



Installation and Operating Guide

Milesight Plugin for Milestone XProtect

Version: V2.0.0.3-r1

Date: 2026-08-10

Chapter 1. Introduction.....	4
1.1 System Requirement.....	4
Chapter 2. Installation.....	6
2.1 Windows Installation.....	6
Chapter 3. Event Configuration.....	9
3.1 Add Devices.....	9
3.2 Configure Events.....	10
3.3 Camera Event Configuration.....	13
3.4 Viewing Events.....	15
Chapter 4. Object Search.....	17
4.1 Configure Metadata Recording.....	17
4.2 Configure Object Attribute Recognition.....	18
4.3 Set the System Time.....	22
4.4 Viewing the Detection Results.....	22
4.5 Object and the Corresponding Attributes.....	26
Chapter 5. Action Integration.....	29
5.1 Action Management.....	29
5.2 Action Presets.....	31
5.3 Configure Actions in Event Rules.....	33
5.4 Manual Action Trigger in Live View.....	38
Chapter 6. LPR Watch List.....	40
6.1 List Management.....	40
6.1.1 Watch List Management.....	41
6.1.2 License Plate Management.....	43
6.2 License Plate Distribution.....	48
6.3 Create Analytics Event.....	49
Chapter 7. Fisheye Dewarping.....	52
7.1 Configure Fisheye Dewarping.....	52
Chapter 8. Device Assistant.....	55
Password-free Login.....	55
8.2 Firmware Cloud Update.....	57
Chapter 9. Plugin Properties.....	60

Chapter 10. Uninstall.....	64
Chapter 11. Services.....	65

Chapter 1. Introduction

Using Milesight's advanced plugin, Milestone's XProtect video management software integrates seamlessly with Milesight cameras to enhance operational efficiency. The plugin acquires the AI metadata stream from Milesight cameras, supporting sophisticated Smart Video Content Analysis (VCA), Face Detection, and Automatic Number Plate Recognition (ANPR), etc., each metadata entity is transmitted as an individual object to the Milestone XProtect.

These objects can be viewed, searched, and alarms can be configured upon their detection, enabling centralized management through the Milestone XProtect, and achieving smarter and faster monitoring.

This User Guide provides an overview of the integration between Milesight's plugin and Milestone XProtect for capturing and analyzing. For a more thorough understanding of how the Milestone XProtect handles AI metadata, we encourage you to consult the <https://www.milestonesys.com/>.

If you have any questions, please do not hesitate to contact our Milesight Support Team at support@milesight.com.

1.1 System Requirement

[Supported Milestone XProtect version] We recommend to use the latest versions of XProtect Management Client and Smart Client. The latest version of Milesight Plugin is tested and compatible with the version 2025 R2.

[Supported Operating Systems]

Windows: 64-bit

[Supported Milesight Camera Version]

Table 1.

Camera Series	Firmware Version
Mini Series (PD)	51.7.0.78 or above
180° Panoramic Dome/Bullet Camera (PE)	61.8.0.5-r3 or above
AI Multi-directional Camera (PE)	62.8.0.4-r6 or above
Q Series (PG1)	CQ_63.8.0.5-r3 or above
Pro Series (PG1)	63.8.0.6
Intelligent Traffic Series (PE)	T_61.8.0.4-r5 or above

Camera Series	Firmware Version
4G Solar-Powered Series (SP111)	52.8.0.4-r6 or above

Chapter 2. Installation

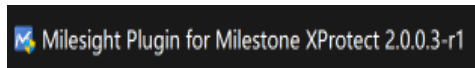
If you are using the old plug-in, we recommend removing it.

If you need, you can contact our Support Team to get the installation package of the Milesight Plugin or download the version from this link.

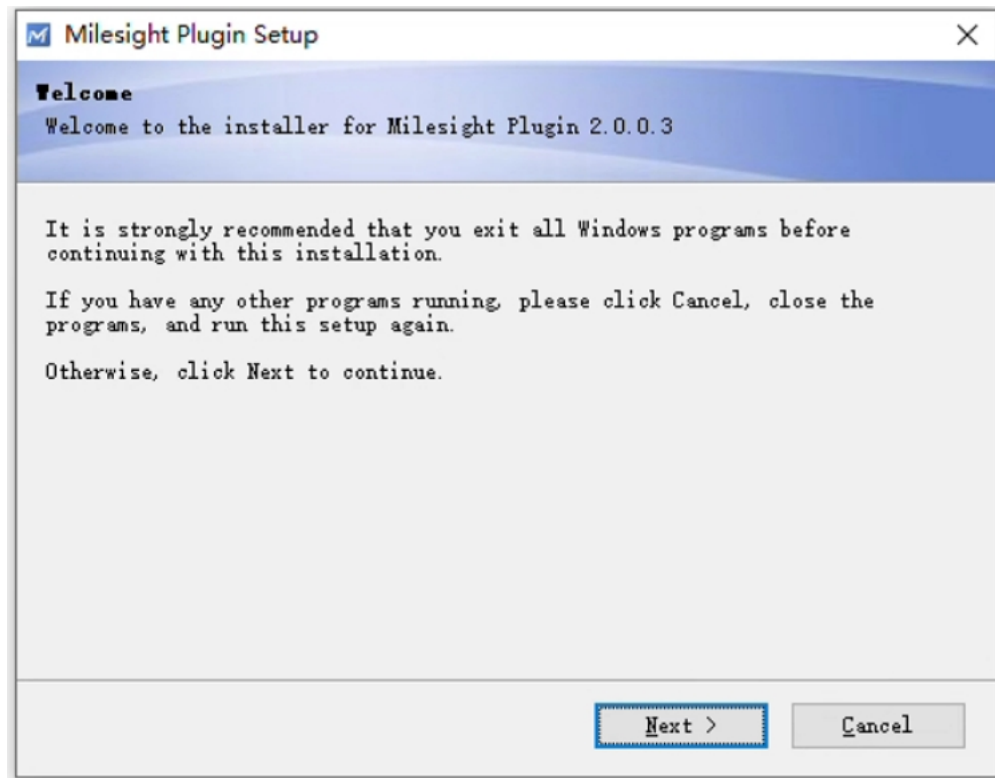
<https://www.milesight.com/support/resources/firmware>

2.1 Windows Installation

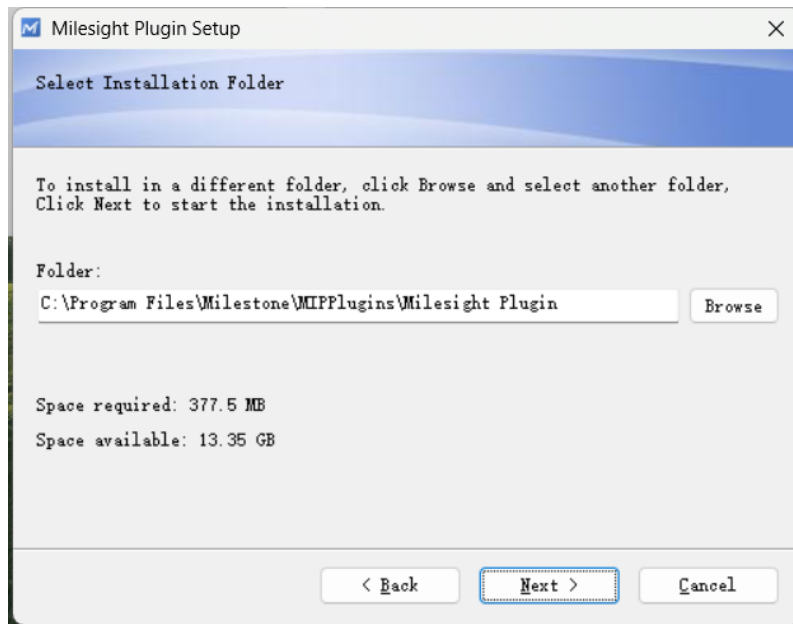
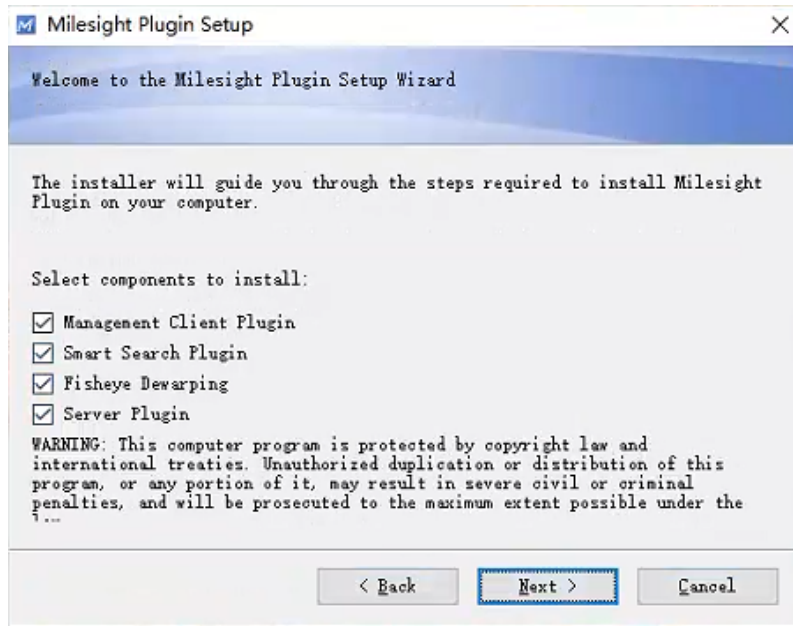
Step 1: Click Milesight Plugin for Milestone Xprotect 2.0.0.3-r1.



Step 2: Click "Next" and select components to install.

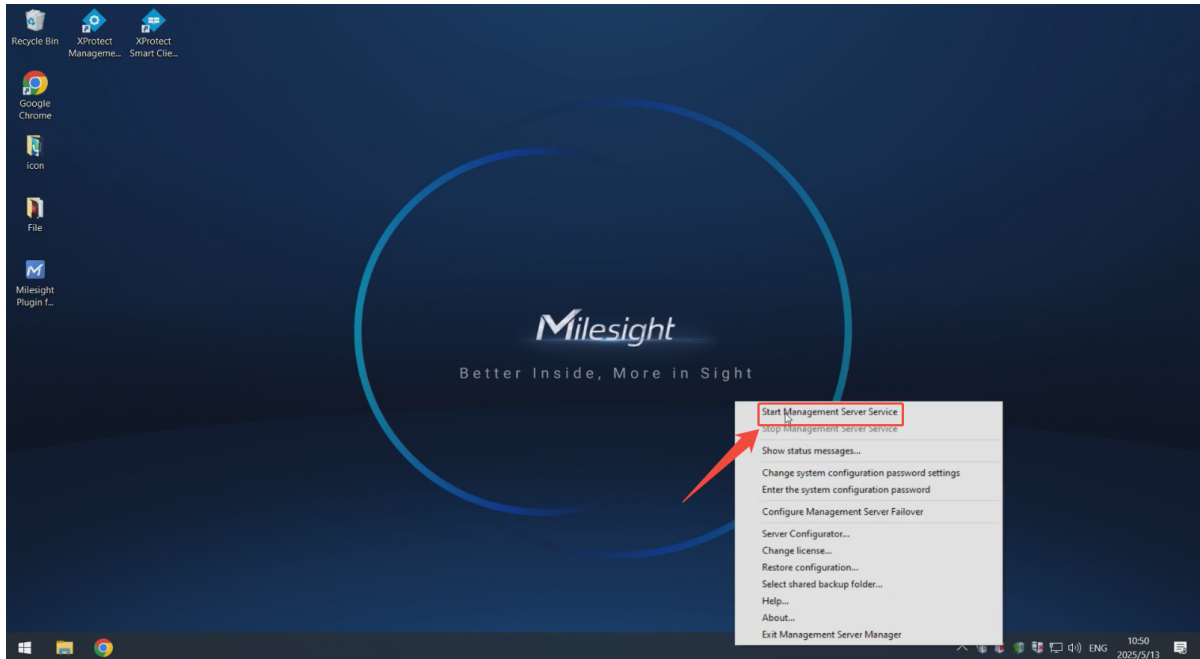


The plugin installation is divided into XProtect Management Client, Smart Search, Fisheye Dewarping and Server, which can be selected separately. We recommend selecting all components to ensure full functionality.



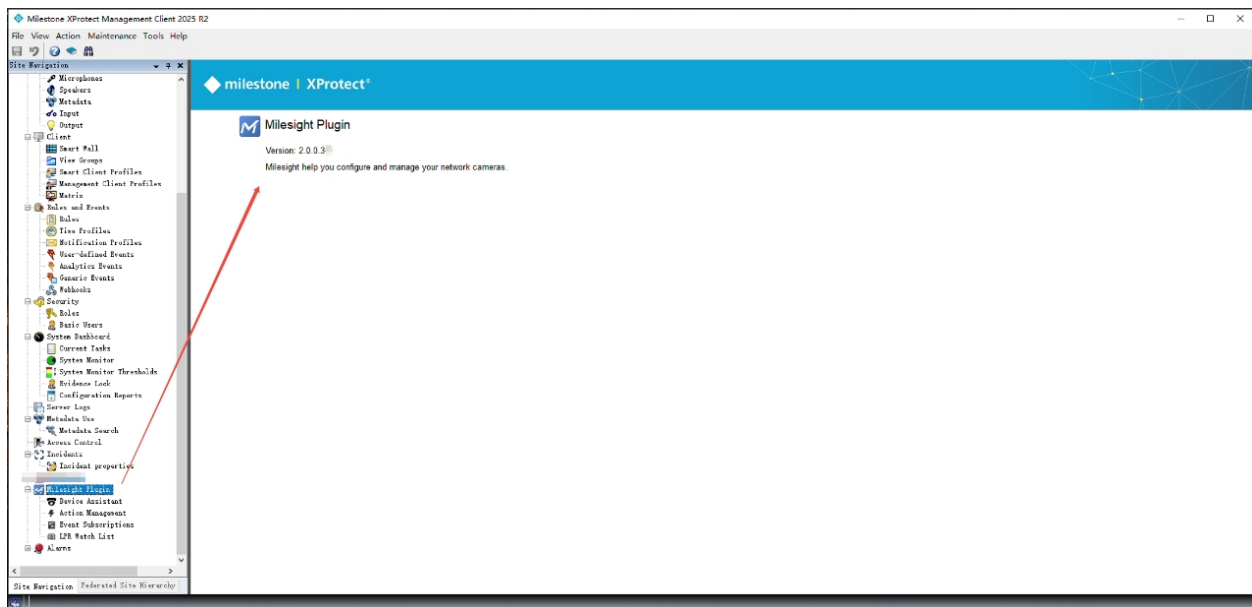
Step 3: Start Milestone XProtect Management Server service.

After the installation, you must start the Management Server Service before using the **XProtect Management Client**.



Step 4: Login XProtect Management Client to check if correctly installed.

If the screen shown below appears, it indicates that the installation was successful.

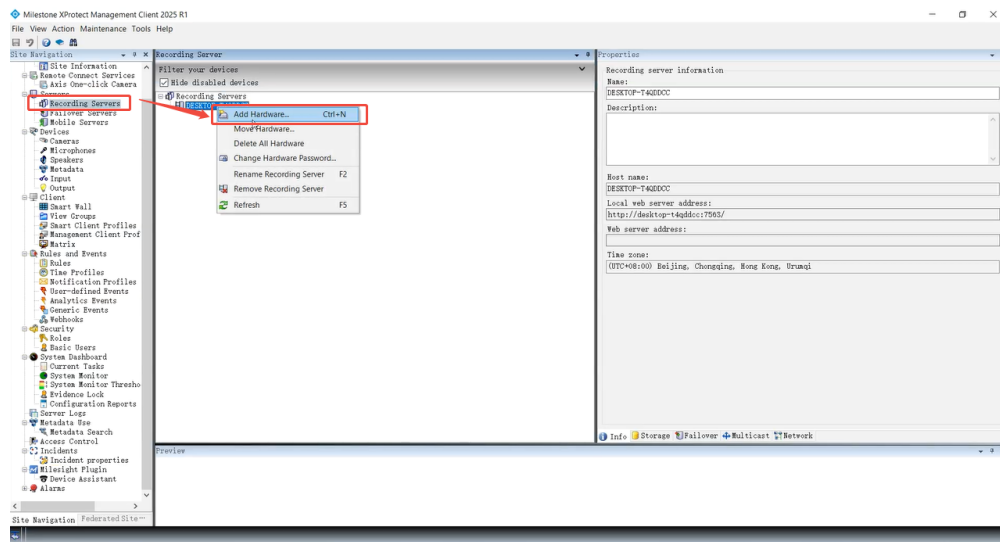


Chapter 3. Event Configuration

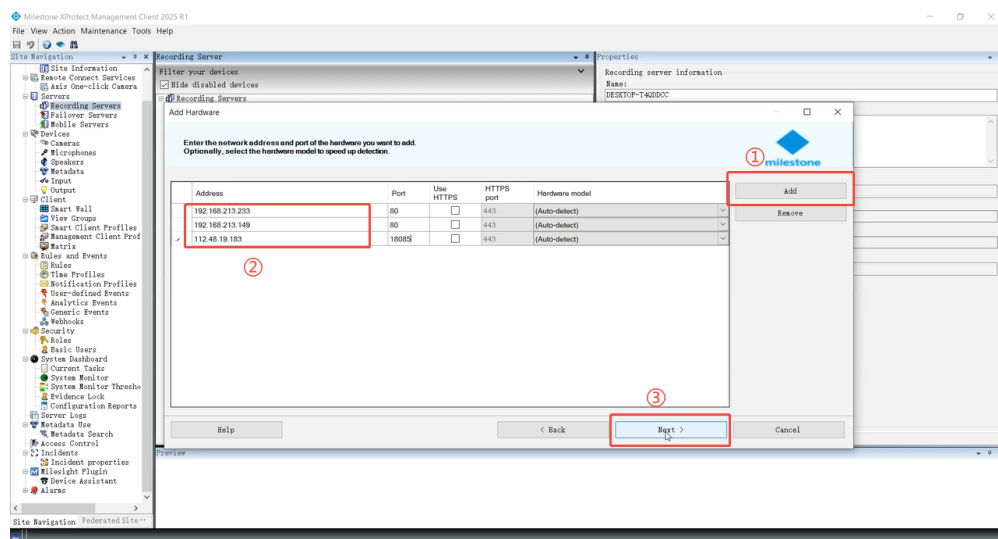
3.1 Add Devices

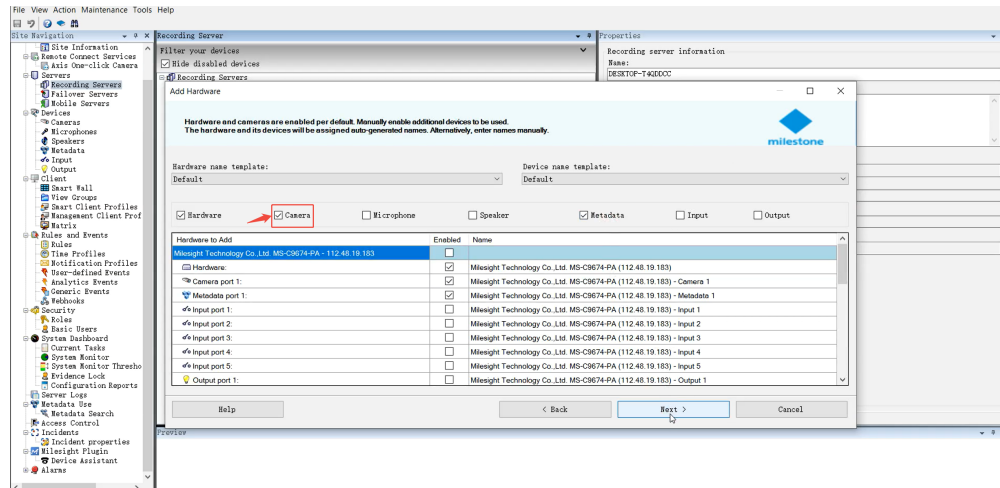
After completing the installation, you need to add the Mileight device on the server using the IP address and host name.

Step 1: Right-click, select "Add Hardware", and then choose the "Manual" method.



Step 2: Enter the IP address of the Mileight Camera to add the device.





Note:

If you need the camera's Metadata information, please select the "Metadata" option. For instructions on configuring Metadata, please refer to Chapter 4

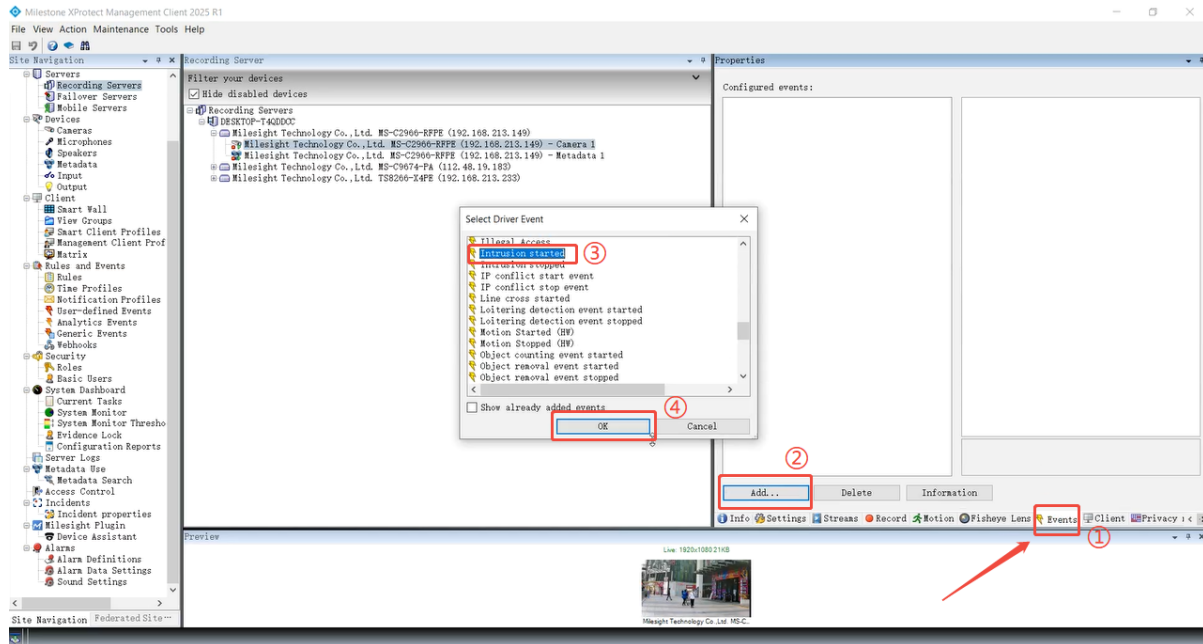
3.2 Configure Events

After adding devices, you can configure the events you want to monitor and set up alarms for them.

