Synology®

Surveillance Station User's Guide

Based on version 8.2

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Get Started with Surveillance Station

Surveillance Station is a professional Network Video Recording (NVR) package. You can use Surveillance Station along with existing surveillance equipment to gain situational awareness, allowing you to make informed decisions to efficiently safeguard your home and office environment.

Assuming that you have completed the hardware setup and installation of your Synology DiskStation Manager (DSM) or Network Video Recorder (NVR), this chapter will navigate you through the Surveillance Station desktop.

Surveillance Station Desktop

After making sure Surveillance Station 8.2 (or above) has been successifully installed on your Synology NAS/NVR, go to **Main Menu > Surveillance Station** to launch Surveillance Station.



Desktop

Once Surveillance Station is launched, you will see the desktop. This is where your applications and package windows are displayed. You can also create shortcuts to frequently used applications.



Chapter

Taskbar

The taskbar is located at the top of the screen and includes the following items:



- 1 Show desktop: Minimize all open application windows.
- 2 Main Menu: View and open applications in Surveillance Station. You can also drag and drop icons to create desktop shortcuts.
- **3 Open applications**: Open applications are displayed here. You can right-click and pin applications to the taskbar for convenient access in the future.
- 4 Security Lock: Lock/unlock the CMS pairing status. This will appear only when Surveillance Station is set up as a Recording Server.
- 5 Joystick: Configure the hotkey pairing of a connected joystick. This will appear only when joystick support is enabled in Add-ons > Joystick.
- 6 Notifications: Notifications, e.g., camera disconnected and other status updates can be viewed here.
- 7 Options: Log out (when logged in using Application Portal) or customize personal account options.
- 8 Search: Quickly find specific applications and Surveillance Station Help articles here.

Deploy IP Cameras

In Surveillance Station, you can easily configure and organize your IP cameras to enhance management. This chapter explains how to add/delete IP cameras, navigates you through IP camera features including device settings, recording schedules, event detection, and introduces major camera-grouping functions.

Install IP Cameras

Add a Synology Supported IP Camera to Surveillance Station

Surveillance Station provides strong device compatibility and supports over 6000 IP cameras. Before installing a camera, please refer to the IP camera Support List to check if your device is supported. If not, you can try to Add an IP Camera Which Is Not on the Support List or Add a User-Defined IP Camera.

- 1 Power on an IP camera which has been connected to the same local area network as your Synology device.
- 2 Go to Surveillance Station Main Menu > IP Camera.

11						Q Sear	ch
Recording	finne 💽						
?	IP Camera	Notification	Action Rule	User	E-Map	Snapshot	7
Help	P		?		1 92 -		
	License	Log	Help	Live View	Timeline	Smart Search	
		Ð		\bigcirc			
IP Camera	Recording	Audio Pattern	Client Management	Home Mode	Application Center	System	
	Transactions	I/O module					

- 3 Click Add > Add Camera to launch Add Camera Wizard.
- 4 For quicker and simpler configuration, select Quick Setup and click Next.
- 5 Click the Search icon to search for all the IP cameras correctly connected to your local area network.

	Add Camera Wizard	1	×
Information			
Name:			
P address:	٩		
Port:	80		
Brand:	[ONVIF]		
Camera model:	[Generic_ONVIF]		
Username:			
Password:			
	Load Capability	Test Connection	
Denvirus		Finish Ca	ncel
Previous			

Chapter

6 From Camera Search Result > Synology Supported Cameras, select the IP camera you wish to add to Surveillance Station, and click OK.

	Cam	iera search result			×
Synology Supported Camer	General Interface (O	NVIF)		Q Search	
Brand	Model	IP Address	Port	MAC Address	
AXIS	P1346	10.17.28.48	80	00:40:8C:C5:13:C0	
D-Link	DCS-5010L	10.17.28.170	80	28:10:7B:0A:27:08	
Searching				h OK Canc	el

7 Click Test Connection to check if your IP camera has been correctly configured. Click Finish to complete the installation.

	Add C	amera Wizard	>
Information			
Name:	D-Link - DCS-5010L		2
IP address:	10.17.28.170	ρ	
Port:	80		6 220
Brand:	D-Link		
Camera model:	DCS-5010L		
Video format:	MJPEG		
Username:	admin		
Password:	•••••	Test Connection	
		_	-
Previous		Finish	Cancel

You can now operate various network video recording features of Surveillance Station with your IP camera. To configure further settings for your IP cameras, please refer to corresponding articles under Surveillance Station Help.

Note: By default, a Synology NAS comes with two free licenses, and depending on the actual mode, an NVR comes with multiple pre-installed licenses.

Add a User-Defined IP Camera

The **User Define** function provides the best device compatibility. You can try connecting different types of network video streaming devices to Surveillance Station.

- 1 Follow steps 1 to 5 of Add a Synology Supported IP Camera to Surveillance Station.
- 2 Select [User Define] from the Brand drop-down menu.

	Add Ca	mera Wizard	
Information	ı		
Name:			
IP address:		Q	
Port:	80		
Brand:	[ONVIF]	-	
Camera model:	[ONVIF]		
Username:	[User Define]		
Password:	3S		
	A-LINKING		Test Connection
	A-MTK		lest connection
	ABUS		
	ACTi		
	Acumen		
	Afidus		
	AIPHONE		
	Airlive		
	Alphafinity		

3 Enter a Name, select a file transfer Type, and set the Path in the format of [Username[:Password]@]IP:port/video_path. If you have any concerns, please contact your camera manufacturer.

	Add C	amera Wiza	rd	×
Informat	tion			
Name:	User Define			
Brand:	[User Define]	-		
Type:	Streaming - RTSP	-		
Path:	rtsp:// admin:123456@10.	13.22.38		
			Test Connection	
*Please enter th	ne path format as follows: rtsp://[use	ername[:passv	vord]@]IP:port/video_path	
Previous			Finish Cancel]

4 Click Test Connection to check if your IP camera has been correctly configured. Click Finish to complete the installation.

Add an IP Camera Which Is Not on the Support List

Besides the supported models, Synology has also secured a membership with ONVIF and supports all ONVIF protocol cameras. This allows camera functions and settings to be automatically loaded even if the camera is not listed on the Support list.

- 1 Follow steps 1 to 5 of Add a Synology Supported IP Camera to Surveillance Station.
- 2 Do either of the following:
- a In Camera Search Result > General Interface (ONVIF), select the IP camera you wish to add and click OK.

	Came	ra search result		
Synology Supporte	ed Cameras General Interfa	ce (ONVIF)	Y	O Search
Brand	Model	IP Address	Port	MAC Address
ONVIF	MOVE_VD1A-4-IR	10.17.48.103	80	00:03:C5:C0:03:DF
ONVIF	FLEXIDOME_IP_starligh	10.17.52.11	80	00:07:5F:95:C0:9F
ONVIF	DS-2CD3T45-I5	10.17.52.113	80	BC:AD:28:60:06:A0
ONVIF	P1428-E	10.17.52.119	80	AC:CC:8E:5A:5F:27
ONVIF	O4FD5M	10.17.52.124	80	5C:F2:07:30:2E:D0
ONVIF	IP3M-HX2B	10.17.52.139	80	9C:8E:CD:0A:8B:2B
ONVIF	IP4M-1028B	10.17.52.140	80	9C:8E:CD:0D:F5:2D
ONVIF	A8004-VE	10.17.52.145	80	AC:CC:8E:30:4F:64
ONVIF	SD8362	10.17.52.151	80	00:02:D1:23:40:26
ONVIF	FI9816P	10.17.52.154	888	00:62:6E:65:D8:A2
ONVIF	DS-2CD8254F-EI	10.17.52.165	80	00:40:48:AD:7C:7A
ONVIF	P1428-E	10.17.52.167	80	AC:CC:8E:5A:2B:73
ONVIF	GV-FER5700	10.17.52.170	80	00:13:E2:FF:1F:BE
ONVIF	IP8331	10.17.52.174	80	00:02:D1:18:0E:99

b Select [ONVIF] or your camera's brand name from the Brand drop-down menu, then select All functions or Streaming only from the Camera mode drop-down menu.

	Add Camera W	izard	×
Information			
Name:	ONVIF_1		
IP address:	10.17.28.106		
Port:	80		
Brand:	[ONVIF]		
Camera model:	All functions		
Username:			
Password:			
	Load Capability	Test Connection	
Previous		Finish Cancel	

- 3 Enter a Username and Password.
- 4 Click Load Capability. A green check will appear if your device is successfully connected. Depending on your camera model, more settings may be needed.

	Add Camera Wiz	xard X
Information	ı	
Name:	ONVIF_1	
IP address:	10.17.28.106	
Port:	8080	
Brand:	[ONVIF]	
Camera model:	All functions 🔹	
Video format:	H.264 💌	
Username:	admin	
Password:	•••••	Test Connection
	Load Capability	
Previous		Finish Cancel

5 Click Test Connection to check if your IP camera has been correctly configured. Click Finish to complete the installation.

Delete IP Cameras

To remove an IP camera from Surveillance Station, simply find your target cameras in the **IP Camera** application and click **Delete**. You will be asked to decide whether to keep or remove previous recordings.

Note:

- 1. The settings of deleted cameras will also be erased.
- 2. Press and hold the Shift or Ctrl key for multiple selection.

Disable IP Cameras

If you wish to temporarily end the connection with certain cameras, select the cameras in **IP Camera**, then click **Enable** > **Disable**. Click **Enable** > **Enable** to resume the services.

Utilize Camera Features

After setting up your IP camera, you can continue to fine-tune settings to best suit the recording environment. Please go to IP **Camera**, select your target camera, and click **Edit** > **Edit** for detailed configuration.

Device Settings

Under Device Settings, the Information tab provides options to check and modify general camera information.

		Edit Camera - Camera_1	? E X
Device Settings	Information	/ideo Advanced	
 Recording Settings Live View Settings Optimization Event Detection I/O Port 	Name: IP address: Port: Brand: Camera model: Username: Password:	Camera_1 10.17.28.43 80 [ONVIF] [Generic_ONVIF] admin Load Capability	Contraction Contraction
			Save

The Video tab allows for recording format adjustment and Stream Profile setup.

	? 🗖 X					
Z Device Settings	Information Video Adva	nced				
"	∧ General					
Recording Settings	Video format:	H.264	-			
Live View Settings	Audio format:	G711	•			
Coptimization						
	High quality:	Stream 1	•			
Event Detection	Balanced:	Stream 1	- ()			
I/O Port	Low bandwidth:	Stream 1	~ ()			
	 Stream 1 					
	Resolution:	640x480	•			
	Frame rate (FPS):	10	•			
	Bitrate control:	Variable	•			
	Image quality:	5 (Highest)	•			
			Save Close			

In the Advanced tab, you can modify audio and video transport protocol settings.

	Edit Camera - Camera_1		×
Device Settings	Information Video Advanced		
Recording Settings Live View Settings V: Optimization	Audio Setting You may use a speaker as the audio output of the camera. If the speaker you have set up is disabled, the aud output will be restored to the camera itself. Use a speaker as the audio output of the camera Speaker:	io	
4 Event Detection	∧ RTSP & RTP Setting		
I/O Port	Transport protocol: TCP Keep-Alive method: OPTIONS (Default)		
	Save	lose	

Recording Settings

Under **Recording Settings**, you can edit recording times, modify recording file lengths, as well as change the file and folder names.

From the **Recording** tab, recording and archive settings can be modified.

