



# Milesight-Troubleshooting

## VMS Enterprise Event Rules

VMS Version	V1.9.0.0-r2	Update	2023.9.8
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## I . Introduction

Event rules are used to associate events and actions. Milesight VMS Enterprise supports rich events, multiple actions and alarm modes, which you can combine freely and configure as your need. Every event can be set to trigger many kinds of actions at the same time. Also, every event can be set to trigger different actions in different time periods. After configuring the event rules, when an event is detected, it can promptly remind or automatically trigger actions according to your settings. In this case, focusing on events becomes easier and you won't miss the events you care about.

By default, some rules have been automatically created for you in the system. These rules are used to notify the abnormalities that may occur in the system. If an event is detected, you will receive a notification in the Notifications panel. It is strongly recommended to keep them. You can also adjust them as needed.

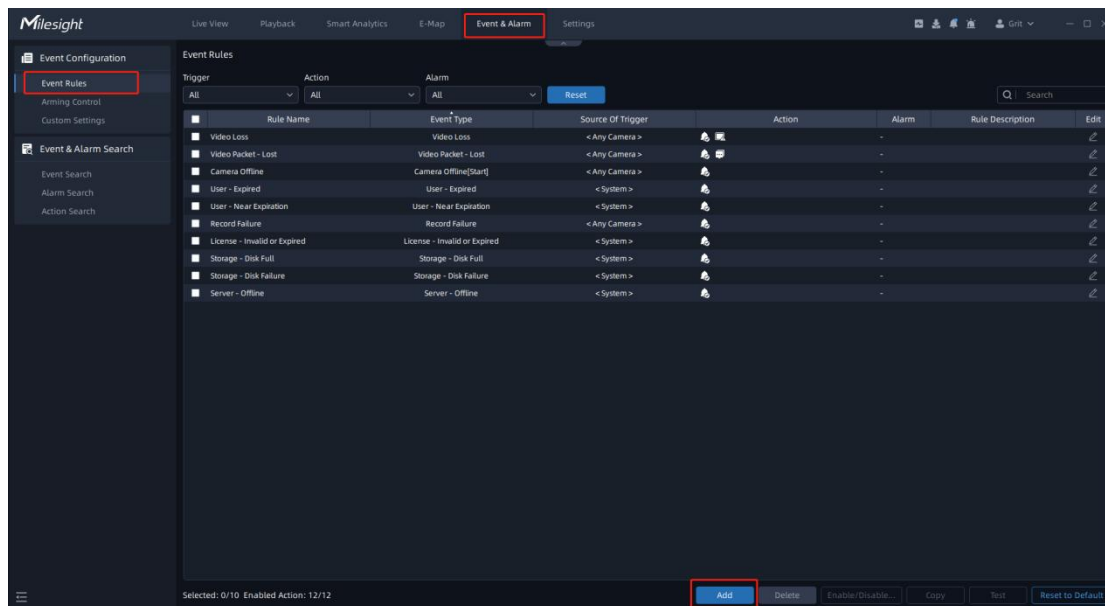
Rule Name	Event Type	Source Of Trigger	Action	Alarm	Rule Description	Edit
Video Loss	Video Loss	< Any Camera >		-		
Video Packet - Lost	Video Packet - Lost	< Any Camera >		-		
Camera Offline	Camera Offline[Start]	< Any Camera >		-		
User - Expired	User - Expired	< System >		-		
User - Near Expiration	User - Near Expiration	< System >		-		
Record Failure	Record Failure	< Any Camera >		-		
License - Invalid or Expired	License - Invalid or Expired	< System >		-		
Storage - Disk Full	Storage - Disk Full	< System >		-		
Storage - Disk Failure	Storage - Disk Failure	< System >		-		
Server - Offline	Server - Offline	< System >		-		

## II . How to set an event rule

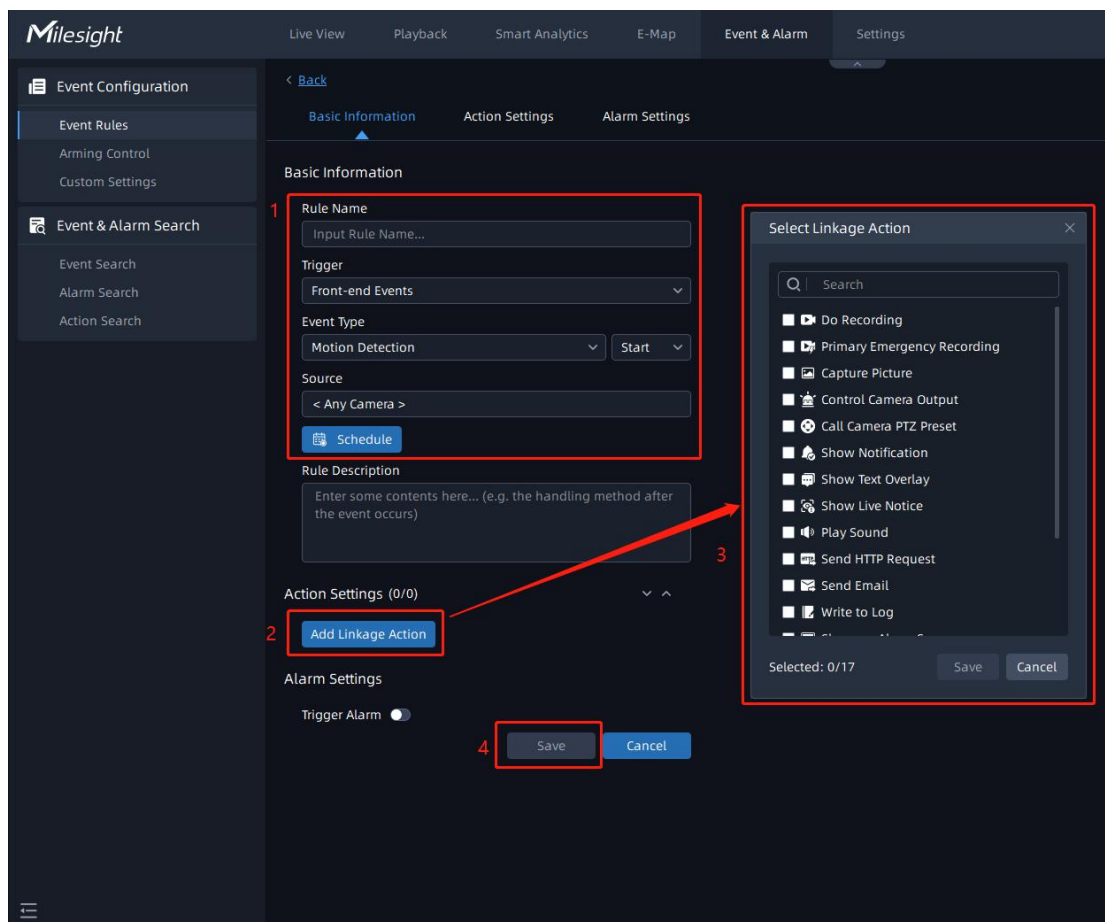
If you're not an owner or administration, make sure you have permission for event rule settings.

### 2.1 Add an event rule

**Step 1:** Go to “Event & Alarm” -> “Event Configuration” -> “Event Rules”.



**Step 2:** Click “Add”. Set trigger, schedule and action, then click “Save”.

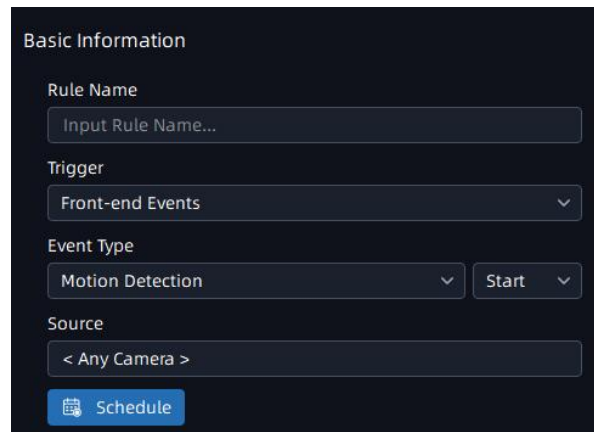


There are many kinds of events and actions. Different events or actions have corresponding settings. Here you can check the below table to know more about them.

- **Trigger**

Parameter	Function Introduction
	<b>Front-end Motion Detection:</b> When cameras detect object motion, the

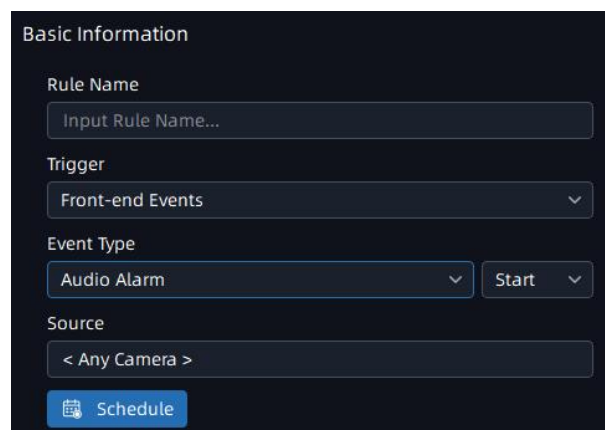
event will be triggered. The event trigger has two statuses including Start and Stop, you can set different camera sources and schedules for different states. The page is as below:



The screenshot shows a 'Basic Information' form for configuring an event trigger. It includes a 'Rule Name' text input field with the placeholder 'Input Rule Name...'. Below it is a 'Trigger' dropdown menu set to 'Front-end Events'. The 'Event Type' section has a dropdown menu set to 'Motion Detection' and a 'Start' status dropdown. The 'Source' section has a dropdown menu set to '< Any Camera >'. At the bottom is a blue 'Schedule' button with a calendar icon.