Step 1: Subscribe to Onvif Events.

Method 1: Individual Event Configuration

Follow the illustrated steps to complete the configuration.

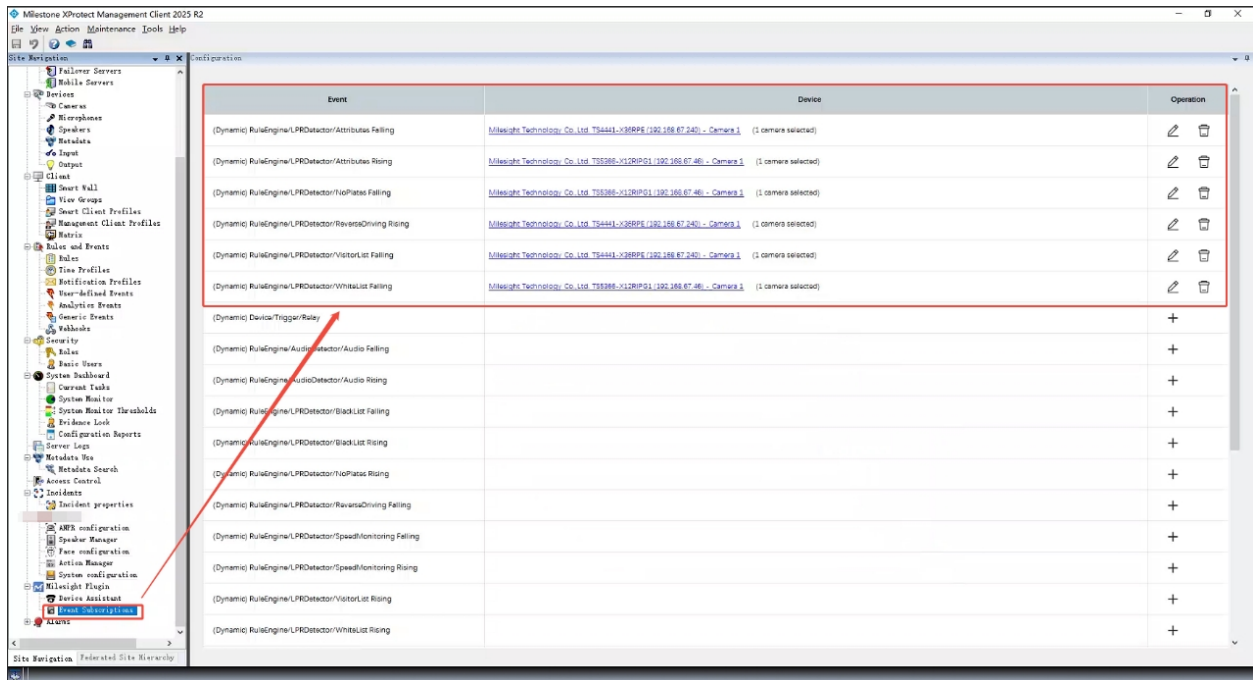


Method 2: Batch Event Configuration

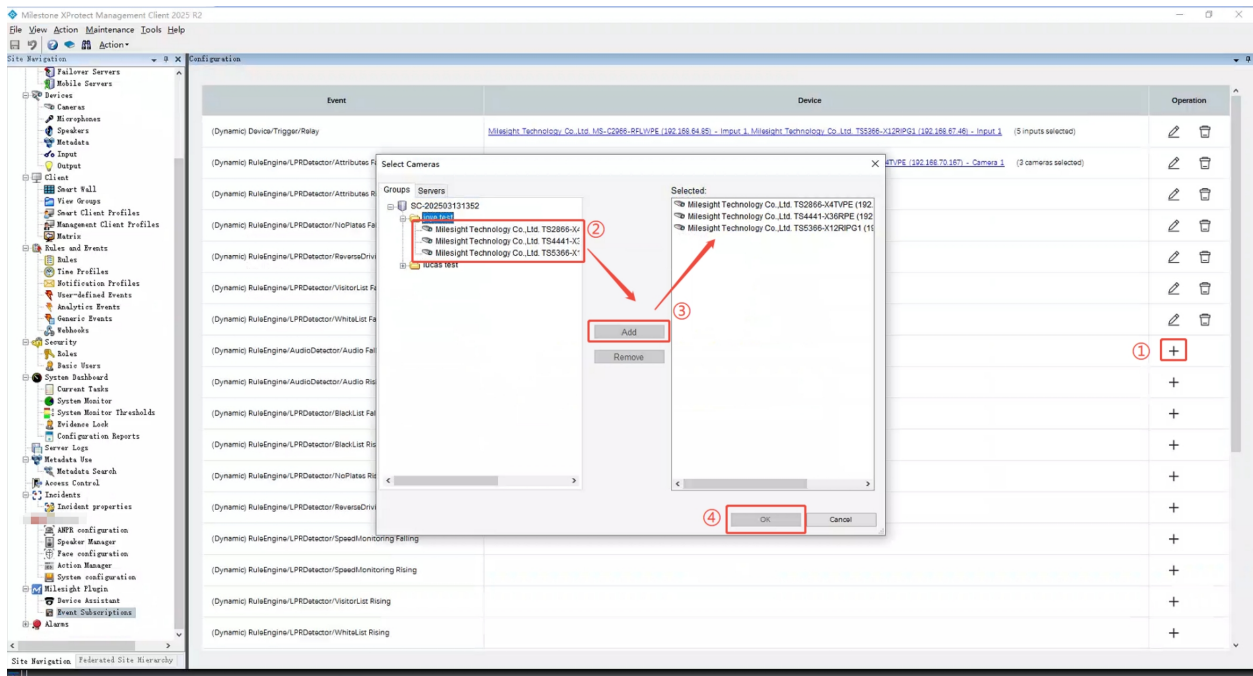
When multiple cameras are added, users can also utilize the plugin to batch subscribe to events, rather than subscribing to events for each device separately. This will greatly enhance the efficiency of event configuration. The steps are as follows:

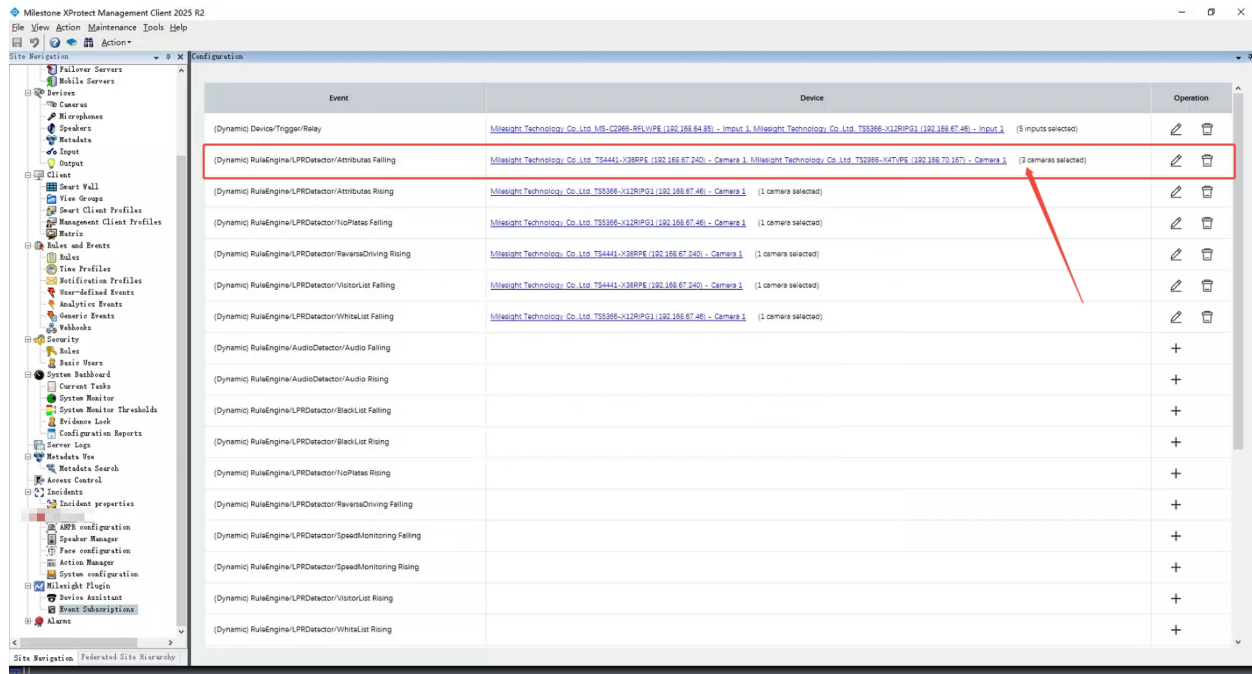
a. Click "Milesight Plugin", then click "Event Subscriptions".

On this interface, you can view all the events supported by Milesight devices in the current system. Events that have already been subscribed to will be displayed at the top of the table.



b. Click the "+" button in the operation column to batch select devices for event configuration.





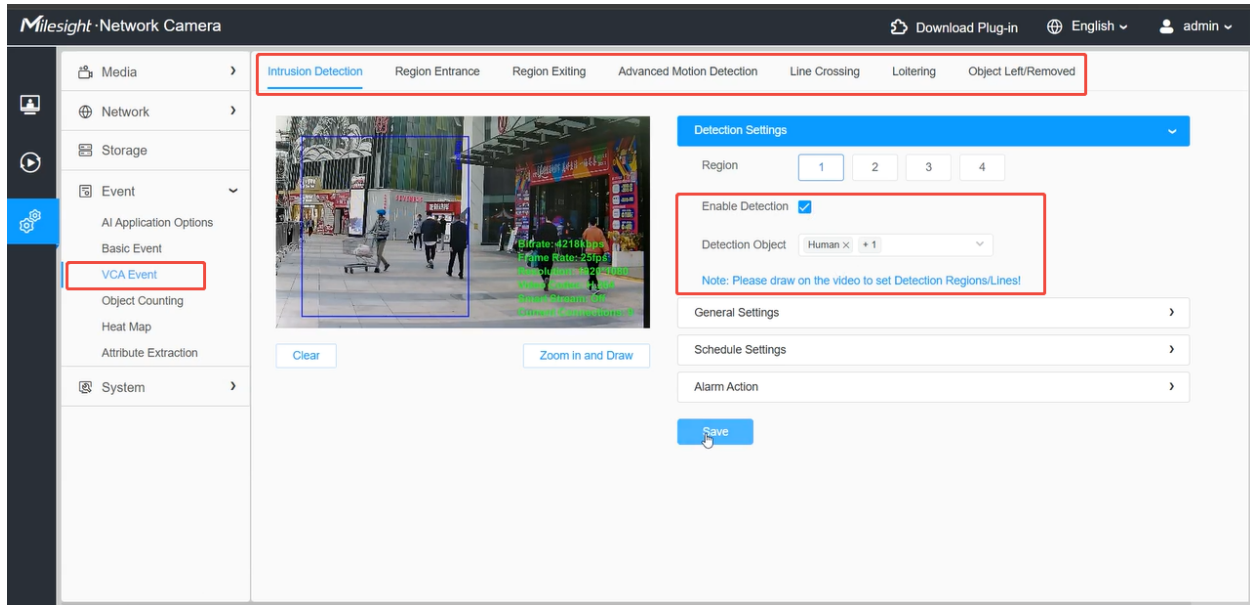
3.3 Camera Event Configuration

After completing the event subscription and configuration, you need to enable the camera's Event Detection to ensure that XProtect receives event alarms.

Mileage Video Surveillance

The following uses **Intrusion Detection** as an example, other events follow the same steps.

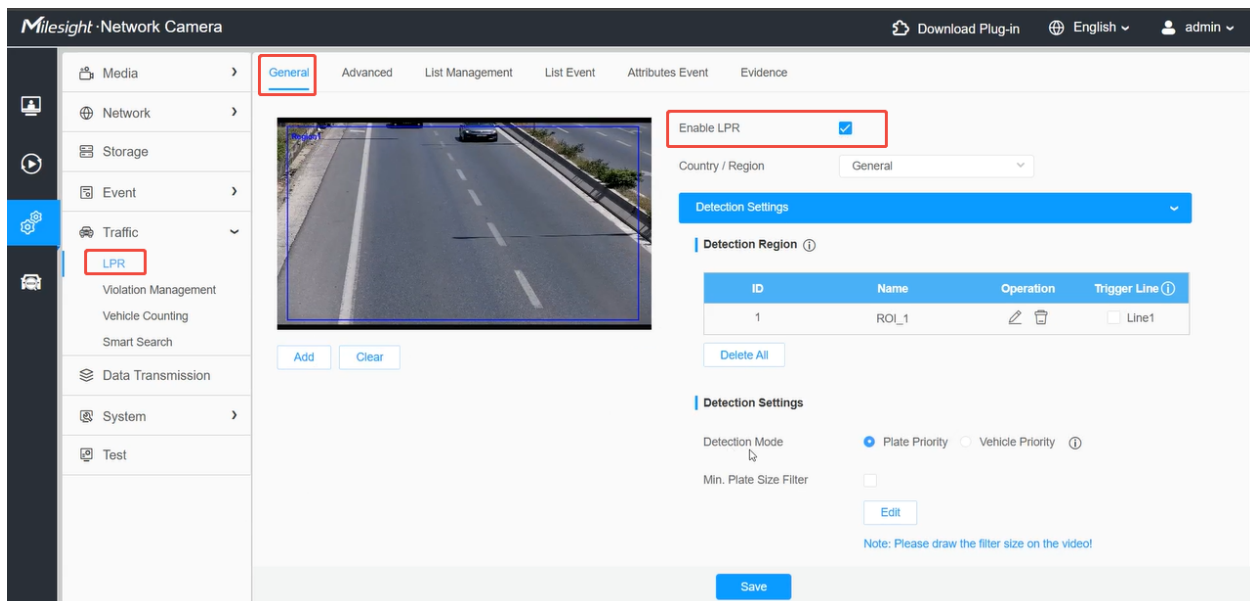
Access the camera's webpage, complete the necessary configurations, and click "Save" to apply the settings. Meanwhile, these configurations will take effect on Milestone XProtect.

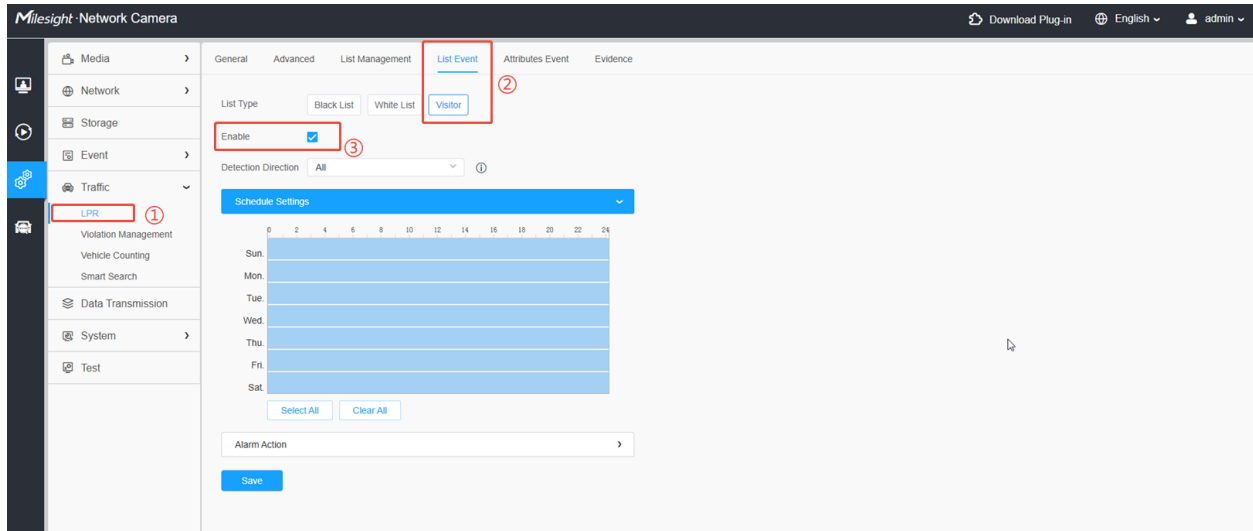


Intelligent Traffic Series

The following uses **Visitor List Rising** as an example, other events follow the same steps.

Access the camera's webpage, complete necessary configurations, and click "Save" to apply the settings.

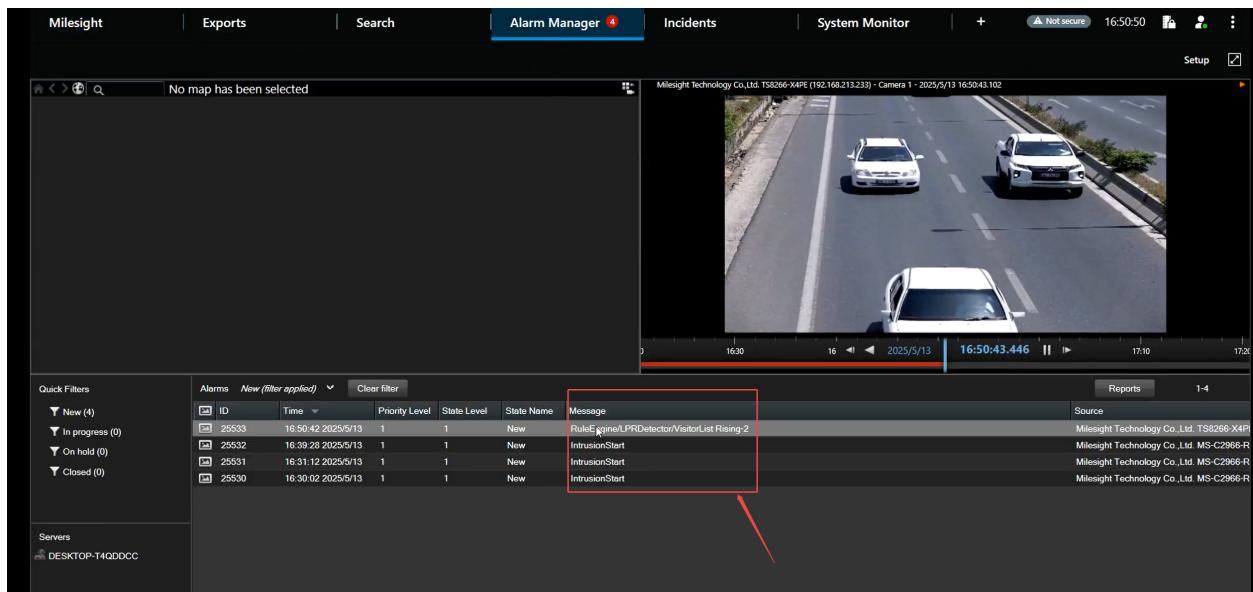




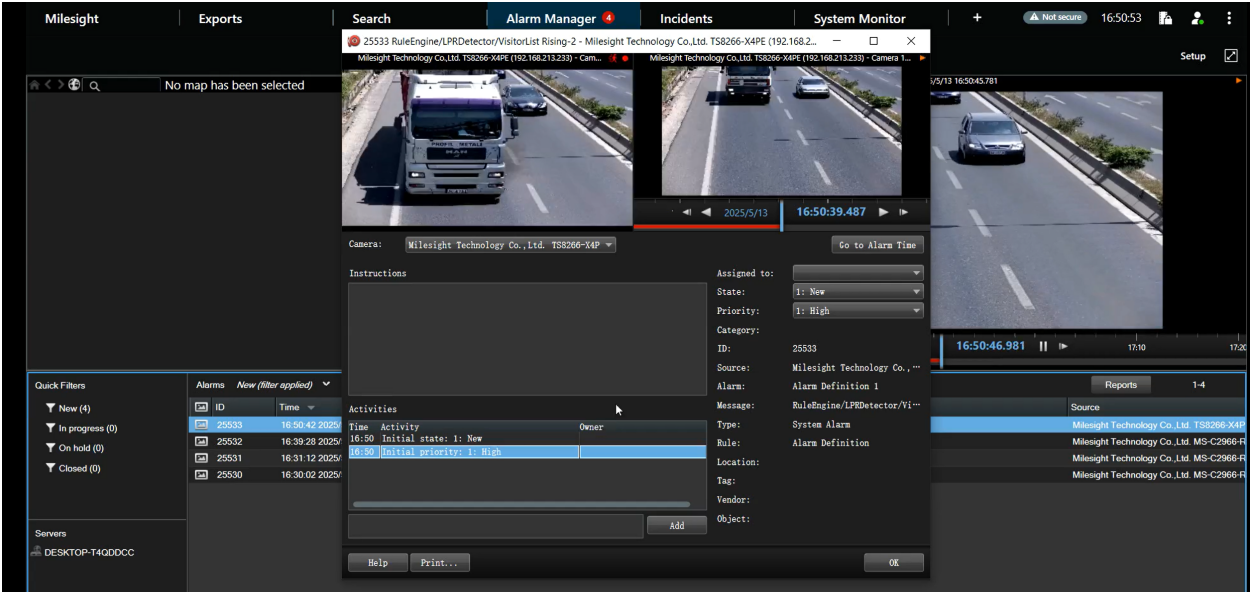
After completing the above settings, when an event is triggered, the event information will be pushed in real-time.

3.4 Viewing Events

Then you can login Smart Client to view alarm messages.



Double-click the event you want to view, and a detailed information page will pop up. In the popup, you can view the corresponding images and recordings.

