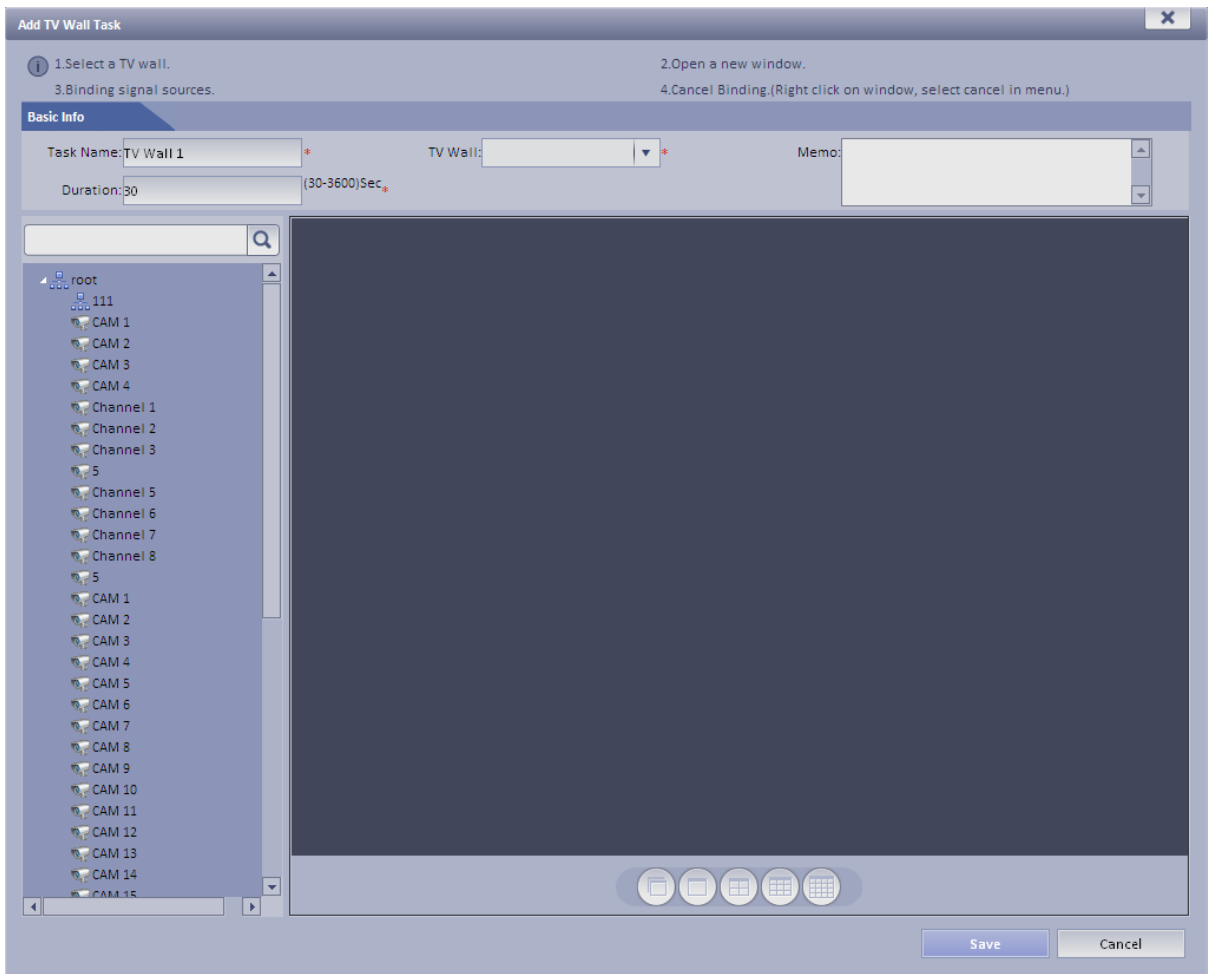



Figure 8- 13

Step 5. Click Save.

8.2.6 Set Alarm Scheme

Configure Alarm Scheme as follows:

Step 1. Click  .

Step 2. Click  . System pops up an Add Alarm Scheme box as in Figure 8- 14.

1 Alarm Time 2 Alarm Source and Operation 3 Alarm Preview

Scheme Name: * Template: * Enable

Memo:

Template Details

Time	Corresponding Link Level	Corresponding Link Item

Next Cancel

Figure 8- 14

Step 3. Input Scheme Name, select template and check Enable.

Note: You must configure Alarm Time Template before selecting time template here. To configure Alarm Time Template please refer to Ch 7.2.3.

Step 4. Click Next. System displays Alarm Source and Operation interface.

Step 5. Click . System displays Add Alarm Source and Link Operation 1 box, see Figure 8- 15.

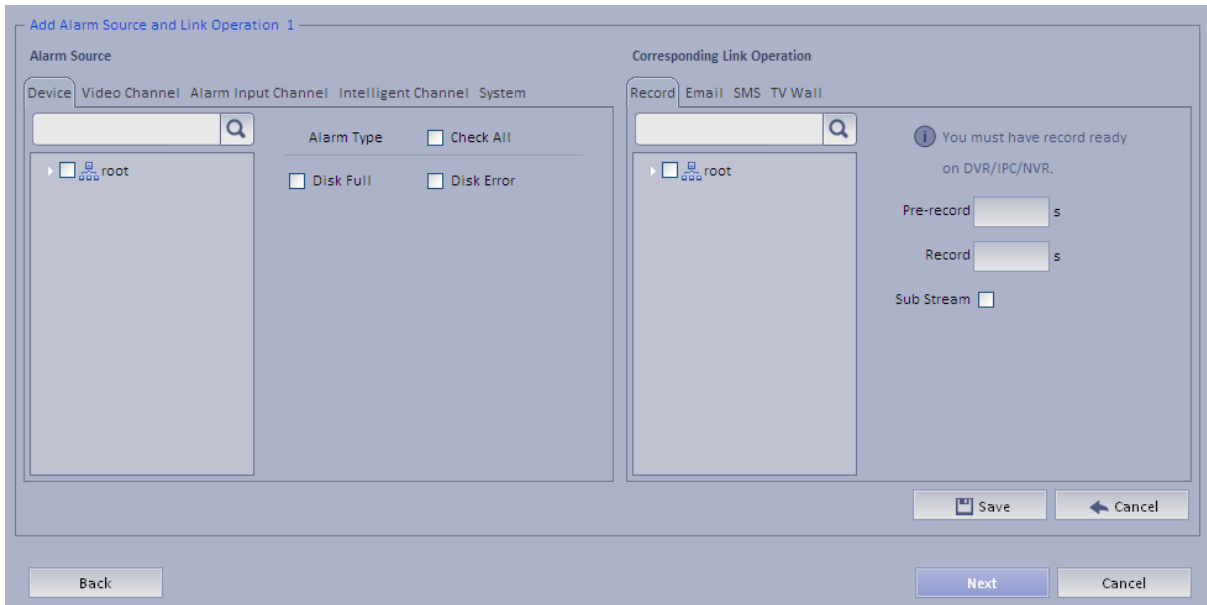


Figure 8- 15

Step 6. In Alarm Source area, select alarm source and its link operation. Alarm source includes device, video channel, alarm input channel, and intelligent channel. Different alarm source corresponds to different alarm type.

Step 7. In Corresponding Link Operation area, select link operation. Link operation includes Record, Email, SMS and TV Wall.

- For link operation, if you select record, you shall select video channel under Record tab, and set record time.

Note:

If you need pre-record, then select device record needed.

- You shall add user in Business> Alarm>Contacts first before selecting the user in Link Operation, please refer to Ch 8.2.1.

To config email parameters:

1. In Internet Explorer, enter IP address followed by **/config**, press Enter. See Figure 8-16.

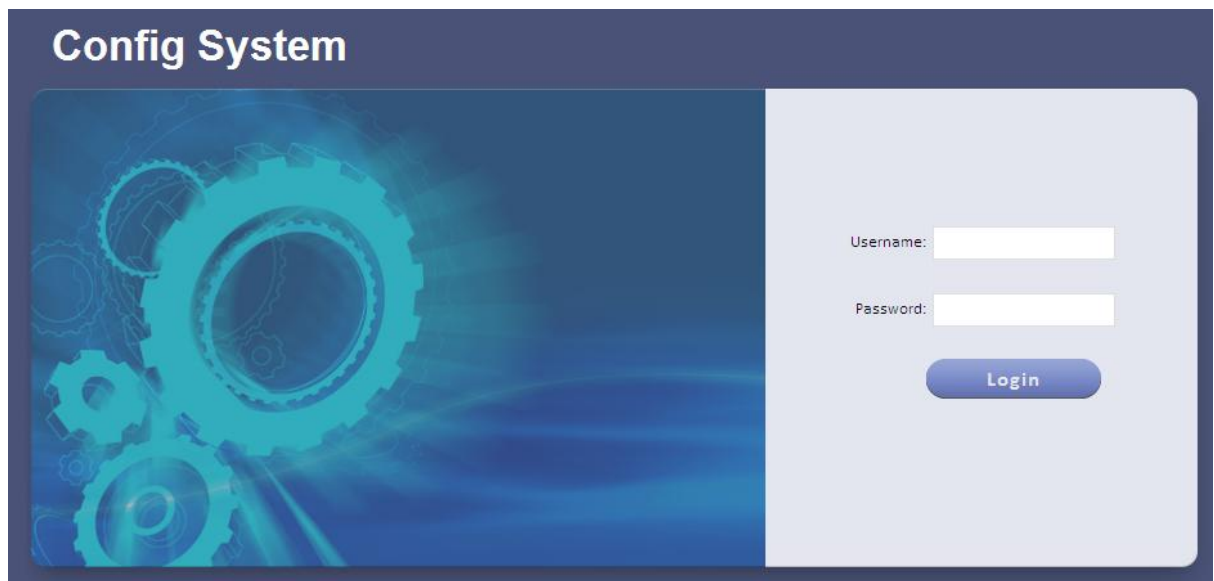


Figure 8- 16

2. Enter username and password. Default username is **admin** and password is **123456**.
3. Click Login. See Figure 8- 17.