**Note:** Enable the Motion Detection of Milesight camera before using the function.

**Front-end Audio Alarm:** The event trigger setting page is the same as the Front-end Motion Detection setting page.



The screenshot shows a 'Basic Information' form for configuring an event trigger. It includes a 'Rule Name' text input field with the placeholder 'Input Rule Name...'. Below it is a 'Trigger' dropdown menu set to 'Front-end Events'. The 'Event Type' section has a dropdown menu set to 'Audio Alarm' and a 'Start' status dropdown. The 'Source' section has a dropdown menu set to '< Any Camera >'. At the bottom is a blue 'Schedule' button with a calendar icon.

**Note:** Enable the Audio Alarm of Milesight camera before using the function.

**Front-end External Input Alarm:** The event trigger page is as below. If the selected camera has multiple alarm interfaces, you can choose a type of Input ID. The default Input ID is Auto Detect.

## Front-end Events

### Basic Information

Rule Name

Input Rule Name...

Trigger

Front-end Events

Event Type

External Input Alarm

Start

Source

< Any Camera >

Input ID

Auto Detect

Schedule

**Note:** Enable the External Input Alarm of Milesight camera before using the function.

**Front-end VCA:** You can set different camera sources, schedules and VCA event types here. The page is as below:

### Basic Information

Rule Name

Input Rule Name...

Trigger

Front-end Events

Event Type

VCA - Region Entrance

VCA - Region Entrance

VCA - Region Exiting

VCA - Advanced Motion Detection

VCA - Tamper Detection

VCA - Line Crossing

VCA - Loitering

VCA - Human Detection

VCA - Object Left

VCA - Object Removed

**Note:** Enable the VCA event of Milesight camera before using the function.

**People Counting:** Here you can set the trigger rule of two modes, including People Counting and Regional People Counting. When the number of people detected exceeds the threshold you set, the event will be triggered. The page is as below:

## Basic Information

Rule Name

Input Rule Name...

Trigger

Front-end Events

Event Type

People Counting

Source

&lt; Any Camera &gt;

Thresholds

- ☐ In 9999
- ☐ Out 9999
- ☐ Capacity 9999
- ☐ Sum 9999

☒ Only when crossing the threshold.

Schedule

## Basic Information

Rule Name

Input Rule Name...

Trigger

Front-end Events

Event Type

People Counting - Regional

Source

&lt; Any Camera &gt;

Thresholds

- ☐ Region 1 >
- ☐ Region 2 >
- ☐ Region 3 >
- ☐ Region 4 >

☒ Only when crossing the threshold.

Schedule


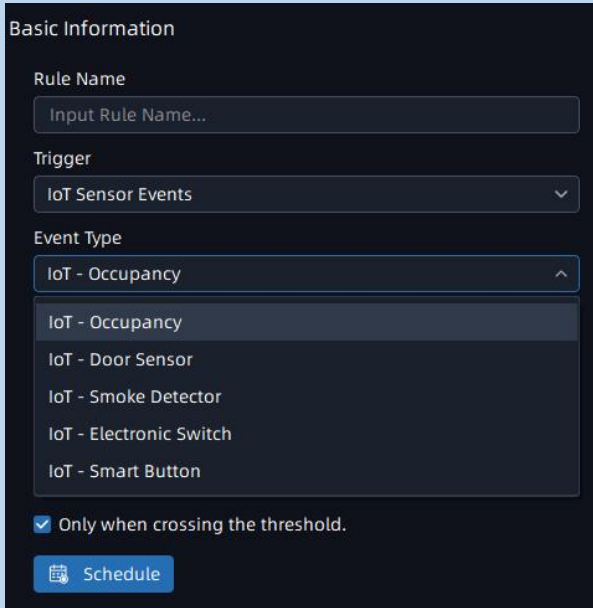
**Note:**

- Enable the People Counting event of Milesight camera before using the function.
- Here you can enable the option in the image below, the alarm will only be triggered if the threshold is exceeded, otherwise it will be triggered every time the value changes.

☒ Only when crossing the threshold.

**Analytics:** Here you can set Smart Analytics Events trigger rule of five modes, including Motion Detection, Region Entrance, Region Exiting, Line Crossing and Loitering. You can set different camera sources and schedules here. The page is as below:

<p>Smart Analytics Events</p>	<div data-bbox="571 210 1182 837"><p>Basic Information</p><p>Rule Name</p><input type="text" value="Input Rule Name..."/><p>Trigger</p><p>Smart Analytics Events</p><p>Event Type</p><p>Analytics - Motion Detection</p><p>Analytics - Motion Detection</p><p>Analytics - Region Entrance</p><p>Analytics - Region Exiting</p><p>Analytics - Line Crossing</p><p>Analytics - Loitering</p><p>Analytics - Group People Counting</p><p>Analytics - Cross Line People Counting</p><p>Analytics - Regional People Counting</p></div> <p><b>ANPR:</b> Here you can set ANPR trigger rule of five modes, including Vehicle Detection, Visitor Detection, Speed Detection, Congestion Detection and Retrograde Detection.</p> <p>The VMS system will trigger alarm actions according to the configuration rules. The page is as below:</p> <div data-bbox="571 1079 1177 1635"><p>Basic Information</p><p>Rule Name</p><input type="text" value="Input Rule Name..."/><p>Trigger</p><p>Smart Analytics Events</p><p>Event Type</p><p>Analytics - Motion Detection</p><p>Analytics - Group People Counting</p><p>Analytics - Cross Line People Counting</p><p>Analytics - Regional People Counting</p><p>ANPR - Vehicle Detection</p><p>ANPR - Visitor Detection</p><p>ANPR - Speed Detection</p><p>ANPR - Congestion Detection</p><p>ANPR - Retrograde Detection</p></div>
<p>AI Box Analytics Events</p>	<p><b>Behavior - Fall Detection:</b> You can set Fall Detection trigger rule for selected cameras. Once the selected cameras detect Fall Detection, the event rule will be triggered. Here is a video about Fall Detection: <a href="https://www.youtube.com/watch?v=g8pWlm4tuLI">https://www.youtube.com/watch?v=g8pWlm4tuLI</a></p> <p>The page is as below:</p>

	
IOT Sensor Events	<p>Here you can set IoT Sensor Events trigger rule of five modes, including Occupancy, Door Sensor, Smoke Detector, Electronic Switch and Smart Button. You can set different sensor sources and schedules here. Here is a video about integration between our VMS Enterprise and Milesight IoT gateways and sensors.</p> <p><a href="https://www.youtube.com/watch?v=MkjlRm_xdfE">https://www.youtube.com/watch?v=MkjlRm_xdfE</a></p> <p>The page is as below:</p> 
	<p><b>Video Loss:</b> You can set Video Loss trigger rule for selected cameras. Once the selected cameras are disconnected beyond the set time, the event rule will be triggered.</p>



## Connection Issue

## Basic Information

Rule Name

Input Rule Name...

Trigger

Connection Issue

Event Type

Video Loss

Trigger Condition ⓘ


☐ Instant☒ Last for

10

second(s)

Source

&lt; Any Camera &gt;

 Schedule

**Video Packet:** Here you set the event rule as Video Packet Lost or Video Packet Resume.

## Basic Information

Rule Name

Input Rule Name...

Trigger

Connection Issue

Event Type

Video Packet - Lost

Trigger Condition ⓘ


☐ Instant☒ Last for

10

second(s)

Source

&lt; Any Camera &gt;

 Schedule

## Basic Information

Rule Name

Input Rule Name...

Trigger


Connection Issue

Event Type

Video Packet - Resumed

Source

&lt; Any Camera &gt;

 Schedule

The Video Packet Lost event will be triggered if the VMS system detects the video packet is lost for more than the set time.

	<p>The Video Packet Resumed event will be triggered if the VMS system detects the video packet is resumed in the last 1 minute.</p> <p><b>Camera Offline:</b> It will trigger an alarm whether the camera is offline or online.</p> <div><div>Basic Information</div><div><div>Rule Name</div><div>Input Rule Name...</div></div><div><div>Trigger</div><div>Connection Issue</div></div><div><div>Event Type</div><div>Camera Offline</div><div>Start</div></div><div><div>Source</div><div>&lt; Any Camera &gt;</div></div><div><div>Schedule</div></div></div>
System Events	<p><b>Export/Backup Finished:</b> After setting the event rule, the event is triggered when the VMS system finishes data backup or export, like recording video export, system and server configuration export, etc. The page is as below:</p> <div><div>Basic Information</div><div><div>Rule Name</div><div>Input Rule Name...</div></div><div><div>Trigger</div><div>System Events</div></div><div><div>Event Type</div><div>Export/Backup Finished</div></div><div><div>Schedule</div></div></div>
	<p><b>User Issue:</b> Here You can set five types of User trigger rule, including Expired, Near Expiration, Login Succeeded, Login Failed and Logout. The page is as below:</p> <div><div>Basic Information</div><div><div>Rule Name</div><div>Input Rule Name...</div></div><div><div>Trigger</div><div>System Events</div></div><div><div>Event Type</div><div>User - Expired</div><div>Export/Backup Finished</div><div>User - Expired</div><div>User - Near Expiration</div><div>User - Login Succeeded</div><div>User - Login Failed</div><div>User - Logout</div></div></div>
	<p><b>Record Failure:</b> You can set a schedule for the selected cameras, if the</p>

selected cameras record fails, then the event will be triggered.