- Pre-recording time/Post-recording time (sec.): Set how much time the recording will extend backwards/forwards for more footage.
- Keep the files within (days): Specify a period of time you wish to retain the recordings. Any recordings that were saved earlier than the specified time range will be deleted automatically.
- Limit the archive folder up to (GB): Specify the maximum size limit of the storage space to archive recordings. The oldest recordings will be overwritten by new ones when the specified maximum size limit is reached.
- Click Estimate Required Space to get the estimated storage space that the camera may need for continuous recording with its current settings.

	Edit Camera - Camera_1	? E X
Device Settings	Recording Schedule Stream Advan	nced
🖄 Recording Settings	Recording Pre-recording time (sec.):	5 🔻 🚺
Live View Settings	Post-recording time (sec.):	5 🔻
/- Optimization	 Limit the archive folder up to (GB) 	10
4 Event Detection	Estimate Required Space	
💡 I/O Port	Recording Archives Customize archive folder name	Same as the camera's name
	Customize file name prefix	Same as the camera's name
	Recording storage:	surveillance (Volume 1)
	Recordings are located in /volume1/surveillance	
		Save Close

The **Schedule** tab allows you to apply different recording modes to different hours. To set a schedule, first select a function, then either drag your mouse across the timetable or click individual grid cells to apply changes. Every grid cell represents half an hour.

	Edit Camera - Camera_1	7 🗖 🗙
Device Settings	Recording Schedule Stream Advanced	
Interpretation in the second section of the second	Continuous Motion Detection	
Live View Settings	<u>4</u> 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
*//· Optimization	Mon	
4 Event Detection	Wed	
🗣 I/O Port	Fri	
	*Please note that you can use <u>Smart Time Lapse</u> to generate a space-saving video summary. *Please note that the recording schedule will be affected by Manual Recording and <u>Home Mode</u> .	Close

In the **Stream** tab, individual stream settings can be applied to each recording type according to your needs. The **Advanced Continuous Recording** feature allows you to set a lower resolution when saving regular recordings, and switch to a higher resolution when events occur. You can thus enjoy a more efficient use of storage space while significantly saving storage costs.

	Edit Camera	a - Camera_1	7 🗖 X
🛒 Device Settings	Recording Schedule Stre	am Advanced	
Pecording Settings	∧ Schedule Recording Setting	IS	
M Recording Sectings	Continuous:	Balanced 👻	
Live View Settings	Motion Detection:	Balanced 👻	
	Customize 1:	Balanced 👻	
* Optimization	Customize 2:	Balanced 👻	
Æ Event Detection	∧ Advanced Continuous Reco	rding Settings	
I/O Port	 Do not change the stream profile 	dynamically	
v '	O Event detection:	All Detections	
	Switch profile:	Balanced 👻	
	Minimum duration (sec.):	10 👻	
			Save Close

From the **Advanced** tab, you can disable recording and rotation, mute or truncate videos at set times, determine what action to take when storage space runs out, as well as apply a stream setting to a recording type.

- When **Disable recording and rotation** is ticked, the following settings will be applied:
 - Recording schedule, manual recording, edge recording, and related recoding events in Action Rule will be disabled.
 - Live View: Alert settings can still be configured, with live view analytics operating normally. Alert recording can still be triggered as well.
 - Action Rule: When a rule with the action "Start recording" is triggered, the recording will not start.
- To configure archive rotation settings, select either of the following:
 - **remove old archives**: The oldest recordings will be deleted to make space for newly saved recordings once the space or time limit is reached.
 - stop recording: Surveillance Station will automatically stop recording once the space or time limit is reached.

	Edit Camera -	Camera_1	7 🗖 X
Device Settings	Recording Schedule Strea	m Advanced	
Interpretation in the second setting is a second setting s	Recording Disable recording and rotation ()		
Live View Settings	Mute audio recording		
℃ Optimization	Truncate video every (minutes): When space or time limit is reached:	30 ▼ remove old archives ▼	
✓ Event Detection	∧ Other Recording Settings		
💡 I/O Port	Live View Alert Clip:	Balanced 👻	
	Action Rule Recording:	Balanced 💌	
	Manual Recording:	Balanced 💌	
			Save Close

Live View Settings

Live View Settings allows you to configure stream settings for Live View and Mobile.

Under Dynamic Stream Settings, you can set up dynamic stream profile adjustment according to your needs.

- Tick Do not change the stream profile dynamically if you do not require the stream profile to automatically adjust.
- Tick Automatically adjust stream profile according to display size for Surveillance Station to automatically switch
 among high quality, balanced, and low bandwidth stream setting according to the display size of the live view feed and the
 stream resolution settings.
- For best customization, select one or more conditions from the **Event Detection** drop-down list and set your ideal **Switch Profile** and **Minimum duration (sec.)**.

	Edit Cam	era - Camera_1		7		×
T Device Settings	Stream Advanced					
	 Stream Settings 					
Recording Settings	Live view:	Balanced	-			
□ Live View Settings	Mobile:	Balanced	~			
* <i>P</i> .* Optimization	A Dynamic Stream Setting	S				
<i>•</i>	Do not change the stream prof	île dynamically				
4 Event Detection	Automatically adjust stream pr	ofile according to display size				
I/O Port	Event detection:	All Detections	-			
÷ ,	Switch profile:	Balanced	*			
	Minimum duration (sec.):	10	-	0		
				Save	Close	

In the Advanced tab, the Video Source of Live View can be adjusted.

		Edit Camera - Camera_1		7 🗖 X
T' Device Settings	Stream Advanc	ed		
almia -	∧ Video Source			
Recording Settings	Live view:	From Surveillance Station	- 0	
Live View Settings	Mobile:	From camera	• ()	
*/- Optimization				
4 Event Detection				
y Evene Decetion				
💡 I/O Port				
			I	Save Close

Optimization

From **Optimization** > **General**, various settings including **Time Synchronization**, **Exposure Mode**, and **On-Screen Display** can be adjusted to accommodate your environment.

	Edit Ca	amera - Camera_1		P 🗖 🗙
Device Settings				
	 Time Synchronization 			
Recording Settings	Network time server		-	
Live View Settings	∧ On-Screen Display			
🕼 Optimization	Overlay		~	
	Format		T	
Æ Event Detection	Position		-	
I/O Port	∧ Exposure Mode			
	Exposure control		-	
	Day/Night mode		-	
				Save Close

The **Advanced** tab provides **Video Orientation** settings where recording images can be set according to your preferences. If your camera requires a regular reboot to maintain best performance, tick **Set force restart schedule** to make arrangements.

	Edit Came	ra - Camera_1	? 🗉 🗙
Device Settings	General Advanced		
alah	 Video Orientation 		
Recording Settings	Mirror		
Live View Settings	Flip		
*#: Ontimization	Rotate		
<i>a</i> optimization	∧ Force Restart		
Æ Event Detection	🖌 Set force restart schedule 🕧		
💚 I/O Port	Act every (days):	1	
	Execute time:	09 🕶 : 00 💌	
	Restart Now		
			Save Close

Event Detection

The Event Detection page offers several detection modes. If your camera supports such functions, the Motion, ACAP VMD (AXIS Camera Application Platform Video Motion Detection), Audio, Tampering, PIR (passive infrared), and ACAP Apps tabs will appear for you to configure settings. For detailed instructions on how to set up event detection, please refer to the Set up Event Detection and Receive Notifications section below.

	Edit Camera - Camera_2	7 🗖 X
T Device Settings	Motion	
 Recording Settings Live View Settings Optimization 	Detection source: By camera C Keep original camera settings Sensitivity:	
4 Event Detection	Threshold:	
🖗 I/O Port		
	Save	Close

I/O Port

The **I/O Port** page provides options for you to modify digital input and output settings. The corresponding tabs will appear if your camera supports the functions.

		Edit Camera - Camera_1		7 🗖 X
T' Device Settings	Digital Input	Digital Output External Di	gital Input	
alada	∧ Digital Input	D		
Recording Settings	🖌 Keep original can	nera settings 🥡		
Live View Settings	Name:	DI 1		
⁺ //* Ontimization	Normal state:		T	
J. Optimization	Trigger state:	Inactive		
✤ Event Detection				
👰 I/O Port				
				Save Close

For more detailed information and steps on setting up IP Camera, please refer to the corresponding sections under Surveillance Station Help > IP Camera > Configure Camera Settings.

Set up Event Detection and Receive Notifications

If your camera supports the corresponding functions, **Event Detection** allows IP Cameras to be triggered to record when certain events occur. The following section will take **Motion Detection** as an example to walk you through the complete setup.

- 1 In IP Camera, make sure your device is set up correctly.
- 2 Go to Edit > Recording Settings > Schedule to set up an ideal timetable, then click Save.



- 3 Go to Event Detection > Motion to select a Detection source.
 - Select By camera if you wish to use the built-in motion detection features of your device. Tick Keep original camera settings to apply the current camera settings, or leave the checkbox unticked to fine-tune the values of Detection Area, Sensitivity, History, Threshold, Object size, and Trigger percentage (available parameters are subject to camera capability).

	Edit Camera - Camera_2	7 🗖	×
Device Settings	Motion		
Recording Settings	Detection source: By camera Keep original camera settings	6:41.80)	
Lo Live View Settings ∵: Optimization	Sensitivity:		
4 Event Detection	Threshold:		
💡 I/O Port		REST	
	Save	Close	

By Surveillance Station provides more detailed and precise settings. Also, when Surveillance Station is updated, the
detection accuracy will increase accordingly. This can help maintain the hardware performance and video quality of your
device as well.

	Edit@amera - Camera_2	? 🗖 X
T Device Settings	Motion	
Recording Settings	Detection source: By Surveillance Station	0122715251820
Live View Settings	Edit Detection Area	
* Optimization	90	
✤ Event Detection	Threshold: 10	
💚 I/O Port	Ignore short-lived motion: 2 seconds	ACREST
	Save	Close

4 Click Edit Motion Detection Area, use the + and - to add and delete target areas, and click Save.



- 5 Modify the following parameters:
 - Sensitivity: Determine how large the difference is required between a series of frames to trigger motion detection. Larger values will trigger motion detection more easily. The value range is 1 to 99 (%).
 - **Threshold**: The threshold of motion detection. Larger values will trigger motion detection for larger movements. The value range is 1 to 99 (%).
 - Ignore short-lived motion: Ignore minute motions. Larger values mean motion detection will require longer motion times to be triggered.
- 6 Click Save to apply settings. You can try triggering motion detection to make sure the settings meet your expectations. The bar on the left indicates the level of motion detected. Blue means the detected movement is below the threshold while red means the detected motion has triggered recording.



- 7 Go to Main Menu and launch Notification.
- 8 In the Settings tab, select how you wish to be notified (Email, SMS, Mobile), and click Edit Schedule > Edit.

2 6	Notification			? - 🗆 X
Email SMS Push Ser	vice Settings Advanced			
Edit Edit Schedule 🗸 🤇	Set Command Save		All	~
Surveillance Station	Event	Email	SMS	Mobile
Survemance Station	∨ System			
	∧ Camera ()			
	Camera connection lost			
	Camera connection resumed			
	Motion detected	~	✓	✓
	ACAP VMD event detected			
	Digital input detected			
	External digital input detected			
	Audio detected			
	Tampering detected			
	PIR motion detected			

9 Modify the schedule, and click OK to apply settings.

	Edit Schedule - Motion detected	×
Camera:	Camera_1	
Allow Notification	👌 Delete	
▲ 0 1 2 3 4 Sun	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
Mon		
Tue		
Wed		
Thu		
Fri		
Sat		
	OK Cancel	

Large-Scale Deployment

To accommodate multi-camera environments, **IP Camera** also provides camera grouping functions to help enhance management efficiency and import/extport configuration features that allow you to manage copies of your setup preferences.