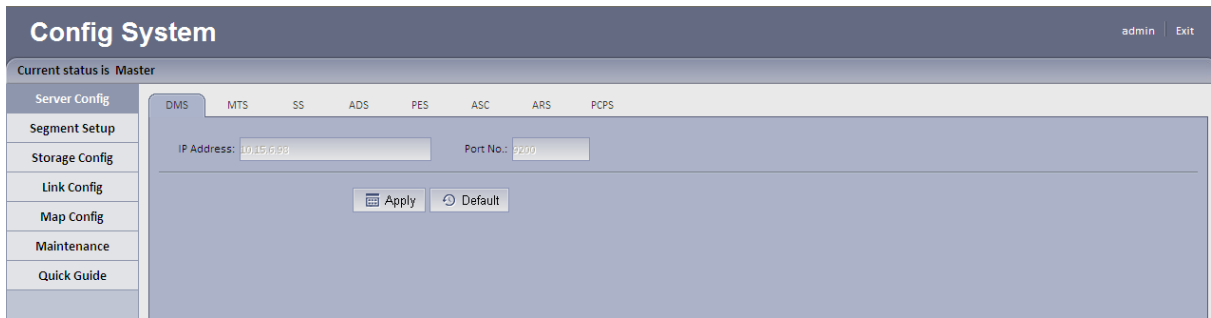


Figure 8- 17

4. Select Link Config>Mail Link. See Figure 8- 18.

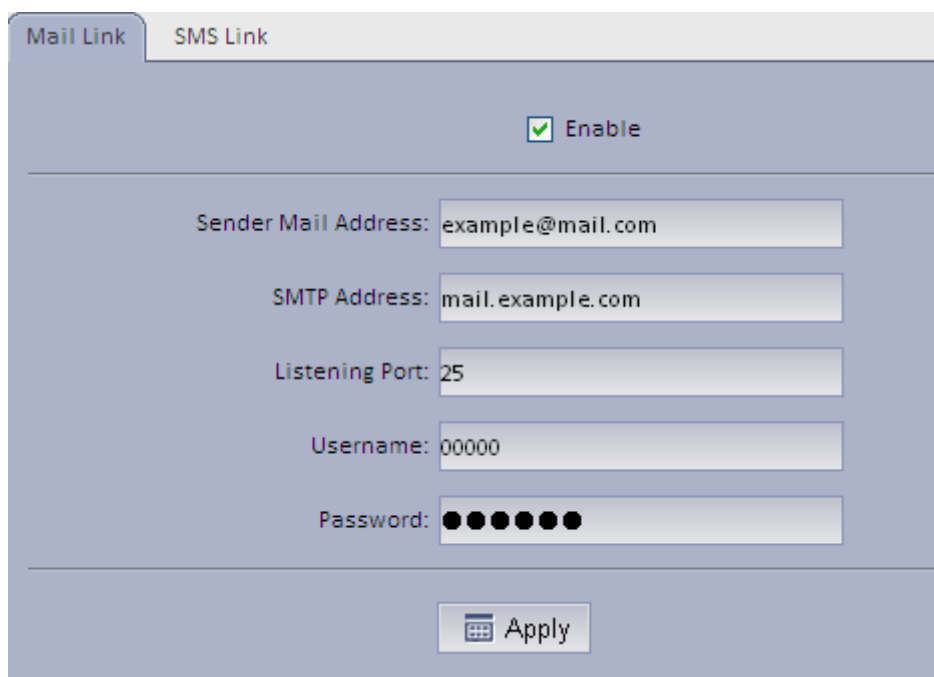


Figure 8- 18

5. Configure parameter, click Apply. It successfully modified setup.
SMTP server listening port, default is 25.
6. Check Enable.
- When link operation select SMS, you shall configure SMS parameter and add user in Business>Alarm>Contacts.
Please refer to Ch 8.2.1.
To configure SMS modem:
 1. In Config System login interface, select Link Config>SMS Link interface, see Figure 8- 19.

Mail Link SMS Link

Enable

SMS Modem Setup SN: 868995833281286

SMS Modem COM: 1

SMS Modem Protocol: 9600,N,8,1

Sending Quantity/Hour: 60

Sending Quantity/Day: 360

SMS Center Number: +8615168365578

Apply

Figure 8- 19

2. Configure parameter, click Apply. It successfully modified setup.

Note:

SMS COM: COM no. of USB on DSS series communicating with SMS.

3. Check Enable.

- When link level is video wall, you shall add alarm video wall task first, before selecting corresponding video wall in link level. Please refer to Ch 8.2.6.

Step 8. Click Save. System prompts a message “Successfully save scheme rule!”.

Step 9. Click OK.

Step 10. Click Next. System displays Alarm Preview interface as in Figure 8- 20.

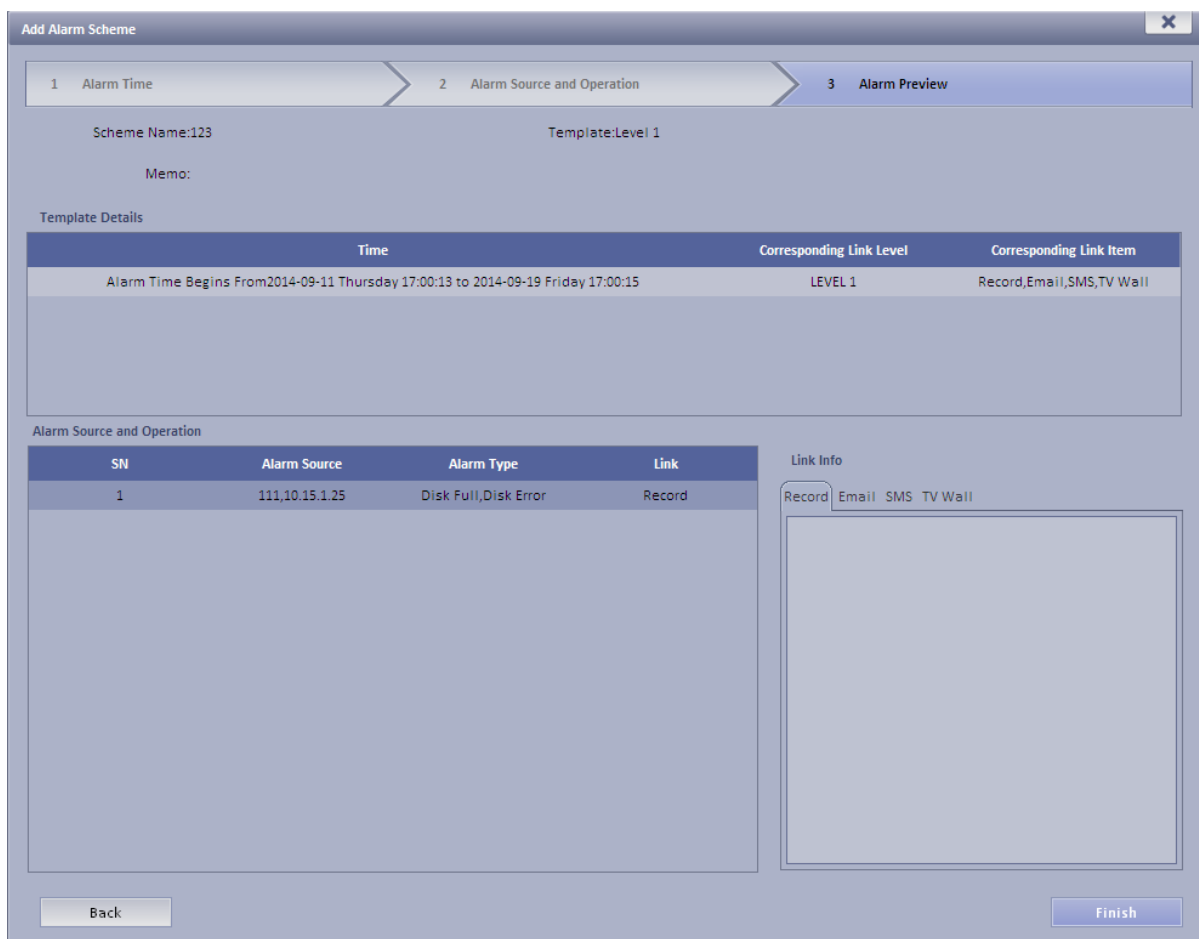


Figure 8- 20

Step 11. Click Finish.

When alarm occurs, system performs link operation according to Alarm Scheme settings, and shows alarm info in Statistics>Device>Device Alarm Info.

8.3 Map

DSS Manager supports super map, raster map, google and google offline map. You can add video device onto the map.

To add electronic map:

Step 1. Select Business>Map.

Note:

If there is no electronic map, please refer to DSS Platform Initialization User's Manual.

Step 2. Drag device under Video Device tab onto the right onto the map. See Figure 8- 21

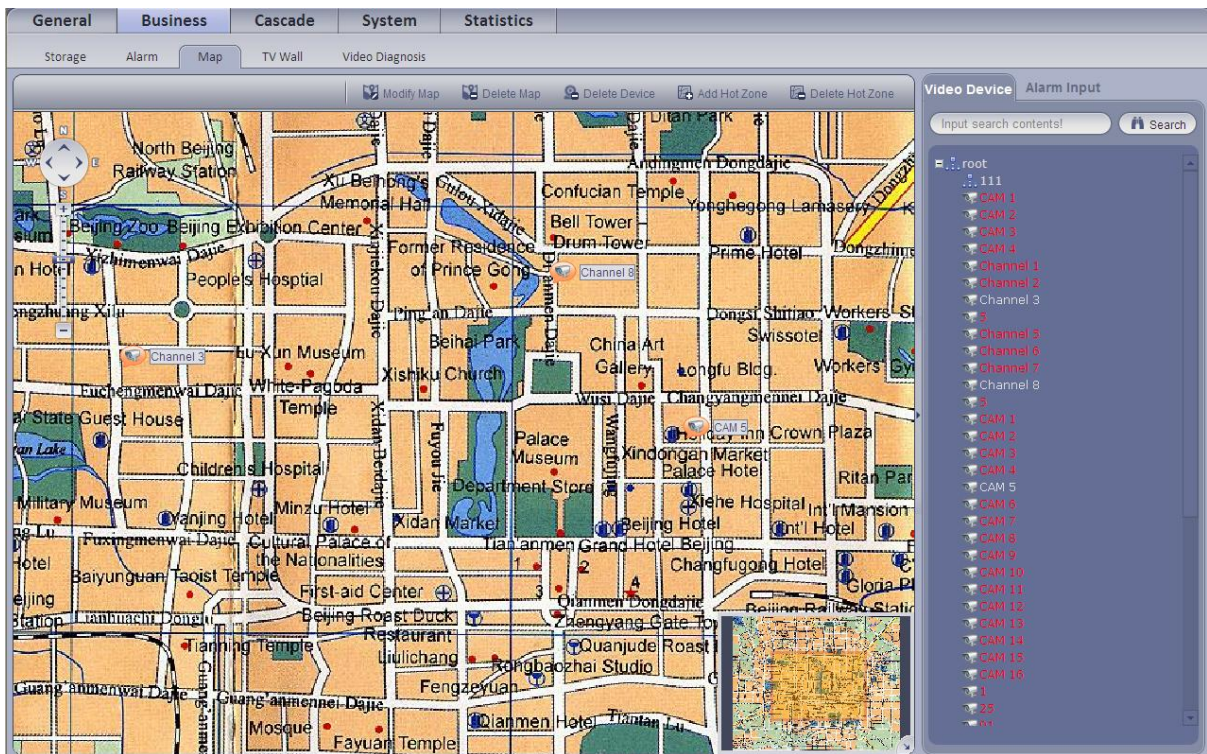


Figure 8- 21

Color of text in Video Device list:

- Red: the channel is not configured on map.
- Grey: the channel is shown on map.