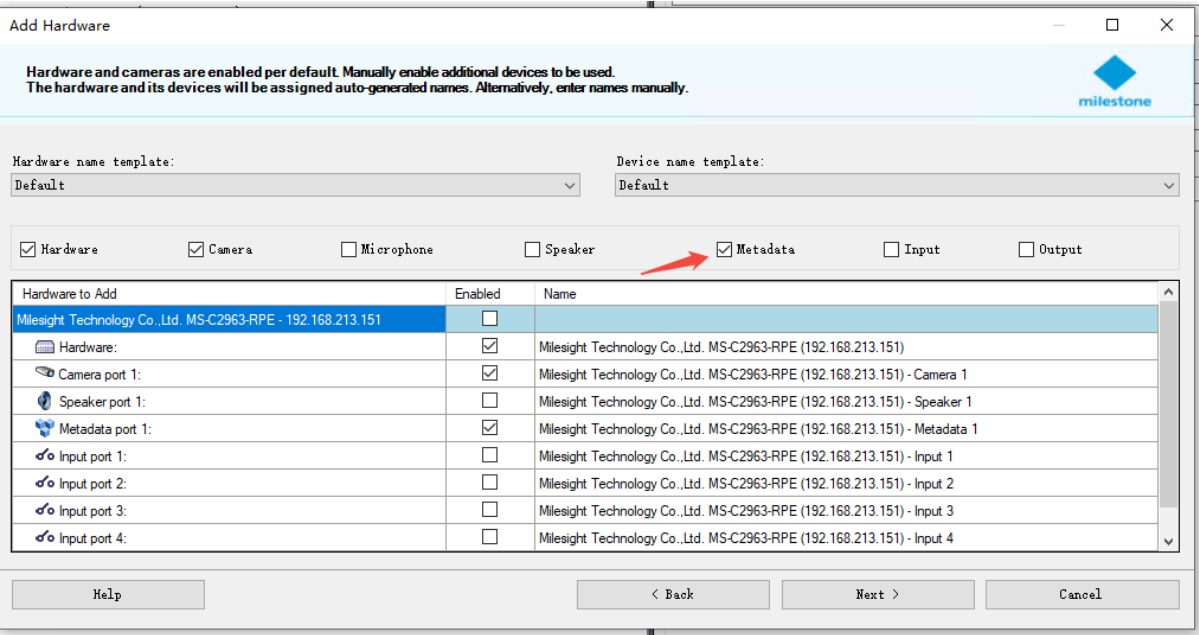


Chapter 4. Object Search

4.1 Configure Metadata Recording

After adding devices, to ensure that detected objects are recorded and displayed correctly, you must verify that the camera video stream is being record.

Step 1: When adding a device, please check the "Metadata" is selected to allow access to the device's Metadata. Enable Metadata Recording to store the data for retrieval.



Hardware and cameras are enabled per default. Manually enable additional devices to be used. The hardware and its devices will be assigned auto-generated names. Alternatively, enter names manually.

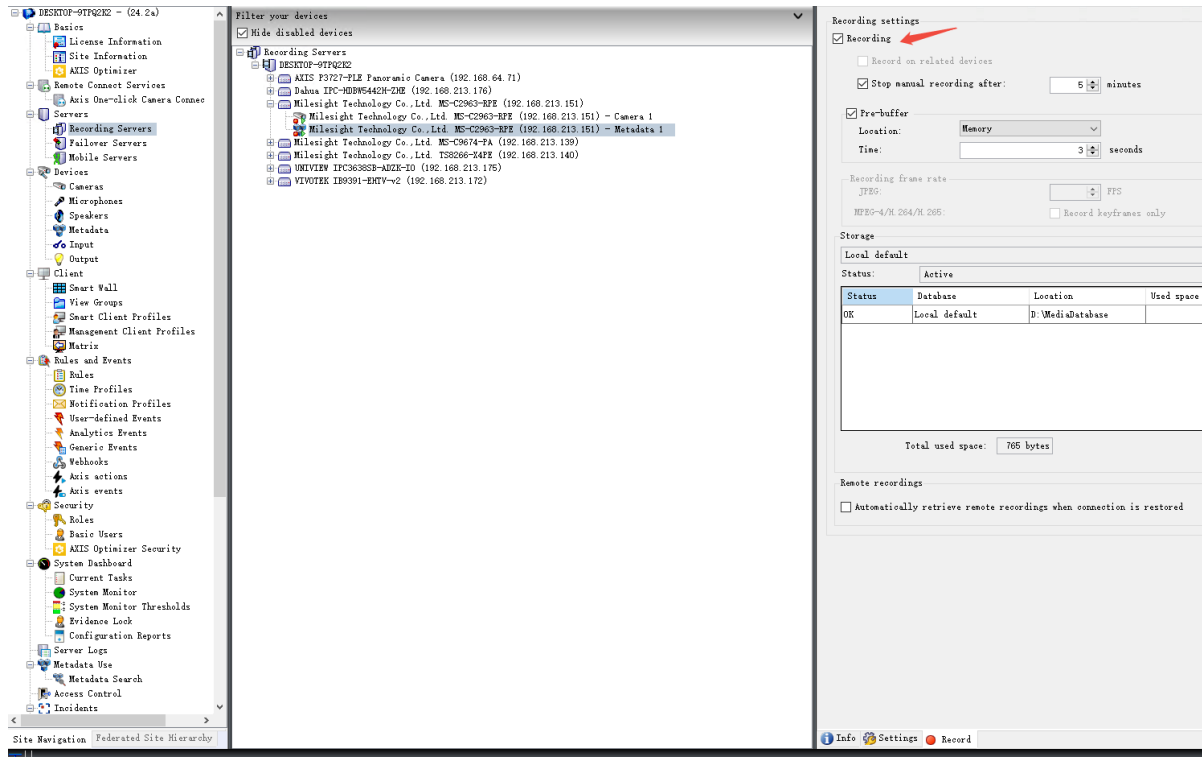
Hardware name template: Default

Device name template: Default

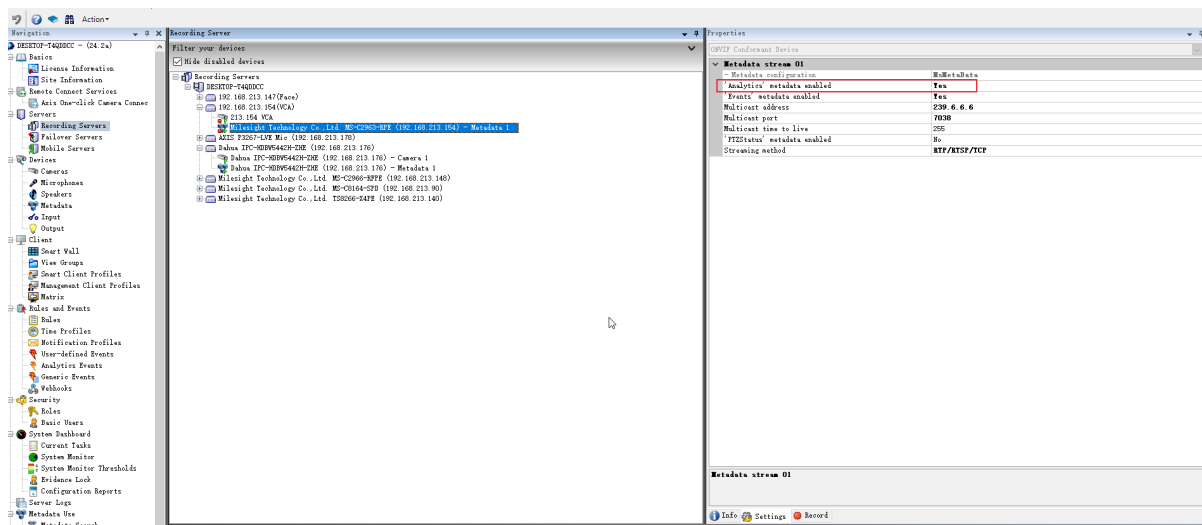
☒ Hardware ☒ Camera ☐ Microphone ☐ Speaker ☒ Metadata ☐ Input ☐ Output

Hardware to Add	Enabled	Name
Milesight Technology Co.,Ltd. MS-C2963-RPE - 192.168.213.151	☐	
Hardware:	☒	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151)
Camera port 1:	☒	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Camera 1
Speaker port 1:	☐	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Speaker 1
Metadata port 1:	☒	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Metadata 1
Input port 1:	☐	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Input 1
Input port 2:	☐	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Input 2
Input port 3:	☐	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Input 3
Input port 4:	☐	Milesight Technology Co.,Ltd. MS-C2963-RPE (192.168.213.151) - Input 4

Help < Back Next > Cancel



Step 2: Check again that Metadata is enabled and that Metadata Recording is configured.

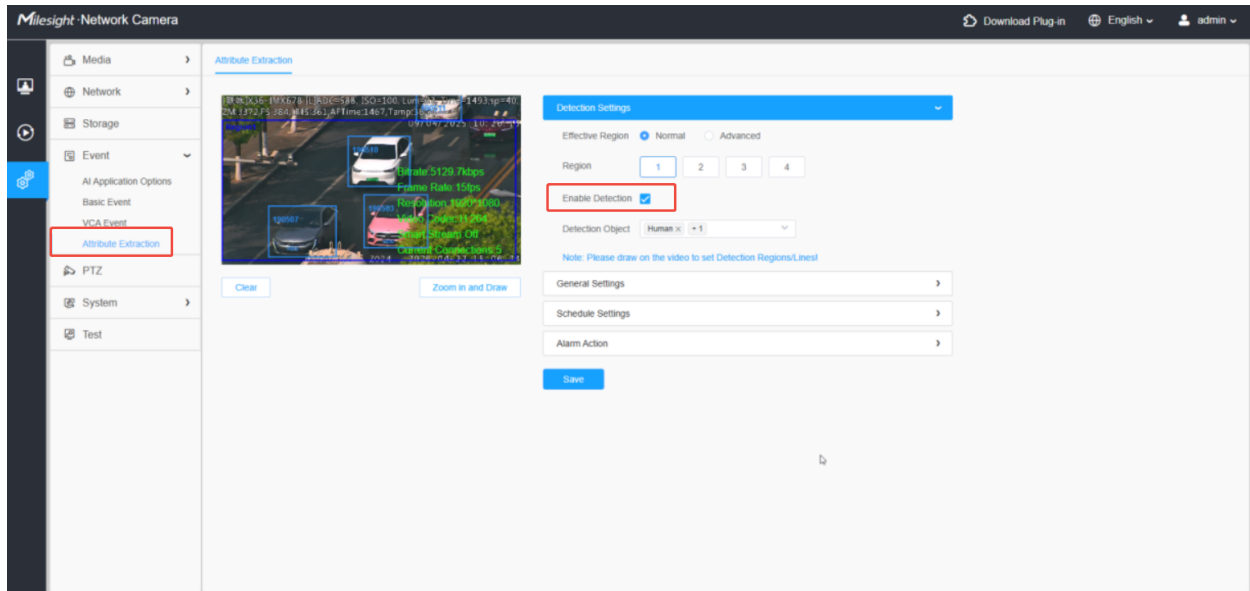


4.2 Configure Object Attribute Recognition

After completing the Metadata configuration, you need to enable the Attribute Extraction on the device side to obtain the camera's attribute recognition results. The detailed steps are as follows:

Milesight Video Surveillance

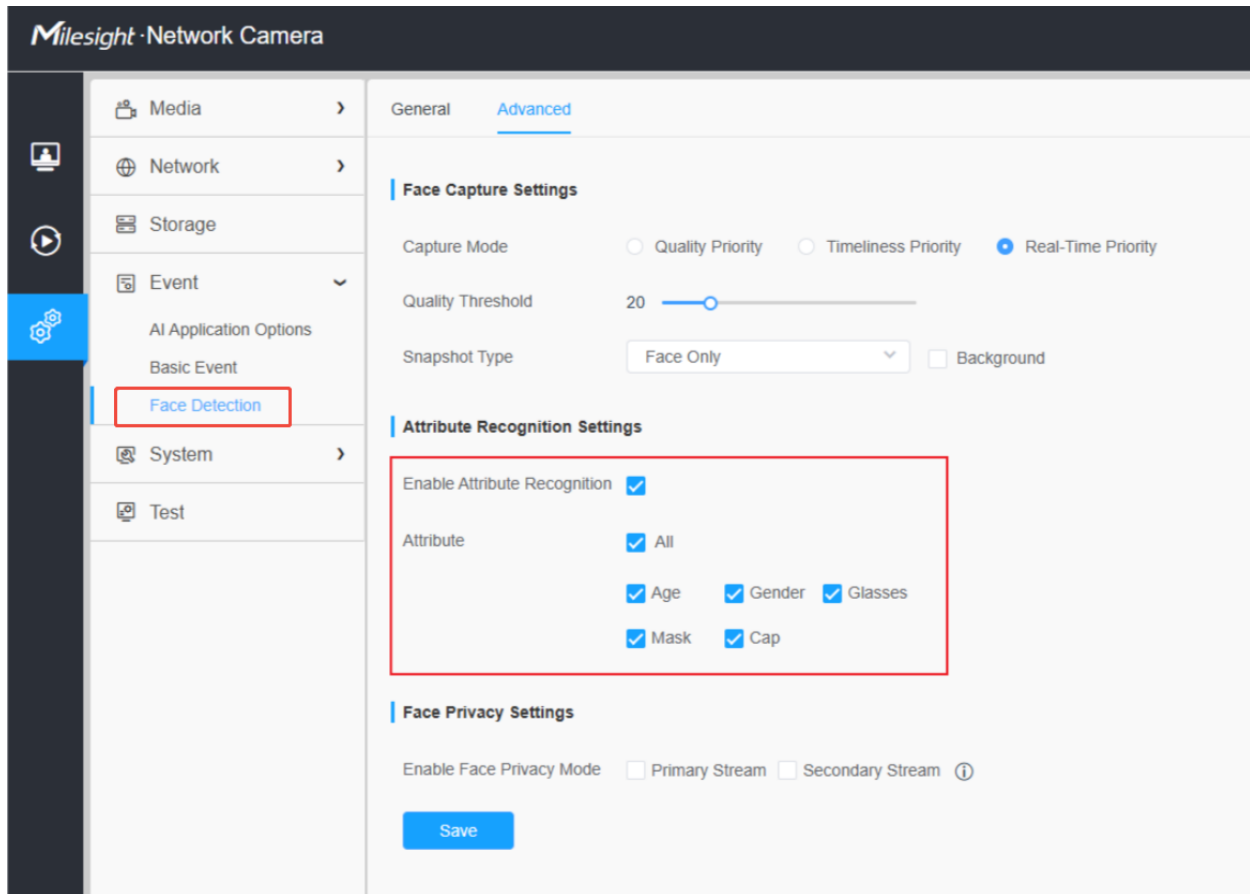
Step 1: Visit the web page of the camera and enable Attribute Extraction.



Note:

Milesight Video Surveillance Series with **Attribute Extraction** enabled can recognize Human objects (attributes include Hat, Upper Clothing Color, Lower Clothing Color) and Vehicle objects (attribute includes Vehicle Type and Vehicle Color).

Step 2: Enable Face Detection.

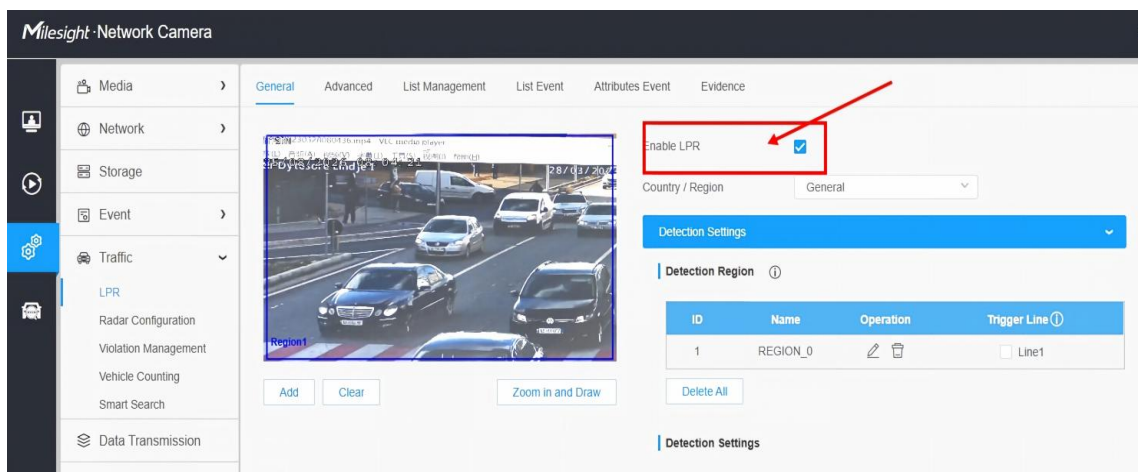


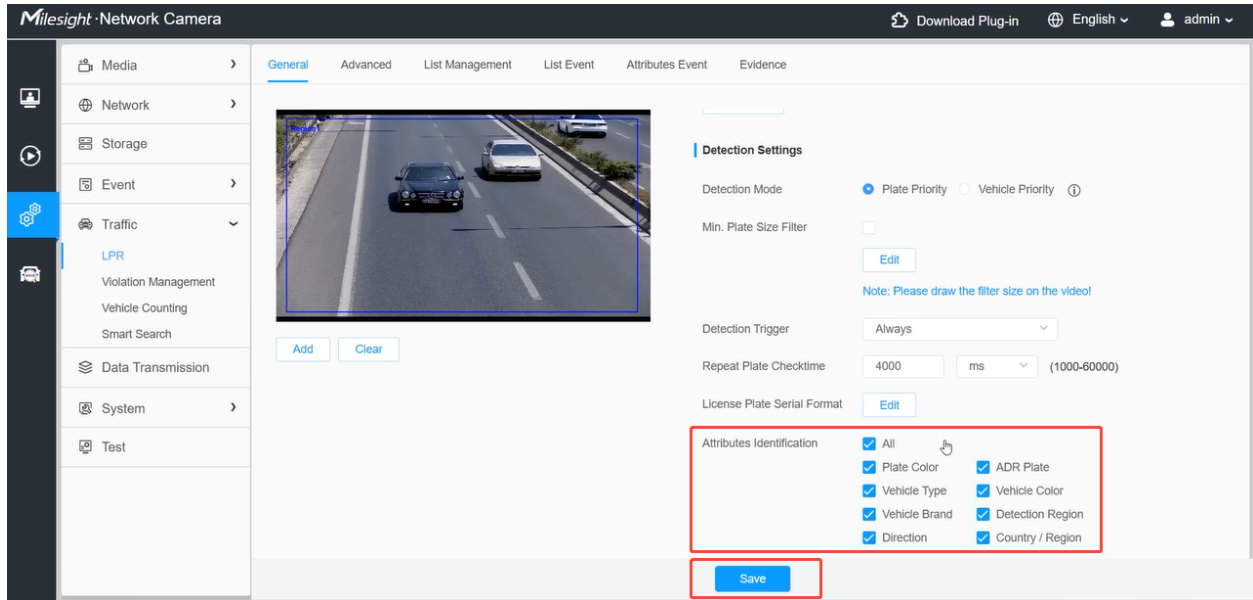
Note:

Milesight Video Surveillance Series with **Face Detection** enabled and Attribute selected support Face-related attributes for Human objects (including Age, Gender, Glasses, Mask, Cap).

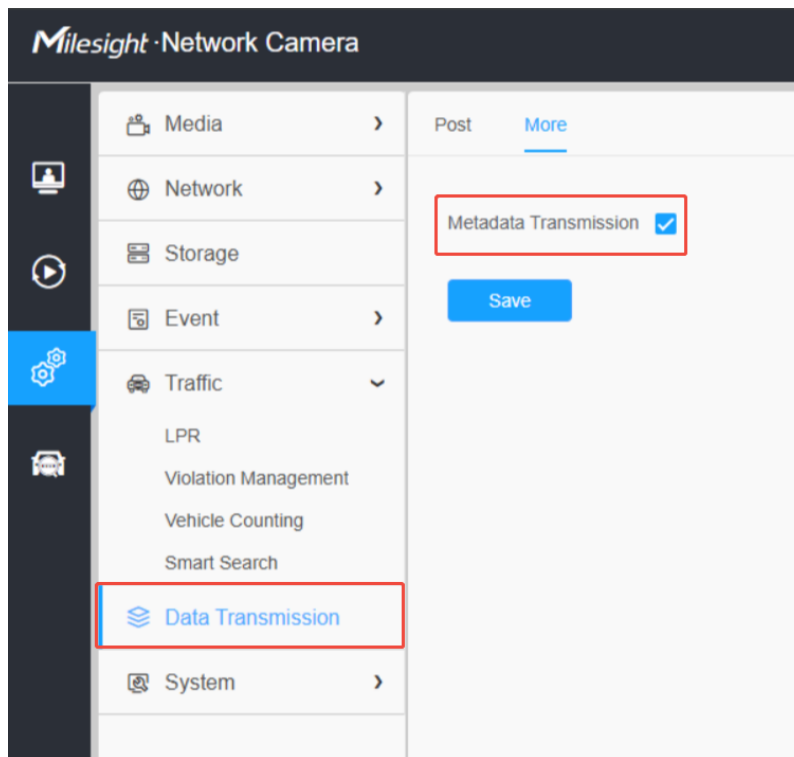
Intelligent Traffic Series

Step 1: Visit the web page of the camera, enable LPR and enable Attribute Extraction.





PS. Please ensure that the Data Transmission is enabled.



After completing the above settings, if object attributes are detected, the object's attribute information will be pushed in real-time.