Batch Add Cameras

The Batch Add Camera Wizard can assist you in adding multiple new cameras at a time.

- 1 Power on IP cameras connected to the same local area network as your Synology device.
- 2 Go to Surveillance Station Main Menu > IP Camera.
- 3 Click Add > Add Batch to launch the Batch Add Camera Wizard.
- 4 Select Quick Setup or Complete Setup and click Next.
- 5 Select a camera interface and click Next.

	Batch Add Camera Wizard		×
Camera Interfac	e		
Select a camera interface:	Synology Supported Cameras		
	General Interface (ONVIF)		
Previous		Next	Cancel

6 Select a server on which you want to install the cameras, and click Next.

	Bato	h Add Camera Wizard		×
Selec	ct a server			
	Name	IP Address	Device	Licenses
	Local Host [DS1819+]	10.17.52.130	7 / 40	2
	[DS713+]	10.17.53.6	3 / 25	42
Previou	ls		Next	Cancel

7 Select the cameras you wish to add, and click Finish.

		Batch A	dd Camera Wizard		
elect came	eras to add				
dit 👻				A Y) Search
Select	Brand	Model	IP Address	Authentication	Name
<	Vivotek	IP8331	10.17.52.174:80	Pending	IP8331
	DIGITUS	DN-16038R2	10.17.52.179:80	Pending	DN-16038R2
	AXIS	P3904-R	10.17.53.169:80	Pending	P3904-R
	ACTi	A82	10.17.52.219:80	Pending	A82
~	D-Link	DCS-6315	10.17.52.180:80	Pending	DCS-6315
~	D-Link	DCS-4603	10.17.52.23:80	Pending	DCS-4603
	AXIS	P1428-E	10.17.52.196:80	Pending	P1428-E
~	AXIS	P1428-E	10.17.52.167:80	Pending	P1428-E
	AXIS	M1054	10.17.52.209:80	Pending	M1054
	AXIS	P1357	10.17.52.73:80	Pending	P1357
	DAHUA	SD6AE830V-HNI	10.17.52.214:80	Pending	SD6AE830V-HNI
	AXIS	A8105-E	10.17.53.77:80	Pending	A8105-E

- 8 Click Edit and in the window that appears, enter the Username and Password of the cameras and edit the Naming rule:
 - Model-No.: The names of the cameras will be "[Model Name]-[Camera Number]".
 - **Prefix-No.**: Specify the prefix of camera names in the **Custom Prefix** field. The names of the cameras will be "[Prefix]-[Camera Number]".

	Edit Batch	×
 Verification 		
Username:		
Password:		
🔨 Camera Name		
Naming rule:	Model-No. 🔻	
Custom prefix:	prefix	
Previous		Finish Cancel

9 Click Finish to complete the setup.

Batch Edit Cameras

- 1 In IP Camera, select a camera in your target batch.
- 2 Click Edit > Edit Batch.
- 3 In the **Source of Attributes** step, the camera's attributes are grouped into different categories. Tick the **Apply** checkboxes for the attributes you wish to apply to your other cameras and click **Next**.

	≡↓ - D Sear	ch
Attributes		Apply
Device Settings		
Recording		
Live View		
Stream setting		\checkmark
Dynamic Stream Settings*		~
Video source		
Enable video buffering (sec.) - false		
 Intercom Settings 		
 Optimization 		
 Edge Recording 		
or compatible reasons, some attributes can only be applied	to the cameras of the san	ne model.

Note:

- 1. The attributes marked with asterisk (*) can only be applied to the cameras of the same model as the batch edit's source camera.
- 2. Only the attributes supported by the source camera can be applied to the other cameras.

4 In the Select the Cameras to Apply step, tick the Apply checkboxes to apply the selected attributes to your cameras or camera groups and click Finish to complete.

Batc	h Edit Cameras 🗖	×
Select the Cameras to Apply		
	≡ ↓ → P Search	
Cameras	Apply	
∨ Local Host		
^ 713plus		
☷ All cameras		
T Restaurant		
T Coffee Shop	-	
*"-" will show on the Apply column when you tick applied because of camera's abilities.	the camera to which the settings can only be partially	

Note:

- 1. Due to compatibility issues, some attributes cannot be applied to certain devices. "-" will show when you tick such a camera.
- 2. The similarity of two ONVIF cameras is determined by their actual abilities rather than their brands and models.
- 3. **Recording storage** can only be applied when your target cameras are installed on the same Synology product as the source camera.

Group IP Cameras

In **IP Camera** > **Group**, you can group devices however you wish to, for instance by camera location, recording mode, or uses. Created groups will automatically appear under **Layout** in **Live View** and **Timeline**. You will also be able to apply user privileges to groups in **Privilege Profile**.

To put connected IP cameras into groups, please do the following:

- 1 Launch IP Camera and click Group.
- 2 Click the Plus button, and enter a Name and Description (optional).
- 3 Add cameras to the **Included Cameras** list using the **Right** arrow.
- 4 Click Save to complete.

	Ca	mera Group				∎ ×
+ - =+ -	Name:	Group 1				
Group 1	Description:					
	Local Host	Ŷ		Included Cameras		
	🔎 Search			Camera_1	Local Host	×
				Camera_2	Local Host	×
			•			
			•			
					Save	Close

Import/Export Camera Configurations

To save copies of current camera settings or replace current configurations with older ones, go to IP Camera > Configuration > Import/Export and follow the instructions of the wizard. The .conf files will be saved in the designated folder in DSM > File Station. For more information, please refer to Surveillance Station Help > IP Camera.

		IP Camera	P - E >
Add - Delete	Edit •	Enable - Configuration - Group	≡↓ - Ø Search
All Status	2	Export Import	Occupied : 9.9 (GB)
Normal	2		Engermond
Disconnected	0	Camera_2 10.17.53.47:80	Occupied : 9.8 (GB) [Local Host]
Disabled	0		
Deleted	0		
Others	0		
		Applications	3
		PTZ Control Live View	

Chapter

Monitor Camera Feeds

Once your camera deployment is complete, you can start monitoring target areas with **Live View**. This chapter introduces the basics of arranging **Live View** layouts, receiving alerts from camera events, as well as setting up preset positions to schedule patrol routes.

Live View

In **Live View**, you can view real-time video feeds of all the IP cameras paired with Surveillance Station, capture snapshots, track targets, and adjust camera feeds with PTZ (pan, tilt, zoom) controls. Camera feeds can be arranged in layouts and customized depending on your individual surveillance needs.



No.		Name	Function				
1		Live View Layout	Displays video feeds from IP cameras. You can click a camera feed to select it, and use the PTZ Controls to change viewing options. The currently selected camera feed is highlighted with a yellow frame. Double-clicking any camera feed enlarges the image of that feed. Double-clicking again returns to the normal layout.				
		PTZ Controls	 Adjust angle and zoom of cameras that support PTZ (pan, tilt, zoom) controls. These controls are grayed out when the selected camera does not support PTZ controls: 1. Arrow buttons adjust the angle of the currently selected camera. 2. The home button returns the selected camera to its default position. 3. Plus and minus buttons adjust the optical zoom of the selected camera. 				
2	Left	Edit live view layouts or enable/disable layout related feat Layouts Panel For quick configuration of your camera feed layout, please Configure Live View Layout section below.					
		Alerts Panel	Manage alerts settings or display alerted video clips here. For quick configuration of live view analytics, please refer to the Get Alerted with Live View Analytics section below.				
		Stream Profile	Switch stream profile here.				
		Patrol Panel	Switch patrol settings here. For quick setup of patrol paths and schedules, please refer to the Setup Scheduled Patrol with PTZ Control and Action Rule section below.				
		Digital Output/Audio Output	Activate/deactivate digital output and/or audio output here.				
3		On-screen Buttons	Hover the pointer over a selected camera feed to display the on-screen buttons. Buttons will show according to the features supported by the cameras.				

For more information, please refer to Surveillance Station Help > Live View.

Configure Live View Layout

To configure your live view layout and start monitoring your camera feeds, please do the following:

- 1 Launch Live View, and go to Layouts > Management.
- 2 Select your preferred layout.
- 3 Drag an IP camera and drop it onto a certain channel of the layout. Repeat this step to display more video feeds on your live view layout.

Note: See Surveillance Station Help > Live View > Monitor Live Views for more details on layout customization.

- 4 According to your surveillance requirements, you can add more layouts by clicking the plus button. Enter a **Name** and repeat steps 2 and 3. After finishing the configuration, you can quickly switch among the saved layouts on the **Layouts Panel**.
- 5 Click Save to complete.

-	Live View											2	>	<				
					Live Vi	ew La	yout M	lanage	ement									×
· ····	+	- =	Name:	Layout_1								Set as	my del	fault				
< (- +)>	auto		E-Map:	[None]						~								
Ų.								16	25	36	49	64	81	100	=1	e		
			Local Host			Y												
∧ Layouts			₽ Searc	1														
Management			▼ Camera	5														
auto (Default) 🔻			🖅 Car	mera_1														
() ♥ ↔ 🖸			ず Car	mera_2														
✓ Alerts			For Formera	Group			-											
✓ Stream Profile			 Transad 	ion Device														
∨ Patrol																		
✓ Digital Output																		
✓ Audio Output																		
2018/12/18 TUE								val (sec			Ŧ				CL	Istomize	Preview	
14:08:10															(Save	Reset	

Take Snapshots of Important Events

Once your **Live View** layout is configured, you can always use the on-screen snapshot button to take snapshots and record important events. The 🙆 button can be used in all Surveillance Station players (e.g., **Recording** and **IP Camera**).



Get Alerted with Live View Analytics

Live View Analytics allows for intelligent target-tracking during live video viewing and recording, giving you the ability to choose from several analytics types and track suspicious events to trigger smart recording on-the-fly. Each recorded session is archived in an organized manner for analysis. The simulation mode ensures accurate tuning so you can adjust sensitivity, detection zone, and object size to deliver the best result for individual cameras.

To track events with live view analytics, please do the following:

- 1 Launch IP Camera, select a camera, and click Live View Analytics.
- 2 Select an **Analytics Type** from the drop-down menu.
- 3 Click Simulation to fine-tune the sensitivity, detection zone, and object size for individual cameras to obtain the best results. To stop simulation mode, please click the button again.
- 4 Click Save to complete.

9				IP Camera		7 - 8 X
Add - Delete	Edit -	Enable - Cor	nfiguration +	Group	≡↓ - ₽ Search	
All Status	2	Can	nera_1	La Li	ive View Analytics - Camera_1	₽ — ×
Normal	2	0 10.3	17.28.43:80	Analytics type:	200	012.12.12.1555-25
Disconnected	0	• Can 10.1	nera_2 17.53.47:80	Sensitivity:		
Disabled	0			Medium 👻		111
Deleted	0			 Detection Zone 		_
Others	0			Action Show detection frames	D	
		Applications			Simulation	• O AMCREST
		PTZ Control	Live View Analytics			Save Reset

- 5 Launch Live View, and go to Alerts > Management.
- 6 Tick the Alert checkbox for the Live View Analytics item which was just now configured in IP Camera.
- 7 Click Save to finish the configuration.