The screenshot shows the 'Basic Information' section of a rule configuration interface. It includes a 'Rule Name' text input field with the placeholder 'Input Rule Name...'. Below it is a 'Trigger' dropdown menu set to 'Server Events'. The 'Event Type' dropdown menu is set to 'Record Failure'. The 'Source' dropdown menu is set to '< Any Camera >'. At the bottom of the form is a blue 'Schedule' button with a calendar icon.

**License Issue:** You can set three types of License Issue trigger rules, including Invalid, Expired and Near Expiration. You can set duration for Near Expiration Date if your license is close to expiring, then the event will be triggered duration days before Expiration Date.

The screenshot shows the 'Basic Information' section of a rule configuration interface. It includes a 'Rule Name' text input field with the placeholder 'Input Rule Name...'. Below it is a 'Trigger' dropdown menu set to 'Server Events'. The 'Event Type' dropdown menu is set to 'License - Invalid or Expired'. Below this, a list of options is shown, with 'License - Invalid or Expired' and 'License - Near Expiration' highlighted by a red box.

**Storage Issue:** After setting the event rule, the event will be triggered if the VMS system detects Storage Issue. There are three types of Storage Issue, including Disk Full, Disk Load too High and Disk Failure.

The screenshot shows the 'Basic Information' section of a rule configuration interface. It includes a 'Rule Name' text input field with the placeholder 'Input Rule Name...'. Below it is a 'Trigger' dropdown menu set to 'Server Events'. The 'Event Type' dropdown menu is set to 'Storage - Disk Full'. Below this, a list of options is shown, with 'Storage - Disk Full', 'Storage - Disk Load Too High', and 'Storage - Disk Failure' highlighted by a red box.

**Note:** In the settings of the Disk Full event, the user can choose to

## Server Events

mute the alarm when the storage recycle is enabled.

Basic Information

Rule Name  
Input Rule Name...

Trigger  
Server Events

Event Type  
Storage - Disk Full

☒ Ignore when Storage Recycle is enabled

Schedule

**Server Issue:** After setting the event rule, the event is triggered if a certain server is started, offline or conflict in the VMS system. The page is as below:

Basic Information

Rule Name  
Input Rule Name...

Trigger  
Server Events

Event Type  
Server - Start

License - Invalid or Expired  
License - Near Expiration  
Storage - Disk Full  
Storage - Disk Load Too High  
Storage - Disk Failure  
Server - Start  
Server - Offline  
Server - Conflict  
Failover - Start  
Failover - Stop

**Failover:** After setting the event rules, the event will be triggered if the VMS system detects Failover Start Working or Stop Working after Server Recovery.

	<div><div>Basic Information</div><div>Rule Name</div><div>Input Rule Name...</div><div>Trigger</div><div>Server Events</div><div>Event Type</div><div>Failover - Start</div><div>License - Invalid or Expired</div><div>License - Near Expiration</div><div>Storage - Disk Full</div><div>Storage - Disk Load Too High</div><div>Storage - Disk Failure</div><div>Server - Start</div><div>Server - Offline</div><div>Server - Conflict</div><div>Failover - Start</div><div>Failover - Stop</div></div>
HTTP Event	<p><b>HTTP Event:</b> After setting the event rules, the HTTP event will be triggered only if there are matches in the 'Caption', 'Source', or 'Description' with any of the entered keywords if the VMS system receives an HTTP push from external devices. The page is as below:</p> <div><div>Basic Information</div><div>Rule Name</div><div>Input Rule Name...</div><div>Trigger</div><div>HTTP Event</div><div>Event Type</div><div>HTTP Event</div><div>Source Contains ⓘ</div><div>Keywords separated by comma</div><div>Caption Contains ⓘ</div><div>Keywords separated by comma</div><div>Description Contains ⓘ</div><div>Keywords separated by comma</div><div>Schedule</div></div> <p><b>Note:</b> If the field is empty, event will always be triggered.</p>
	<p><b>Client Trigger:</b> Here you can set an trigger icon, users who will be available to use this trigger, remark and trigger schedule for selected cameras. The page is as below:</p>

## Client Trigger

**Basic Information**

Rule Name

Trigger

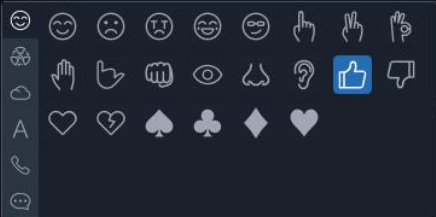
Event Type

Source

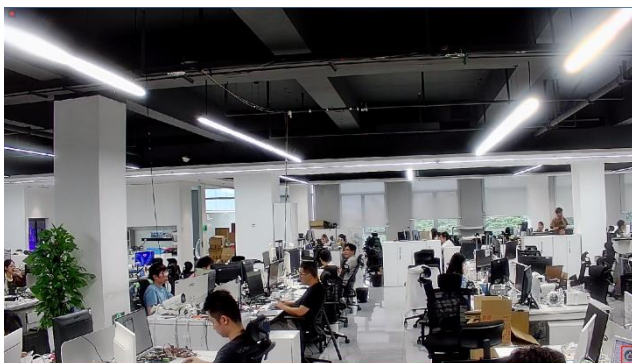
For Users

Remark

Icon



After setting the rule, selected users can see the trigger rule icon and remark in live view window of selected cameras.



An event occurs when you click the icon.

- **Action**

Action	Description
	<p>When the Event Trigger is set to HTTP Event or Client Trigger, it supports triggering "Add Tag" to the recording. The page is as below:</p> <p>①HTTP Event:</p>

## Add Tag

### Basic Information

Rule Name  
Input Rule Name...

**Trigger**  
HTTP Event

Event Type  
HTTP Event

Source Contains ⓘ  
Keywords separated by comma

Caption Contains ⓘ  
Keywords separated by comma

Description Contains ⓘ  
Keywords separated by comma

Schedule

Rule Description  
Enter some contents here... (e.g. the handling method after the event occurs)

### Action Settings (1/1)

Add Linkage Action

Add Tag ☒

Target  
< No Camera Selected >

Action Interval  
☒ Instant ☐ Customize

Pre Duration  
5 second(s)

Duration  
10 second(s)

Post Duration  
0 second(s)

Recording must be enabled on the target cameras for tags to be added.

## ② Client Trigger:

### Basic Information

Rule Name

Trigger  

Client Trigger

Event Type  

Client Trigger

Source  

< Any Camera >

For Users  

< Any User >

Remark  

Nickname for Trigger

Icon

[Schedule](#)

Rule Description  

Enter some contents here... (e.g. the handling method after the event occurs)

### Action Settings (1/1)

[Add Linkage Action](#)

Add Tag ☒

Target  
☒ Source Camera ☒ One-to-one

Pre Duration  

5second(s)

Duration  

10second(s)

Post Duration  

0second(s)

Recording must be enabled on the target cameras for tags to be added.

**Target:** You can check “Source Camera” or select cameras as needed. If you check “Source Camera”, the target cameras are the same as you select in “Source”. If you check “One-to-one”, only the camera that has an event will be triggered to do an action.

**Action Interval:** The time interval of triggering action.

**Pre Duration:** How long in advance to start adding tags.

**Duration:** The duration of adding a tag, within 1~3600s.

**Post Duration:** How long to end adding a tag after the duration.

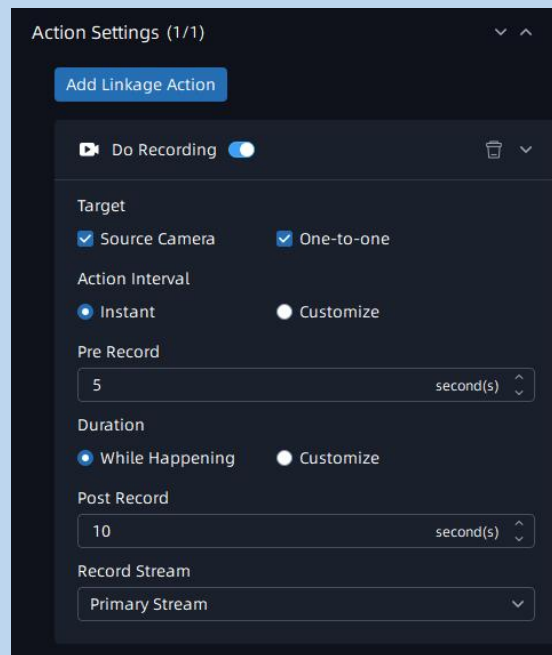
Then users can see the tag on the timeline as shown below.





When an event is detected, it will trigger the cameras to record. You can view the recordings in Playback interface. The page is as below:

#### Do recording



**Target:** You can check “Source Camera” or select cameras as needed. If you check “Source Camera”, the target cameras are the same as you select in “Source”. If you check “One-to-one”, only the camera that has an event will be triggered to do an action.