Step 3. Drag device under Alarm Input tab onto map.

Step 4. Click Save.

8.4 Set TV Wall

DSS Manager supports configuration of TV wall.


After TV wall is configured, you can make video display on TV wall from Client. Please refer to DSS Client User's Manual's Ch 5.5.

Note: User of Client must have TV wall right in order to configure video display on TV wall.

To configure TV wall, please follow:

Step 1. Add decoder. Please refer to Ch 5.2.1.

Step 2. Select Business>TV Wall, system displays TV Wall interface.

Step 3. Click  Add . System pops up a Add TV Wall box, see Figure 8- 22.

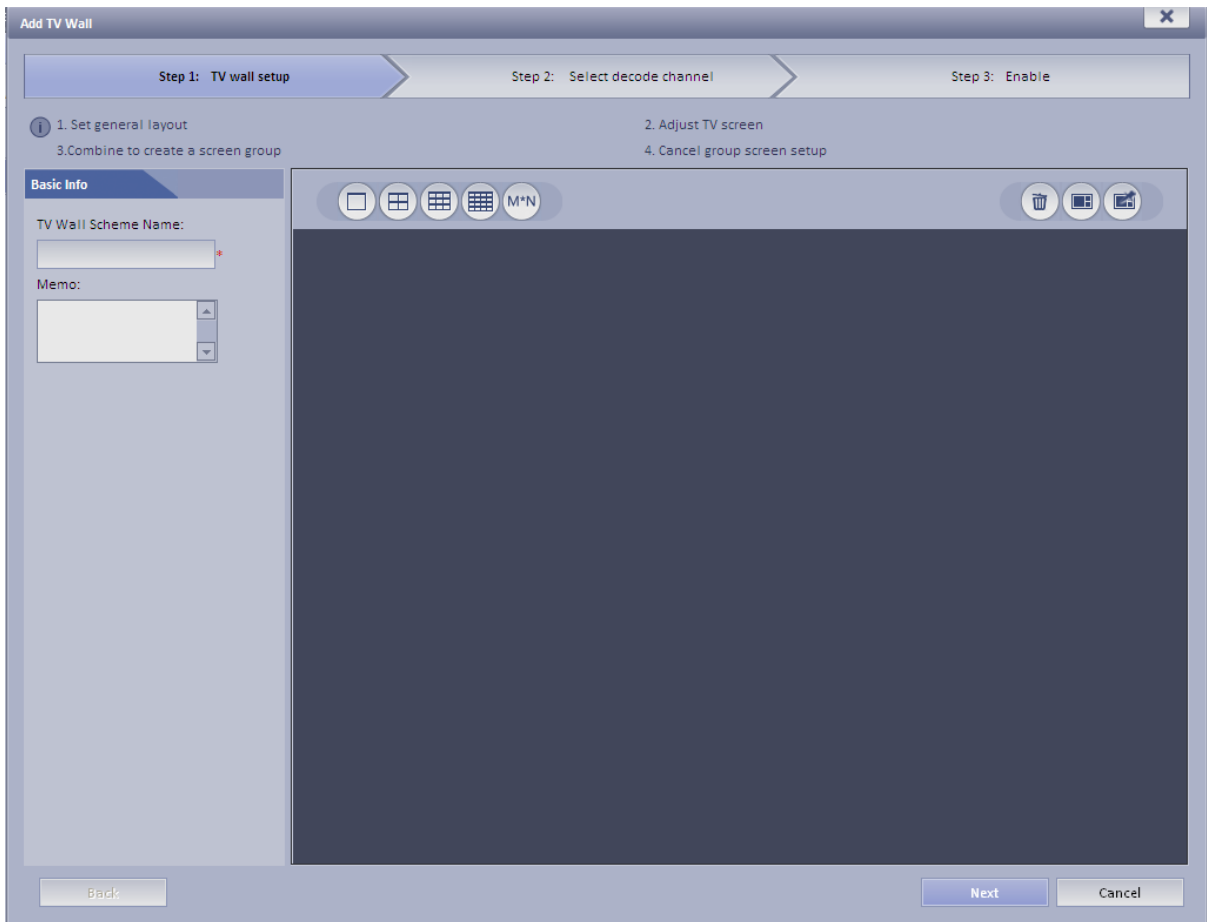



Figure 8- 22

Step 4. Input TV Wall Scheme Name and click  to select layout of 1*1, 2*2, 3*3 or 4*4. See Figure 8- 23.

You also can click  to customize TV wall.

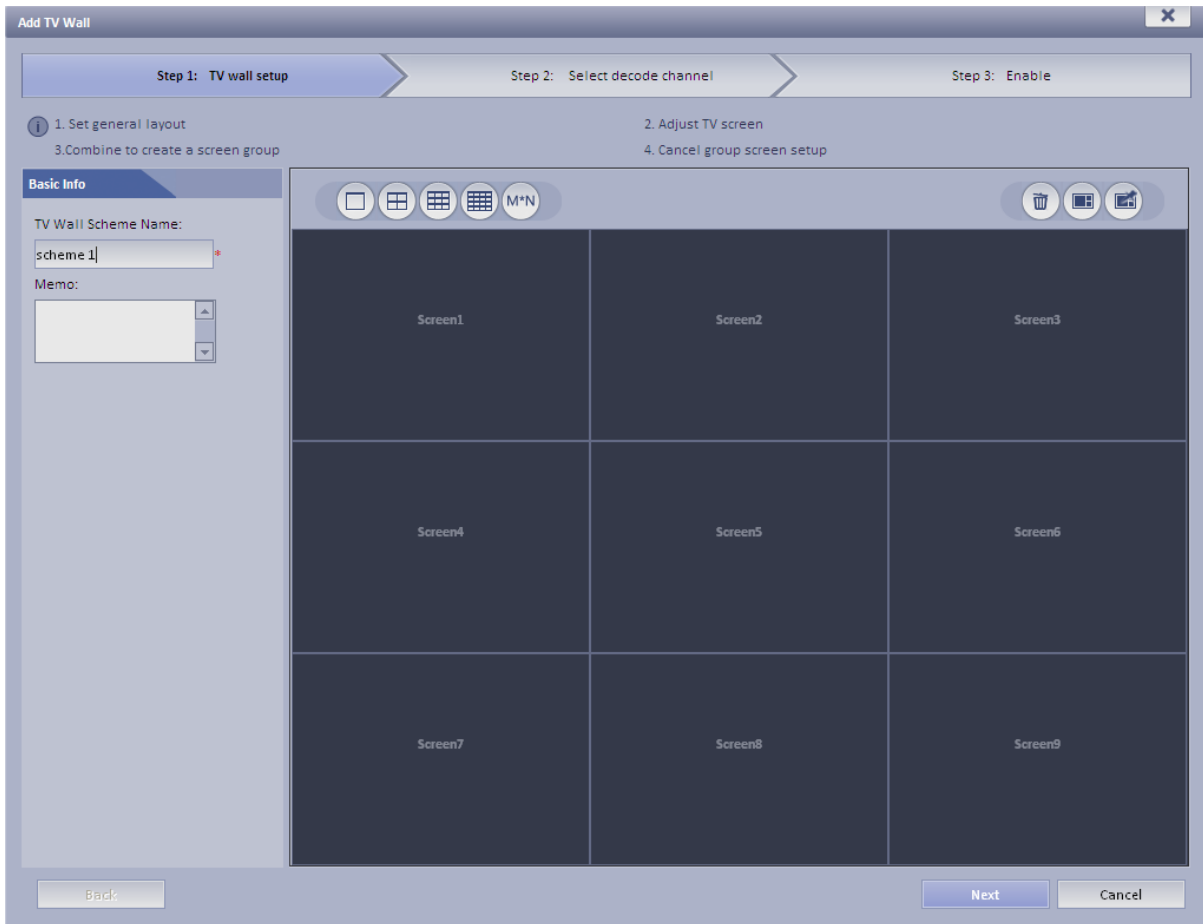




Figure 8- 23

Note:

- Press Ctrl and now you can select more than one screen. Click  on the right to combine selected screens. You can cancel combination by clicking on . Before you combine screens, you must add video wall equipment.
- Double click the screen or right-click and select Properties. In the pop-up box, you can set exact position, size and name of screen.
- Select a screen, and right click to delete or rename the screen.

Step 5. Click Next. System displays Select decode channel interface.

Step 6. In Device Tree, select decoder and drag it to corresponding TV wall. See Figure 8- 24.

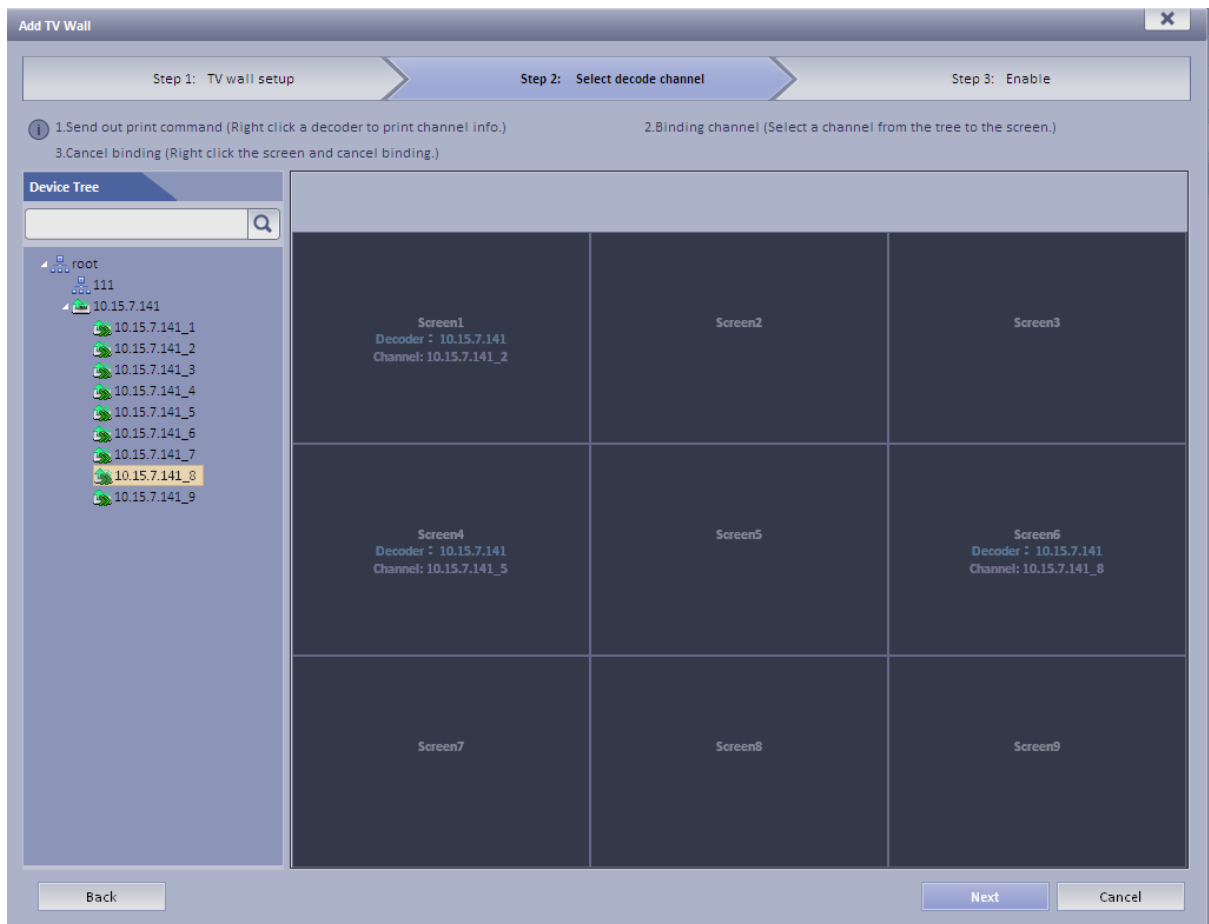


Figure 8- 24

Note: Right-click can cancel current binding and rename screen.