-			Live View		
	7		Alert Management - auto	? 🗖 X	
< (-	Enabled	History Ad	Edit Save Preview	rch	
	All Alerts	2	Events Camera_1 [Local Host]	Alert	
V Layouts	Alert Type		Motion Detection		1.0
Management	IP Camera	2	Tampering Detection		
Alert Panel	I/O module	0	Live View Analytics - Motion Detection	✓	10.
✓ Stream Profile	Transactions	0	✓ Camera_2 [Local Host]		
V Patrol					
V Digital Output V Audio Output					
2018/12/18 TUE 18:57:45					

8 Go the Alert Panel to track alerted video clips. The events will be listed in the middle section.



Note: See the corresponding articles from Surveillance Station Help > Live View > Alerts for more information.

Setup Scheduled Patrol with PTZ Control and Action Rule

If your IP cameras support PTZ features, you can customize multiple preset positions to monitor locations which require extra attention, and setup patrol paths composed of a serial concatenation of existing preset positions.

To setup patrol paths, please do the following:

- 1 Go to IP Camera, select a PTZ-supported camera, and click PTZ Control.
- 2 Click the **Plus** button to add a preset position.
- 3 Enter a Name and specify the moving Speed (if supported by your camera).
- 4 Adjust your desired viewing angle with the on-screen PTZ controls. Repeat steps 2 to 4 to add more preset positions.
- 5 Click Save to complete.



- 6 Go to the Patrol tab.
- 7 Click the **Plus** button to add a patrol path.
- 8 Enter a **Name** of the newly added patrol path, select the **Interval (sec.)** to have the patrol repeat after a specified time in seconds, and specify **Speed** to adjust the moving speed level when patrol is executing (if camera supported).
- 9 Add preset positions from All Presets list to Included Presets list using the Right arrow. Adjust the preset positions' sequence by clicking the Up or Down arrows.
- 10 Click Save to finish the patrol settings. Now you can switch patrol paths from the Patrol Panel.

		PTZ Control - Ca	mera_1		7 – X
Preset Position	Patrol Adva	inced			
+ -	≡↓ -	Name:	PTZ		
Ceiling-wall	۲	Interval (sec.):	5		-
		Speed:			-
		All Presets		Included Presets	+ +
		home			
		Ceiling			
		Wall			
	1 item(s)				
				Save	Close

To automatically repeat the patrol path, please do the following:

- 11 Go to Surveillance Station Main Menu > Action Rule.
- 12 Click Add to create an action rule.
- 13 Enter a Name of the action rule, and set the Rule Type as Scheduled.
- 14 Click Next to continue.

	Action Rule	
st History Advanced		
bb	Add Action Rule Wizard	
Information		
Name:	Patrol	
Rule type:	Triggered	- 0
Action type:	Triggered	0
	Scheduled	

15 Set the Action device as Camera, the Device as the PTZ camera with preset positions and patrol paths configured, and the Action as Patrol. Specify the Patrol path you have configured and specify your preferred Loops per cycle and Interval.

16 Click Next to continue.

	Add Action Rule Wizard	
Action		
Add Delete		
Action 1		
Action device:	Camera	~
Device:	Camera_1	-
Action:	Patrol	-
Patrol:	Ceiling-wall	-
Loops per cycle:	1	-
Interval:	10 Second(s	s) 🔻
Return position:	None	-

- 17 Determine when the action rule you wish to be active by selecting cells on the grid. You can select an entire day by clicking on a day and a specific time by clicking on the hour.
- **18** Click **Finish** to complete the configuration.

Add Action Rule Wizard	×
Schedule	
Active 🖉 Delete	
Image: Contract of the service.	
Previous Finish Canc	el

Stream Live Video to YouTube

Besides monitoring with **Live View**, you can also share video streams to YouTube using the **Live Broadcast** application. To share your stream with others, simply launch **Live Broadcast**, select a stream camera, and fill in the path information of your personal YouTube page.

	Live Broadcast	? — 🗖 X
∧ Status		
Live	ON	
∧ YouTube Settings		
To transfer the stream to YouTu provided. You can find relevant	be live, the rtmp path and corresponding key for your Ye information on the personal page of <u>YouTube</u> .	ouTube account must be
rtmp path:	rtmp://a.rtmp.youtube.com/live2	
Key:	b89v-tx8c-e0rh-euwf	
 Live Stream Source 		
YouTube Live only supports vide	o streams in H.264 format.	
Camera:	AMCREST - IPM-721S 🔹 💽	
Stream profile:	Balanced (1280x720, 20FPS) -	
		Save Reset

For more details, please refer to Surveillance Station Help > Live Broadcast.

Play Back Video Recordings

Besides viewing live feeds, Surveillance Station also supports various video playback features. This chapter introduces the basics of operating **Timeline**.

Timeline

In **Timeline**, you can play back recordings that were captured with IP cameras and stored on your device. Videos can be filtered according to camera modes, recordings, or dates.



No.		Name	Function		
1	Recordings Viewer		Recordings Viewer Displays video feeds from IP cameras. Click a camera feed to select i the Controller Panel to change viewing options; the currently selecte feed is highlighted with a yellow frame. Double-clicking any camera feed the image of that feed. Double-clicking again returns to the normal lay		Displays video feeds from IP cameras. Click a camera feed to select it, and use the Controller Panel to change viewing options; the currently selected camera feed is highlighted with a yellow frame. Double-clicking any camera feed enlarges the image of that feed. Double-clicking again returns to the normal layout.
2		Timeline	Search for recordings based on the capture time. There are two columns: the left represents all camera feeds; the right represents the currently selected camera feed.		
			Controls for recordings playback:		
		Controller Panel	 Choose to play back recordings captured on specific dates on the calendar. Dates with recordings are shown in blue. 		
	Layout Panel		Control recording playback with the buttons below the calendar, including play/ pause, fast forward/slow motion, next/previous, and next frame/previous frame.		
		Edit timeline layouts, or enable/disable layout related features. For basic information on configuring layout, please refer to the Configure Live View Layout section above.			
3	Left Panel		Filter the recordings you wish to view using the following options:		
		Filter Panel	1. Select a specific recording mode on the timeline to filter out sections of time with a specific recording mode.		
			Select the show events only option to filter out sections of time with events such as motion detection, audio detection, and other events.		
		Seek Panel	Specify the hour , minute , and second , and click Go To to quickly search the specific time in a camera feed. You can also launch Smart Search to obtain more accurate search results.		
4	On-so	creen Buttons	Hover the pointer over a selected camera feed to display the on-screen buttons. Buttons will show according to the features supported by the cameras.		

For more information, please refer to Surveillance Station Help > Timeline Playback > Work with Timeline.

View Multi-Channel Recordings

Timeline allows for specific-times selection, saving the you the effort of going through all clips to locate your target events. You can simultaneously view clips recorded by different cameras at different times to recreate the action flow of an event, or pinpoint the exact time of a certain incident in your surroundings.

- 1 Set up a layout. You can either select a layout previously created in Live View or create a new one in Timeline.
- 2 Launch **Timeline** and specify a date from the **Controller Panel**. Surveillance Station will combine a series of recordings clips to be displayed on the timeline bar.

Note:

- 1. Time segments on the timeline will be marked in blue if events have occurred and grey if no events have occurred.
- 2. Under non-continuous recording modes, it is possible that no recordings will be generated when no events have occurred within the day. In this case, the timeline bar will not be marked, and the system will automatically play recordings from the most recent date.
- 3 Switch to non-sync mode (the Sync Mode button will turn grey) to display video feeds from different points in time. Each individual camera will have its own timeline.
- 4 Select a camera, and drag the right timeline cursor to adjust the playback time. Repeat until all cameras are at your ideal timing.



5 You can also locate recordings via Smart Search or Timeline Filter.

Smart Search

If you are not sure of the exact time of an event, try using **Smart Search** to locate events. **Smart Search** can also help you find clips of specific actions such as movement, missing or foreign objects, camera occlusion, focus lost, and no-idle zone.

- 1 Launch Smart Search from Timeline or Surveillance Station Main Menu.
- 2 Under Source, select a recording to search through by selecting a server, camera, and date.
- 3 Move the timeline cursor or use the Seek function to quickly move the cursor to a specific time.
- 4 Under Configure, specify the search type, sensitivity level, and object type.
- 5 If you select the Motion detection, Missing object or Foreign object, specify the Detection Zone.



- 6 Click 🔅 to open the advanced search settings window if needed.
- 7 Click b to start searching.
- 8 Click 🧮 to expand the Result List.

For more detailed instructions, please refer to Surveillance Station Help > Smart Search.

Timeline Filter

If you have set up different recording modes for your cameras, try setting up the Filter to locate the recordings.

1 Under the **Filter** panel, select the recording modes you wish to view from the first drop-down menu, then click on any location of the video feeds.



2 If you are only interested in viewing recording segments that contain events, you can select **Show Events Only** from the second drop-down menu.



Manage Video Recordings

In **Recording**, you can view a list of footage recorded with IP cameras. Recording files can be played back, downloaded, or locked to ensure important events are not accidentally deleted. You can also create archives to manage video files.

Manage Video Recordings

View Recorded Video Files

To play back a saved recording file in **Recording**, go to the **List** tab, right-click on the video you wish to view, and click **Play**. Recordings are tagged with the **Status** icons:

- Continuous Recording
- Advanced Continuous Recording
- Manual Recording
- Motion Detection Recording
- Customize 1 Recording
- Customize 2 Recording
- Edge Recording
- Action Rule Recording

You can also define what recordings are displayed from the top right **Search** box. To quickly target certain files, set the filter criteria according to source server, camera, recording mode, lock status, or start/end time.

Truncate a Video File in Process of Being Recorded

If you wish to truncate the video clip which is being recorded, right-click on the clip marked "- **Recording**", and select **Truncate** the recording to immediately stop recording and archive the recorded portion.



Note: Surveillance Station will start another clip for continuous recording. For more information, please refer to Surveillance Station Help > Recording > List.

Chapter

Lock a Recording

Important recordings can be locked in order to ensure they are not accidentally deleted when the system wipes old files. To lock recordings:

- 1 Right-click Select the cameras you wish to lock. The cameras cannot be marked "- Recording".
- 2 Click Lock > Lock to lock the selected cameras or category.
- 3 The locked clips will be marked "- Locked".



4 To unlock recordings, select a camera marked "- Lock", and click Lock > Unlock.

Manage Video Archives

Export Videos as an Archive

In the **Export** tab, recordings from Surveillance Station can be exported to any shared folder or external storage device via USB or eSATA interface. By specifying the camera and time range, recordings within the range will be exported as an archive.

- 1 Click Add.
- 2 Name the archive and select a destination, then click Next.

	Recording Export Wizard	×
Create An Arcl	nive	
Name your export archive	e to distinguish between different archives.	
Archive:	20190101	
Select a destination to sa	ve the archives.	
Destination:	surveillance 💌	
	Next Cancel	

3 Select cameras to export recordings, and click Next.

<u>~</u>	Name	IP Address	Status
~	Camera_1	10.17.28.43	Normal
~	Camera_2	10.17.53.47	Normal

4 Select the date and time range, and click Finish to export.

				Record	ing E	ort Wizard	×
Select dat	e and tim	e to	0 e	xport			
Select the date an	d time range of	the r	reco	rdings to b	e exp	ed.	
Start date/time:	2019/01/01		1	00:00	-		
Stop date/time:	2019/01/08		1	00:00	-		

Mount archives to Surveillance Station

In the **Mount** tab, you can mount exported archives onto Surveillance Station. The recordings in mounted archives can be played in **Recording** and **Timeline**.

To mount archives, click Add, select your Shared folder and target archives, then click OK to mount.