**Action Interval:** The time interval of triggering action.

**Pre Record:** How long in advance to start recording.

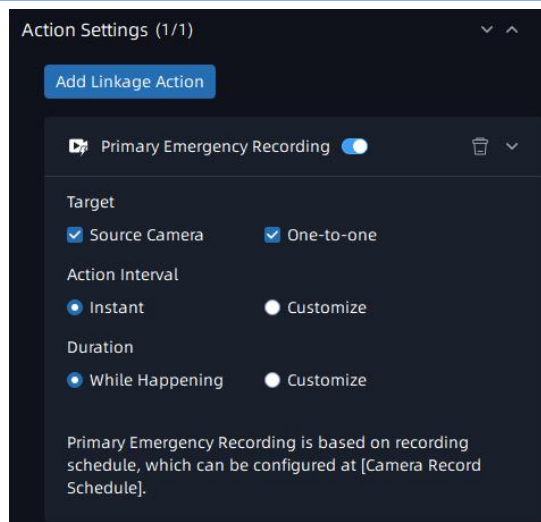
**Duration:** The duration of the recording. If you select “While Happening”, trigger actions from the occurrence of the event until the end of the event. If you select “Customize”, you can customize the duration of the trigger action.

**Post Record:** How long to end the recording after the duration.

**Record Stream:** Type of recording stream.

When an event is detected, it will trigger the cameras to record the primary stream. The page is as below:

### Primary Emergency Recording



**Target:** You can check “Source Camera” or select cameras as needed. If you check “Source Camera”, the target cameras are the same as you select in “Source”. If you check “One-to-one”, only the camera that has an event will be triggered to do an action.

**Action Interval:** The time interval of triggering action.

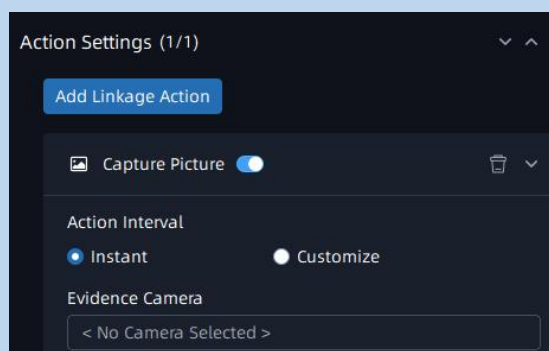
**Duration:** The duration of the recording. If you select “While Happening”, trigger actions from the occurrence of the event until the end of the event. If you select “Customize”, you can customize the duration of the trigger action.

**Description of Rule:** Any description as your need.

**Note:**

1. This is based on recording schedule, so continuous recording needs to be enabled. You can set it in “Settings” -> “Devices” -> “Camera Record Schedule”.
2. The targeted devices that are recording the primary stream video still continue to record primary stream video when related event is triggered.

### Capture Picture



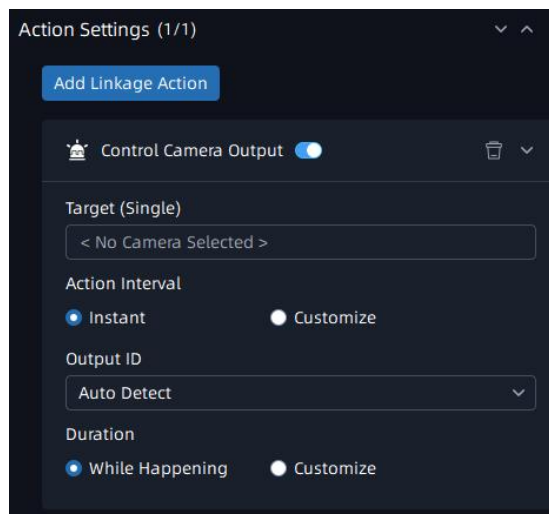
**Action Interval:** The time interval of triggering action.

**Evidence Camera:** Within 2 evidence cameras are supported.

**Note:** Within 2 evidence cameras are supported.

## Control Camera Output

After setting the action rule, the current output status of selected target camera will change to another status according to the action setting when the corresponding event is triggered. The page is as below:



**Target (Single):** Only one targeted camera can be selected. If you want more cameras to perform the action, and you can copy the event rule to configure separately.

**Action Interval:** The time interval of triggering action.

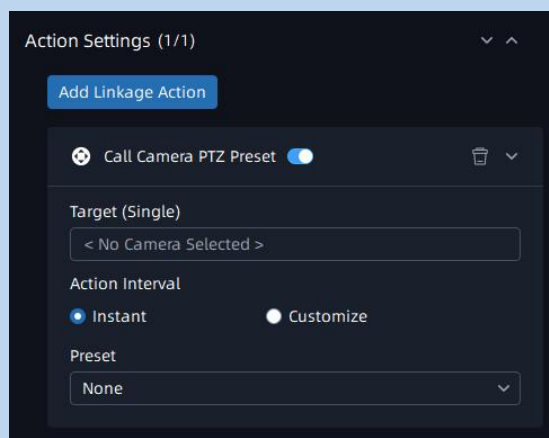
**Output ID:** Select specific output interface or “Auto Detect”. If you select “Auto Detect”, system will detect output interface automatically.

**Duration:** The duration of the camera output status change. If you select “While Happening”, trigger actions from the occurrence of the event until the end of the event. If you select “Customize”, you can customize the duration of the trigger action.

**Note:** Only one targeted camera can be selected. If you want more cameras to perform the action, and you can copy the event rule to configure it separately.

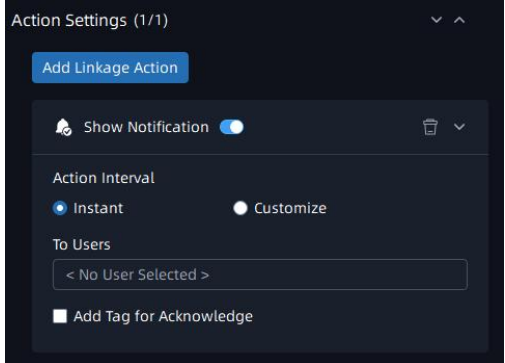
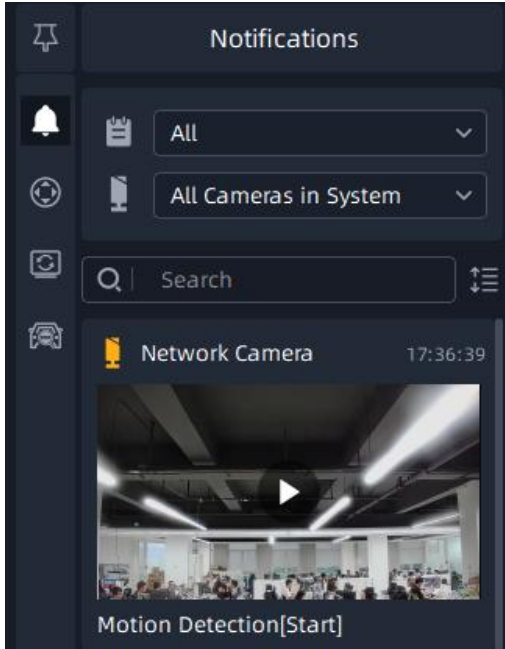
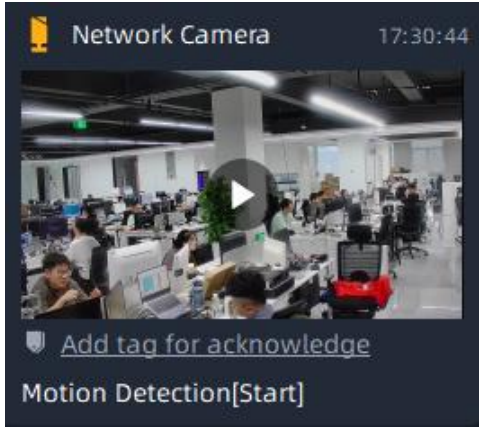
## Call Camera PTZ Preset

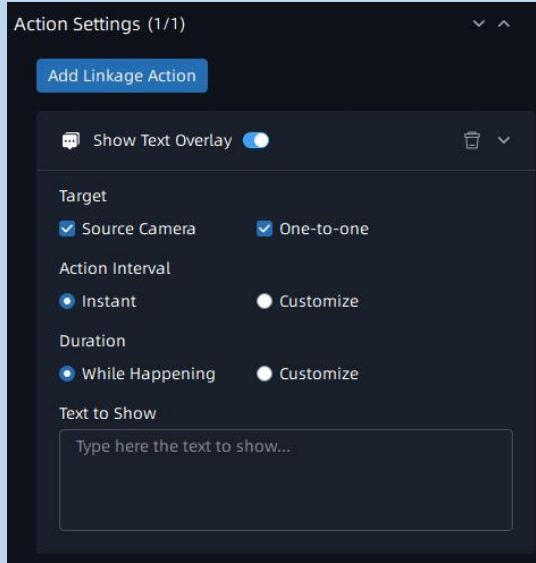
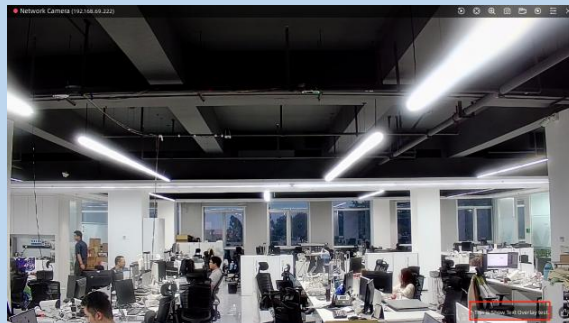
When an event is detected, it will trigger the cameras to call their PTZ Preset. The page is as below:

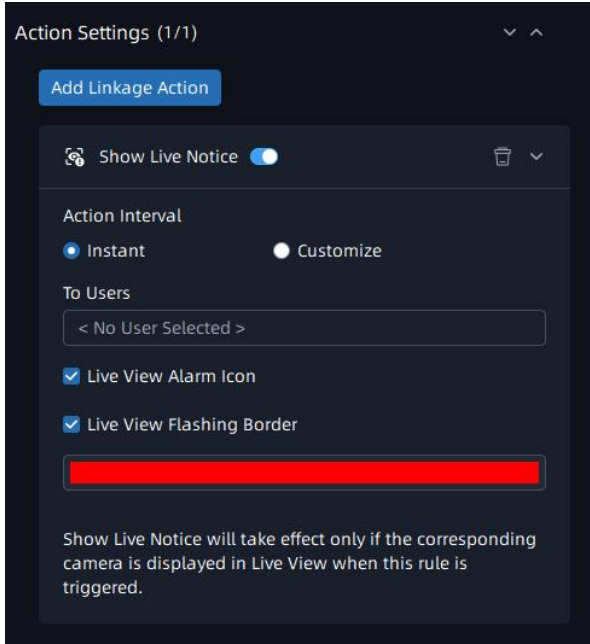
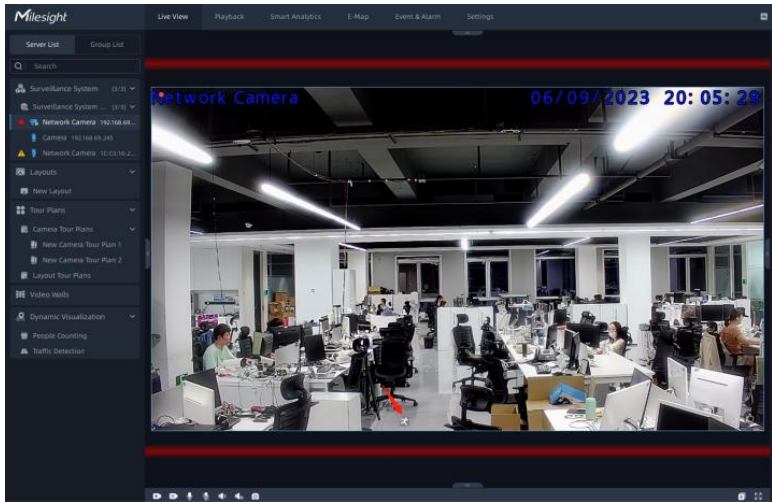



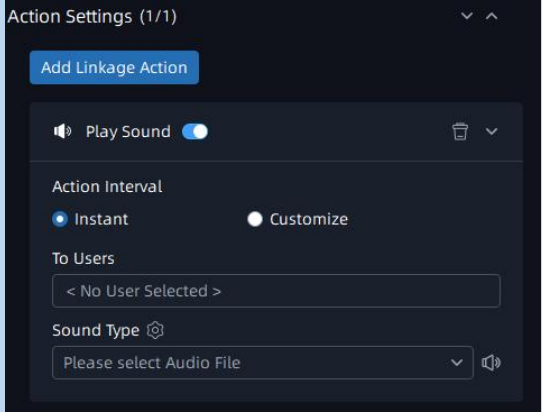

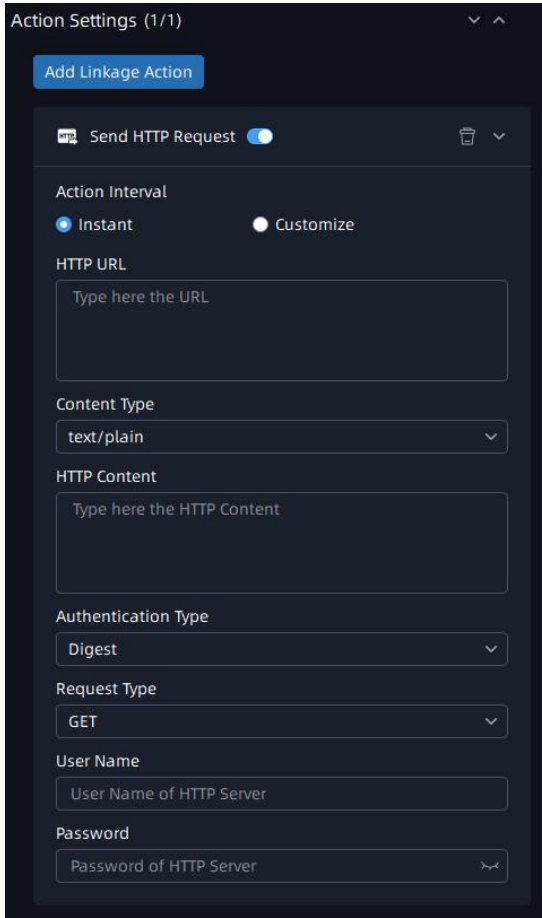
**Target (Single):** Select cameras as needed

**Action Interval:** The time interval of triggering action.

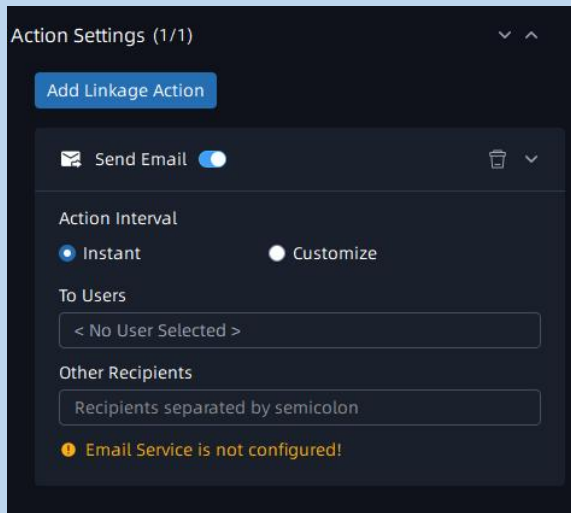
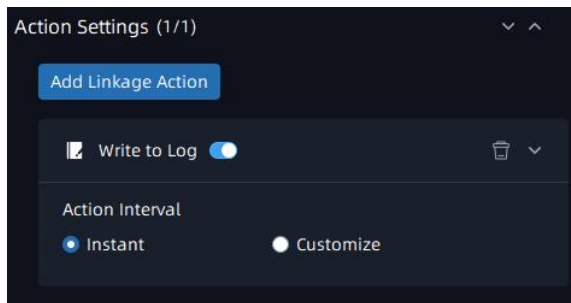
	<p><b>Preset:</b> Select a preset to be called.</p> <p><b>Note:</b> The default target cameras only display the devices which can support PTZ function.</p>
Show Notification	<p>When an event is detected, it will trigger to show notification in Notifications panel. The page is as below:</p>   <p><b>Action Interval:</b> The time interval of triggering action</p> <p><b>To Users:</b> Select users in the system who will see the notification. You can click “Add tag for Acknowledgement” to tag this video.</p> 

	<p><b>Note:</b> Selected users must set to receive the notification in the Notification Filter, and then can see the event notification in the notifications panel.</p>
<p><b>Show Text Overlay</b></p>	<p>When an event is detected, it will trigger to show specific text in live view of the cameras. The page is as below:</p>   <p><b>Target:</b> You can check “Source Camera” or select cameras as needed. If you check “Source Camera”, the target cameras are the same as you select in “Source”. If you check “One-to-one”, only the camera that has an event will be triggered to do an action.</p> <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>Duration:</b> The duration of the text display. If you select “While Happening”, trigger actions from the occurrence of the event until the end of the event. If you select “Customize”, you can customize the duration of the trigger action.</p> <p><b>Text to Show:</b> Type the text that you want to show.</p>
<p><b>Show Live Notice</b></p>	<p>Once the event is triggered, it will flash a frame and show the alarm icon on the Live View interface according to the setting, making monitoring more intuitive and efficient. The page is as below:</p>

	  <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>To Users:</b> Select users in the system who will see the notification.</p> <p><b>Live View Alarm Icon:</b> Enable it to show the alarm icon  on the Live View interface once the event is triggered.</p> <p><b>Live View Flashing Border:</b> Enable it to flash a frame on the Live View interface once the event is triggered.</p>
Play Sound	When an event is detected, it will trigger to play specific sound. The page is as below:

	<div data-bbox="571 197 1114 607">The screenshot shows the 'Action Settings (1/1)' dialog for the 'Play Sound' action. It includes a toggle for 'Play Sound', an 'Add Linkage Action' button, and options for 'Action Interval' (Instant or Customize), 'To Users' (a dropdown menu), and 'Sound Type' (a dropdown menu with a speaker icon for audio preview).</div> <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>To Users:</b> Select users in the system who will see the notification</p> <p><b>Sound Type:</b> Select sound file as needed. You can click  to listen to the selected sound file.</p> <p><b>Note:</b> The user can upload 32 audio files at most.</p>
<p><b>Send HTTP Request</b></p>	<p>After setting the action rule, the VMS system will send HTTP Request to the URL filled in the box when the corresponding event is triggered. The page is as below:</p> <div data-bbox="571 1003 1114 1917">The screenshot shows the 'Action Settings (1/1)' dialog for the 'Send HTTP Request' action. It includes a toggle for 'Send HTTP Request', an 'Add Linkage Action' button, and options for 'Action Interval' (Instant or Customize), 'HTTP URL' (a text input field), 'Content Type' (a dropdown menu), 'HTTP Content' (a text input field), 'Authentication Type' (a dropdown menu), 'Request Type' (a dropdown menu), 'User Name' (a text input field), and 'Password' (a text input field).</div> <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>HTTP URL:</b> The address to receive the message like http(s)://.....</p>