Step 7. Click Next. System displays Enable interface.

Step 8. Check Apply Now.

Note: If you do not check Apply Now, then you cannot select this TV wall on Client.

Step 9. Click Finish.

8.5 Video Diagnosis

DSS series Manager supports configuration of video diagnosis, including scheme config, task config and diagnosis item config.

- Scheme config: configure video diagnosis scheme template.
- Task confi: configure video diagnosis task.
- Diagnosis item config: configure video diagnosis item.

Flow of video diagnosis is shown in Figure 8- 25.

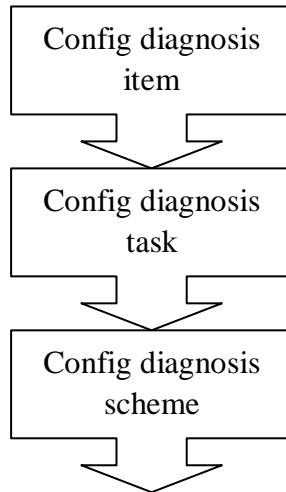



Figure 8- 25

8.5.1 Diagnosis Item

To configure video diagnosis item:

Step 1. Select Video Diagnosis>Diagnosis Item Config.

Step 2. Click . System pops up Add Diagnosis Item Config box.

Step 3. Set name, and select diagnosis item. See Figure 8- 26.

The screenshot shows the 'Add Diagnosis Item Config' dialog box. It has a title bar with a close button. The main area is divided into sections:

- Base Config:** Contains a 'Name:' text box with a red asterisk and a 'Memo:' text area.
- Apply All Diagnosis Items:** A checked checkbox.
- Legend:** Three colored squares representing 'Normal' (green), 'Warning' (yellow), and 'Abnormal' (red).
- Diagnosis Items:** A list of items, each with a checked checkbox and a slider:
 - Video Loss
 - H.Brightness: Slider from 0 to 100, with green, yellow, and red segments.
 - L.Brightness: Slider from 0 to 100, with green, yellow, and red segments.
 - Contrast: Slider from 0 to 100, with green, yellow, and red segments.
 - Definition: Slider from 0 to 100, with green, yellow, and red segments.
 - Color Shift: Slider from 0 to 100, with green, yellow, and red segments.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Figure 8- 26


Step 4. Click OK.

Added diagnosis item is shown in Diagnosis Item Config interface and you can edit and delete added item.

8.5.2 Diagnosis Task

To configure diagnosis task:

Step 1. Select Video Diagnosis>Task Config.

Step 2. Click . System pops up Add Task Config box, see Figure 8- 27.

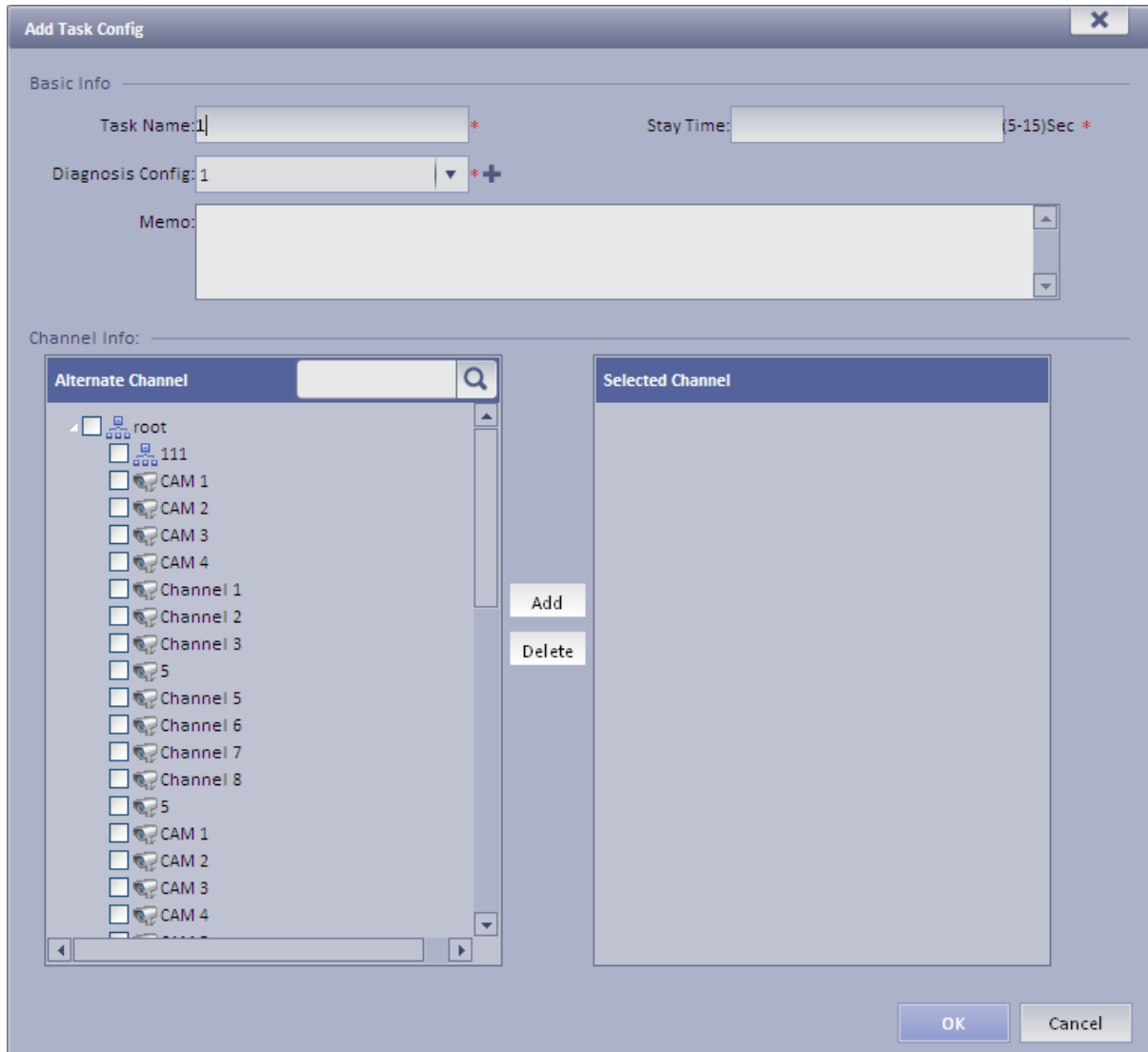


Figure 8- 27

Parameter	Note
Task Name	Current task's name.
Stay Time	Time consumed to diagnose each channel. Default is 10s.
Diagnosis Item Config	Item to check when diagnosing channel. You can go to Video Diagnosis>Diagnosis Config>Diagnosis Item Config>, and add diagnosis item. Please refer to Ch 8.6.1.

Step 3. According to the chart, config parameter.

Step 4. Check alternate channel, and click Add, to add it into selected channel.

Step 5. Under selected channel, select channel to delete and click delete.

Step 6. Click OK.

Configured task is shown in Task Config interface, and you can vide, edit and delete added task.

8.5.3 Diagnosis Scheme

To configure diagnosis scheme:

Step 1. Select Video Diagnosis>Scheme Config.

Step 2. Click . System pops up Add Scheme Config box.

Step 3. Set scheme name and check Enable.

Step 4. Under Alternate Task, select alternate task and click Add to add it into selected task.

Note:

System supports more than one task.

Step 5. Set task start time, see Figure 8- 28.