		Recording Mour	nt Wizard		>
Select a so	urce from the drop do	own menu. Then select the a	archives to mount.		
Shared fold	ler: surve	eillance	~		
Recording:					
~	Name	Cameras	Start Date/Time	Stop Date/Time	
	20190101	Camera_1,Camera_2	2019/01/01 00:00	2019/01/08 00:00	

Add a Recording Storage

In Surveillance Station, you can use existing shared folders or add new encrypted folders as recording storages. The following section will take creating an encrypted folder as an example:

- 1 Click Add > Add Storage.
- 2 Select Add shared folder and click Next.
- 3 Enter a Name and Description, and select a Location from the drop-down menu.

	P	dd Storage		×
Informati	ion			
Name:	Surveillance_2			
Description:	Encrypt			
Location:	Volume 1(Available: 634	.85 GB)	-	
V Limit the red	cording storage up to (GB)	200		
Hide this sha	ared folder in "My Network Pla	aces"		

- 4 If you wish to configure the maximum storage size of the recording space, tick the checkbox and specify the maximum size limit.
- 5 If you wish to keep the shared folder used as the recording storage from appearing under "Network" in Windows File Explorer, tick Hide this shared folder in "My Network Places".
- 6 Click Next to go to the Advanced page.
- 7 Tick Encrypt this shared folder and set the encryption key.
- 8 Click Finish to complete.

	Add Storage	×
Advanced		
Encrypt this shared folde	r 🕖	
Encryption key:	•••••	
Confirm key:	•••••	
Previous	Finish Car	ncel

Smart Time Lapse

Smart Time Lapse condenses a video taken over a long period of time into a video that lasts for a few minutes or seconds. If you wish to see a quick overview of the all changes of a large-scale project, try launching the **Smart Time Lapse** application from Surveillance Station > **Main menu** and **Add** a task.

Add Doloto	Edit Engl	ala -		-	L - O Saarah
Add Delete		Jie •		_	Jo Search
All Status	2	e.	Task 1 Camera_1		Schedule Execution Compression rate: 240
Enabled	2		Occupied	0.0 (GB)	
			Limit to	180 days / GB	
Disabled	0		Storage	Surveillance (Volume 1)	
Completed	0		Recording range	Start from 2019/01/09 14:32	
Deleted	o	0	Task 2 - 5% Camera_1		One Time Execution Compression rate: 240
Abnormal	о				

Completed time lapse videos will be listed in the **Recording** tab.



For more details, please refer to the corresponding articles under Surveillance Station Help > Smart Time Lapse.

Work with I/O Module

Chapter

Support for I/O module allows Surveillance Station to integrate with a wide range of devices with specialized features. You can easily connect smoke detectors, LED lights, electromagnetic locks, and other products to operate Surveillance Station as a centralized security system. This chapter describes how to add and manage I/O modules.

Install I/O Modules

- 1 Properly connect your I/O module.
- 2 Go to Main Menu > I/O Module.
- 3 Click Add, and follow the steps of the Add I/O Module Wizard. (For more detailed instructions, please refer to the Install IP Cameras section in Chapter 2.)
- 4 Click Next to edit I/O port settings. You can determine whether to keep the original module settings, the I/O types, and the circuit types in the normal state. Click Activate Output to test if the Trigger State is switched when the device is triggered.
- 5 Click Next to edit Camera Pairing. Paired cameras can be used for the following functions:
 - **a** To play camera recordings in the I/O Module Log tab.
 - b Email notifications with snapshots attached will be sent once digital input has been detected.
 - c Preview video feeds from paired cameras on E-map.
- 6 Click Next to edit time synchronization in Advanced Settings. If Surveillance Station is running as the time server for the I/O module, the I/O module must be in the same local area network with Surveillance Station.
- 7 Click Finish to complete the setup. You will find the information in the display window.

			9	I/O Mo	dule	P - 1	₹×
Add Delete	Edit Ena	ible •				Et → D Search	
All Status	1	1/0	IO_Module			I/O Port:8	~
Normal	1		10.17.52.122:80		08221	[Local Host]	
Disconnected	0		I/O Port		P8221		
Disabled	0			Name	Туре	Status	
Others	0			IO Port 1	Digital Input	Inactive	
others	0			IO Port 2	Digital Input	Inactive	
				IO Port 3	Digital Input	Active	
				IO Port 4	Digital Input	Inactive	
				IO Port 5	Digital Output	Inactive	
				IO Port 6	Digital Output	Inactive	
				IO Port 7	Digital Output	Inactive	
				IO Port 8	Digital Output	Inactive	
						1 item(s	0

8 If you wish to modify the settings later, select your target I/O modules, and click Edit. You can change the settings of each property from the corresponding tabs.

For more detailed instructions, please refer to the Surveillance Station Help > I/O Module > Configure I/O Module Settings. You can link devices that are connected to the I/O module with Action Rules, allowing different devices to interact with each other. Please refer to Chapter 8: Action Rule for more information on the setup.

Delete I/O modules

To remove an I/O module from Surveillance Station, simply select the desired I/O modules and click Delete.

Disable I/O modules

If you wish to temporarily end the connection with certain I/O module, select the desired I/O modules, then click Enable > Disable. Click Enable > Enable to resume the services.

View I/O Module History

In the History tab, you can view I/O module logs to have a better understanding of historical records.

- To play a recording, simply browse through the records and click the thumbnails to play. The recording of the camera will play starting from 10 seconds before the occurrence of the event to 20 seconds after the event has ended.
- To remove certain logs, select your target I/O modules and click Clear.
- To save certain logs for record, select your target I/O modules and click Download.



Notification



In **Notification**, you can set up notifications to receive messages via email, SMS, or mobile devices when the system status changes or when errors occur. This chapter introduces the basics of setting up notifications and lists some major features.

Receive Notifications Using Different Channels

Receive Notifications via Email

1 Go to Notification > Email.

2 Tick the Enable e-mail notifications checkbox, and enter the required information.

- If you select Gmail as your service provider, remember to Log in to Gmail.
- If you wish to use a custom SMTP server, select Custom SMTP server from Service provider and enter the required information. The SMTP server can be an IP address or a domain name. If it is a domain name, please make sure a valid DNS server IP has been entered at DSM > Control Panel > Network, and the server is connected to the Internet
- 3 Tick Attach an event snapshot if you wish to receive snapshots with notifications.
- 4 Tick Enable email interval limit If you do not want to receive too many messages. You can specify how frequently you want to receive messages in the Minimum interval between each message (minutes) field.
- 5 Click Send a test email message to see if your settings are correct.
- 6 Click Save to complete.

200 - Carlo Car	Notification		P -	- 0	×
Email SMS Push Service Setting	gs Advanced				
Enable email notification service to receive notification	ation messages via email when status changes or	errors occur to the system.			
Enable e-mail notifications					
Recipients:	synology@gmail.com	0			
Subject prefix:	SS notification				
Email server:					
Service provider:	Gmail				
Log out of Gmail					
Attach an event snapshot					
Enable email interval limit					
Minimum interval between each	1	0			
message (minutes):					
Send a test email					
Send a test enhan					

Receive Notifications via SMS

- 1 Go to Notification > SMS.
- 2 Tick the Enable SMS notifications checkbox.
- 3 Select an existing SMS provider from the drop-down menu or click Add SMS service provider to add a new SMS provider, and enter your SMS account information.
- 4 Specify a Primary phone number and a Secondary phone number if needed.
- 5 Tick Enable SMS interval limit if you do not want to receive too many messages.
- 6 Click Save to complete.

2 4	Notification P - 🗖 🗙
Email SMS Push Service Settings	Advanced
Enable SMS notification service to receive notification me	ssages via SMS when status changes or errors occur to the system.
Enable SMS notifications	
SMS service provider:	clickatell Edit Delete
Username:	Synology
Password:	•••••
Confirm password:	•••••
API ID:	Synology
Add SMS service provider	
Primary phone number:	+ 💌 123 - 45678910
Secondary phone number:	+ 🔻 987 - 6543210
Enable SMS interval limit	
Minimum interval between each message	5
(minutes):	
	Save

Receive Notifications via Push Service

Note: Before enabling push service, please make sure your Synology NAS/NVR can access the Internet using port 8089.

To use an email server hosted by Synology:

- 1 Go to Notification > Push Service.
- 2 Tick Send notifications regarding system status via Synology's email server, and enter one or more email addresses.
- 3 Tick the Enable email interval limit checkbox if you do not want to receive too many messages.
- 4 Click Save to continue. You will need to verify your email addresses before being able to receive push notifications. A verification email will be sent to the addresses you have specified. Please follow the steps in the verification email.
- 5 After verification, click Send a test message to see if your settings are correct.

Email SMS Push Service Setting	Notificatio	n	?	-		×
Enable notification service to receive notification n	nessages via Synology's email serve	er and mobile devices when a notification event occurs.				
Send notifications regarding system status vi	a Synology's email server					
Recipients:	synology@synology.com	0				
🖌 Attach an event snapshot						
🖌 Enable email interval limit						
Minimum interval between each	2					
message (minutes):						
Enable mobile device notifications						
Manage paired DS cam 🥡						
Manage paired DS finder 🥑						
		Save		C	ose	

To enable mobile device notifications:

- 6 Tick the Enable mobile device notifications checkbox, and click Save.
- 7 On your mobile device, install **DS cam** or **DS finder** and log into Surveillance Station.
- 8 Back in Surveillance Station, click Manage paired DS cam or Manage paired DS finder to see the list of all paired mobile devices.
- 9 Click Send a test message to test connection.

10 Click Save to complete.

Email SMS Push Service Sett	ings Advanced			
nable notification service to receive notificatio	n messages via Synology's em	ail server and mobile devices	s when a notification event occu	rs.
Send notifications regarding system status	s via Synology's email server			
Recipients:		Manage paired DS o	am	×
Attach an event snapshot	Refresh Unpair			
✓ Enable email interval limit	Name	Firmware Version	DS cam Version	
Minimum interval between each	Pixel 3	Android 9	3.1.0-465	_
message (minutes):	iPhone	iOS 12.1.2	5.1.0-470	
Enable mobile device notifications				
Manage paired DS cam 🕖				
Manage paired DS finder				
			Close	
			0,050	_
			Sa	ve Close

Note: If you wish to receive notifications from DSM, you need to install DS finder on your mobile device, and add this Synology product to the **My Favorite** list.

Configure Notification Settings

Set Up Notification Service Types

- 1 Go to Notification > Settings.
- 2 Select Surveillance Station or DSM, and tick the corresponding Email, SMS, or Mobile checkboxes of events to determine how you wish to receive notifications.
- 3 Click Save to apply settings.

9	Notification			7 - 8
Email SMS Push Se	rvice Settings Advanced			
Edit Schedule 👻	Get Command Save		All	
Surveillance Station	Event	🧹 Email	SMS	Mobile
Survemance Station	✓ System			
DSM	∨ Camera 🕧			
	∨ I/O Module 🕧			
	∨ Speaker			
	∨ Server			
	✓ Access Control			
	✓ External Device ()			
	✓ Transactions			
	✓ Archive Vault			
	∧ Clients ()			
	Client connection lost	✓	~	
	Client logged out			
				66 item(s)

Edit Notification Events

• To customize the contents of the notifications, select an event from the Settings tab and click Edit.