4.3 Set the System Time

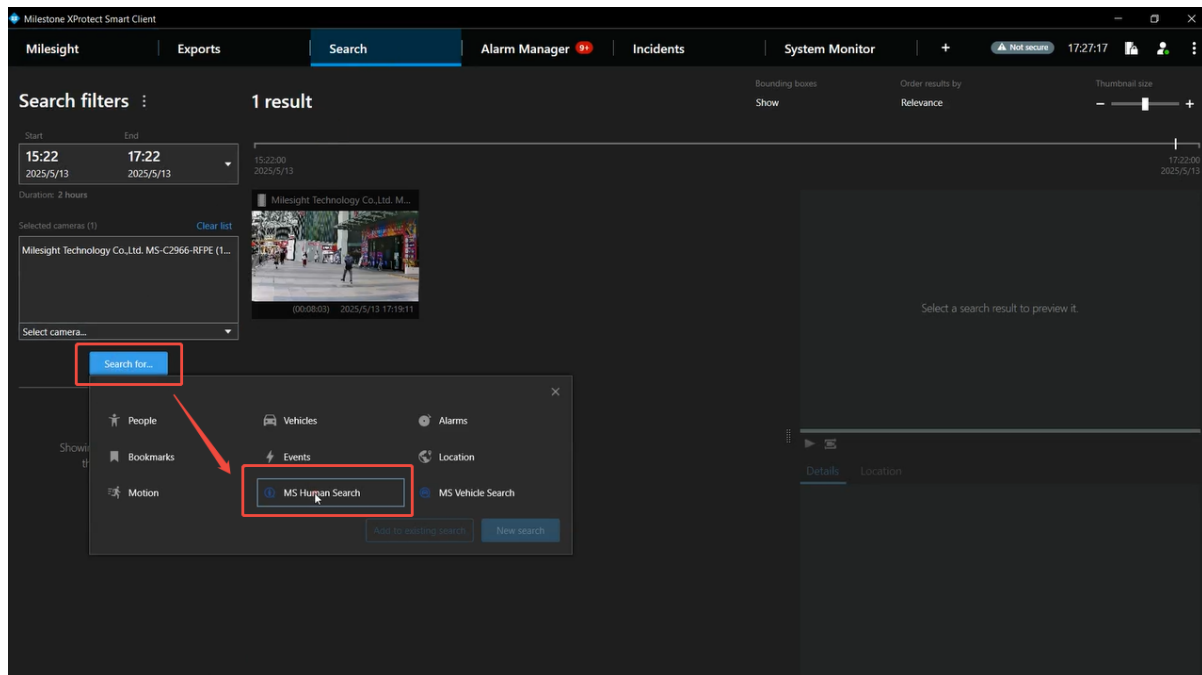
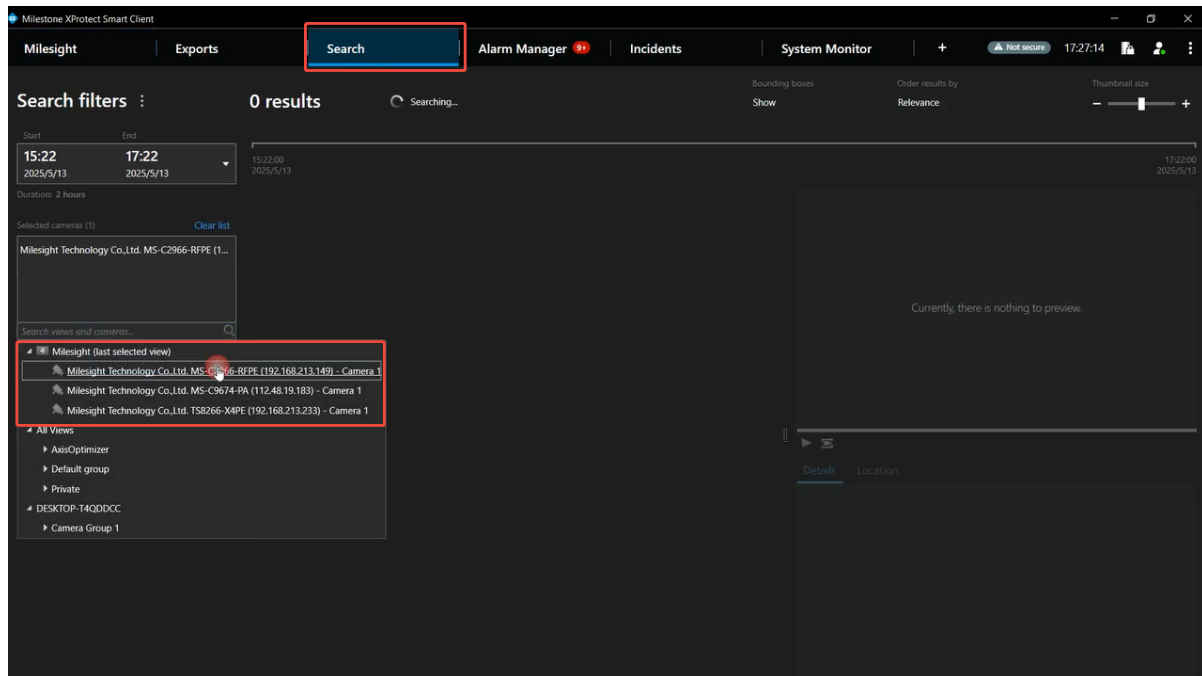
Before viewing the detection results, please ensure that the camera's system time is the same as the Milestone XProtect Recording Server. (You can set both the Camera and the XProtect Recording Server to synchronize their time via an NTP Server, or configure the Camera's time to synchronize with the computer time on the host where the Recording Server is located.)

The screenshot shows the 'Date&Time' configuration window. It is divided into two main sections: 'Current System Time' and 'Set the System Time'. The 'Current System Time' section displays the current date as 22/04/2025 and the current time as 14:22:41. The 'Set the System Time' section allows for configuring the system time. It includes a 'Time Zone' dropdown menu set to '(UTC+08:00) China(Beijing, Ho)', a 'Daylight Saving Time' dropdown menu set to 'Automatic', and a 'Synchronize Mode' section with three radio buttons: 'NTP server', 'Manual', and 'Synchronize with computer time' (which is selected). Below the 'Synchronize Mode' section, the 'Date' is set to 22/04/2025 and the 'Time' is set to 14:19:36. A blue 'Save' button is located at the bottom left of the configuration area.

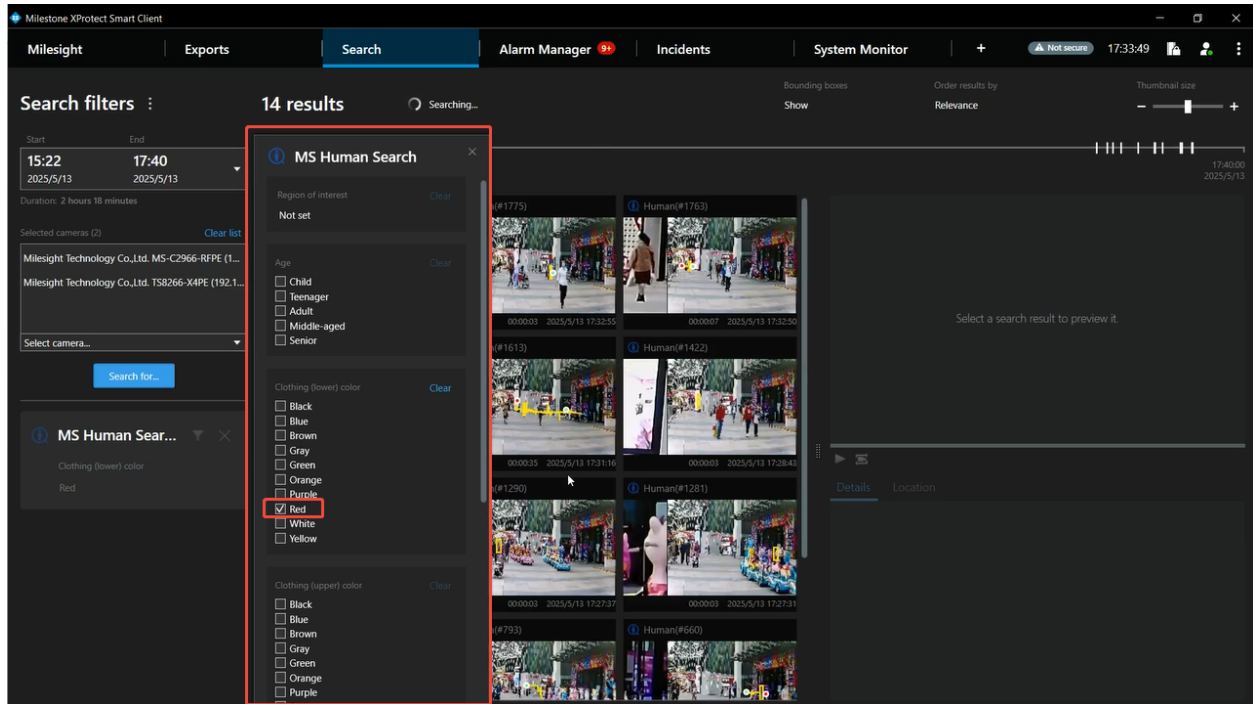
4.4 Viewing the Detection Results

Searching for Human Detection Results

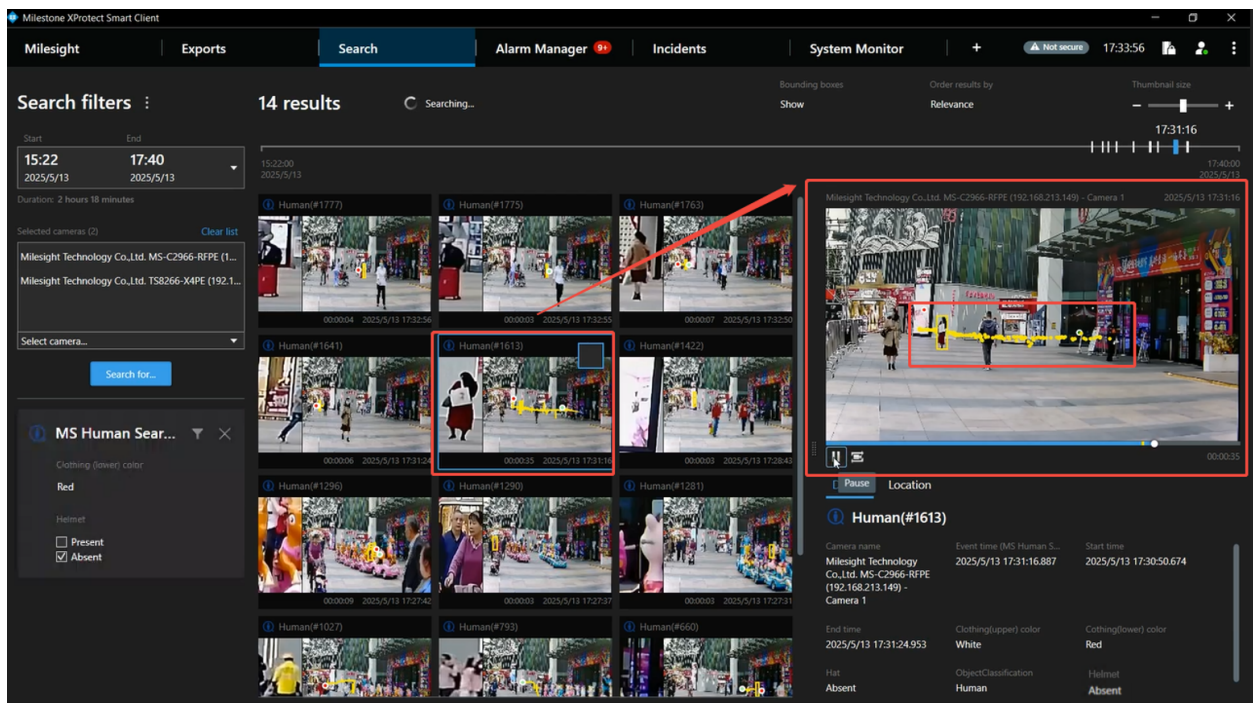
On the Search interface, select the corresponding camera first, then click "Search For" to choose "MS Human Search", and view the search results.



The Milesight plugin is chosen, and its Object Types are displayed like the following image. A set of attribute-specific filters is shown, allowing the user to specify the search criteria. For instance, the user can select "red" to filter out all detected human whose lower clothing color is red.



Users can also view the movement trajectory of the detected human.

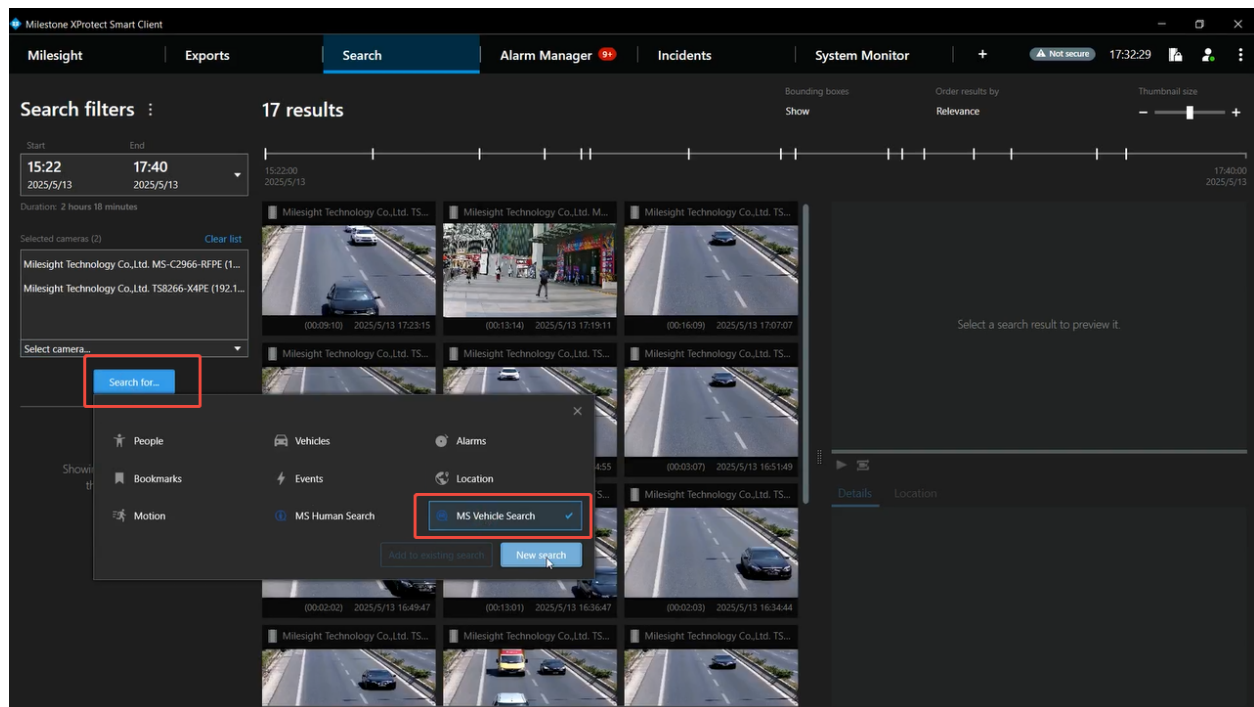


Note:

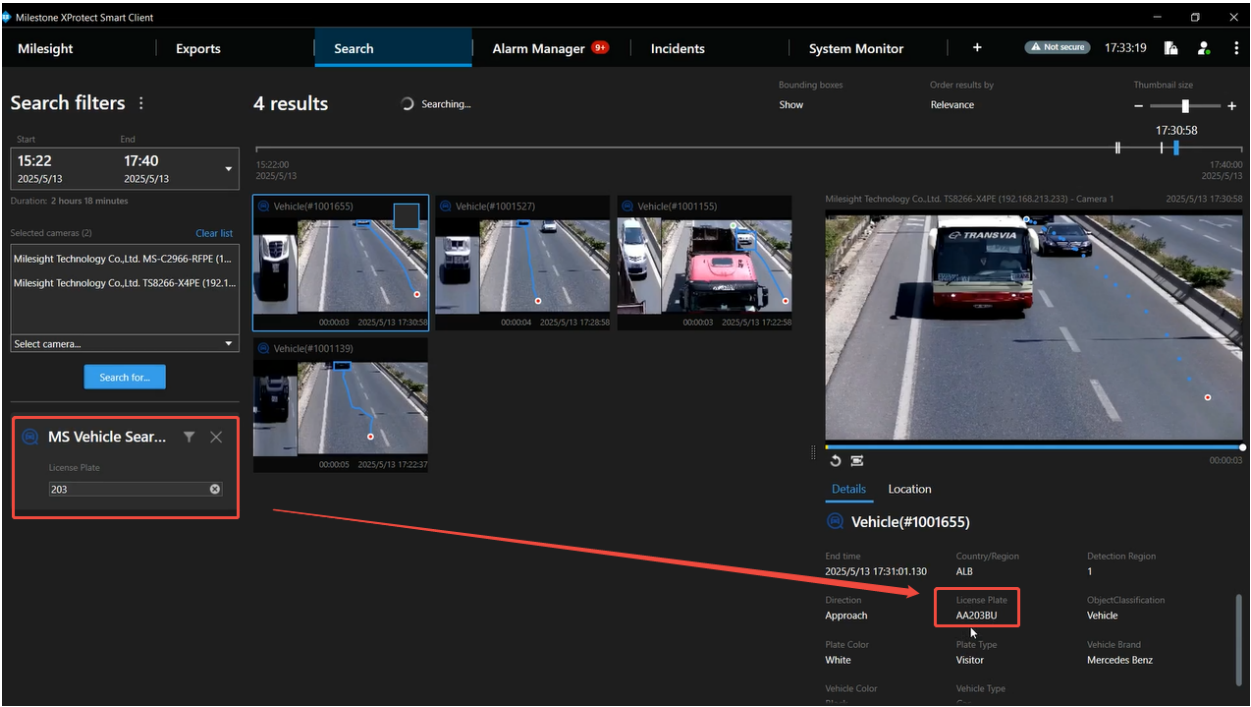
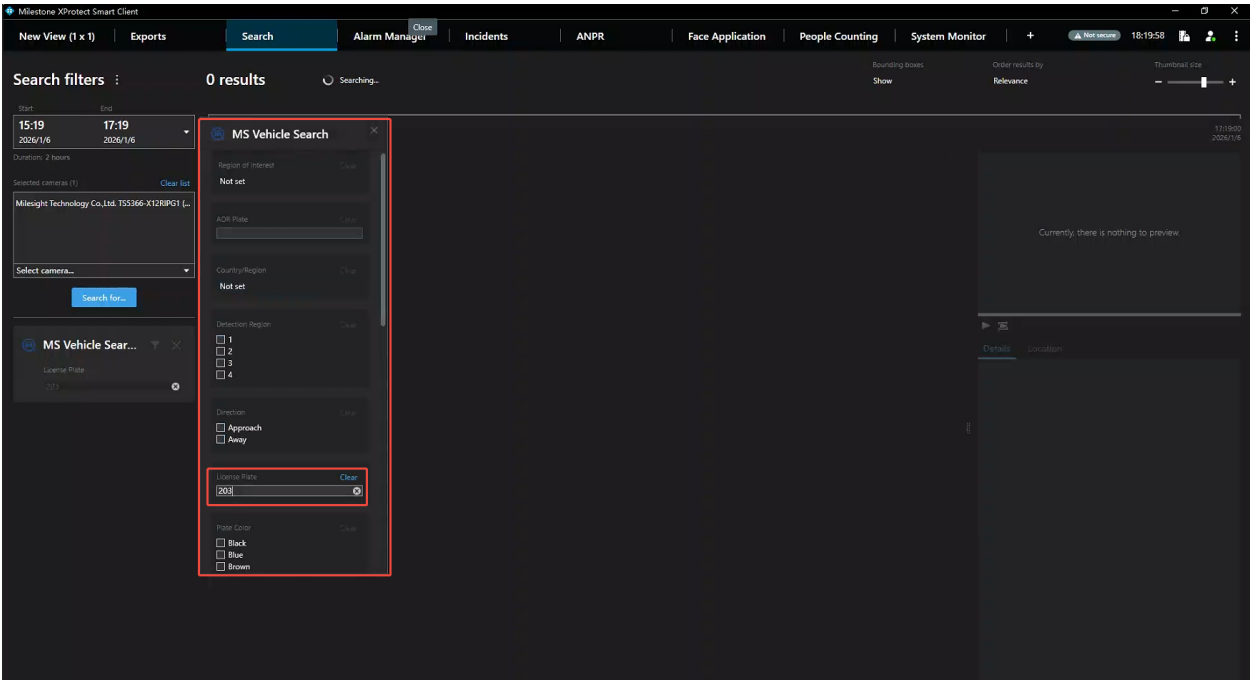
Milesight Video Surveillance Series are compatible with 61.8.0.4-r6 and above. Attribute recognition search requires version 8.0.5.

Searching for Vehicle Detection Results

On the Search interface, select the corresponding camera first, then click "Search For" to choose "MS Vehicle Search", and view the search results.



You can also find desired results by selecting specific attributes and view the movement trajectory of the detected vehicles.



Note: Milesight Intelligent Traffic Series are compatible with T_61.8.0.4-r2 and above.

4.5 Object and the Corresponding Attributes

Table 2. Metadata Objects and Attributes

Camera Series	Camera Name Rules	Objects	Attributes
Milesight Video Surveillance Series	Model number starting with MS-C, without "L" in ending letters. E.g. MS-C5372-FPE	Person	Hat
			Upper Clothing Color
			Lower Clothing Color
			Helmet
			Vest
		Vehicle	Type
			Color
		Face	Gender
			Age
			Mask
			Hat
			Glasses
Intelligent Traffic Series	Model number starting with TS. E.g. TS4441-X36RPE	Vehicle	Color
			Type
			Brand
			Speed
			Direction
		License Plate	ADR Plate
			Number
			Color
			Country/Region

Camera Series	Camera Name Rules	Objects	Attributes
			Plate Type

Table 3. Supported Vehicles and Vehicle Brands

Attributes	Values
Vehicle Brands	Audi, Aston Martin, Alfa Romeo, Buick, Mercedes Benz, BMW, Honda, Peugeot, Porsche, Bentley, Bugatti, Volkswagen, Dodge, Daewoo, Daihatsu, Toyota, Ford, Ferrari, Fiat, GMC, MITSUOKA, Haval, Geely, Jeep, Jaguar, Cadillac, Chrysler, Lexus, Land Rover, Lincoln, Suzuki, Rolls-Royce, Lamborghini, Renault, Mazda, MINI, Maserati, Maybach, Acura, Opel, Chery, Kia, Nissan, Skoda, Mitsubishi, Subaru, Smart, Ssangyong, Tesla, Isuzu, Chevrolet, Citroen, Hyundai, Infiniti, Mercury, Saturn, SAAB, LYNK&CO, MG, Pagani, Spyker, BYD, McLaren, Koenigsegg, Volvo, Lancia, Shelby, Seat, CUPRA, Dacia, DS, IKCO, Lifan, Saipa, AITO, Alpine, BAIC, Daimler, Dongfeng, Eunos, Foton, Great Wall, Holden, Hongqi, JAC, LDV, Leapmotor, Li Auto, Lotus, NIO, Samsung, Scion, TVR, Vauxhall, XPENG, AION, Bestune, Changan, ORA, Trumpchi, VinFast, Wuling, Xiaomi, HINO, ZEEKR
Vehicle Types	Non-motorized Vehicles: Bicycle, Scooter (Scooter/ E-scooter) Motorized Vehicles: Car, Bus, Ambulance, Fire Engine, Mini Truck, Motorcycle, MPV, Pick-up, SUV, Trailer, Truck, Van

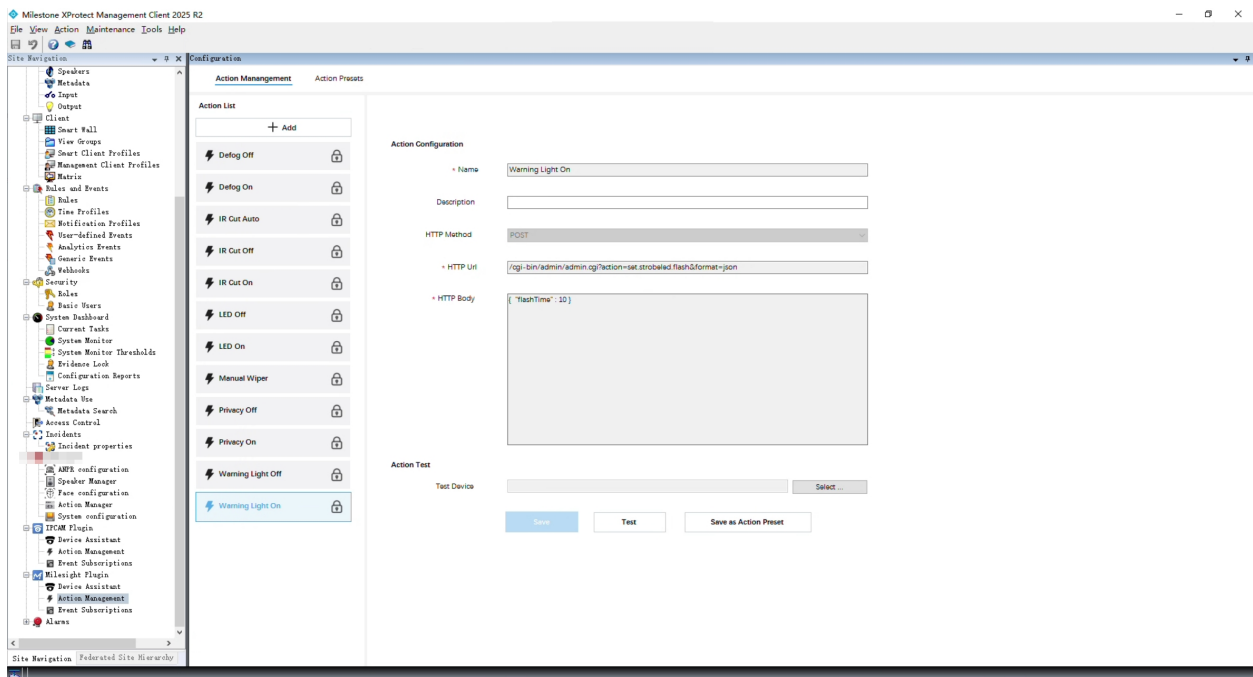
Chapter 5. Action Integration

Users can directly configure alarm-linked actions for Mileight cameras (such as warning lights, heating, or defogging) in XProtect Management Client. These actions can be executed in batches or triggered manually.