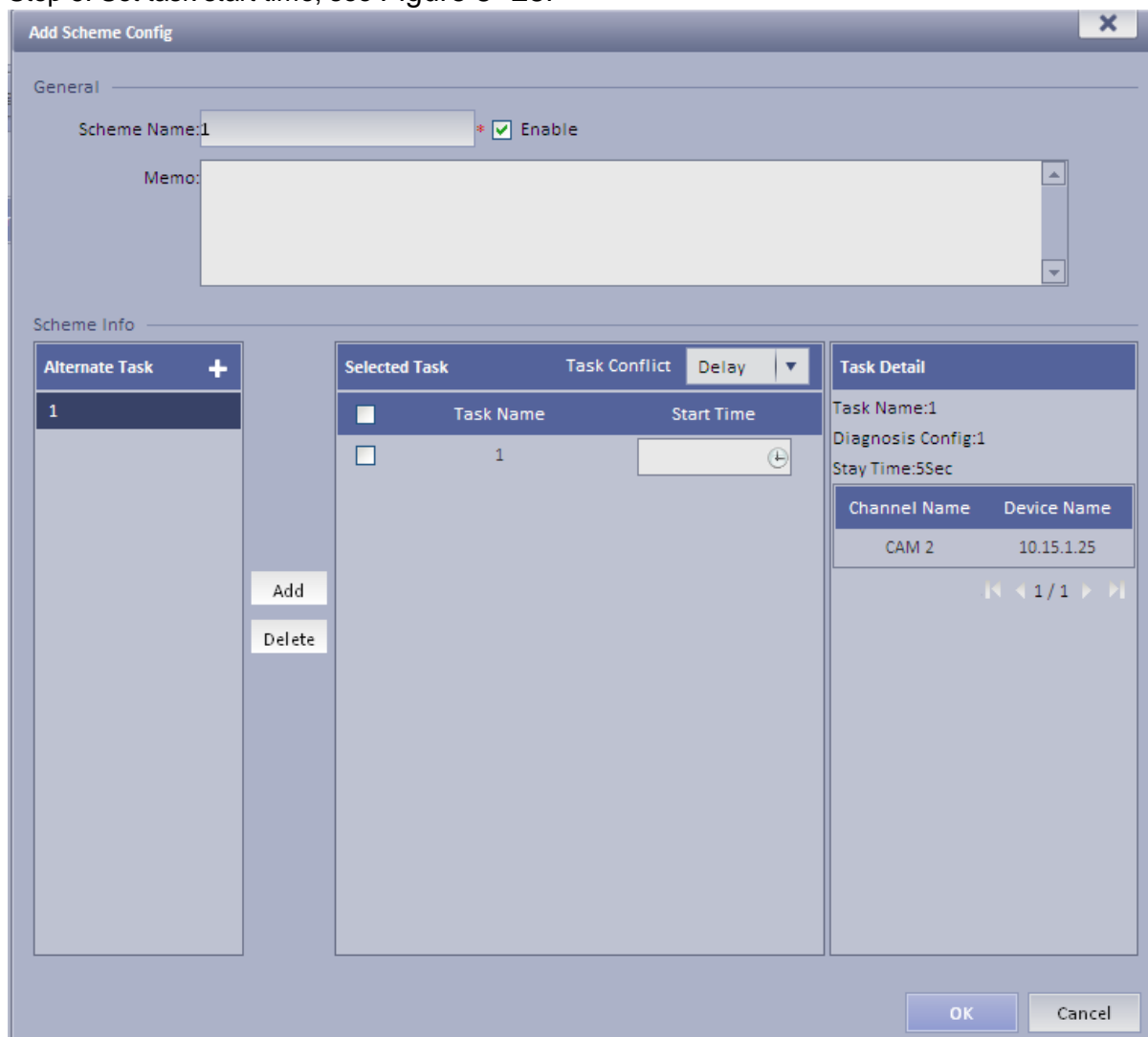


Figure 8- 28

Step 6. Click OK.

Configured scheme is shown in Scheme Config list and you can edit and delete added scheme.

8.6 Set Cascading

DSS Manager supports cascading configuration. You can set Domain, Domain Service of other zones. After cascading, you can manager lower organization and device.

Before configuring cascading, you must obtain the IP address and port where lower-level CMS server is installed, and IP address and port where WEB server is installed.

Step 1. Select Cascade>Domain. System displays Domain interface.


Step 2. Click . System pops up Add Domain box, see Figure 8- 29.

Figure 8- 29

Parameter		Note
Name		Set domain name.
CMS	IP Address	IP address of lower CMS
	Port	Port of lower CMS. Default is 9000.
	Username	Username of lower zone. Via setting this user, upper zone will obtain rights of lower zone user.
	Password	Password of this user.
WEB	IP Address	IP address of lower WEB server.
	Port	Port of lower WEB server. Default is 80.

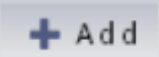
Step 3. Input Name, CMS IP address, CMS port, CMS username, CMS password, WEB IP address, WEB port.

Step 4. Click OK. After configuration, select General>Org. Here you can view added domain or device info. You can select Cascade>Domain Service to view online status of domain.

8.7 Upload

DSS supports uploading file to CMS.

Step 1. Select System>Upload. System displays Upload interface.

Step 2. Click . System pops up Upload File box, see Figure 8- 30.

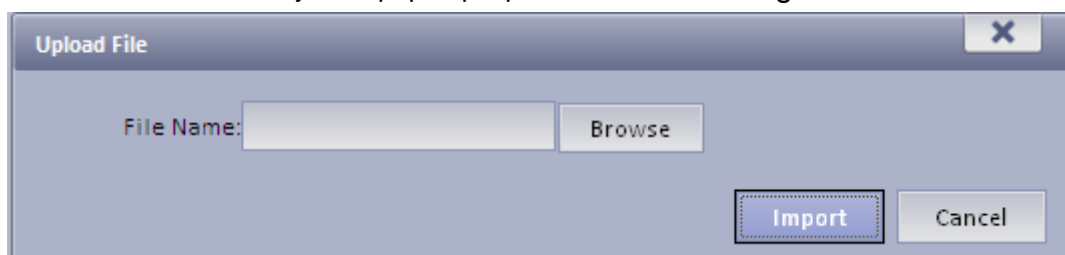


Figure 8- 30

Step 3. Click Browse to select file to upload.

Step 4. Click Import to upload selected file.

8.8 Backup and Restore

DSS supports config info backup to local PC, and restoration of the backup file.

Note:

Only system user can backup and restore.

8.8.1 System Backup

System backup detailed step:

Step 1. Select System>Backup Restore, see Figure 8- 31.

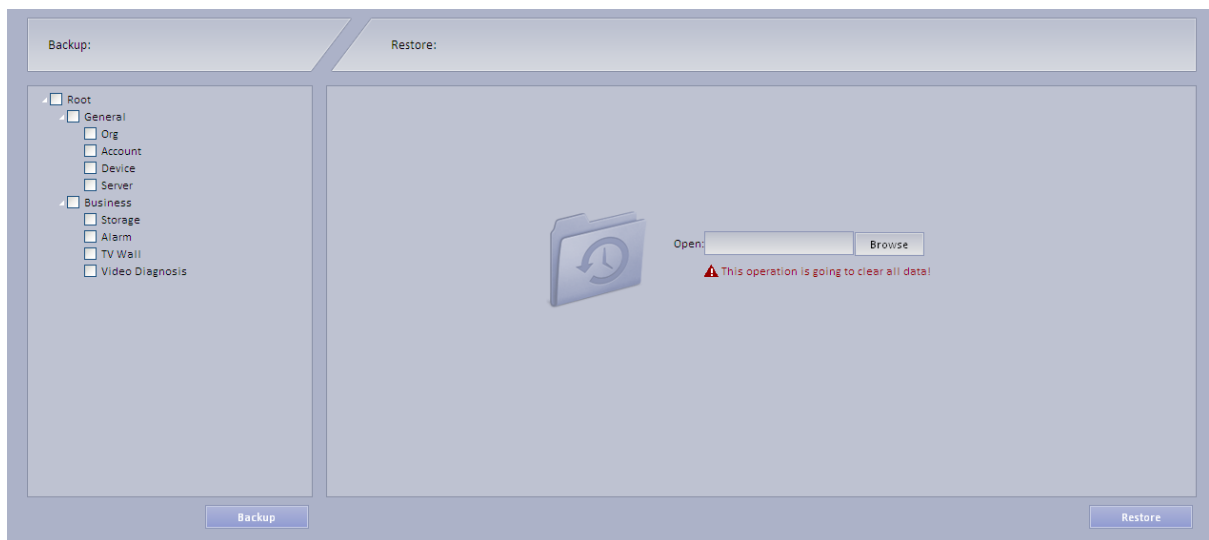


Figure 8- 31

- Step 2. Check info to backup. For example, Org, Account.
- Step 3. Click on Backup.
- Step 4. Click on Save, system pops up Save as box.
- Step 5. Select storage path and click on Save. System prompt when downloading is complete.
- Step 6. Click on Close.

8.8.2 Restore

You can select backup file to restore system.

- Step 1. Select System>Backup Restore.
- Step 2. Click on Browse in Restore area.
- Step 3. Select backup file.
- Step 4. Click on Restore.
- Step 5. Input password user "system".
- Step 6. Click on OK.
- Step 7. System will restore, and system need to be rebooted.

8.9 Resource Re-Config

You can re-configure DSS server resource and parameter.

8.9.1 DSS Server Re-Config

- Step 1. Select System>Resource Re-Config.
- Step 2. Click Server Re-Config.
- Step 3. Drag device on the left into server. See Figure 8- 32.

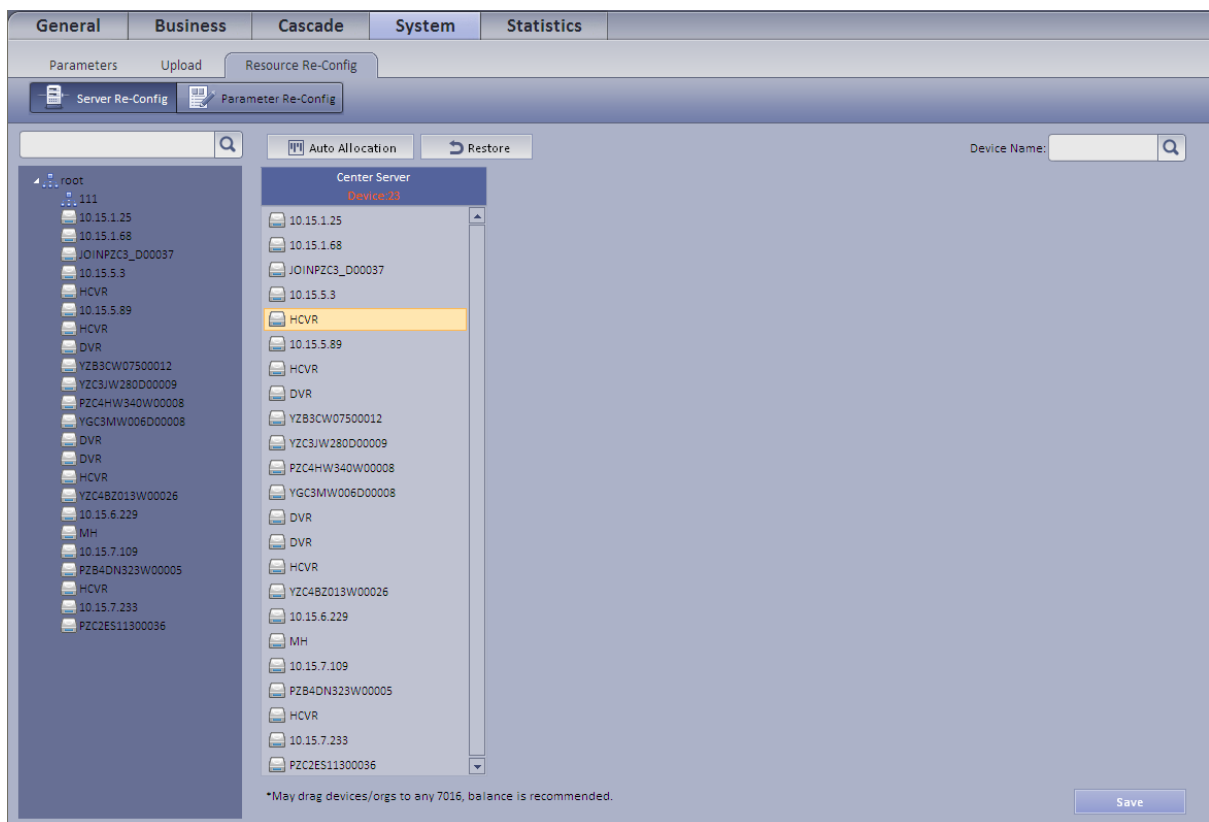





Figure 8- 32

-  **Auto Allocation**: You can select one device, and click Auto Allocation so system will automatically allocate device to one server.
-  **Restore**: You can restore previous operation.
- : Enter device name, click Search to search device.