1813 1914	Notification		7 — 🗆 X
Email SMS Pus	sh Service Settings Advanced		
Edit Edit Schedule 👻	Get Command Save	All	v
Surveillance Statio	Edit Notification - Server connection lost	×	Mobile
DSM	Customize the subject and content of the notification below. SMS and push notifications will contr subject only. The string segments containing "%" will be replaced with actual system information the notification is sent. Subject () Connection to recording server % <u>SLAVEDS</u> % has been lost	ain the when	
	Content		✓
	Dear user, Corresponding services have been stopped as %SS_PKG_NAME% has lost connection to the following recording server(s): % <u>SLAVEDS</u> %. Sincerely, %SS_PKG_NAME%		
	Restore Defau	ilts	
	OK	el	66 item(s) 🔿

• To specify when messages are allowed to be sent, select an event from the Settings tab and click Edit Schedule.

dit Edit Schedule •	Edit Celesdula - Comun comuniti	a last X
urveillance Station	Allow Notification	Mobile
5M	Image: Normal System Image: Normal System <td>5 16 17 18 19 20 21 22 23</td>	5 16 17 18 19 20 21 22 23

Manage Advances Settings

In the **Advanced** tab, you can integrate notifications for DSM and Surveillance Station, configure snapshots attached to email messages, mute notifications, combine notifications of the same event types, as well as edit notification variables.

2 4			Notification	7 - 8 X
Email SMS Push	Service Settings	Advanced		
DSM Notification				
The notification integration fe	ature allows you to manag	e the settings of yo	ur DSM notifications of system and storage in Surveillance Station Notificati	on application.
Show DSM notifications	and sync Email/SMS/Push	Service settings wit	h DSM 🕧	
 Mute Notifications 				
You can mute notifications to	prevent being disturbed. G	only Surveillance Str	ation notifications will not be sent during mute mode.	
Mute for:	30 minutes	Turn (On	
Time remaining:				
 Event Snapshot 				
You can configure detailed se tab.	ttings for snapshots that a	e attached to email	messages. Please remember to enable the "Attach an event snapshot" optio	n in the Email or Push Service
 Only take one snapshot 	when detecting an event			
 Take snapshots when de 	tecting events, and continu	ie to take snapshots	s within a specified interval after the events occur	
Snapshot interval (seco	nds): 5 💌			
 Notification Combin 	ation Setting			
The notification combination	feature helps you to avoid	receiving excessive	notification messages of the same events within a specific period of time, an	d reduces the system loading.
Combine notifications of	the same category 🕧			
Time interval (minute):	1		0	
 Notification Variable 	es			
%SS_PKG_NAME%:	Synology Surveillance S	tation		
%COMPANY_NAME%:	Synology DiskStation			
				Save Close

For more detailed steps, please refer to the corresponding articles under Surveillance Station Help > Live View > Notification.

Action Rule



Action Rule provides a variety of rules that automate different surveillance functions which can help reduce the manual workload. Action rules can be combined with features such as camera patrol and I/O module, and also notify you with the status of various surveillance system events including lost camera connection or tampering.

Set Up Action Rule List

In the List tab, you can manage all your action rules.

List History Advanced	Action Rule	? — E X
Add Delete Edit Enable -		
Rule 1 Triggered		~
Rule 2 Scheduled		~

As the setup of a **Scheduled Action Rule** has already been demonstrated in the **Setup Scheduled Patrol with PTZ Control** and **Action Rule** section above, the follow paragraph will take adding a **Triggered** rule as an example.

Triggered Action Rule

To add a triggered action rule:

- 1 Go to Action Rule > List, and click Add.
- 2 In the Information step, enter a Name, set the Rule Type as Triggered, and select either Interruptible or Uninterruptible from Action type.
 - Interruptible: The newly triggered action rule will be executed instead of the originally triggered action rule.
 - Uninterruptible: The rule will ignore other actions rules, continuing to execute the originally triggered action rule until the action is complete.
- 3 Select Triggered from Rule type, and click Next to continue.

	Add Action Rule Wizard		>
Information			
Name:	Rule 1		
Rule type:	Triggered	- ()	
Action type:	Interruptible	· ()	

- 4 In the Event step, configure the Settings and Events. If you wish to set up more events, click Add. Click Delete to select the events to cancel.
- 5 Click Next to continue.

	Add Action Rule Wizard	
Event		
Add Delete		
Event source:	Camera	-
Device:	Camera_1	-
Event:	Motion detected	-
Trigger type:	Constant	
∧ Event 2		
Event source:	Camera	-
Device:	Camera_2	-
Event:	Live view analytics detected	~ ()
Triager type:	Constant	~

- 6 In the Action step, configure the Action device, Server, Device and Action parameters. Click Add to add more actions and Delete to cancel.
- 7 Click Next to continue.

	Add Action Rule Wizard	
Action		
Add Delete		
 Action 1 		
Action device:	Camera	Ψ.
Device:	Camera_1	-
Action:	Enable camera	~
 Action 2 		
Action device:	Camera	
Device:	Camera_2	-
Action:	Take snapshots	-
	2	•
Times:		

8 Set up a Schedule, and click Finish to complete.

	Add Action	n Rule Wizard
Schedule		
Active		Delete
⊿ 0 1 2 3 4	5 6 7 8 9 10 11	12 13 14 15 16 17 18 19 20 21 22 23
un		
ton		
Fue .		
Ved		
Thu .		
Fri		
0		

For more details and limitations, please refer to Surveillance Station Help > Action Rule > List.

Track Action Rule History

In the **History** tab, you can view, clear, and download the automatically generated logs. For triggered action rules, Surveillance Station will generate a log each time an action rule is triggered. For scheduled action rules, Surveillance Station will generate logs both at the start and end of a schedule.

Log types, recorded times, action rule names, action rule types, and action results are displayed. For Action Result, there are four states:

- · Finished: The action rule was successfully executed according to specified settings.
- · Failed: The action rule failed to execute according to specified settings.
- Interrupted: The originally triggered action rule was interrupted either by another user executing the same action in Live View or by another newly triggered action rule executing the same action.
- **Ignored**: The originally triggered action rule was ignored due to either another user executing the same action in **Live View** or another uninterruptible action rule executing the same action.

7		Action Rule		? — ⊟ X
List	History Advanced			
Clear	Download			
Туре	Date & Time	Name	Rule Type	Action Result
0	Today 16:43:56	Rule 2	Scheduled	Finished
				1 item(s) 💽

Modify Action Rule Storage

In the **Advanced** tab, rotation rules can be adjusted to best suit your needs. You can set the rules by days, files sizes, and file numbers.

V	Action Rule	P — 🗖 🔅
List History Advanced		
 A History Rotation 		
Keep logs within (days):	30	
Limit the log size up to (MB)	200	
Limit the log number	100,000 🗸	

Archive Vault

In **Archive Vault**, you can manage archiving tasks and transfer recordings from other servers to your Synology device. This chapter demonstrates the complete process of adding and editing tasks.

Configure Archiving Tasks

Add Archiving Tasks

- 1 Launch Archive Vault, and click Add.
- 2 Enter a Name.
- 3 Select either Schedule Execution or One Time Execution from the Task type drop-down menu, and click Next.
 - Schedule Execution: Execute the archiving task periodically.
 - One Time Execution: The archiving task will only be executed once. From the Execute Time drop-down menu, select either Execute immediately to allow archiving tasks to be executed once it is added or Execute at the specified time and specify when to execute the archiving task.

	Add Archiving Task Wizard)
General		
 Information 		
Name:	Task 1	
Task type:	Schedule Execution	
 Task Execution Sche 	dule	
Active	👲 Delete	
⊿ 0 1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
Sun Sun		
Mon		
Tue		
Wed		
Thu Thu		
Fri		
Sat		
	Next Cancel	

Chapter

- 4 Adjust Storage Settings and Rotation Rules in the Storage step, and click Next.
 - You can click Management to open the Storage tab and edit the storage space.
 - Tick the Customize archive folder name checkbox to specify a name for the archived recording directory.

Add	Archiving Task Wizard	×
Storage		
∧ Storage Settings		
Archiving storage:	surveillance (Volume 1)	Management
Customize archive folder name	Task 1	
Recordings are located in /volume1/sur	veillance/@ArchiveVault/Task 1	
 Rotation Rules 		
Keep the files within (days):	30	
Limit the archive folder up to (GB)	10	
When space or time limit is reached:	remove old archives 🔹	
Previous	Ne	Cancel
Specify the source server, and enter I	P address, port, username, and	password.
Click Next to continue.		
Add	Archiving Task Wizard	×
Source		

fou can auu Surveniai	ice station as the source recording	server for archiving tasks.
Archiving source:	Remote Server	-
IP address:	10.11.50.200	Q
Port:	5000	HTTPS
User name:	admin	
Password:	•••••	
	Test Connection	

5 6 7 Tick the checkboxes of the desired cameras, and click Next.

Cameras			
Name	IP address	Occupied (GB)	Select
All Cameras			
Restaurant	127.0.0.1	8.2	
Coffee Shop	10.17.52.194	9.9	~

Previous		Next	Cancel

8 Specify archiving start time and recording time and click Next.

Ad	ld Archiving Task Wiza	rd	>
Recording			
 Specify Archiving Start Tim 	e		
 From recording start time: From the first recording 	2019/01/01	/ 00:00	-
 Specify Recording Time 			
Select	👲 Delete		
■ 0 1 2 3 4 5 6 7 Sun <td< td=""><td>8 9 10 11 12 13 14</td><td></td><td>D 21 22 23</td></td<>	8 9 10 11 12 13 14		D 21 22 23
Previous		Next	Cancel

- 9 Configure archive recording type in the Advanced step.
 - In Specify Recording Type, select recording modes to archive recordings.
 - In Video Reduction, choose to enable Event Summary to archive event clips of the recordings, and disable Event Summary to obtain the complete recording file.
 - In Specify Archive Range, choose to enable Archive range does not overlap with the source server. By enabling this
 option, only the recordings from the source server that are about to be rotated will be archived. The archiving process will
 start one day earlier to avoid network bandwidth problems, therefore overlapping with the last day of the source server's
 archiving range.

10 Click Finish to complete.

A Specify Record	пд Туре		
Recording Mode:	All Modes	•	
 Video Reduction 	1		
Event Summary:	Enabled	v ()	
 Specify Archive 	Range		
Archive range does	not overlap with the source server 🥡		

Batch Edit Tasks

To edit tasks, simply select your target task and click Edit. You can also use the Batch Edit feature to edit multiple tasks:

- 1 Launch Archive Vault, and select the archiving task you wish to apply attributes to other archiving tasks.
- 2 Click Edit > Edit Batch.
- 3 In the **Source of Attributes** step, tick the **Apply** checkboxes for the attributes you wish to apply to other archiving tasks, and click **Next**.

Et V Sear	cn
ttributes	Apply
✓ General	
Storage	
Archiving storage - /volume1/surveillance	
Keep the files within(days) - 30	
Limit the archive folder up to*	
When space or time limit is reached*	
Recording	
/ Advanced	
Due to the differences in task types, some attributes may not be applied.	

4 In the Select the Archiving Tasks to Apply step, tick the Apply checkboxes to apply the selected attributes to your archiving tasks. Click Finish to complete.

Batch Edit Arc	hiving Tasks 🗖 🗙
Select the Archiving Tasks to App	ly
	E↓ ✓ Search
Archiving Task	Apply
☷ All archiving tasks	
*Due to the differences in task types, some attributes ma shown in the respective apply column when selecting the	ay not be applied to all archiving tasks, and "-" will be task.
Previous	Finish Cancel

Configure Bandwidth Control for Archiving Tasks

In **Bandwidth Control**, you can view and configure the bandwidth control schedule of the current archiving task. In addition to the default unlimited bandwidth, two sets of speed limits are provided in **Bandwidth Control**. You can define your desired bandwidth limit and modify the schedule.