Action Management allows users to add and edit all actions in the system. Users can then configure actions and select response cameras when setting up event rules, while **Action Presets** are used to predefine actions and cameras for one-click batch operations.

5.1 Action Management

Step 1: Click **Mileight Plugin --> Action Management** to enter the Action Management page by default.



Step 2: Add a new Action.

Click the "Add" button to create a new action. The configuration options, as shown in the figure below, will be displayed on the right side in the Action Configuration panel.

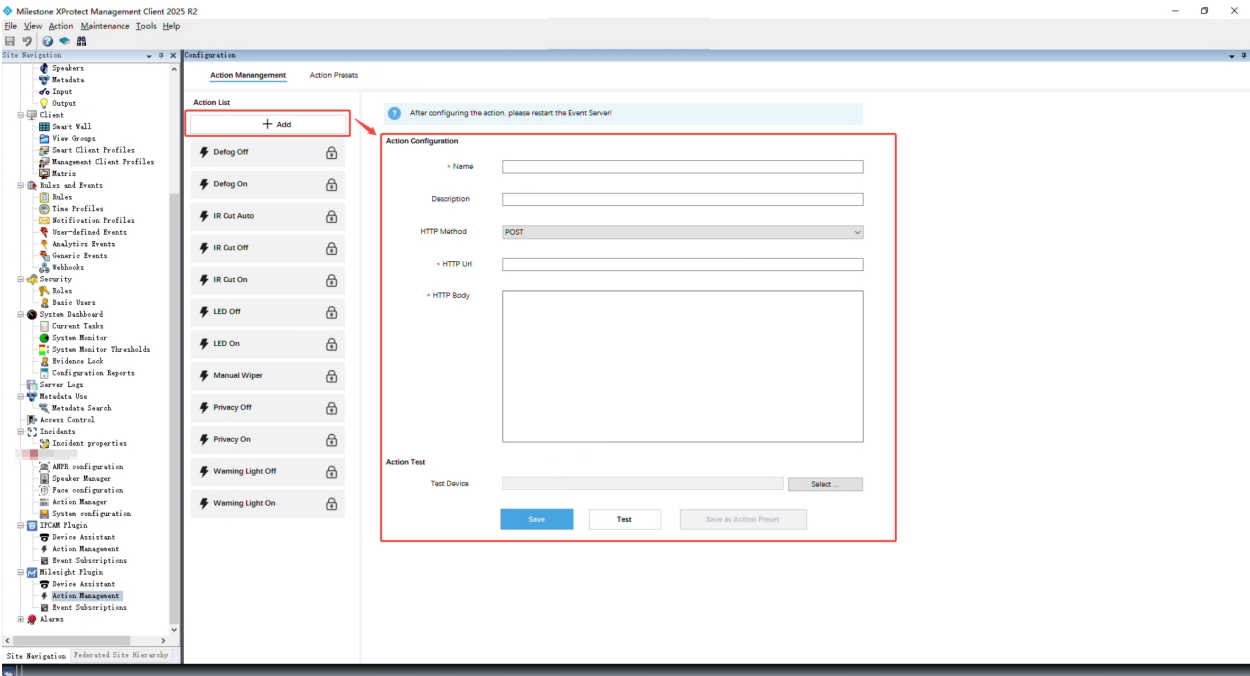
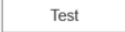


Table 4. Field Description

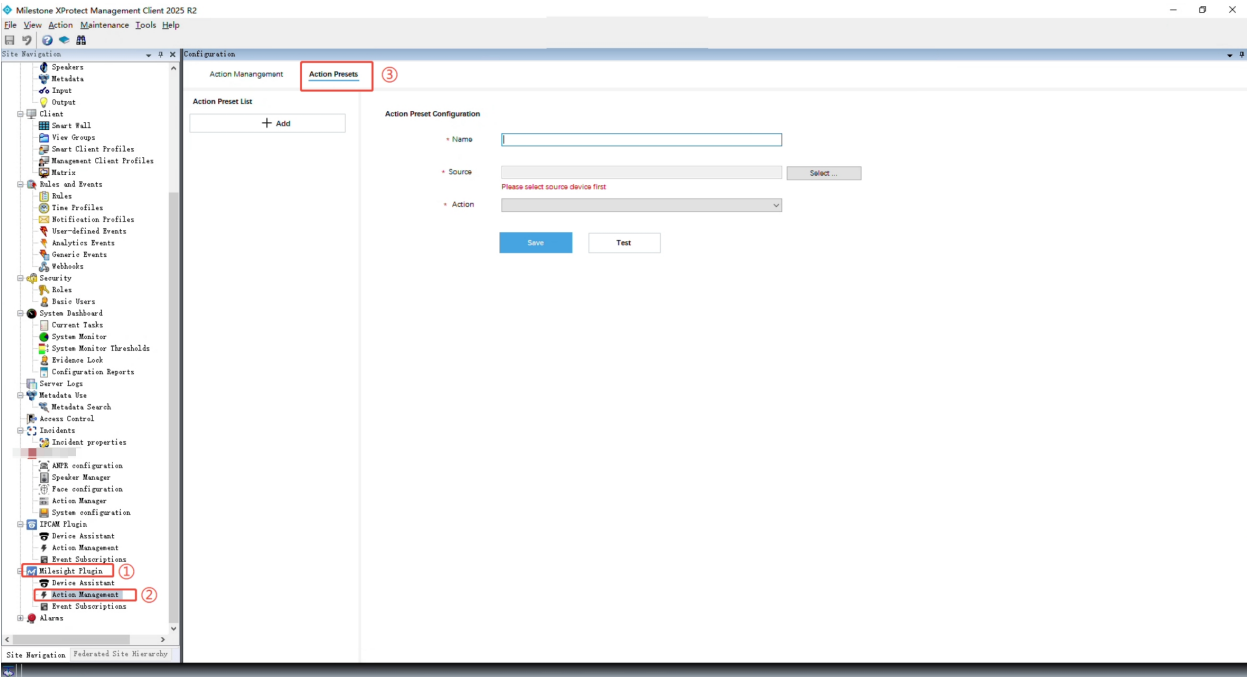
Field Name	Description
Name	Action name. Used to uniquely identify the action.  Note: Must not duplicate existing names.
Description	Additional information about the action, for easier management. (Optional)  Note: Up to 128 characters.
HTTP Method	HTTP request method. (GET or POST; POST is selected by default).
HTTP Url	Target URL for the HTTP request.
Request Body	Content of the HTTP request body.
	Select device(s) for testing the request. Multiple selections are supported.
	Test the validity of the current action configuration.

Field Name	Description
	Save the current action configuration. 1. When adding a new action, you must click  button to test the configuration and ensure at least one successful result before saving. 2. When editing an action, you can save changes to the name, description, or test device without retesting; other changes require retesting. 3. After saving, the action will appear in the Event Rule's action list and can be assigned to rules.
	Create a new Action Preset based on the current Action configuration.

 **Note:** After configuring the action, please restart the Event Server to ensure the action configuration takes effect.

5.2 Action Presets

Step 1: Click **Milesight Plugin --> Action Management --> Action Presets** to enter the configuration page.



Step 2: Add a new Action Preset.

Click the "Add" button to create a new action preset. The configuration options, as shown in the figure below, will be displayed on the right side of the panel.

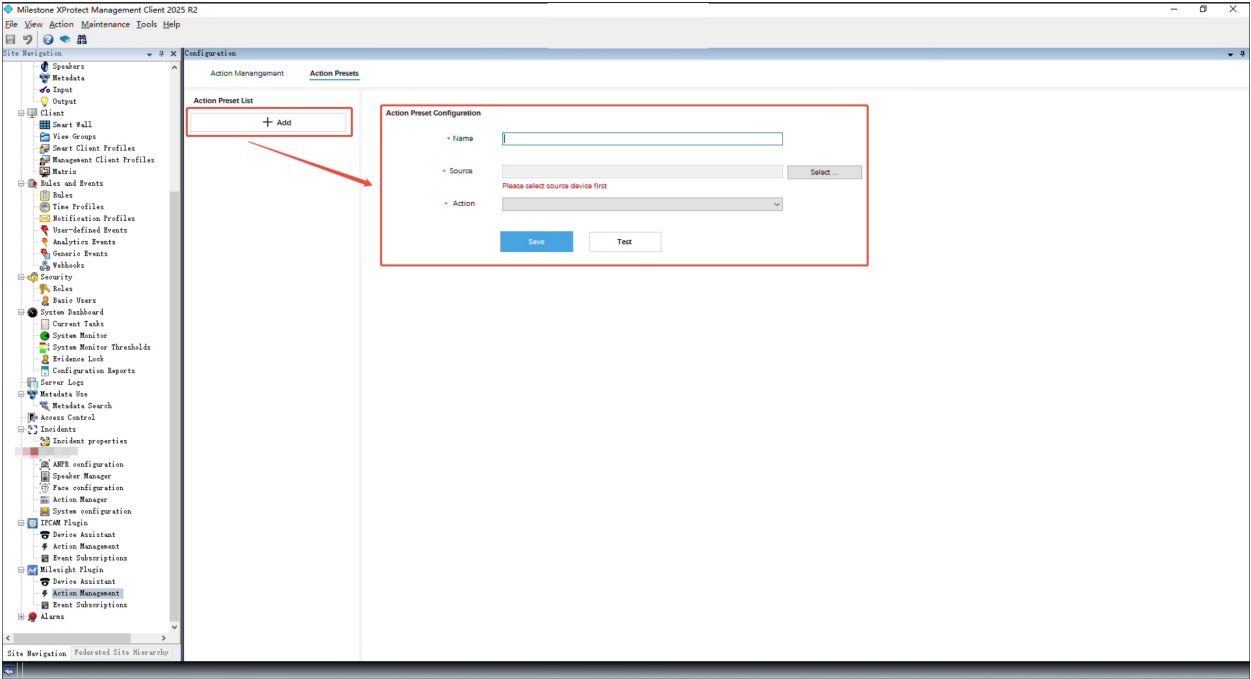


Table 5. Field Description

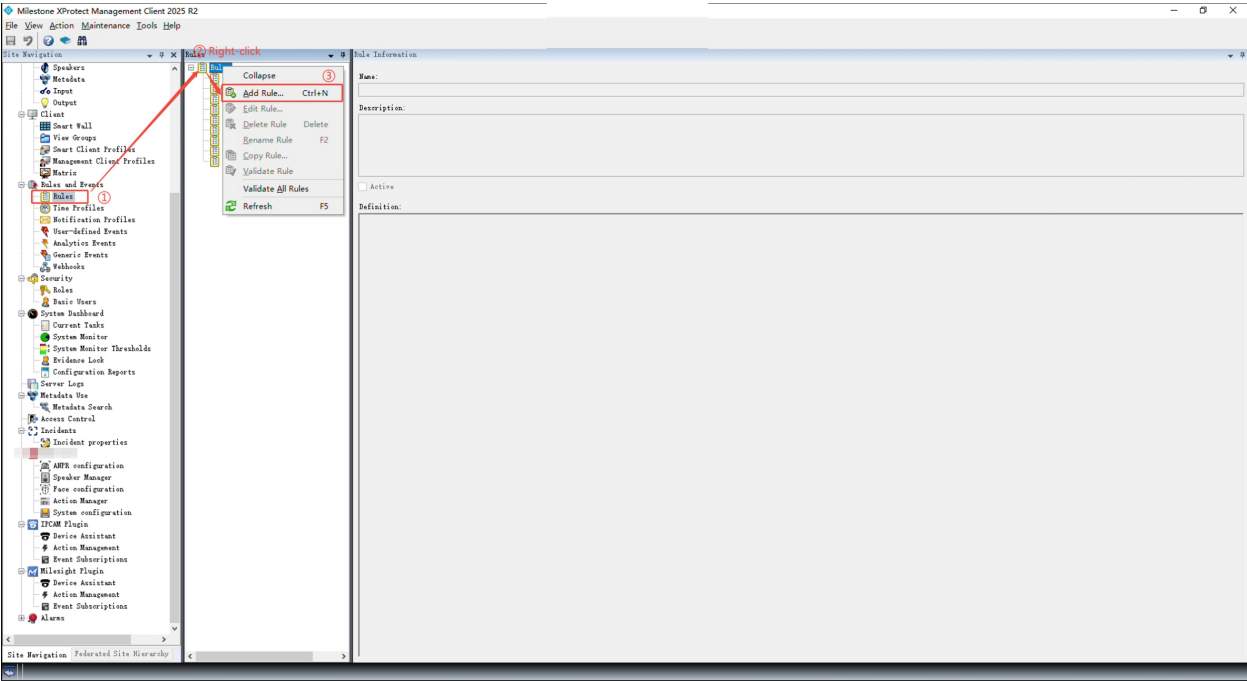
Field Name	Description
Name	Name of the Action Preset.  Note: Must not duplicate existing names.
Source	Select source devices for the action. Supports multiple selection.
Action	Select the associated Action.
	Test the validity of the current action configuration.

Field Name	Description
	Save the current action configuration. 1. When adding a new action preset, you must click  button to test the configuration and ensure all selected devices return successful results before saving. 2. When editing an action, you can save changes to "Name" without retesting; other changes require retesting.  Note: After modifying the Name, users can refresh the page (F5) to view the update of Action Preset List. 3. After saving, the action will appear in the Event Rule's action list and can be assigned to rules.

5.3 Configure Actions in Event Rules

After adding Actions and Action Presets, users can configure actions or action presets within Event Rule.

Step 1: Navigate to the "Rules" module in the navigation bar. Then right-click on "Rules" in the menu list and choose "Add Rule".



Step 2: Enter the rule name and manage the rule.

a. Select Rule Type

Choose the type of rule you want to create.

Then edit the rule description by clicking the underlined item.

Manage Rule

Name: New Rule 001

Description:

Active: ☒

Step 1: Type of rule

Select the rule type you want to create

☒ Perform an action on <event>

☐ Perform an action in a time interval

☐ Perform an action on a <recurring time>

1

Edit the rule description (click an underlined item)

Perform an action on <event>

from <devices/recording server/management server>

2

Help Cancel < Back 3 Next > Finish

b. Set Conditions

Specify the conditions under which the rule will be applied.

Then edit the rule description by clicking the underlined item.

Manage Rule

Name:

Description:

Active: ☒

Step 2: Conditions

Select conditions to apply

- ☐ Within selected time in <time profile>
- ☐ Outside selected time in <time profile>
- ☒ Within the time period <start time> to <end time>
- ☐ Day of week is <day>
- ☐ While failover is active
- ☐ While failover is inactive
- ☐ Event is from <window>

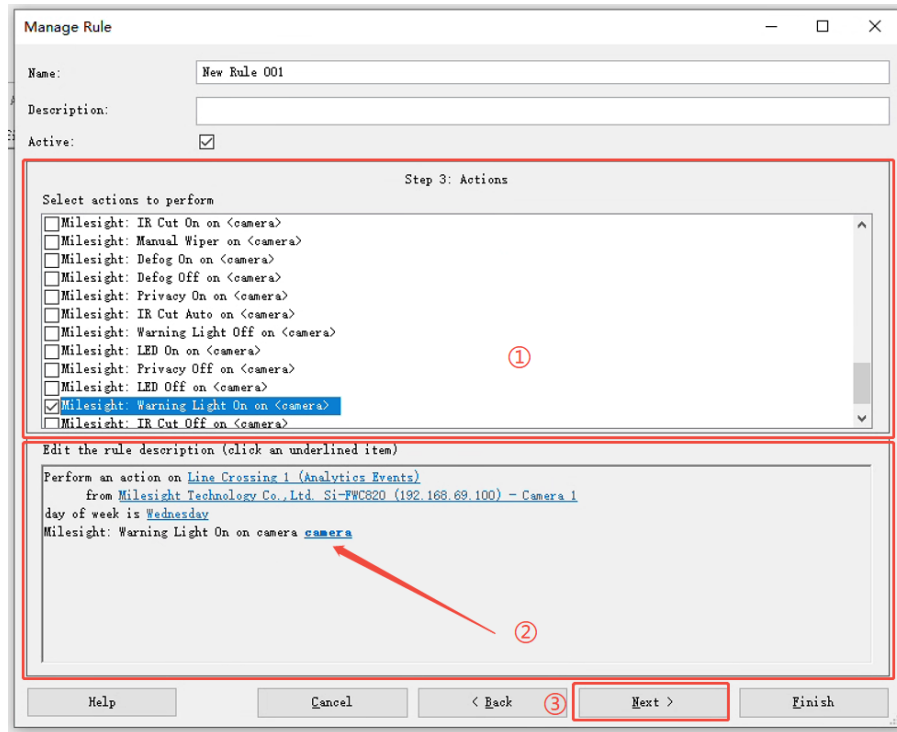
Edit the rule description (click an underlined item)

Perform an action on Line Crossing 1 (Analytics Events)
 from Milesight Technology Co., Ltd. Si-FWC820 (192.168.69.100) - Camera 1
 within the time period start time to end time

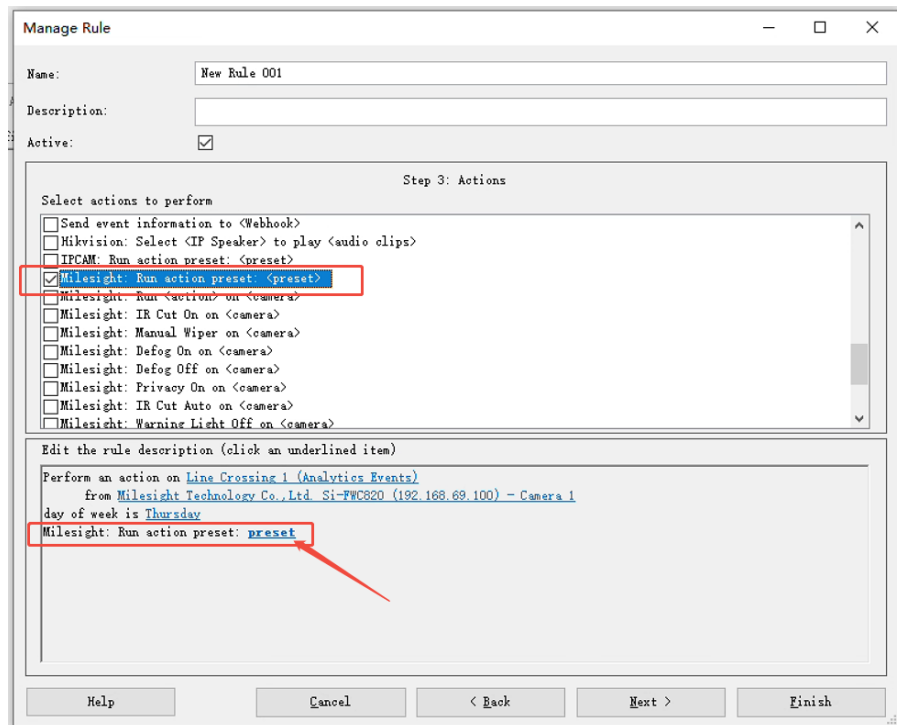
Buttons: Help, Cancel, < Back, Next >, Finish

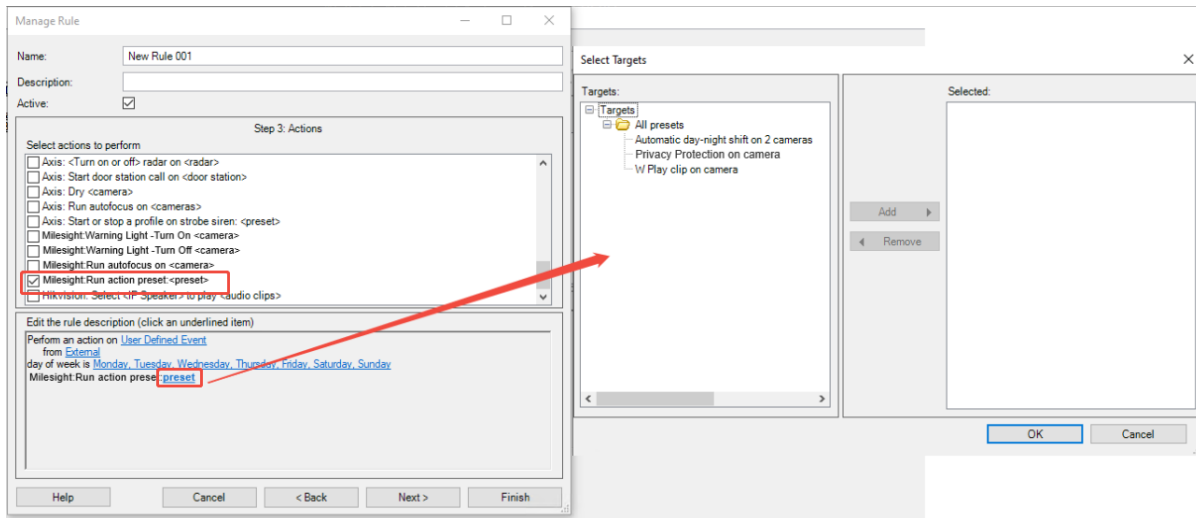
c. Select Actions to Perform.