8.9.2 Parameter Re-Config

You can batch modify username, password and organization.

Step 1. Select System>Resource Re-Config.

Step 2. Click Parameter Re-Config.

Step 3. Check device on the left.

You can select more than one device, checked device will be shown in Device to Batch Edit box.

Step 4. Check Change Username and Password to batch change device username and password.

Step 5. Check Re-Config Org to batch change device's organization.

Step 6. Click Save.

8.10 Statistics

8.10.1 Overview

DSS supports real time count server and device online status. It supports search of server and device alarm history. It supports channel real time diagnosis statistics.

Step 1. Open Statistics>Overview interface. See Figure 8- 33.

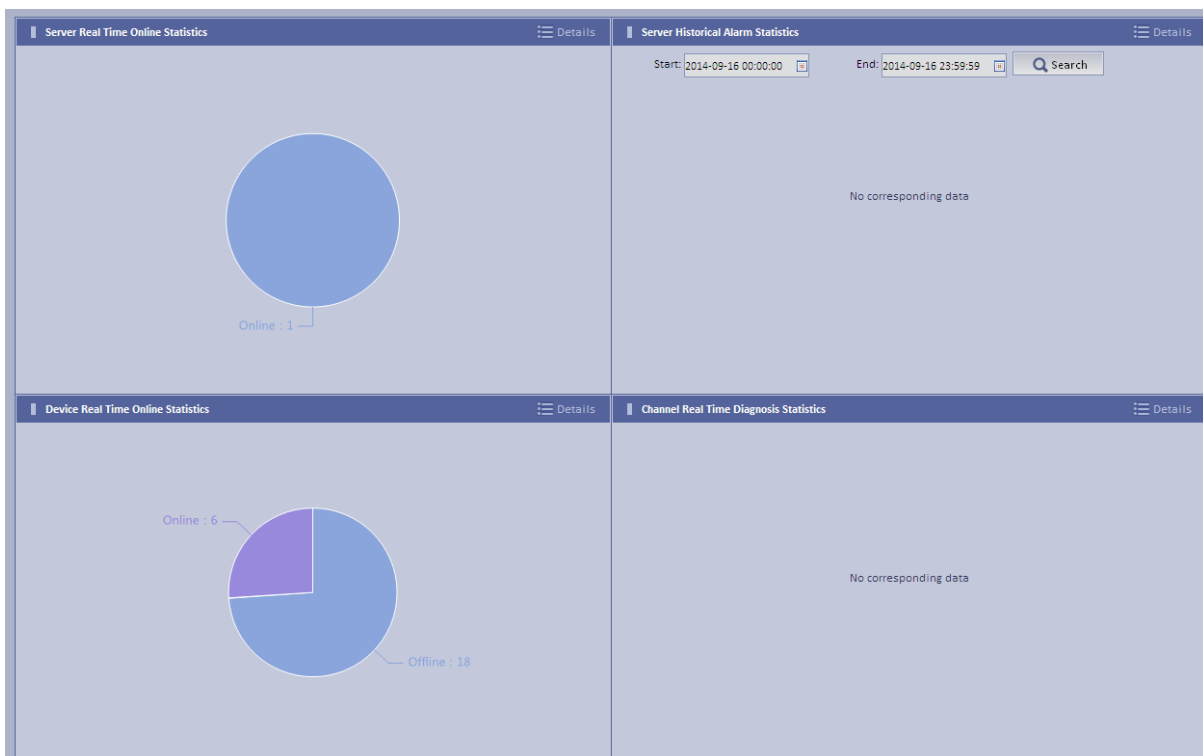


Figure 8- 33

Step 2. Click Details next to Device Real Time Online Statistics or graph below to enter Statistics>Device>Device Online Statistics tab to view device real time online alarm info. See Figure 8- 34.

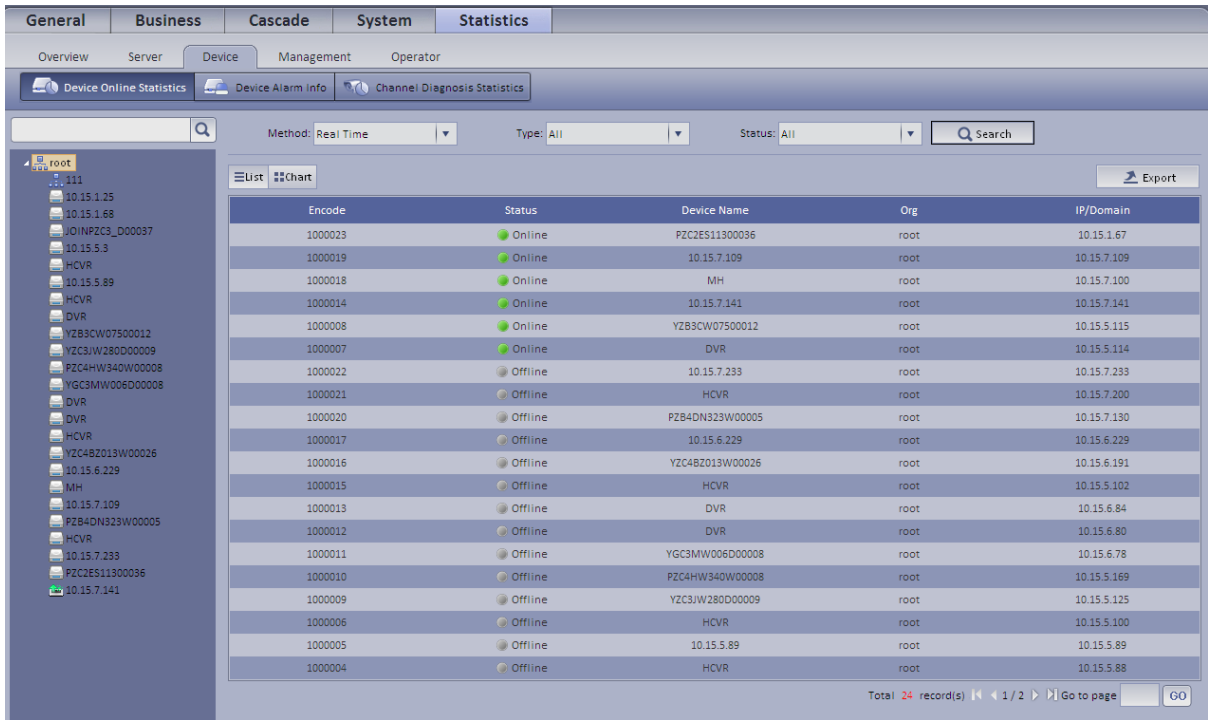


Figure 8- 34

Step 3. Click Statistics Type on the bottom in Overview interface. You will see Figure 8- 35.

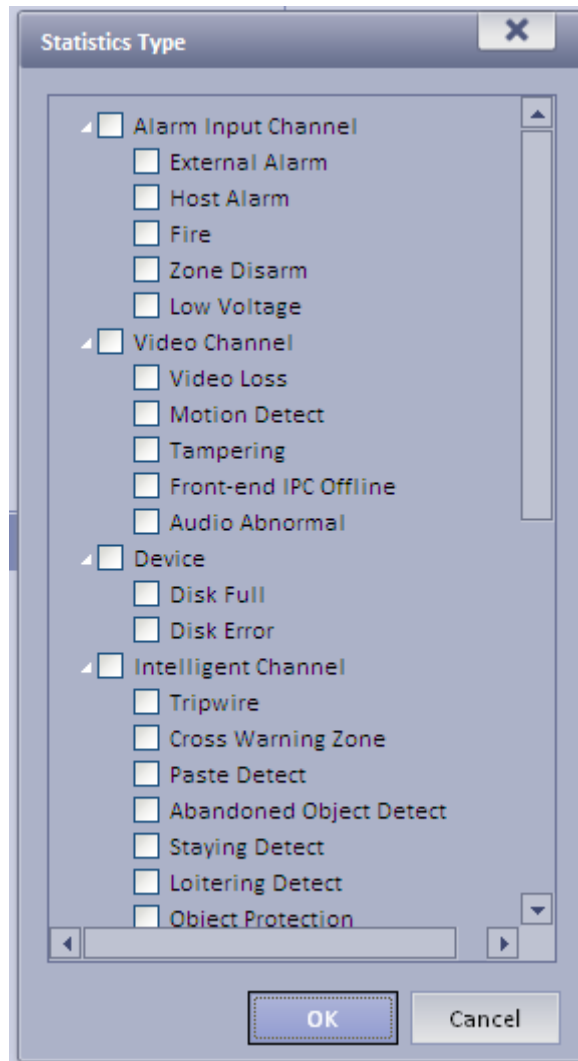


Figure 8- 35

Step 4. Check designated type and click OK.

Step 5. Enter start time and end time. Click Search to search corresponding type info.

8.10.2 Server

DSS supports real time statistics of server online and alarm info.

Step 1. Open Statistics>Server>Server Online Statistics interface.

Step 2. Enter keyword, select online status, click Search to view server online/offline condition.

See Figure 8- 36.

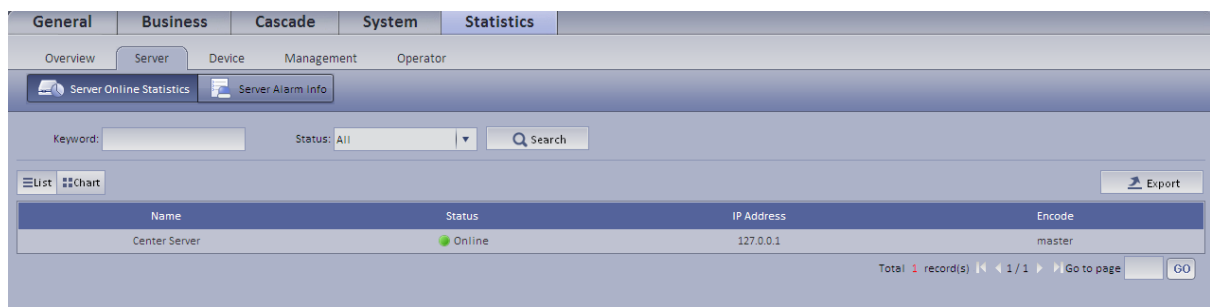


Figure 8- 36

Click Server Alarm Info, select server, type and period to search server alarm statistics.

8.10.3 Device

DSS supports real time device online statistics, device alarm info and channel diagnosis statistics.