- 1 Launch Bandwidth Control.
- 2 Configure bandwidth limit: Specify a bandwidth limit (in KB/s) from Speed limit 1 and Speed limit 2.
- 3 Configure schedule: Select a set of speed limit, determine when this speed limit will be activated by selecting cells on the grid. You can select an entire day by clicking on a day and a specific time by clicking on the hour.
- 4 Click Save to complete.



License



In **License**, you can view the installed surveillance device licenses and the number of licenses which you have already used. This chapter introduces the process of adding new licenses to Surveillance Station.

Install License on Surveillance Station

By default, a Synology NAS product comes with two free licenses, and depending on the actual mode, an NVR product comes with multiple pre-installed licenses.

- 1 Go to Surveillance Station Main Menu > License.
- 2 Click Add. After reading the agreement, tick the agree checkbox and click Next.

2	License P - E	\sim
Add 🗖	elete Show License Key How to Buy	_
Total: 44	Add License Wizard	×
All Licen	To proceed with adding licenses, you must agree to the terms and conditions.	
	Software License Agreement	
Default	Thank you for purchasing the Synology Surveillance Device License Pack. Upon applying the license key, you agree with the following terms and conditions. Any violation will subject you to the legal liabilities under the applicable laws and regulations.	
1 License	-This license key can be applied to only one Synology NAS Server at a time. -This license key cannot be distributed or provided to any third party. -This license key should be kept in a safe place. Synology will provide no replacement for any loss of this license key. -This license key and the information of your Synology NAS, including serial number and model name, will be sent back to	
4 License	Synology for validation. We will not collect other personal data during validation. If you agree with the terms above, select Agree, enter the license key, and click OK.	
8 License		
Others	I agree to the software license agreement and have read the privacy statement	
_		
_		
	Next Cancel	

3 Select a server to which you wish to add surveillance device licenses, and click Next.

	Add License Wizard						
Sele	ect a server						
	Name	IP Address	In Use	Installed	Maximum for Local Device		
	Local Host [DS1819+]	10.17.52.130	7	2	40	0	
	713plus [DS713+]	10.17.53.6	3	42	25		
* The tol	tal number of licenses are shared d devices.	d by all the servers in the	e CMS architectu	ire. However,	each server has its number lim	it of	
Previo	ous				Next Canc	el	

- 4 Enter or paste the license keys. Use + or to add or delete keys.
- 5 Click Finish to complete the license installation.

	Add License Wizard	×
Your license will be sent l	back to Synology for validation. Please make sure your Synology NAS is connected to the Internet.	
Enter the license key:	01. 12345 - 67891 - 01112 - 13141 - 02. 98765 - 43210 - 98765 - 43210 - +	
*You can paste more than Previous	one license key here.	

6 After adding licenses, you can return to the License page to check details and statuses of each license.

2		Licen	ise		7	P — 🗖 X
Add Delete - S	how Licens	se Key How to Buy				
Total: 34 Used: 11	Ava	ailable: 23				
All Licenses	5	License Key	License Num	Install Date	Expiration Date	Source
Default	1	Default License	2		Infinite	
1 License Number(s)	0	HTWYC-****-*-DHMBB	8	2018/07/11	Infinite	Local Host
4 License Number(s)	0	WDD6J-****GR6QY	8	2018/11/05	Infinite	Local Host
Others	0	H7HH7-****-**-RKP3Y	8	2018/11/05	Infinite	Local Host
		J4VP3-****-****-4TFVM	8	2018/11/05	Infinite	Local Host
						5 item(s) O

- If you need to manage licenses offline, please install and log in to DS cam to operate. See Can I install or delete surveillance device licenses offline? for the complete steps.
- If you wish to migrate licenses to another Synology device, please remove the licenses from the current device and install them on the desired NAS/NVR.

Purchase Licenses

For additional surveillance devices such as IP cameras, I/O modules, AXIS Door Controllers, and transaction devices, extra licenses can be purchased.

For more information, please refer to Surveillance Device License Pack.

Note: Neither the pre-installed licenses nor the surveillance device license pack will ever expire.

CMS



CMS (Central Management System) allows you to set your Synology NAS/NVR as a host server while adding multiple Synology devices as recording servers to form a larger surveillance network. The host server will act as the central interface to monitor cameras managed by other recording servers. You can also add multiple Synology devices as failover servers to maximize the uptime of surveillance services.

Assuming that you are operating the current Synology NAS/NVR as the host server, this chapter explains how to manage servers and migrate cameras.

Operate CMS Servers

Add recording servers

- 1 Click Add > Add Server.
- 2 Enter a Name, and select the Connection type of the recording server.
- 3 According to your connection type, enter the IP address, Port, or QuickConnect ID of the recording server. You can also click the magnifying glass button to search for the Synology products within the same local area network.
- 4 Enter the admin's password.
- 5 Click Test Connection to see if the server has been set up properly, and click Next.

Add 👻 Delete	Edit Ena	able • Lock • Adva	anced 👻		=1
All Status	1		Add Server Wizard		× 5
Vormal	0	Information			
Disabled	1	Name: Connection type:	Recording Server 1 Use IP address or FQDN	•	
Disconnected	0	IP address:	10.17.28.200	Q	
ailed Over	0	Port: User name:	5001 admin	HTTPS	
ncompatible	0	Password:			
Others	0		Test Connection		

- 6 Edit the advanced settings:
 - Failover setting: You can select corresponding failover servers. When you start a manual failover or the recording server encounters abnormalities, CMS will automatically choose a failover server to take over the services of this recording server with its original configuration.
 - Prevent other CMS hosts from pairing with this recording server: This option locks the recording server from the paired CMS host so that it cannot be added by other CMS hosts.
 - **Prevent users on this recording server from making changes to it**: This restricts access to the settings of recording servers by preventing users from performing any operations after login. **admin** or users belonging to the **administrators** group on the recording server will only have access to the **Advanced** page, where they can modify this option afterwards. Users without administrative privileges will not be able to view or modify any settings after login.

7 Click Finish to complete.

	Add Server Wizard	×
Advanced		
∧ Failover Setting		
Select failover server:	All Servers 💌	
 Pairing Settings 		
Prevent other CMS hosts	from pairing with this recording server	
Prevent users on this rec	ording server from making changes to it	t
Previous	Finis	h Cancel

Manage Server Deployment

Once you have successfully added recording servers, they will be listed in the **Recording Server** tab where you can perform actions such as editing, locking, disabling, and deleting to accommodate to your surveillance environment.

Recording Server	Failover S	CMS	? — 🗆 X
Add • Delete	Edit Er	nable • Lock • Advanced •	=1 -
All Status	2	Neil-NVR1218 [NVR1218] - Disabled 10.13.22.233:5000	8.2.0-5715 Cameras: 3 / 12
Normal	1	Recording Server 1 [DS213] - Locked, Protected	8.2.3-5827
Disabled	1	10.17.28.200:5001	Cameras: 2 / 8
Disconnected	0		
Failed Over	0		
Incompatible	0		
Others	0		
		Applications	*

The operation mode of the host server can be modified in the Advanced tab:

- Host server mode: Set Video relay over the Internet automatically as Enable if you may need to access a central management system from a different domain.
- Recording server mode: Tick Prevent users on this recording server from making changes to it so users without administrative privileges will not be able to view or modify any settings after login.
- Failover server mode: All the configurations, recordings, and licenses on this server will be cleared when the server is switched to this mode.

Note: Before switching to the Failover server mode, please back up your data and keep the licence keys secure.

-te	CMS	? — 🗖 X
Recording Server Failover Server	Failover Setting Migration Advanced	
 Pairing Settings 		
Host server mode		
Video relay service over the Internet:	Enable 🔻	
Recording server mode		
Prevent users on this recording serve	er from making changes to it	
Failover server mode		

Camera Migration

Once you have set up a central management system, connected IP cameras from different servers can be migrated to other servers.

To perform camera migration:

- 1 Click Add.
- 2 Drag or use the arrow buttons to move the cameras you wish to migrate from the left panel to the right panel, and click Next. (You can click the **Filter** icon and select a Synology server to help you find your cameras faster.)

1 -6			CMS			
Recording Server	Failover Server	Failover Setting	Migra	tion Advanced		
Add Delete			Mig	ate Wizard		⊟ ×
	Select came	eras to migrat	e			
	All Servers	Y		Cameras to Migrate		
	Search			AXIS - P1365	Local Host	×
	Local Host Recording Serv T' Camera_1 T' Camera_2 *Press and hold the	rer 1 "Shift" or "Ctrl" key for	multiple	selection.	Next	Cancel

3 Select the destination server.

		Migrate Wizard		∎ ×
Se	lect a destination serve	r for camera migr	ation	
	Name	IP Address	Device	Licenses
	Local Host [DS716+]	10.17.53.11	6 / 40	26
۲	Recording Server 1 [DS213]	10.17.28.200	2 / 8	2
Pre	vious		Next	Cancel

- 4 In the **Migration** step, select a storage for future recordings, and determine whether to keep, delete, or move current recordings together with the cameras.
- 5 Click Finish. Migration will start immediately and you will be able to see the progress in the Status column.

	Migrate Wizard	
Migration		
∧ New Recording		
New recording storage:	Surveillance (Volume 1)	
∧ Old Recording		
What would you like to do v	ith the recordings after camera migration?	
Reserve recording files		
Oelete all recording file	s	
 Migrate all recording fil 	es	
 All recordings will be r vary, depending on th 	noved to the server where the migrated camera(s) reside. Migration tim e size of your recordings.	e will

For more information, please refer to the corresponding articles under Surveillance Station Help > CMS.

CMS Failover

To optimize the uptime of surveillance services, you can add failover servers to take over services when a recording server goes out. You can also determine how to fail back the services during the failover status once the recording server resumes working.

Add Failover Servers

1 Go to Main Menu > Application Center to make sure CMS Failover is Running.

K .		Applicat	ion Center			? — = X
Q < >						Manual Install
Running	Running					
Explore	$\overline{\checkmark}$	Archive Vault	4215	Axis ACAP		Axis Door Controller
All		Running		Running		Running
Device Integration		Open		Stop		Open
Retail		CMS Running		CMS Failover Running		Client Management Running
🚖 Education		Open		Stop		Open
Access Control		Device Pack	I/O	I/O module	S	Transactions
Video Analysis		Destant	-	Kunning		Running
		Restore		Open -		Open

- 2 Go to CMS > Failover Server, and click Add > Add Server.
- 3 Enter a Name, and select the Connection type of the recording server.
- 4 According to your connection type, enter the IP address, Port, or QuickConnect ID of the recording server. You can also click the magnifying glass button to search for the Synology products within the same local area network.
- 5 Enter the admin's password.
- 6 Click Test Connection to see if the server has been set up properly.
- 7 Click Finish to complete.

d • Delete Edit	Enable • Advanced •	-	
		Add Server Wizard	×
	Information		
	Name:	Failover Server 1	
	Connection type:	Use IP address or FQDN	•
	IP address:	10.17.48.155	Q
	Port:	5001	HTTPS
	User name:	admin	
	Password:	•••••	
		Test Connection	

Manage Failover Settings

Added failover servers can be managed in the Failover Server tab.

Recording Server	Failover S	CMS Server Failover Setting Migration Advanced	? — E X
Add 👻 Delete	Edit Er	nable - Advanced -	≡↓ -
All Status	1	Failover Server 1 [NVR216] 10.17.48.155:5001	Protected Server: Reason:
Standby	1		
Failed Over	0		
Disabled	0		
Disconnected	0		
Incompatible	0		
Others	0		
			1 item(s) 💽

In the **Failover Setting** tab, you can tick the checkbox to **Enable automatic failover** when conditions listed below are met, set the **Failover Range**, and determine whether to restore the recordings and snapshots taken during the failover status.