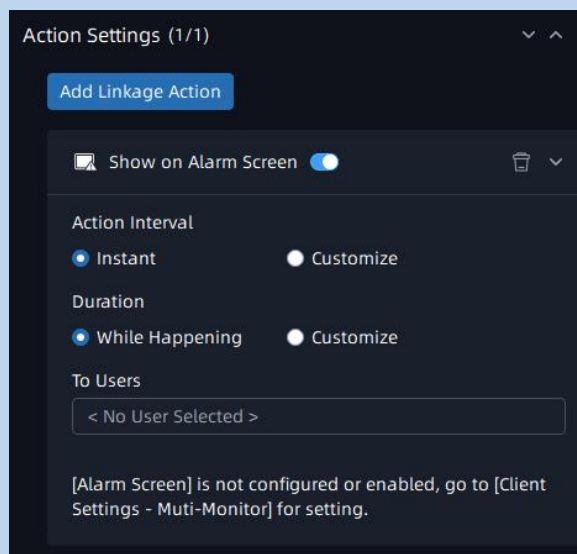


	<p><b>Content Type:</b> Including test/plain, test/html, application/html, application/json, application/xml.</p> <p><b>HTTP Content:</b> The HTTP request content.</p> <p><b>Authentication Type:</b> Including Digest/None/Baic.</p> <p><b>Request Type:</b> Including GET/POST/PUT/DELETE.</p> <p><b>User Name:</b> User name of the server that receives the request.</p> <p><b>Password:</b> Password of the server that receives the request.</p> <p><b>Note:</b> The HTTP URL format can be customized, for example: http://{ip}:{port}/api/httpEvent?xxxxxx</p>
Send Email	<p>After setting the action rule, the VMS system will send the event emails including trigger, event source and time, etc., to the selected users and other recipients which you set when the corresponded event is triggered. The page is as below:</p>  <p><b>Action Interval:</b> The time interval of triggering action</p> <p><b>To Users:</b> Select users in the system who will receive the email</p> <p><b>Note:</b> User's email needs to be configured. You can set it in "Settings" -&gt; "System&amp;Servers" -&gt; "User Settings".</p> <p><b>Other Recipients:</b> Type other recipients. Multiple recipients are separated by semicolon.</p>
Write to Log	<p>After setting the action rule, the VMS system will write the information about event to event logs when the corresponding event is triggered. The page is as below:</p>  <p><b>Action Interval:</b> The time interval of triggering action.</p>



## Show on Alarm Screen

After setting the action rule, the VMS system will push the live view of camera to display on Alarm Screen while action is triggered. The page is as below:



**Action Interval:** The time interval of triggering action.

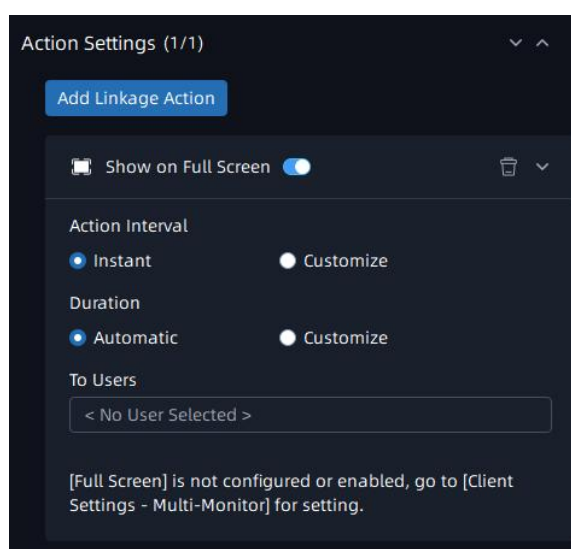
**Duration:** The duration of displaying on alarm screen. If you select “While Happening”, trigger actions from the occurrence of the event until the end of the event. If you select “Customize”, you can customize the duration of the trigger action.

**To Users:** Select users in the system who will see this action.

**Note:** Alarm Screen needs to be configured, you can set it in “Settings” -> “Client Settings” -> “Multi-Monitor”.

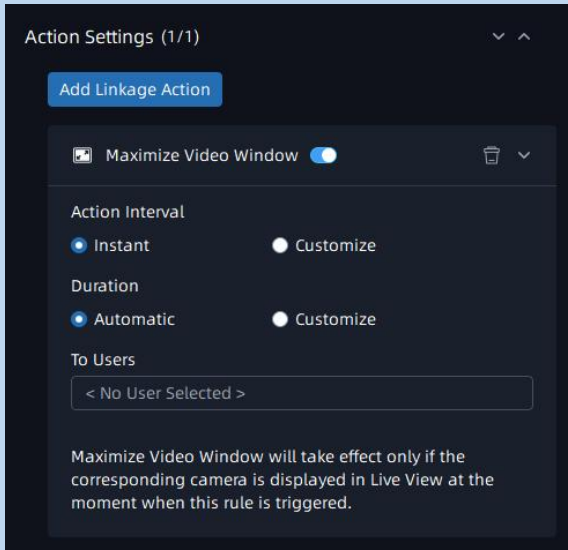
## Show on Full Screen

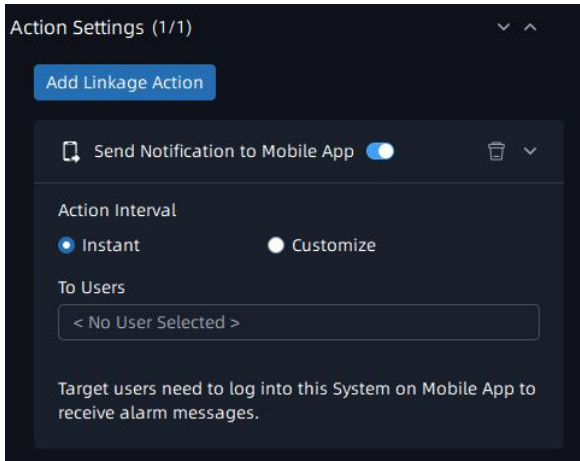
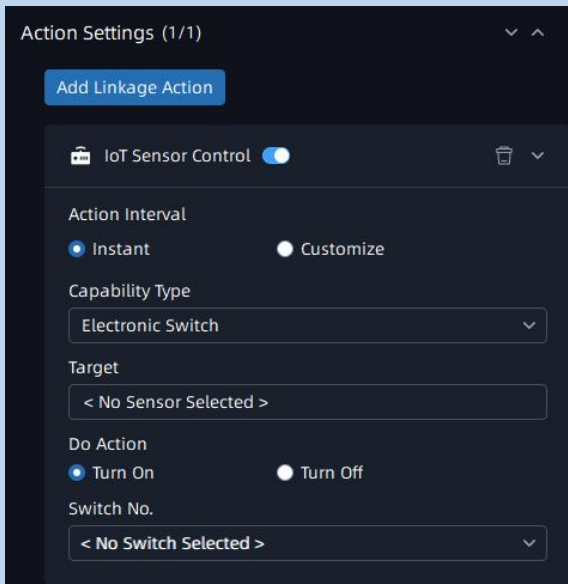
After setting the action rule, the VMS system will push the live view of camera to display on Full Screen while action is triggered. The page is as below:



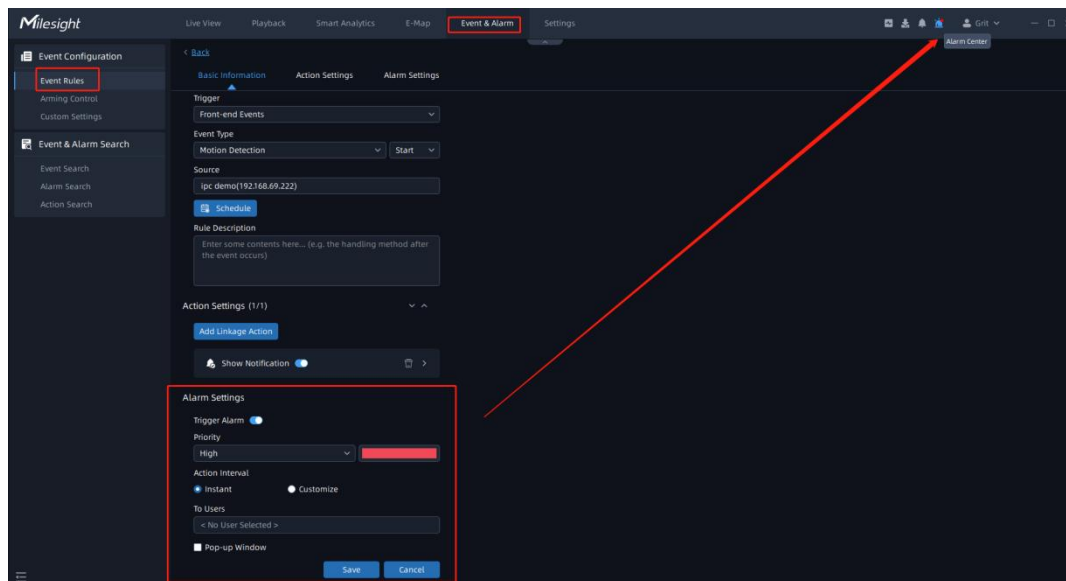
**Action Interval:** The time interval of triggering action.