- Device online statistics

Step 1. Open Statistics>Device>Device Online Statistics interface.

Step 2. Select Method, Type and Status. Click search to find device online/offline condition. See Figure 8- 37.

Encode	Status	Device Name	Org	IP/Domain
1000023	Online	PZC2ES11300036	root	10.15.1.67
1000019	Online	10.15.7.109	root	10.15.7.109
1000018	Online	MH	root	10.15.7.100
1000014	Online	10.15.7.141	root	10.15.7.141
1000008	Online	YZB3CW07500012	root	10.15.5.115
1000007	Online	DVR	root	10.15.5.114
1000022	Offline	10.15.7.233	root	10.15.7.233
1000021	Offline	HCVR	root	10.15.7.200
1000020	Offline	PZB4DN323W00005	root	10.15.7.130
1000017	Offline	10.15.6.229	root	10.15.6.229
1000016	Offline	YZC4BZ013W00026	root	10.15.6.191
1000015	Offline	HCVR	root	10.15.5.102
1000013	Offline	DVR	root	10.15.6.84
1000012	Offline	DVR	root	10.15.6.80
1000011	Offline	YGC3MW006D00008	root	10.15.6.78
1000010	Offline	PZC4HW340W00008	root	10.15.5.169
1000009	Offline	YZC3JW280D00009	root	10.15.5.125
1000006	Offline	HCVR	root	10.15.5.100
1000005	Offline	10.15.5.89	root	10.15.5.89
1000004	Offline	HCVR	root	10.15.5.88

Figure 8- 37

- Device alarm info

Step 1. Open Statistics>Device>Device Alarm Info interface.

Step 2. Select alarm type, status, process status, period, process period and alarm level. Click Search to view device alarm info. See Figure 8- 38.

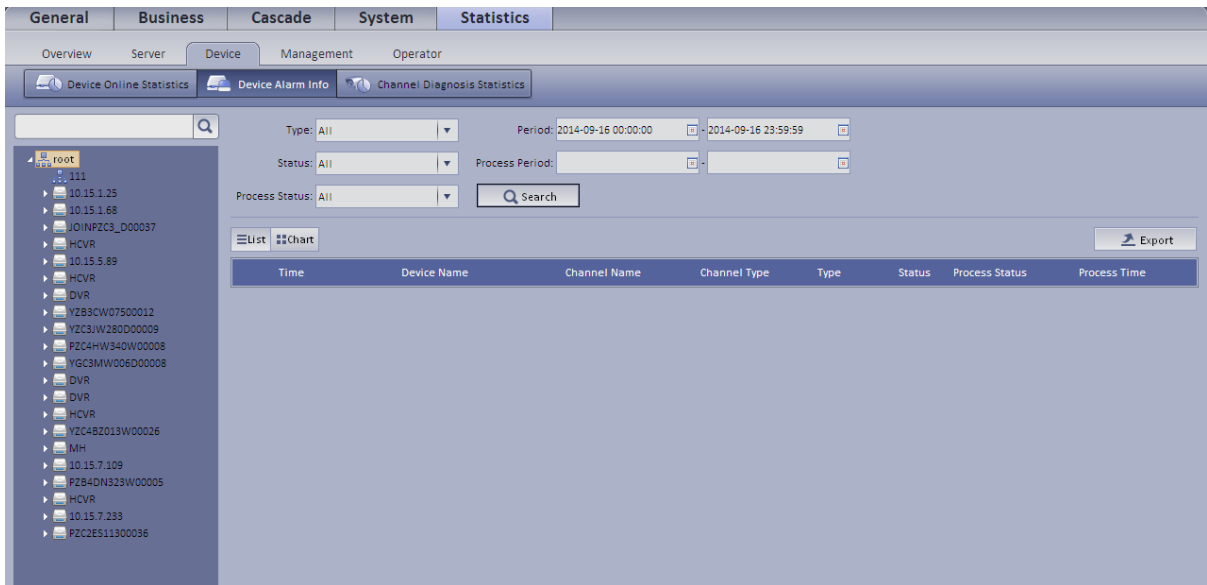


Figure 8- 38

- Channel diagnosis statistics

Step 1. Open Statistics>Device>Channel Diagnosis Statics interface.

Step 2. Select display option, display result, running status and etc. Click Search to view channel diagnosis condition. See Figure 8- 39.

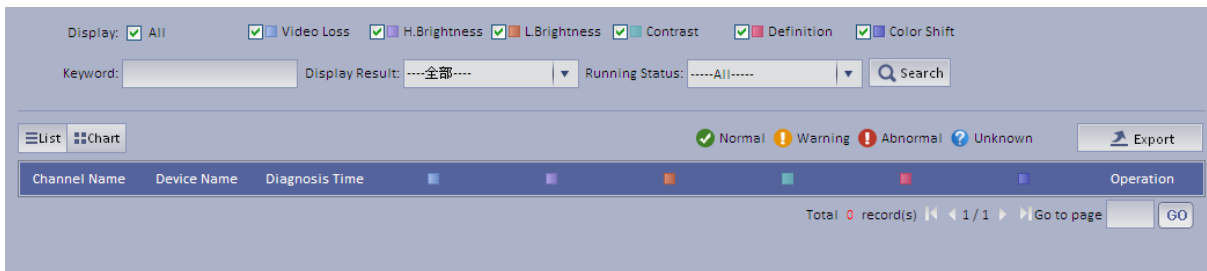



Figure 8- 39

Click  to view channel diagnosis history.

Click  to view channel real time video.

Click  to playback video of the channel.

Note:

You must add record plan before record playback. Please refer to Ch 8.1.

8.10.4 Management

DSS supports user to search and count operation on each module within certain period.

Step 1. Open Statistics>Management interface.

Step 2. Select Module, User, Period and Operation, click on Search to view module operation.

See Figure 8- 40.

Time	Operator	Operation Details
2014-09-16 15:04:25	123	Login
2014-09-16 12:59:45	123	Login
2014-09-16 12:57:18	123	Login
2014-09-16 12:56:57	123	Login
2014-09-16 12:30:42	123	Login
2014-09-16 12:10:49	123	Login
2014-09-16 10:46:44	123	Add Scheme Config:1
2014-09-16 10:32:17	123	Add Task Config:1
2014-09-16 10:15:08	123	Add Diagnosis Config:1
2014-09-16 09:55:28	123	Login

Figure 8- 40

8.10.5 Operator

DSS supports user to search and count device operation within certain period.

Step 1. Open Statistics>Operator interface.

Step 2. Select User, Period and Operation. Click Search. See Figure 8- 41.

Time	Operator	IP Address	Device Name	Channel Name	Operation	Operation Details
2014-09-11 17:58:57	123	10.18.116.161			Exit	IP: 10.18.116.161
2014-09-11 17:56:29	123	10.18.116.161			Login	IP: 10.18.116.161
2014-09-11 17:54:06	123	10.18.116.161			Exit	IP: 10.18.116.161
2014-09-11 17:53:22	123	10.18.116.161			Login	IP: 10.18.116.161
2014-09-11 17:53:12	system	10.18.116.161			Exit	IP: 10.18.116.161
2014-09-11 17:49:06	system	10.18.116.161			Login	IP: 10.18.116.161
2014-09-11 17:48:47	system	10.18.116.161			Exit	IP: 10.18.116.161
2014-09-11 17:47:09	system	10.18.116.161			Login	IP: 10.18.116.161
2014-09-11 17:46:54	system	10.18.116.161			Exit	IP: 10.18.116.161
2014-09-11 17:45:28	system	10.18.116.161			Login	IP: 10.18.116.161

Figure 8- 41

9 Advanced Function

9.1 Hot Spare

Dual hot spare is usually applied to central platform, not as record storage. When one device is out of order, the other can be a replacement.

Step 1. In Internet Explorer, input IP address and press Enter. See Figure 9- 1.

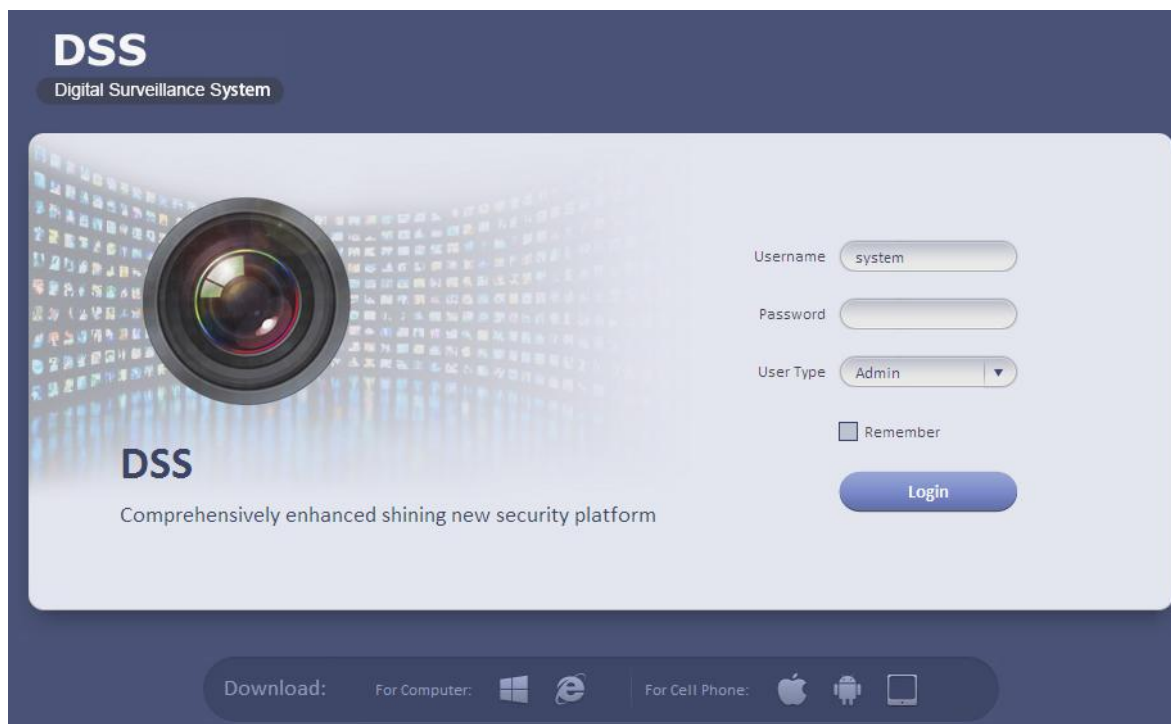


Figure 9- 1

Step 2. Select user type as admin. Enter username and password. Click Login.

Note:

System default username is **system** and password is **123456**.

Step 3. Select system>parameter. Set WEB LAN IP address as VIP address. Click Submit. See Figure 9- 2.

Note:

- VIP, as Virtual IP.
- VIP must be a never used IP in operation network. After configuration is complete, two DSS7016s' IP address only need to log in VIP.