In this step, specify the actions that will be automatically performed when the rule is triggered. You can select one or more actions for the associated camera(s). Then edit the rule description by clicking the underlined item.



If you select **Milesight: Run action preset: <preset>**, clicking "preset" will open the "Select Targets" popup, where you can view all available preset actions.

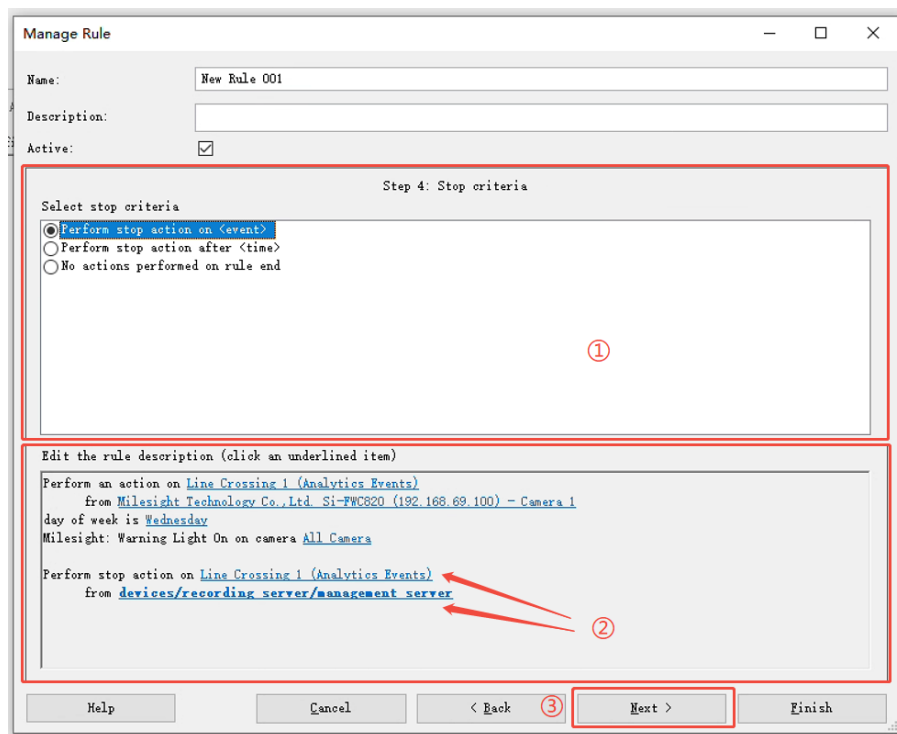


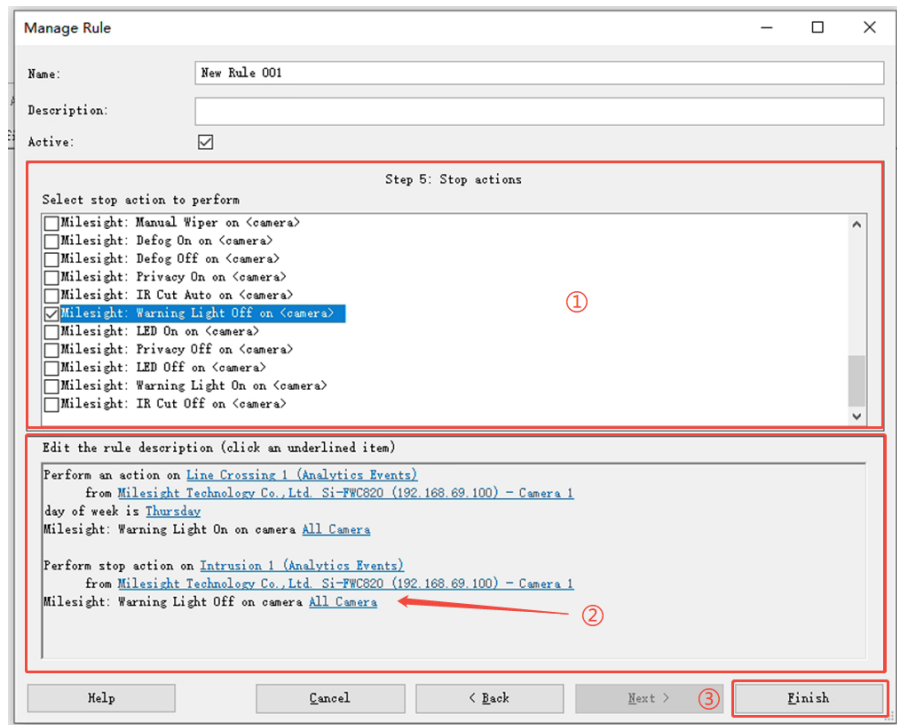


d. Set Stop Criteria and Stop Actions.

In this step, specify the criteria and actions for stopping the actions triggered by the rule.

Then edit the rule description by clicking the underlined item.



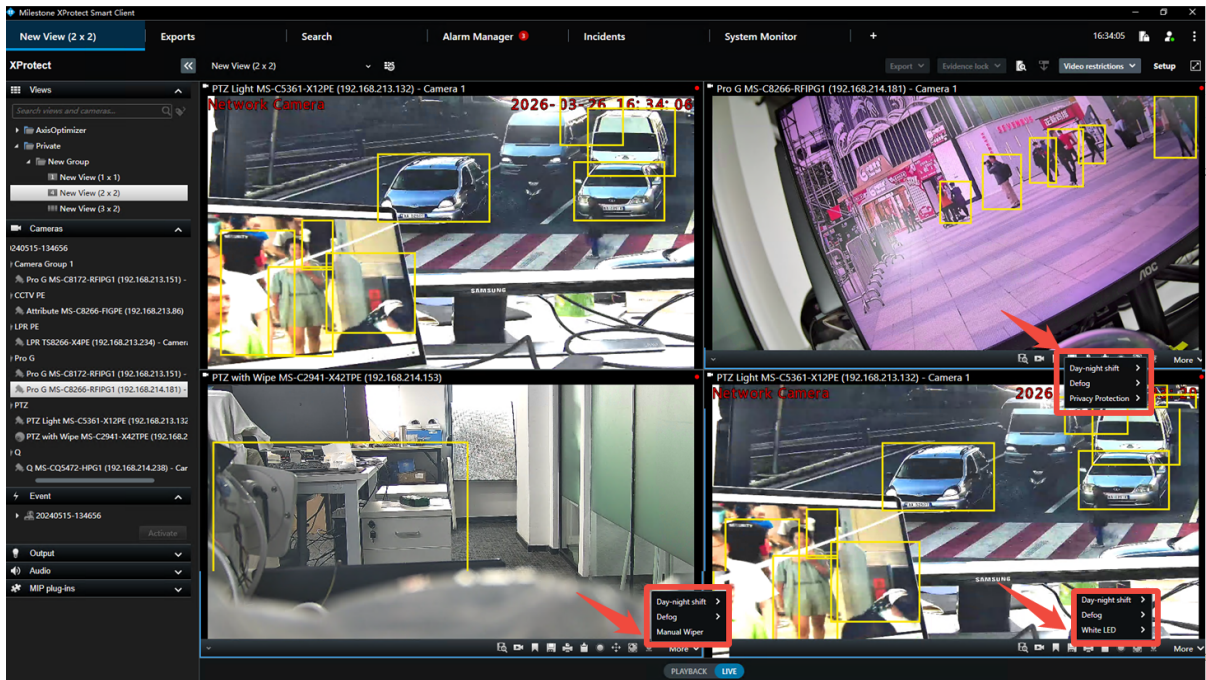


5.4 Manual Action Trigger in Live View

Users can also utilize user-defined events to trigger Actions directly from the Live View page (as shown below) for manual action control.

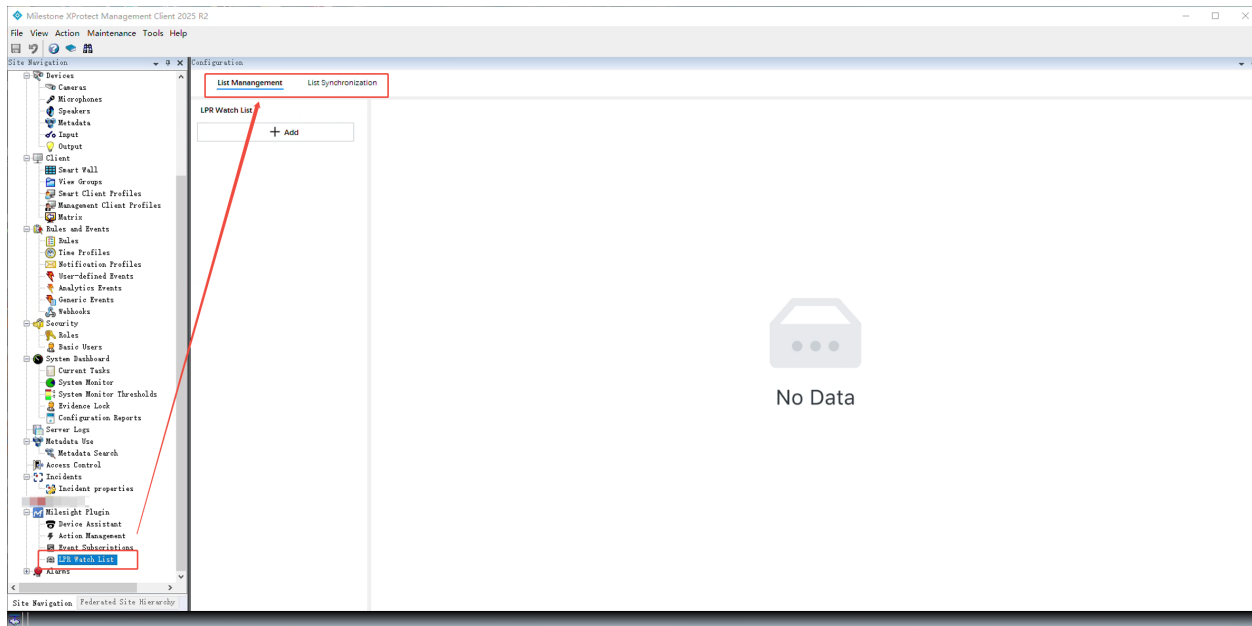
Configuration options may vary by device. The currently supported actions are as follows:

- **Day-night shift:** Auto Mode, Day Mode, Night Mode
- **Defog:** Defog On, Defog Off
- **Illumination Mode:** Auto, IR Mode, Color Mode
- **Manual Wiper**
- **Privacy Protection:** Privacy On, Privacy Off
- **Warning Light:** Warning Light On, Warning Light Off
- **White LED:** LED On, LED Off



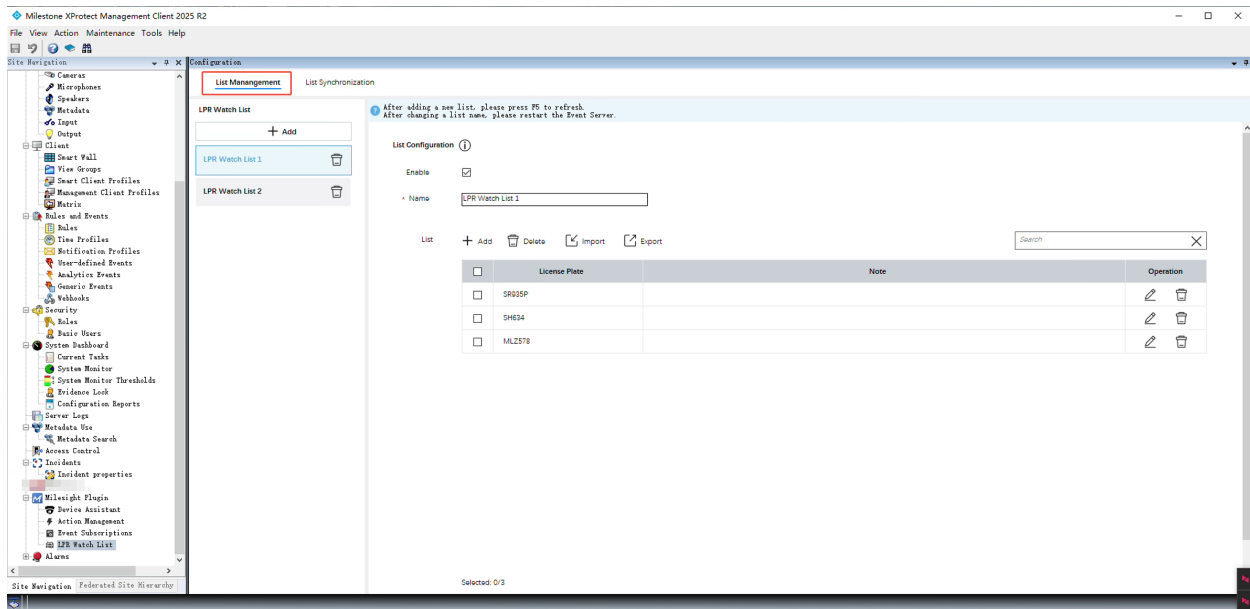
Chapter 6. LPR Watch List

The **LPR Watch List** feature allows centralized management and distribution of license plate lists. Users can add and edit license plates of interest in the system, and distribute the list to designated cameras for vehicle recognition and alarm linkage.



6.1 List Management

The **List Management** page allows users to add new entries, display existing data, as well as delete or edit the watch list, enabling efficient and flexible management of license plates.



6.1.1 Watch List Management

Add Watch List

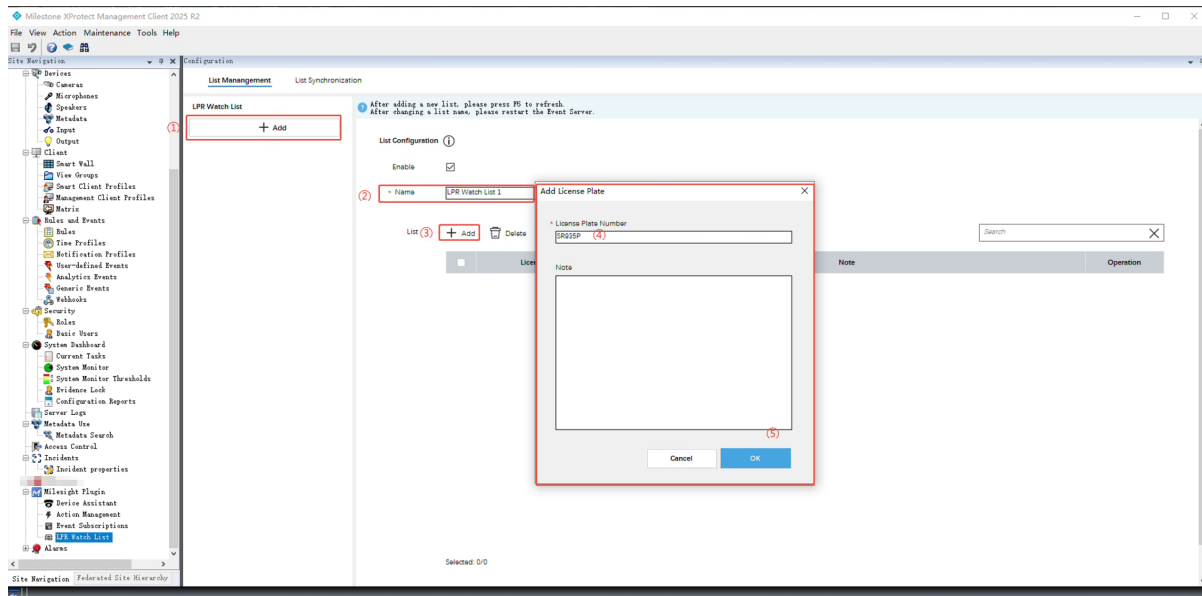
Step 1: Click the  **Add** button to display the List Configuration details.

Step 2: Enter the name of the list.

Step 3: Click the **Add** button in the List Configuration section, then enter the **License Plate Number** and click **OK**.

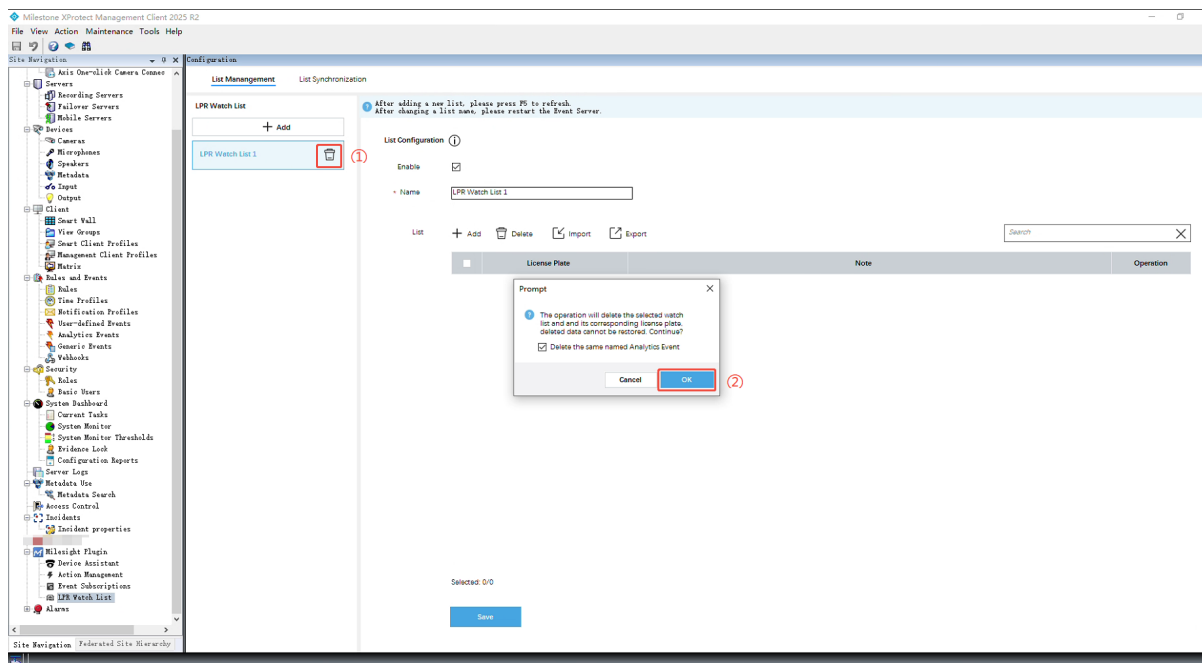
Note:

- After configuring the List, please press F5 to refresh the changes in Rules.
- When a List is created, Analytics Events with the same name are automatically created to trigger the watch list event. When the List is disabled, the corresponding watch list events cannot be triggered!
- Support creating up to 64 watch lists.



Delete Watch List

Users can click the delete button on the left to remove items from the list.



Edit Watch List

Step 1: On the **List Management** page, you can make the following changes:

- Modify the **Watch List Name** or **Enable/Disable** the list.

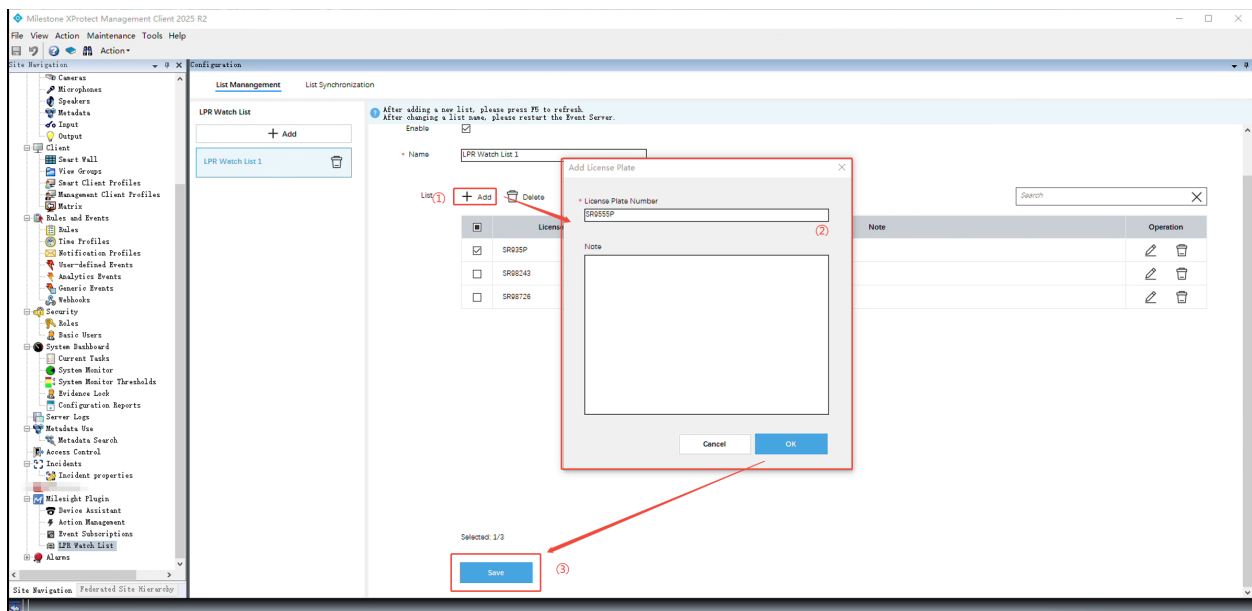
- Manage the license plates under the list: **Add, Edit, Delete** or **Import** Plates. For details, please refer to [6.1.2 License Plate Management \(page 43\)](#).

Step 2: After making changes, click the **Save** button at the bottom left to save your updates.