**Duration:** The duration of displaying on full screen. Only one channel will

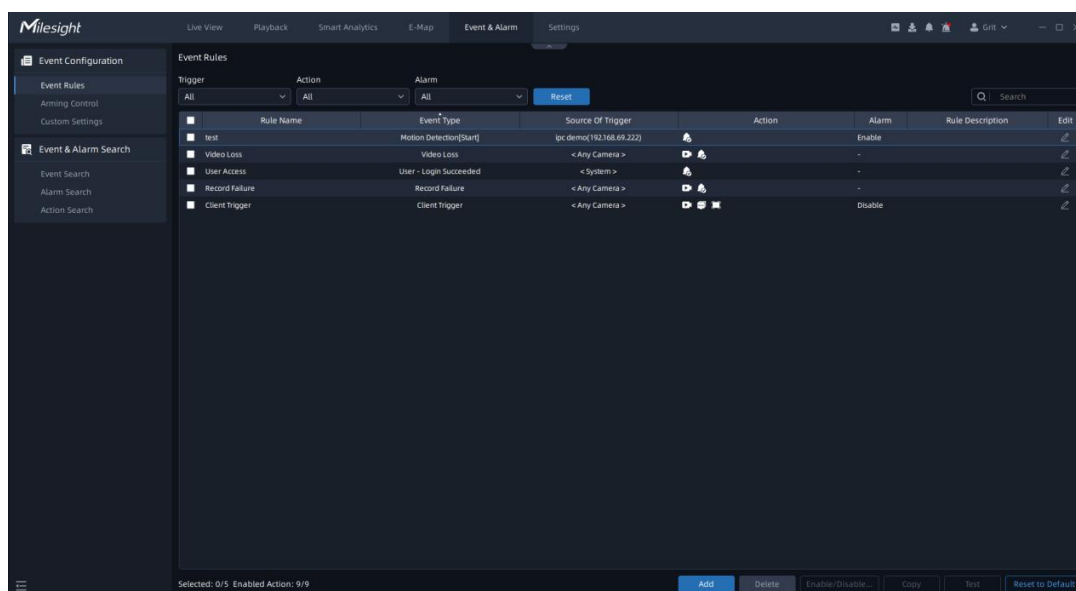
	<p>be displayed on full screen at a time. When you select “Automatic”, as long as a new channel triggers this action, its live view will be pushed to display on full screen. When you select “Customize”, new channel will be pushed to display on full screen only after the previous channel that triggered the action ends.</p> <p><b>To Users:</b> Select users in the system who will see this action.</p> <p><b>Note:</b> Alarm Screen needs to be configured, you can set it in “Settings” -&gt; “Client Settings” -&gt; “Multi-Monitor”.</p>
Maximize Video Window	<p>After the action rule is set, the VMS system will maximize the live view of camera on the current video window while action is triggered. The page is as below:</p>  <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>Duration:</b> The duration of full screen display. When you select “Customize”, if you check “Exit when duration ends”, the full screen will be automatically exited after the set duration is reached, otherwise the full screen will continue to be maintained.</p> <p><b>To Users:</b> Select users in the system who will see this action.</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>1. Maximize Video Window will take effect only if the corresponding camera is displayed in Live View at the moment when the event is triggered.</li> <li>2. Only live view of one channel can be maximized to the current video window each time.</li> </ol>

<p><b>Send Notification to Mobile App</b></p>	<p>After the action rule is set, the VMS system will push alarm message to M-VMS Mobile App. The page is as below:</p>  <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>To Users:</b> Select users in the system who will see this action.</p> <p><b>Note:</b> Please make sure the version of M-VMS App is V1.0.0.2 or above.</p>
<p><b>IOT Sensor Control</b></p>	<p>When an event is detected, it will trigger IOT sensor to do selected action. The page is as below:</p>  <p><b>Action Interval:</b> The time interval of triggering action.</p> <p><b>Capability Type:</b> Including Smoke Detector and Electronic Switch.</p> <p><b>Target:</b> You need to add a gateway firstly and then select sensor you added in VMS.</p> <p><b>Do Action:</b> Turn on or turn off Electronic Switch.</p> <p><b>Switch No.:</b> The Electronic Switch No.</p>







**Step 3:** It is optional to enable Trigger Alarm. When you enable it, then the Alarm Data will be generated in the Alarm Center.



**Step 4:** After adding event rules, you can see them in the list.



**Optional:** You can also edit or delete the event rules as needed.

















Operation	Description
	Edit a rule. You can adjust the parameters of trigger, schedule or action as needed.
	Click a rule in the list that you want to remove, click “delete”, and click “Yes” in the pop-up window. The rule will be removed from the list.
	Enable or disable the event action.
	Copy the selected event rule.
	System will simulate the triggering if the selected rules.
	Reset to the default rules.

### III. Example

## ● Setting

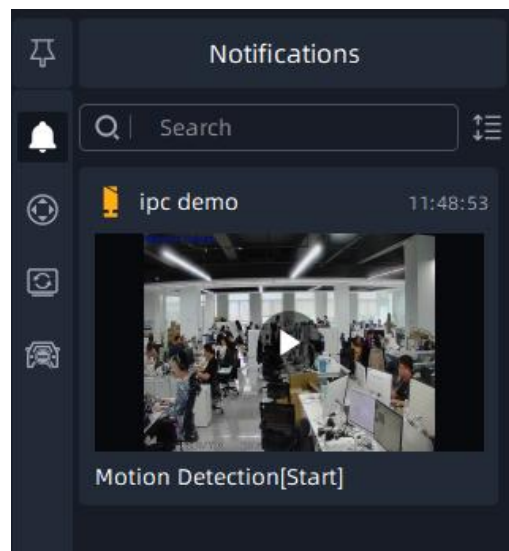
Set the following event rules in the system.

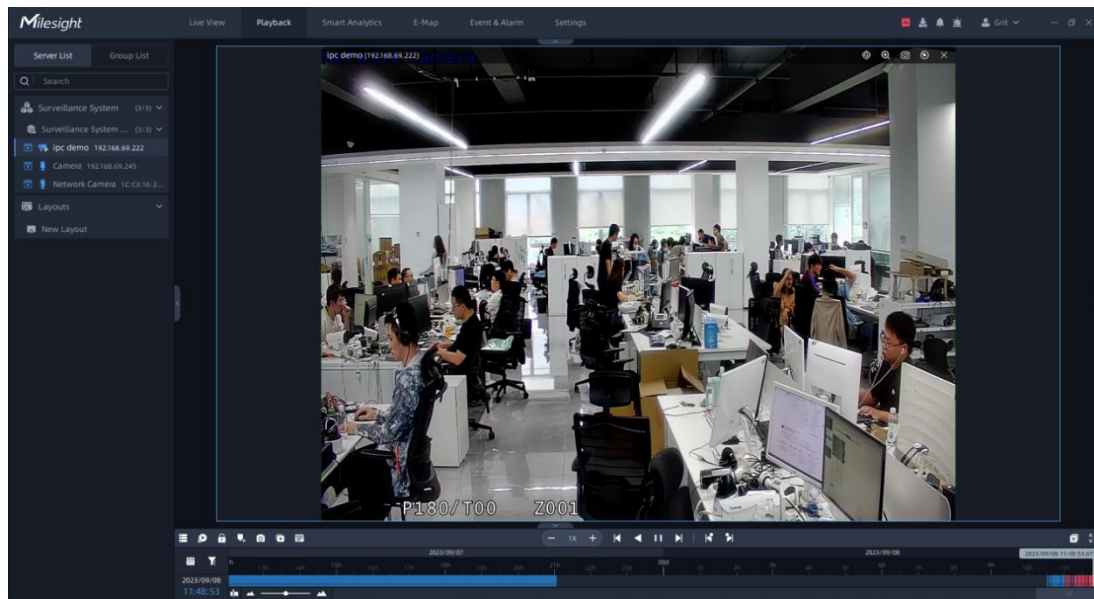
- ①. From 11 a.m. to 12 a.m., when a motion event is detected in “ipc demo”, do recording, show notification and send email to selected user.
- ②. From 10 a.m. to 11 a.m., when a motion event is detected in “ipc demo”, call “ptz demo” preset and show a notification.
- ③. When any camera in the system has video loss, show a notification.
- ④. When any user logs in to the system, shows a notification.
- ⑤. When any camera in the system fails to record, show a notification.
- ⑥. Add an icon to each camera. After clicking the icon, show text in live view of the camera and push the live view of the camera to display on full screen.

Event Rules							
Trigger	Action	Alarm					
All	All	All	Reset	Search			
<input type="checkbox"/>	Rule Name	Event Type	Source Of Trigger	Action	Alarm	Rule Description	Edit
<input type="checkbox"/>	Front-end Motion Detection	Motion Detection[Start]	ipc demo(192.168.69.222)	  	Disable		
<input type="checkbox"/>	Front-end Motion Detection	Motion Detection[Start]	ipc demo(192.168.69.222)	 	Disable		
<input type="checkbox"/>	Video Loss	Video Loss	< Any Camera >		-		
<input type="checkbox"/>	User Access	User - Login Succeeded	< System >		-		
<input type="checkbox"/>	Record Failure	Record Failure	< Any Camera >		-		
<input type="checkbox"/>	Client Trigger	Client Trigger	< Any Camera >	 	Disable		

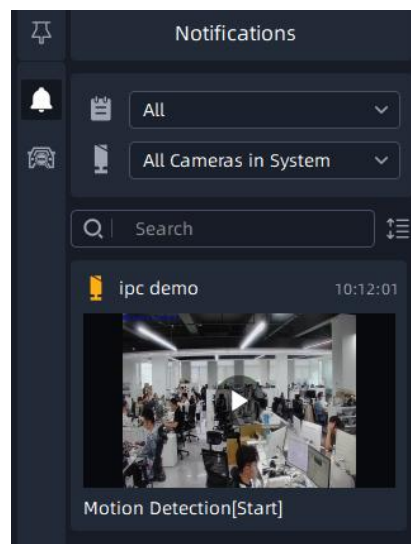
## ● Result

- ①. From 11 a.m. to 12 a.m., when a motion event is detected in “ipc demo”, a notification will be shown in Notifications panel. Selected user will receive an email. And you can view the recording in Playback interface.