General	Business	Cascade	System	Statistics
Parameters Upload Backup Restore Resource Re-Config				
CMS	IP Address: 171.0.0.1 *		LAN Port: 8000 *	WAN Port:
WEB Server	LAN IP: 10.15.6.98 *		LAN Port: 80 *	WAN IP: WAN Port:
Log	Max Save Time: 30 Day(s) *			
Alarm Info	Max Save Time: 30 Day(s) *			
Sync Setup	Enable: <input checked="" type="checkbox"/>	Start Time: 02:00:00 *	Sync Interval: 2 Hour(s) *	Sync Time
Alarm Picture FTP Server	LAN Path: ftp://10.15.6.98/alarm/ *		Username: dss *	Password: ●●● *
Org/Channel SN	Enable: <input type="checkbox"/>			
Multicast	Enable: <input type="checkbox"/>			

Figure 9- 2

Step 4. Sync time. Click sync.

Note:

Before configuring two devices for dual hot spare, you must use NTP to sync time.

Step 5. Login system config interface. Please refer to Ch 2.2. Step 1~3 in Initialization User's Manual.

Step 6. Select Quick Guide tab, check dual hot spare. See Figure 9- 3.

Note:

Check if hot spare or not, to add dual hot spare config item.

Current status is Master

Server Config	First Step: Master-Slave Setup	Second Step: Segment Setup	Third Step: Dual Hot Spare Config
Segment Setup	Please select		
Storage Config	<input checked="" type="checkbox"/> Master <input type="checkbox"/> Slave		
Link Config	<input checked="" type="checkbox"/> Hot Spare or not <small>Check to add dual hot spare config item(Config dual hot spare only need one device, no need of another device), configured dual hot spare is unchecked to cancel dual hot spare.</small>		
Map Config	Next		

Figure 9- 3

Step 7. Click Next.



System shows segment setup. See Figure 9- 4.


Current status is Master

Server Config	First Step: Master-Slave Setup	Second Step: Segment Setup	Third Step: Dual Hot Spare Config
Segment Setup	Select Type: <input type="text" value="Extension Address"/> +		
Storage Config	IP Address: <input type="text" value="171.34.0.133"/> ↓		
Link Config	Extension Address: <input type="text" value="171.34.0.4"/> ↑		
Map Config	Previous Next		

Figure 9- 4

Step 8. Configure parameter and set segment. See Figure 9- 5.

Click  or  to increase/decrease parameter.

Click  or  to adjust parameter location.

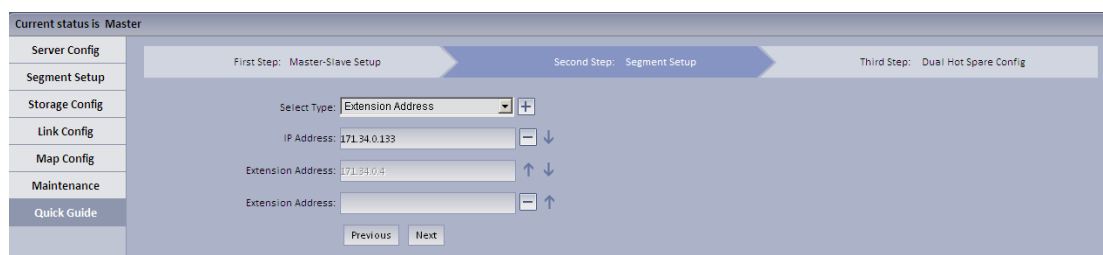


Figure 9- 5

Step 9. Click Next.

System shows dual hot spare interface. See Figure 9- 6.

Note:

Please refer to help document for platform hot spare.

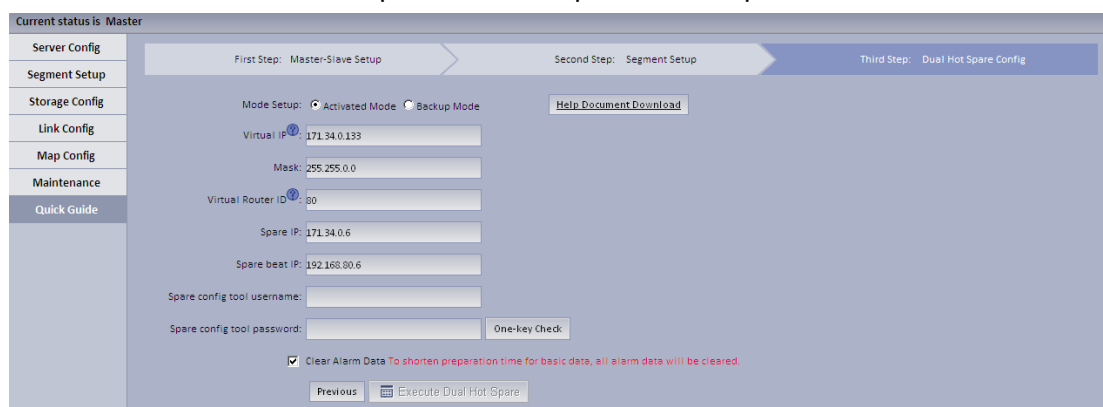


Figure 9- 6

Step 10. To configure dual hot spare, click check to check parameter.

Step 11. After parameters are checked, click run dual hot spare.

If dual hot spare needs to deploy link SMS and link email, you shall login the two devices' system config and configure them separately. (Please refer to Ch 2.2 Step 9 in Initialization User's Manual), and deploy dual hot spare.

9.2 N+M Backup

N_M backup is generally designed for distributed device. It can be manually switched and video loss time is usually 5 minutes. When one device among N devices is out of order, one device among M devices will replace it.

Enter master server IP address, and set device into distributed.

Step 1. Click slave mode.

System shows master/slave mode setup interface. See Figure 9- 7.



Figure 9- 7

Step 2. Enter master server IP and click Next.

System shows type setup interface, see Figure 9- 8.

Note:

Enter master server IP, so when switch from slave mode to master mode, device still properly works.



Figure 9- 8

Step 3. Select type and click Application.

Step 4. Log in DSS manager-end. Please refer to Ch 2.3 Step 1~2 in Initialization User's Manual.

Step 5. Select general>server >video server.

See Figure 9- 9.

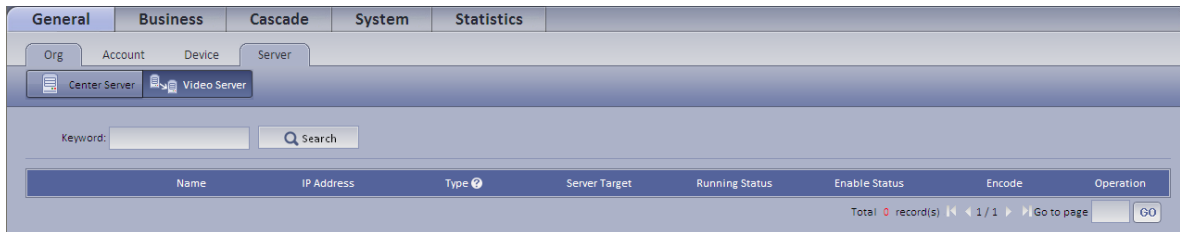


Figure 9- 9

Step 6. Click . System pops up edit distributed unit interface, see Figure 9- 10.

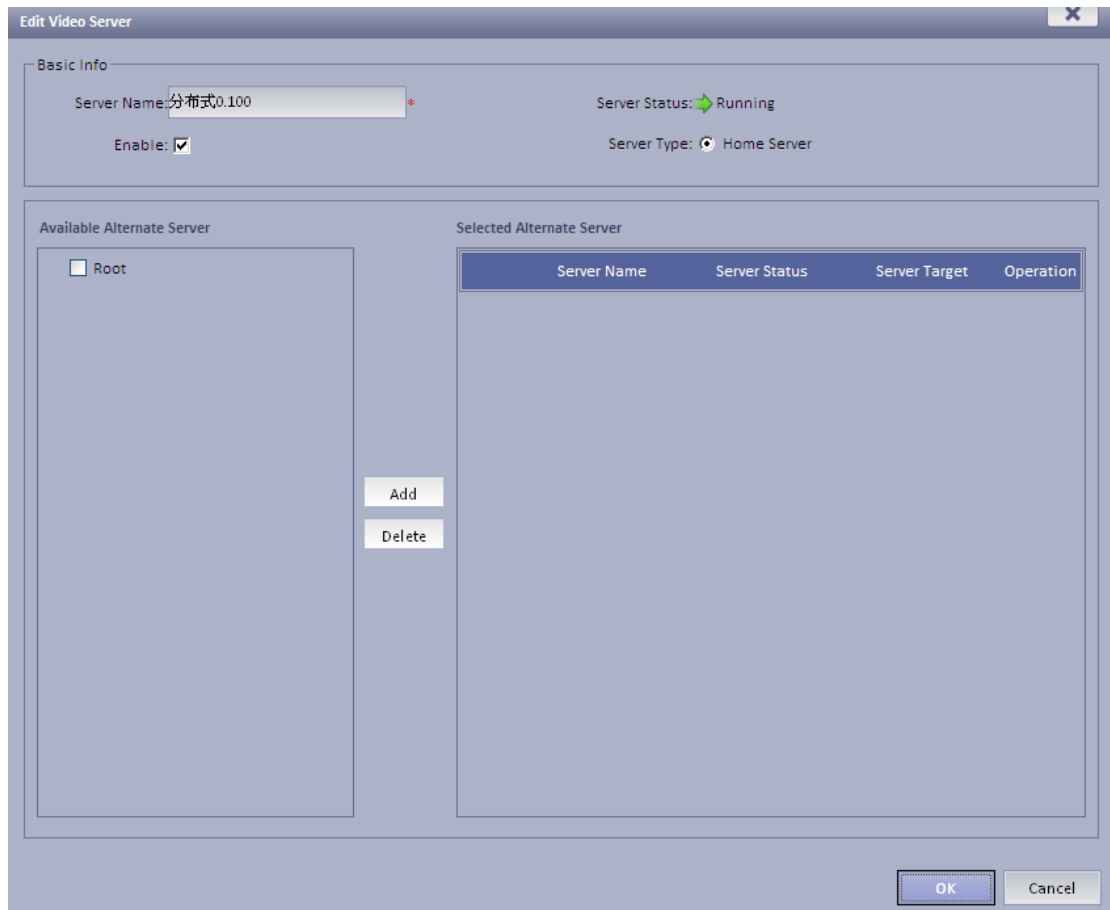


Figure 9- 10

Step 7. Check Enable and select *home server* to enable designated servers. Select *available alternate server*. Click Add and you can view the selected alternate servers on the right.

Click OK.

Repeat Ch 2.4 Step 1~7 in Initialization User's Manual to complete N+M backup.

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.
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