6.1.2 License Plate Management

6.1.2.1 Add License Plate

Click  button in the List Configuration section, enter the license plate number you want to add, and then save the addition.



Note:

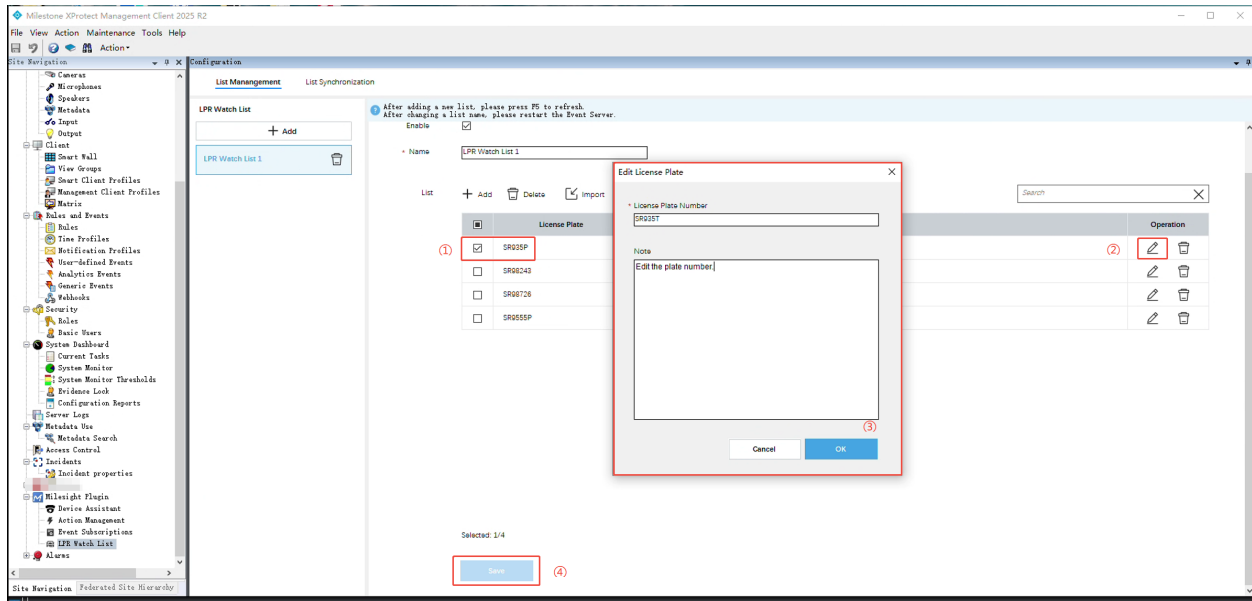
- Supports up to 32 characters of any type for the license plate number.
- Each watch list can add up to 2000 license plates!

6.1.2.2 Edit License Plate

Step 1: In the license plate data table, select the plate and click the  button in the Operation column to modify the license plate number.

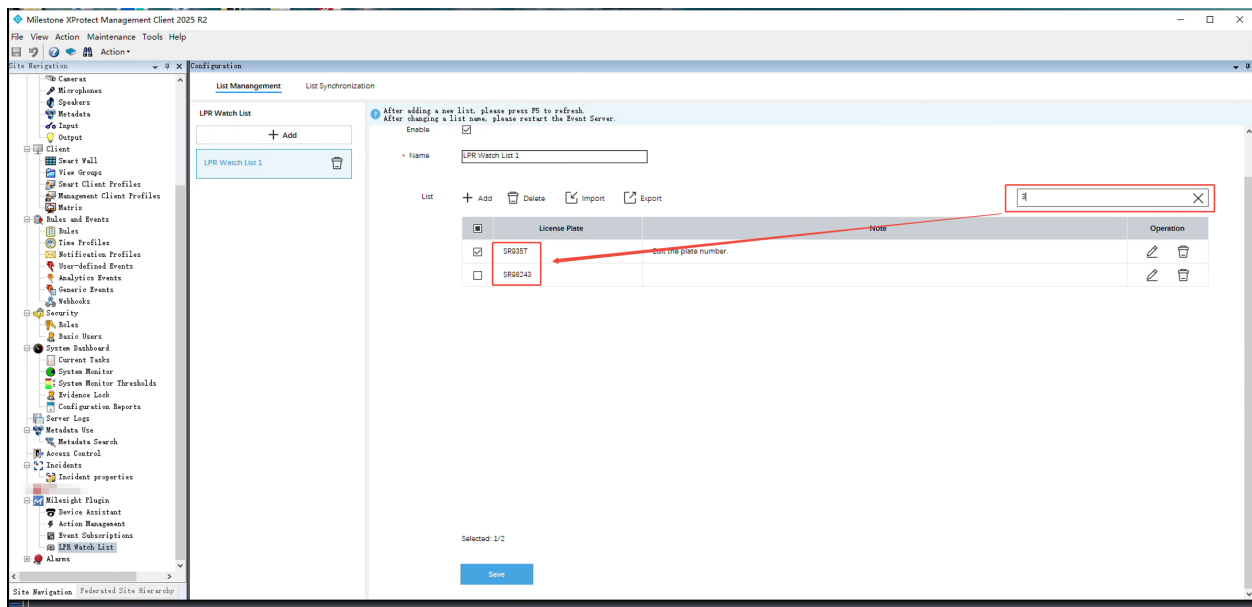
Step 2: After making changes, click **OK** to update the license plate data in the table.

Step 3: Click **Save** to save the modifications.



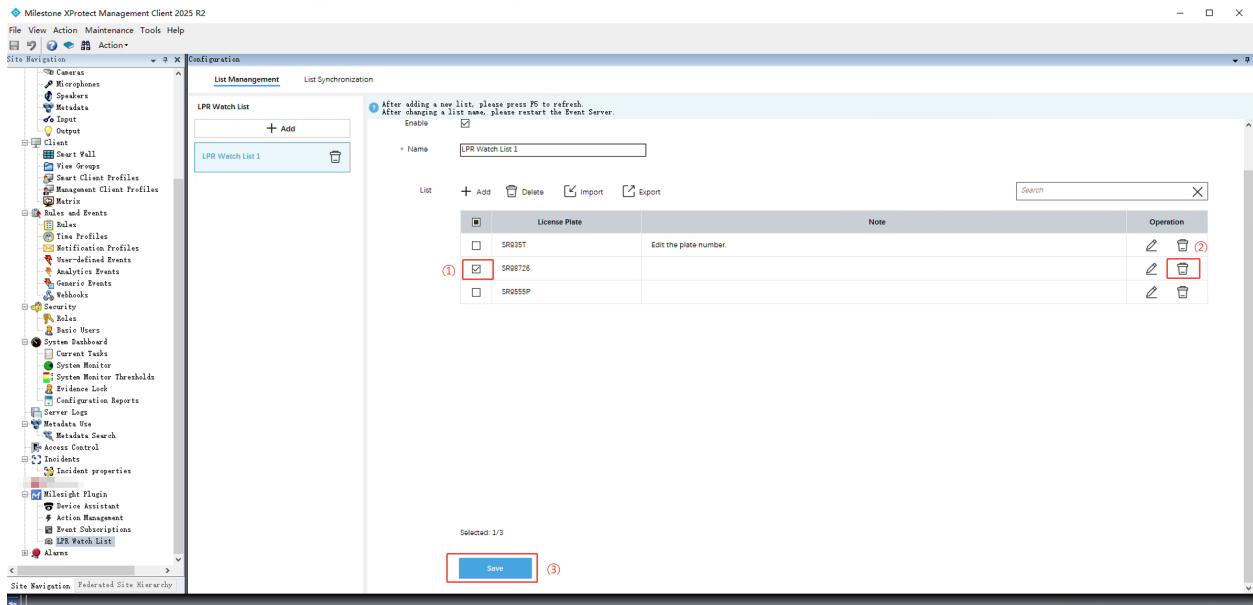
6.1.2.3 Search for a License Plate

User can use the search box in the upper right corner of the data table to perform fuzzy searches for license plate numbers and notes in the current list.

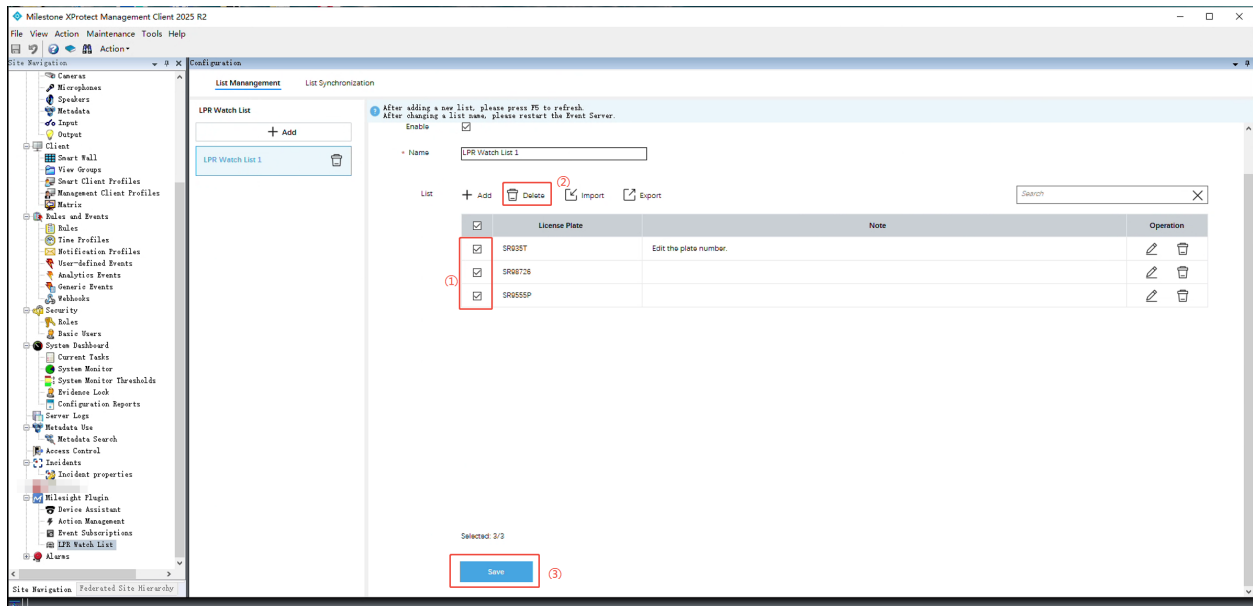


6.1.2.4 Delete License Plate

Step 1: Select the plate and click the  icon in the Operation column to remove the corresponding row from the table.

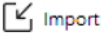


You can also click the  **Delete** icon in the upper left corner of the table to batch delete the selected rows.



Step 2: Click **Save** to save your changes.

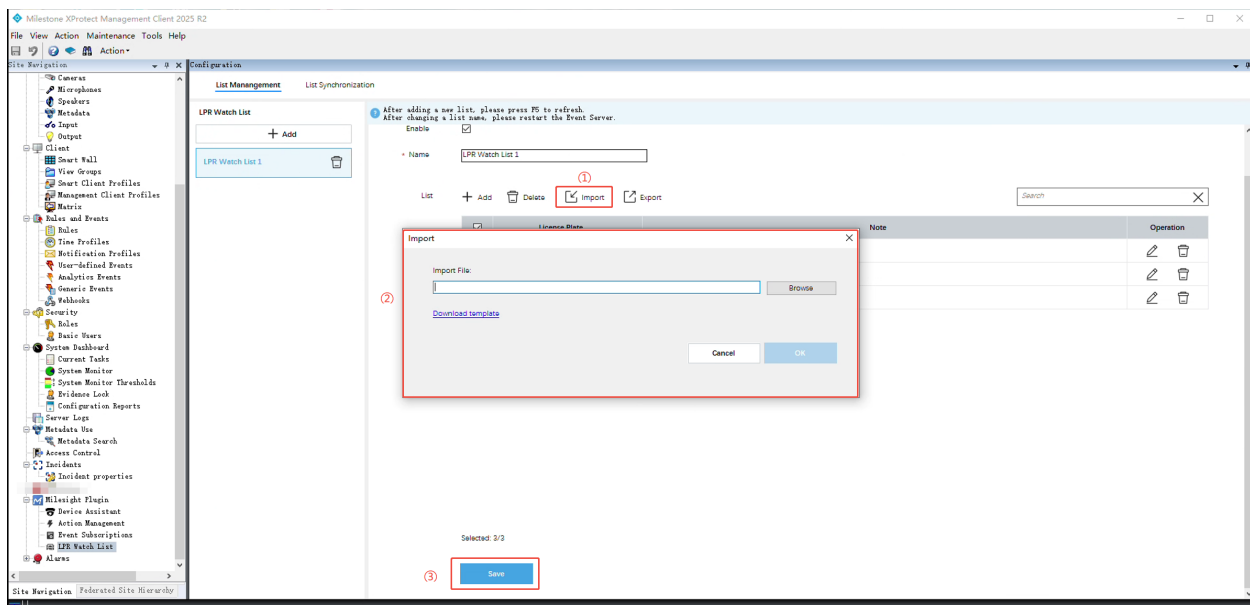
6.1.2.5 Import License Plate

Step 1: Click the  icon.

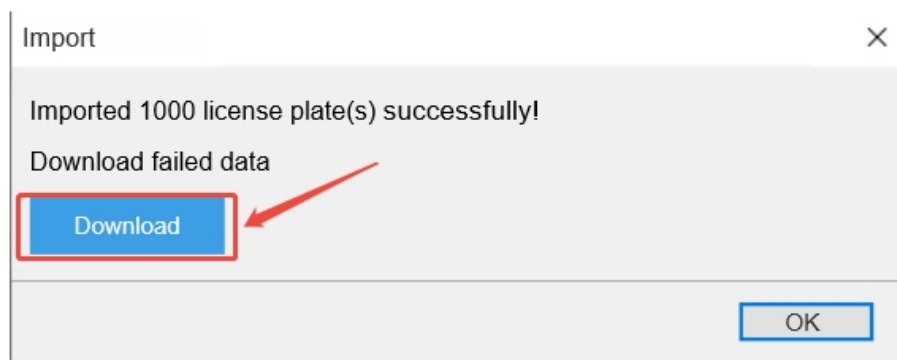
Step 2: In the pop-up window, click **Browse** to select the file you wish to import, and then click **OK** to proceed.

 **Note:** Only CSV files are supported for import.

Alternatively, you can click **Download template** to download the template file (default name: "License Plate template.csv"), fill in the license plate data, and then import the file.



 **Note:** When importing data, if there are failed records, users can download the failed data, review the specific issues, and re-import after corrections.



Possible Error Reasons:

- License plate data error:

License plate is empty or does not meet the required format.

- Duplicate license plates:

If the same license plate is imported multiple times, only the first one will be accepted; the rest are considered duplicates. License plates that already exist in the group are also treated as duplicates.

- Note data error:

The Note field exceeds the maximum allowed length.

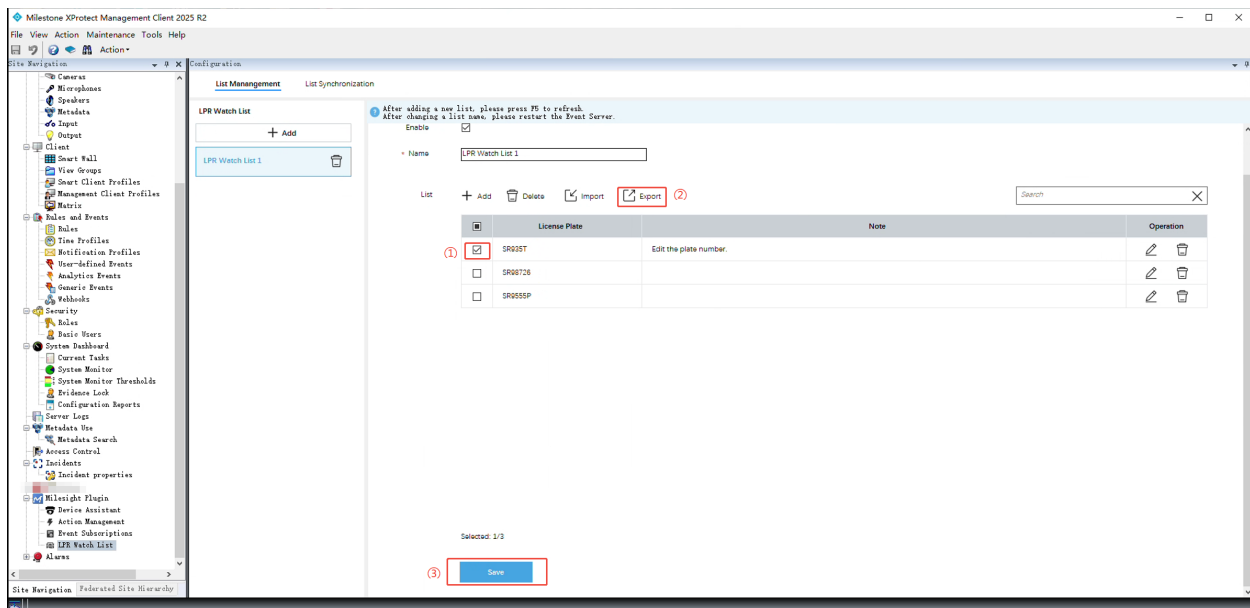
- Others

After correcting the errors, re-import the data. Click the **OK** button to complete the import process.

Step 3: Click **Save** to finish the import.

6.1.2.6 Export License Plate

Select the license plate and click the  **Export** button.

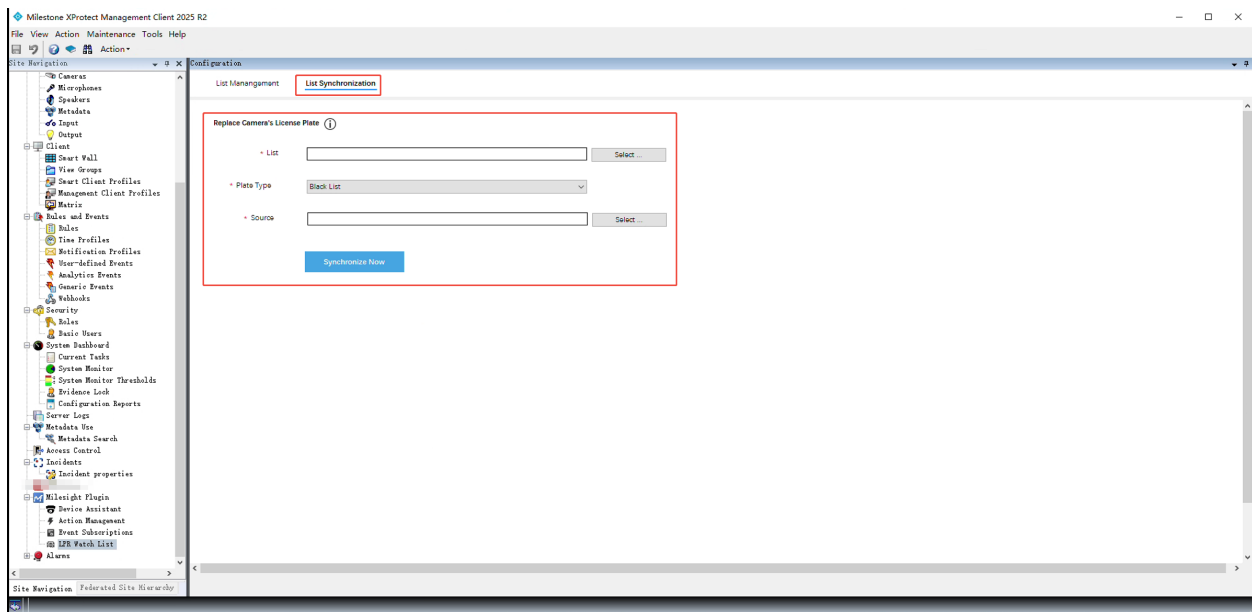


 **Note:**

- The default export path is the Milestone XProtect client installation directory, for example: `D:\Milestone\XProtect Management Client`. Users can modify the export path as needed.
- Only CSV file format is supported for export.

6.2 License Plate Distribution

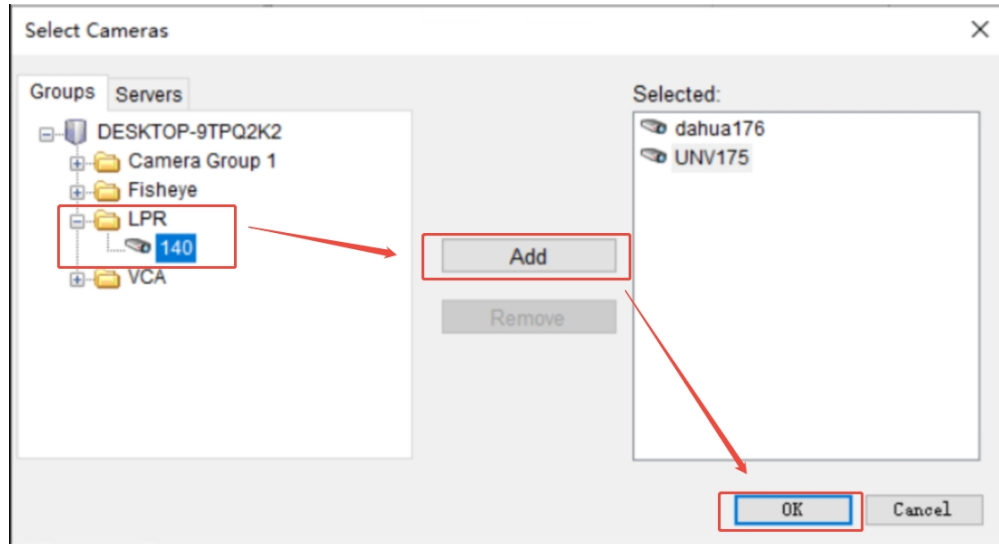
The **List Synchronization** page allows users to select one or more Watch Lists and synchronize the license plate data (based on the specified Plate Type) to selected LPR cameras.

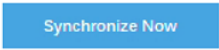


Step 1: In the List section, click the **Select** button to select one or more watch lists as needed. Then click **OK** to confirm and complete the selection.

Step 2: Select the **Plate Type**(**Black List** or **White List**). By default, **Black List** is selected.

Step 3: Click **Select** to choose the LRP cameras for distributing the lists. Then, click **Add** to add the selected devices.



Step 4: Click  to distribute the license plates.