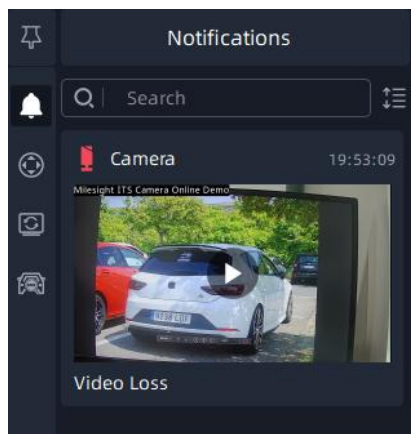




- ②. From 10 a.m. to 11 a.m., when a motion event is detected in “ipc demo”, call “ptz demo” preset and a notification will be shown in Notifications panel.

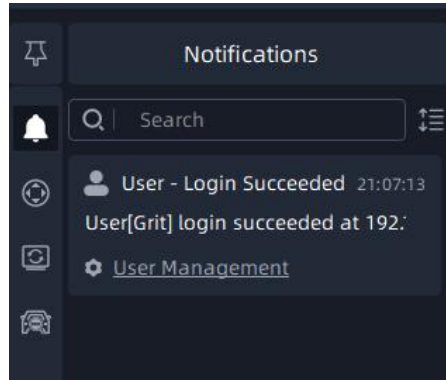


- ③. When a camera in the system has video loss, a notification will be shown in Notifications panel.

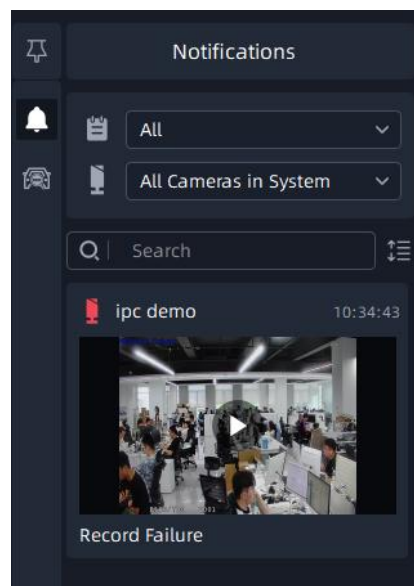


- ④. When a user logs in to the system, a notification will be shown in Notifications panel.

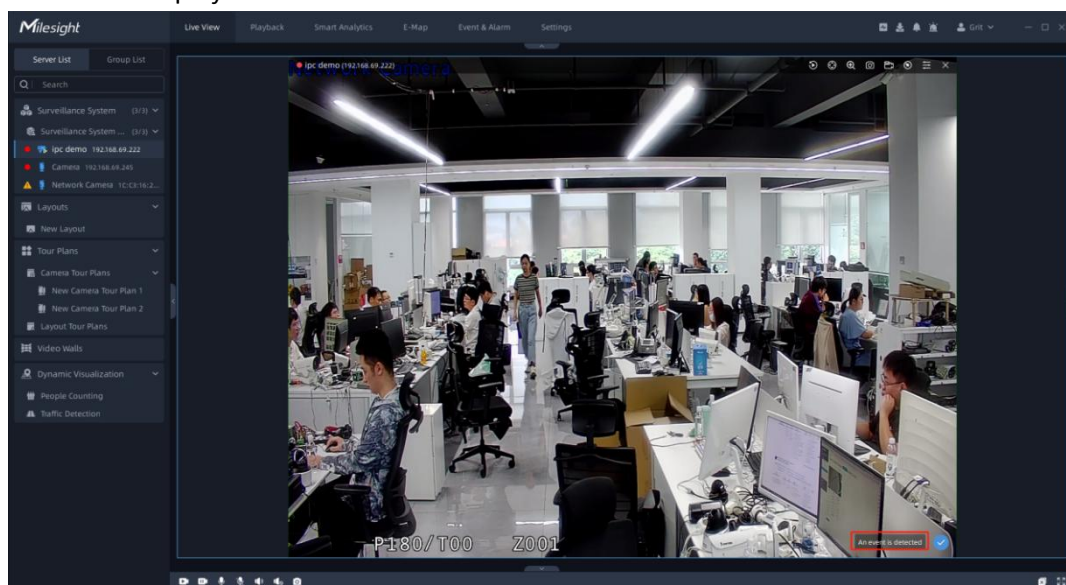


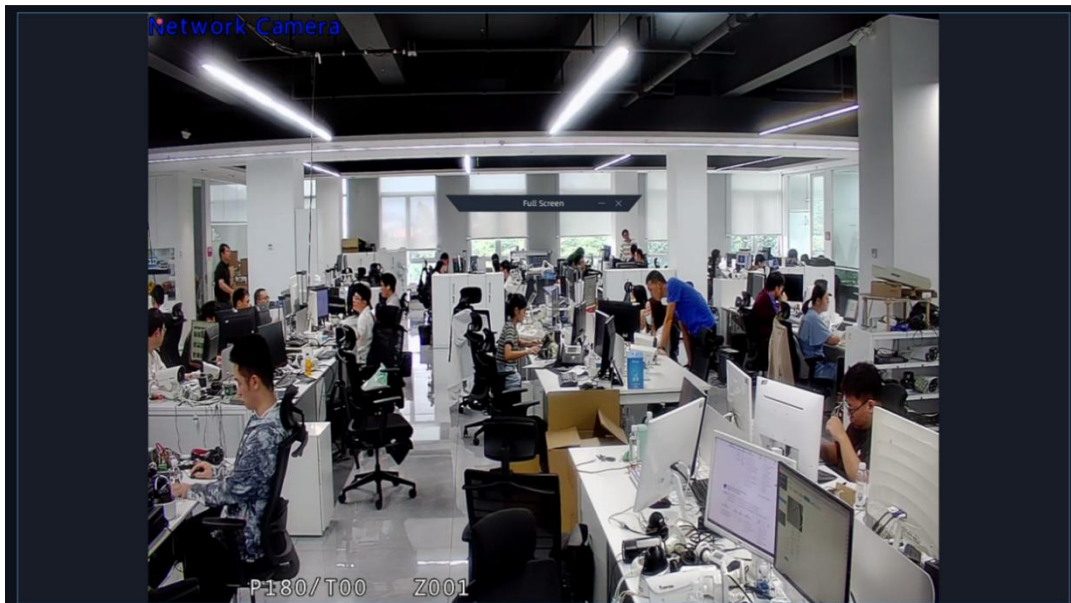


- ⑤. When a camera in the system fails to record, a notification will be shown in Notifications panel.



- ⑥. After clicking the icon, the text will be shown in the live view of the camera. And live view will be displayed on full screen.





All events will be recorded, you can view them in Event & Alarm Search interface.

Rule Name	Date/Time	Event Type	Source	Event Details
Record Failure	2023/09/08 13:31:51	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 13:28:38	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 13:26:17	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 13:13:59	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 13:09:44	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 13:02:23	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:56:10	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:51:58	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:48:43	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:42:26	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:35:09	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:27:52	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:20:39	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:19:24	Record Failure	Camera[192.168.69.245]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:19:03	Record Failure	Camera[192.168.69.245]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:15:31	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:13:19	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Record Failure	2023/09/08 12:06:04	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Video Loss	2023/09/08 12:02:27	Video Loss	ipc demo[192.168.69.2...]	Video Loss (Trigger Condition: 10 second(s)), de...
Front-end Motion Detection	2023/09/08 11:59:49	Motion Detection[Start]	ipc demo[192.168.69.2...]	Detected by camera.
Record Failure	2023/09/08 11:56:49	Record Failure	ipc demo[192.168.69.2...]	[Primary Stream] Recording failed on server...
Front-end Motion Detection	2023/09/08 11:56:10	Motion Detection[Start]	ipc demo[192.168.69.2...]	Detected by camera.
User Access	2023/09/08 11:55:04	User - Login Succeeded	grt[192.168.69.37]	User[grt02] login succeeded at 192.168.69.37.
User Access	2023/09/08 11:54:32	User - Login Succeeded	grt02[192.168.69.37]	User[grt02] login succeeded at 192.168.69.37.
Front-end Motion Detection	2023/09/08 11:52:31	Motion Detection[Start]	ipc demo[192.168.69.2...]	Detected by camera.
Front-end Motion Detection	2023/09/08 11:48:53	Motion Detection[Start]	ipc demo[192.168.69.2...]	Detected by camera.
User Access	2023/09/08 11:48:50	User - Login Succeeded	grt[192.168.69.37]	User[grt] login succeeded at 192.168.69.37.
User Access	2023/09/08 11:47:44	User - Login Succeeded	grt02[192.168.69.37]	User[grt02] login succeeded at 192.168.69.37.

-END-