Server disconnection duration (minute): 1 Storage status Volume crashed Package status All abnormalities	
Storage status Volume crashed Package status All abnormalities	
✓ Package status All abnormalities	
Inctionality:	
Full	
Full (except recording)	
Failback with the recordings and spanshots taken during the failover 🧿	

For more information, please refer to the corresponding articles under Surveillance Station Help > CMS Failover or see the white paper.

More Features



Surveillance Station also provides various applications to manage and integrate surveillance features such as recording, notification, stream profile and action rules efficiently. This chapter introduces some major features which can be applied universally to help manage your monitoring system.

Home Mode

Settings in Surveillance Station should vary depending on whether or not you are on site. For instance, cameras should record continuously and stop sending notifications when you are present, but once you are away, cameras should record videos by motion detection and resume sending notifications. In **Home Mode**, you can customize recording, notification, stream profile, and action rule settings to meet the needs of various environments.

Activate Home Mode

Home Mode can be activated manually form the **Overview** tab or by geofence location via **DS cam**. Geofence detects whether or not you are on site, and automatically switches to **Home Mode** accordingly.

٥		Hom	e Mode	7	-	×
Overview	∧ Status					
[√] Schedule		Status Enabled by	ON Manual			
Settings		Disabled time				
	∧ Geofenc	e				
		You can turn on G Mode a	eofence in DS cam on your mobile device to switch to Home automatically when entering or leaving a geofence.			

From **Schedule > Recurrence**, you can set up a fixed schedule to enter **Home Mode**, or perform a one-time switch-on from **Schedule > One Time**.

0	Home Mode	-		×
Overview	Recurrence One Time			
[[™]] Schedule	∧ Schedule Settings			
Cottings	You can enable schedule switching if you want to switch to Home Mode according to a fixed schedule.			
i Settings	Enable schedule switching			
	Enter Home Mode 🖉 Leave Home Mode			
	a 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Sun			
	Mon			
	Thu			
	Fri			
	Sat			
	Save	R	eset	

0	Home Mode	? — 🗆 X
Overview	Recurrence One Time	
Schedule	One Time Switch	
	✓ Enter Home Mode 2018/12/31 □ 20 ▼ : 01 ▼	
Settings	✓ Leave Home Mode 2019/01/01 III 07 ▼ : 59 ▼	
		Save Reset

In Settings, you can modify Recording, Notification, Stream Profile, and Action Rule from the corresponding tabs, and select which set of settings to enable and what devices to apply them to.

٥			Home Mode				2 -		×
Coverview	General	Recording	Notification	Stream Profile	Action Rule				
^{dat} . Schedule	You can choo	d Customized	I Settings ed settings to be a	pplied when entering	Home Mode.				
Settings	Enable t Enable t Enable t Enable t Enable t Applied	the setting of rea the setting of no the setting of str the setting of act Devices	cording tification ream profile tion rule						
	The chosen d Cameras: I/O Module:	levices will be a	opplied to "Recordin All Ca Al Ma Re Ca	g", "Notifications", an meras I Cameras one estaurant offee Shop	d "Streaming Profile"	pages.			
						Save		Reset	

For more information, please refer to Surveillance Station Help > Home Mode.

E-Map

E-Map allows you to upload maps of your surroundings to view the location of your surveillance equipment.

To add a map:

- 1 Go to E-Map > List and click Add.
- 2 Enter a Name.
- 3 Click Upload to upload an image file. The image will be displayed when the upload is complete.
- 4 From the left panel, drag the device links you wish to place on the uploaded e-map.
- 5 Tick Hide device name if you wish to hide the name of the items, and Display small icon checkbox to use smaller icons.
- 6 Click OK to apply settings.



Once maps are created, you can click on the thumbnail to open the E-Map Viewer, or click on the device icons to see previews.



You can manage the e-maps from the List tab, or go to Advanced to set your display preferences.

Overview General Recording Notification Stream Profile Action Rule Schedule	 P -	2			Home Mode				6
Schedule Enabled Customized Settings You can choose the customized settings to be applied when entering Home Mode. Settings Settings Enable the setting of recording Enable the setting of notification Enable the setting of action rule Applied Devices The chosen devices will be applied to "Recording", "Notifications", and "Streaming Profile" pages. Cameras: I/O Module: I/O Module: All Cameras None Coffee Shop 			Action Rule	Stream Profile	Notification	Recording	General	Overview	6
Settings Image: Settings Image: Setting setting of the setting of recording Image: Setting setting of setting of action rule Image: Setting setting of setting of action rule Image: Setting setting setting of setting of setting s			lome Mode.	oplied when entering I	Settings ed settings to be a	d Customized	You can choo	Schedule	(1a1)
The chosen devices will be applied to "Recording", "Notifications", and "Streaming Profile" pages. Cameras: All Cameras I/O Module: All Cameras None Restaurant Coffee Shop					ording ification eam profile ion rule	he setting of reco he setting of not he setting of stre he setting of acti Devices	 Enable t Enable t Enable t Enable t Applied 	Settings	Ø
		iges.	"Streaming Profile" pa	", "Notifications", and neras Cameras ne staurant ffee Shop	plied to "Recording All Can All No Re Co	evices will be ap	The chosen d Cameras: I/O Module:		

For more information, please refer to the corresponding articles under Surveillance Station Help > E-Map.

Snapshot

Snapshot allows you to track and edit all the snapshots taken from players (e.g., Live View, Recording, or IP Camera).

To edit a snapshot:

- 1 Go to **Snapshot** > List to select a snapshot, and click Edit. (**Snapshot Editor** can also be launched by clicking the thumbnail shown after the snapshot is taken.)
- 2 Use the icons to edit the snapshot.



3 Click the Save icon to save.

The Advanced tab provides options for you to configure the sorting, naming, display and archive rules of snapshots.

	Snapshot	2 - 5
List Advanced		
∧ Preferences		
Sort snapshot according to:	Video recorded time 🗢	
Name downloaded snapshots according to:	Snapshot taken time	
Add timestamp when downloading snapshots		
Position:	Bottom 👻	
∧ Snapshot Archive		
Limit the snapshot folder size up to (MB)	1000	
Keep the files within (days)		
Snapshot storage:	surveillance (Volume 1) 🔹	

For more information, please refer to the corresponding articles under Surveillance Station Help > Snapshot.

Log

The Log application allows you to view, clear, and download log messages.

From Log > Log, you can select a date and time from the left panel to see the detailed list in the right panel. You can also select logs and use the Clear and Download buttons to manage them.

E			Log		P — 🗖 X
Log Advanced	Archive	Settings	Log Sending		
Clear 🔹 Downloa	ad 👻				≡↓ ▼ Ø Search
All Dates	200	Level	Date & Time	User	Event
> 2019/01/11	6	0	Today 14:33:54	admin	User logged in from [10.17.25.251].
F 2019/01/11	0	0	Today 11:28:07	SYSTEM	Camera [Camera_2] connection was restored.
▶ 2019/01/10	25	8	Today 11:23:55	SYSTEM	Camera [Camera_2] connection was lost.
2019/01/09	15	0	Today 11:16:23	SYSTEM	Surveillance Station is launched.
▶ 2019/01/08	4	0	Today 11:16:20	SYSTEM	Action rule [Rule 2] was enabled.
> 2019/01/07	8	0	Today 11:16:20	SYSTEM	Action rule [Rule 1] was enabled.
F 2013/01/07	0	0	Yesterday 19:03:59	SYSTEM	25 recordings of camera [Camera_2] were delete
▶ 2019/01/04	7	0	Yesterday 19:03:59	SYSTEM	20 recordings of camera [Camera_1] were delete
2019/01/03	5	0	Yesterday 19:03:59	SYSTEM	$\underline{45}$ recordings were deleted as the archive space I
▶ 2019/01/02	2	0	Yesterday 19:03:21	SYSTEM	Surveillance Station is stopped.
> 2018/12/28	5	0	Yesterday 17:51:25	SYSTEM	Camera [Camera_1] was restarted.
> 2018/12/27	5	-		a. (a.e.e	200 item(s)
<pre>> 2019/01/10 > 2019/01/09 > 2019/01/08 > 2019/01/07 > 2019/01/07 > 2019/01/03 > 2019/01/03 > 2019/01/02 > 2018/12/28 > 2018/12/27</pre>	25 15 4 8 7 5 2 5 5		Today 11:28:07 Today 11:23:55 Today 11:16:23 Today 11:16:20 Today 11:16:20 Yesterday 19:03:59 Yesterday 19:03:59 Yesterday 19:03:59 Yesterday 19:03:21 Yesterday 17:51:25	SYSTEM SYSTEM SYSTEM SYSTEM SYSTEM SYSTEM SYSTEM SYSTEM SYSTEM	Camera [Camera_2] connection was restored. Camera [Camera_2] connection was lost. Surveillance Station is launched. Action rule [Rule 2] was enabled. Action rule [Rule 1] was enabled. 25 recordings of camera [Camera_2] were delete 20 recordings of camera [Camera_1] were delete 45 recordings were deleted as the archive space I Surveillance Station is stopped. Camera [Camera_1] was restarted. 200 item(s) C

To determine what events you wish to be written into the logs, go to Log > Advanced and tick the corresponding checkboxes.

E	Log P – E X
Log Advanced Archive Settings Log Sending	
Save	All
Event	Enable
∧ System	
Surveillance Station is launched	
Surveillance Station is stopped	
Log was exported	
Logs were cleared	
License key was added	
License key was deleted	
Email settings were modified	
SMS settings were modified	
Push service settings were changed	
Notification settings were modified	
	133 item(s) 💽

The rotation and archive rules of the logs can be modified in the Archive Settings tab.

Log Advanced Archive Settings Log Sending Rotation Rules 30		Log			7	-	×
 Rotation Rules Keep logs within (days): 30 Limit the log size up to (MB) 200 Limit the log number 100,000 Storage Destination for Archives Destination /volume1/Surveillance Browse Archive logs as text format in addition to default format Compress log archives 	Log Advanced Archive Sett	ings Log Sending					
Keep logs within (days): 30 Imit the log size up to (MB) 200 Imit the log number 100,000 Storage Destination for Archives Destination /volume1/Surveillance Browse Archive logs as text format in addition to default format Compress log archives	∧ Rotation Rules						
Limit the log size up to (MB) 200 Limit the log number Storage Destination for Archives Destination /volume1/Surveillance Browse Archive logs as text format in addition to default format Compress log archives	Keep logs within (days):	30					
Limit the log number 100,000 Storage Destination for Archives Destination /volume1/Surveillance Browse Archive logs as text format in addition to default format Compress log archives	Limit the log size up to (MB)	200					
Storage Destination for Archives Destination /volume1/Surveillance Browse Archive logs as text format in addition to default format Compress log archives	Limit the log number	100,000 👻					
Archive logs as text format in addition to default format Compress log archives	 Storage Destination for Archiv Destination 	/es /volume1/Surveillance	Browse				
Compress log archives	Archive logs as text format in a	ddition to default format					
	Compress log archives						

If you wish to save your logs to a syslog server, go to the Log Sending tab, tick Send logs to a syslog server, and enter the required information.

E		Log	2	-		×
Log Advanced Archi	ve Settings Log Sending					
Send logs to a syslog server						
Server:	10.17.30.200					
Port:	514					
Transfer protocol:	TCP 💌					
Log format:	BSD (RFC 3164) 🔹					
Enable secure connection Import certificate Send test log	n (SSL)					
		Save		Cl	ose	

For more information, please refer to the corresponding articles under Surveillance Station Help > Log.