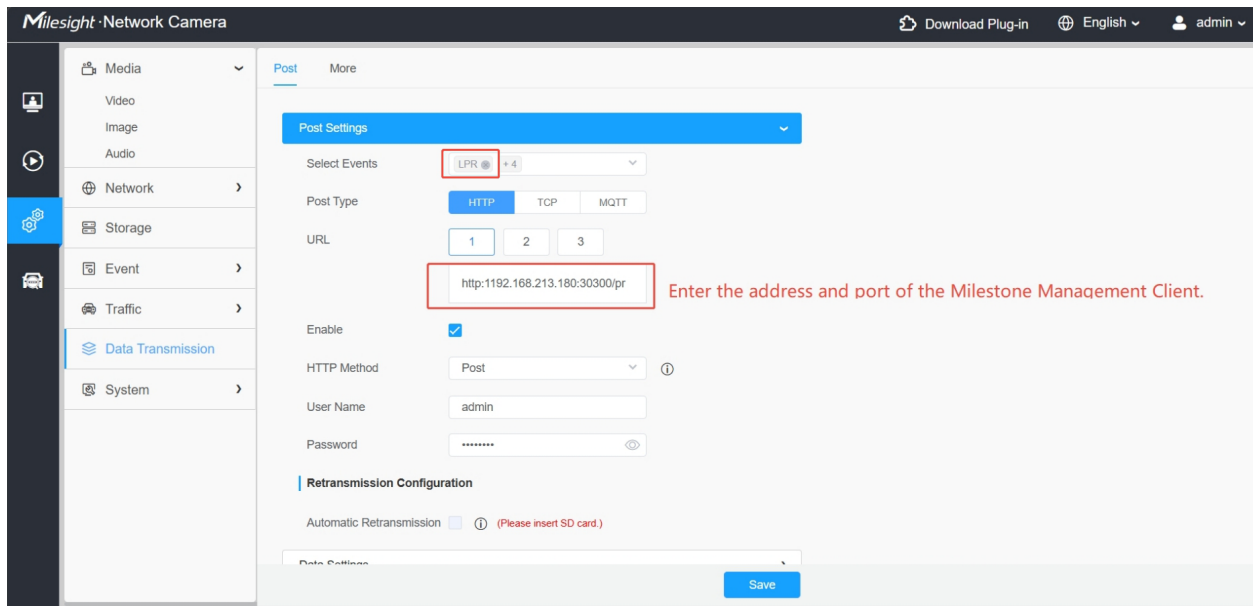
The system will distribute the License Plate Numbers, Plate Type (Black List/White List), and Notes from the selected Watch List(s) to the chosen cameras. **Valid Time** for the license plates is set to **Always** by default.

 **Note:** Up to 100,000 license plates can be distributed.

6.3 Create Analytics Event

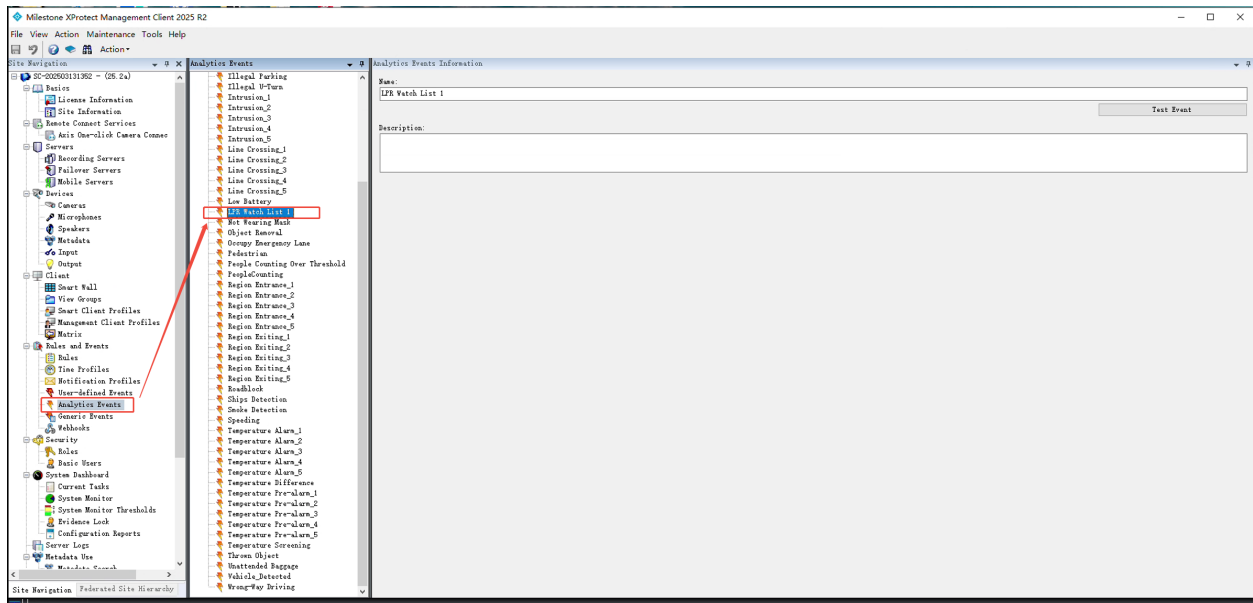
Step 1: Configure the Post address in the camera web.

Set the HTTP or HTTPS Post address (HTTP: <http://ip:41080/lpr>, HTTPS: <https://ip:41443/lpr>) and ensure the ports are whitelisted.



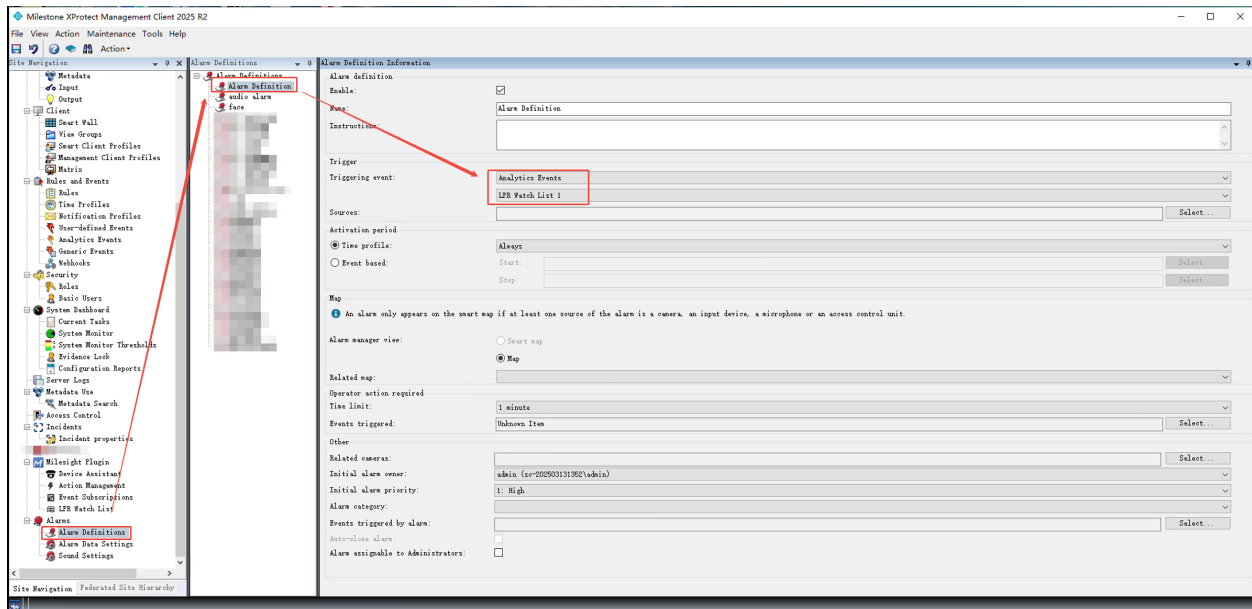
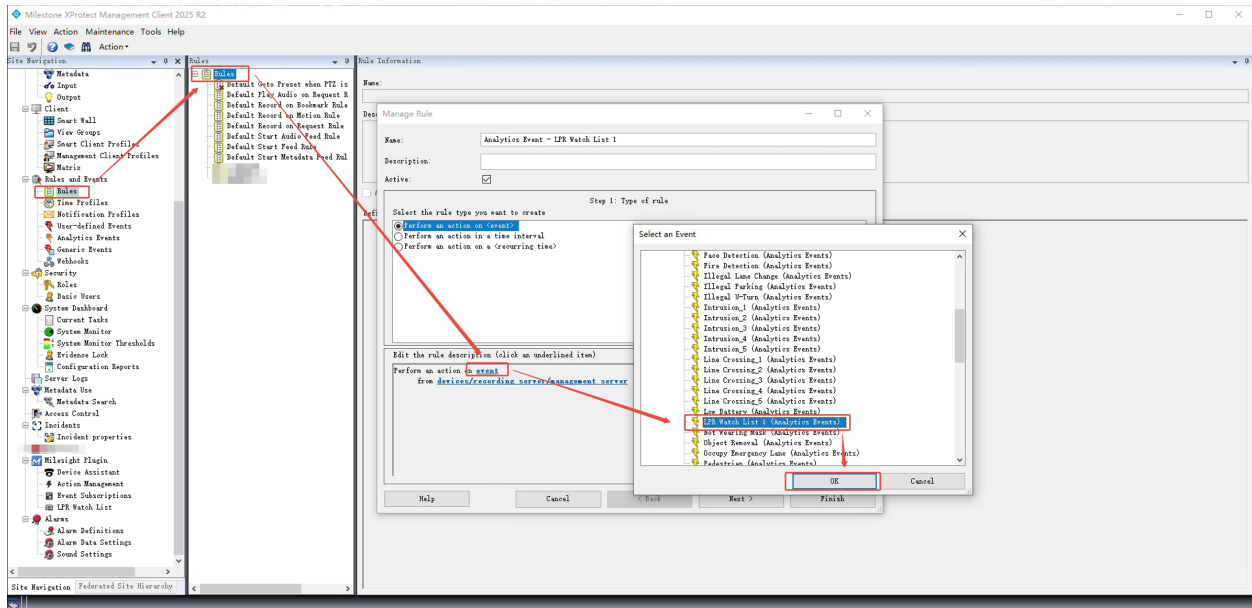
Step 2: Create an Analytics Event.

When a new watch list is created, the system will automatically create an event with the same name under Analytics Events (as shown below).



Step 3: Set up Rules and Alarms

After the Analytics Events are created, you can configure event rules and response actions under **Rules**, and also set up alarm-related configurations under **Alarm Definitions**.



Note: Please ensure that the name of the Watch List is the same as the event name created in step 2.

After completing this configuration, when a license plate in the Watch List triggers the corresponding event, the system will execute the response action or generate an alarm according to the rules.

Chapter 7. Fisheye Dewarping

The new plugin supports multi-mode Fisheye dewarping, such as 1O 3D, 1P, 2P, 4R, 1O4R, 1P1R, 1P4R, 1P6R, and 1O7R. The plugin is not limited to specific camera manufacturers and supports all Fisheye Cameras.

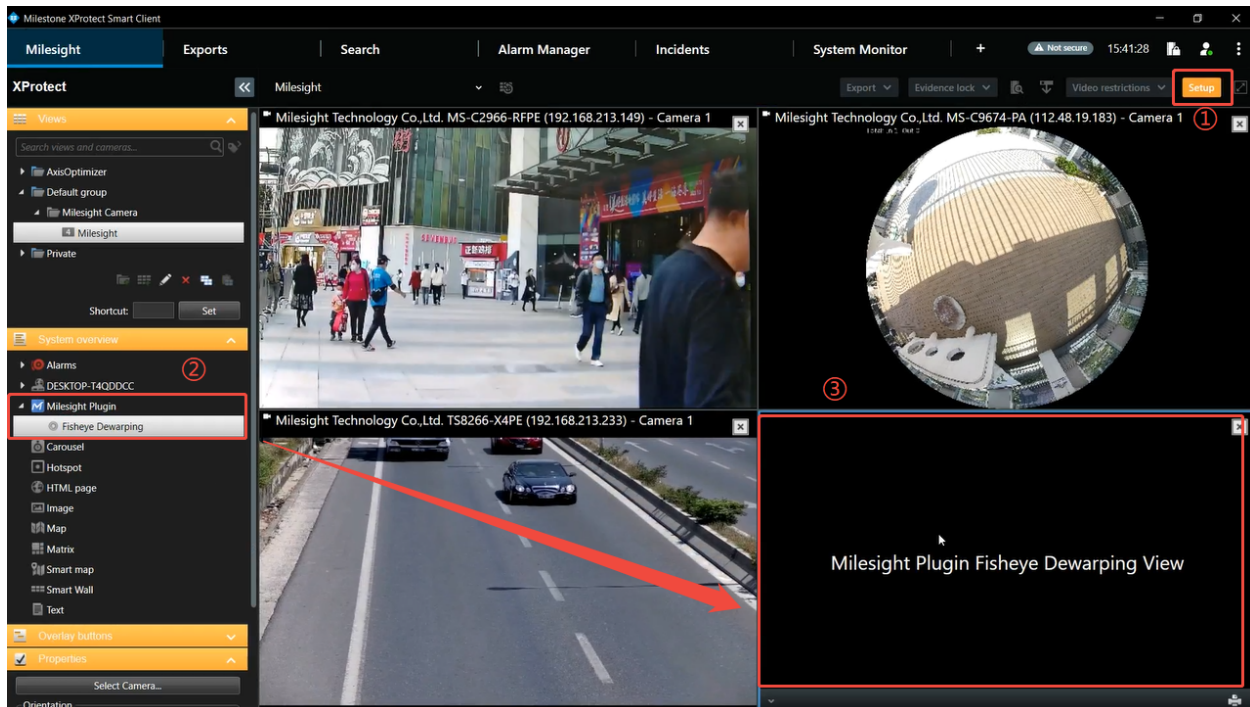
7.1 Configure Fisheye Dewarping

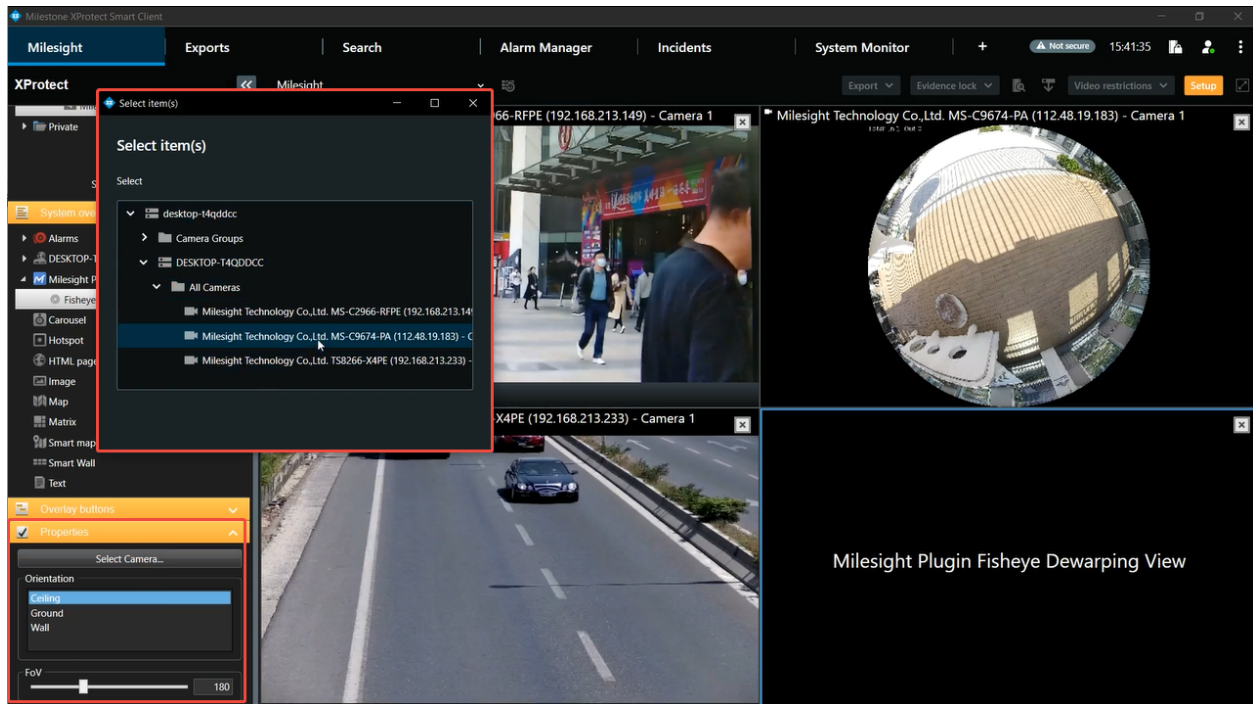
The detailed configuration steps are as follows:

Step 1: In the XProtect Smart Client preview interface, click "Setup" on the right side, drag the Milesight Plugin's Fisheye Dewarping component into the window, and configure the Camera, installation method, and field of view.

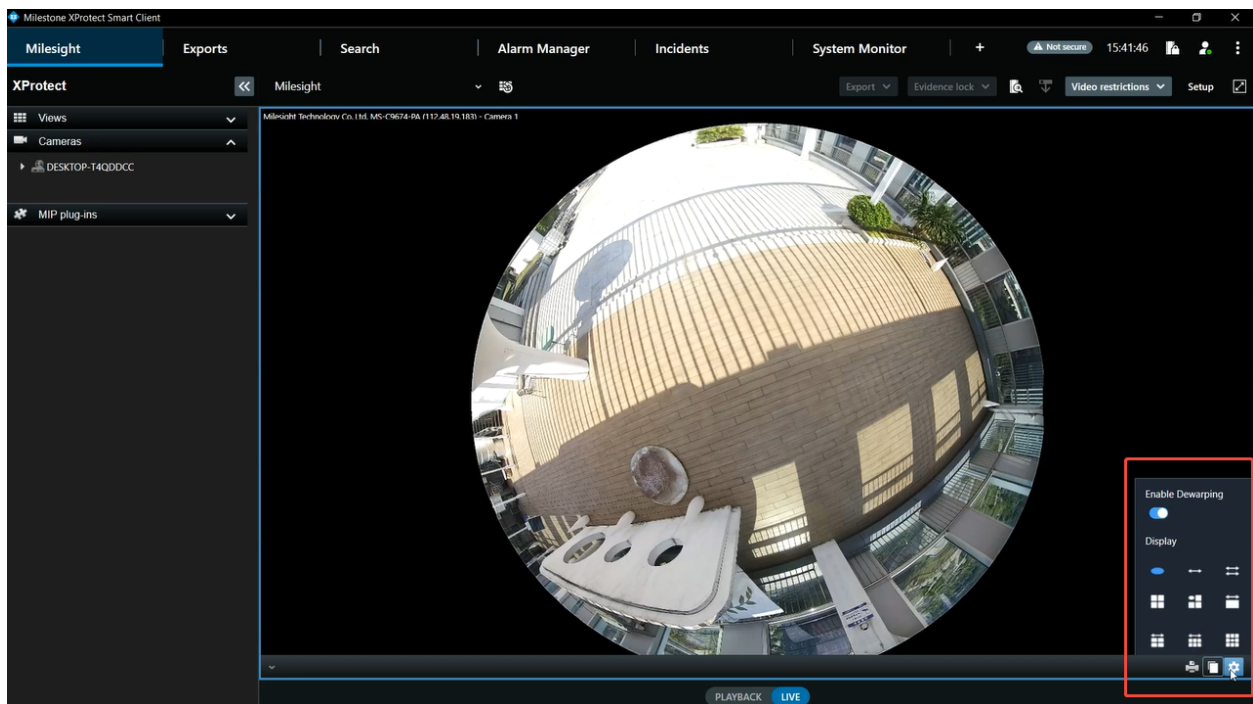
Note:

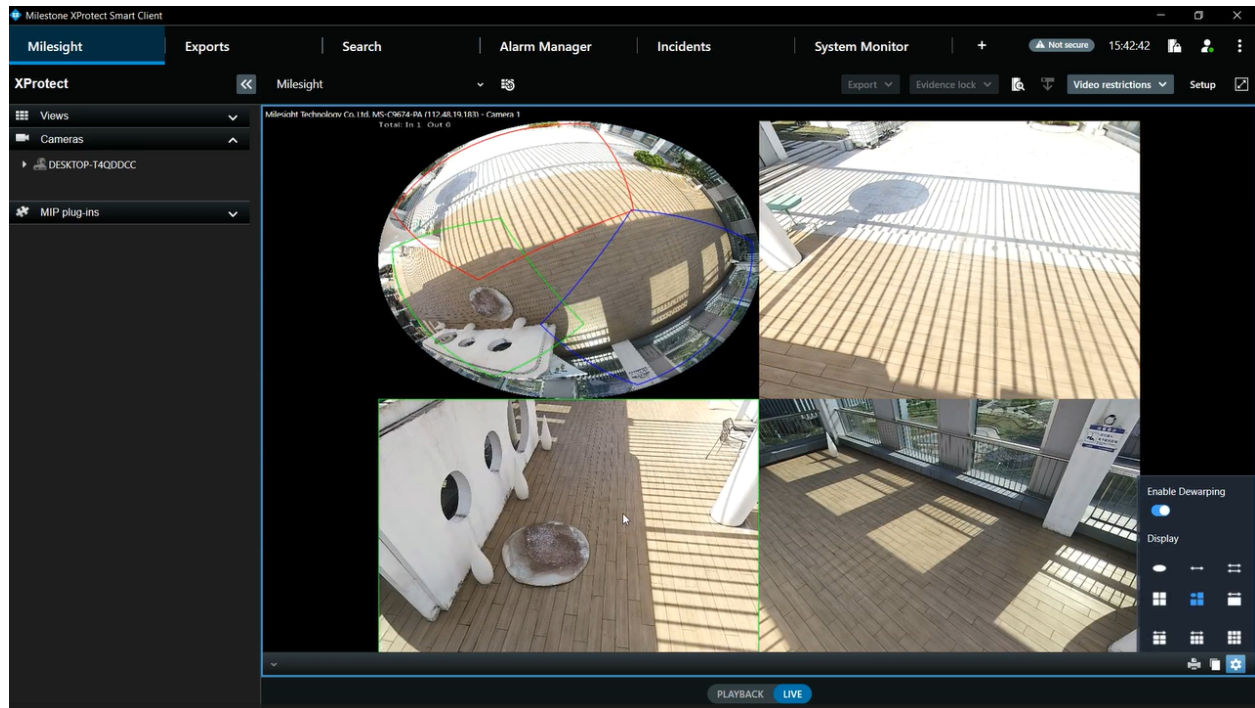
The range of Fov is from 160 to 220, with a default of 180. Users can set the appropriate field of view angle according to the camera.



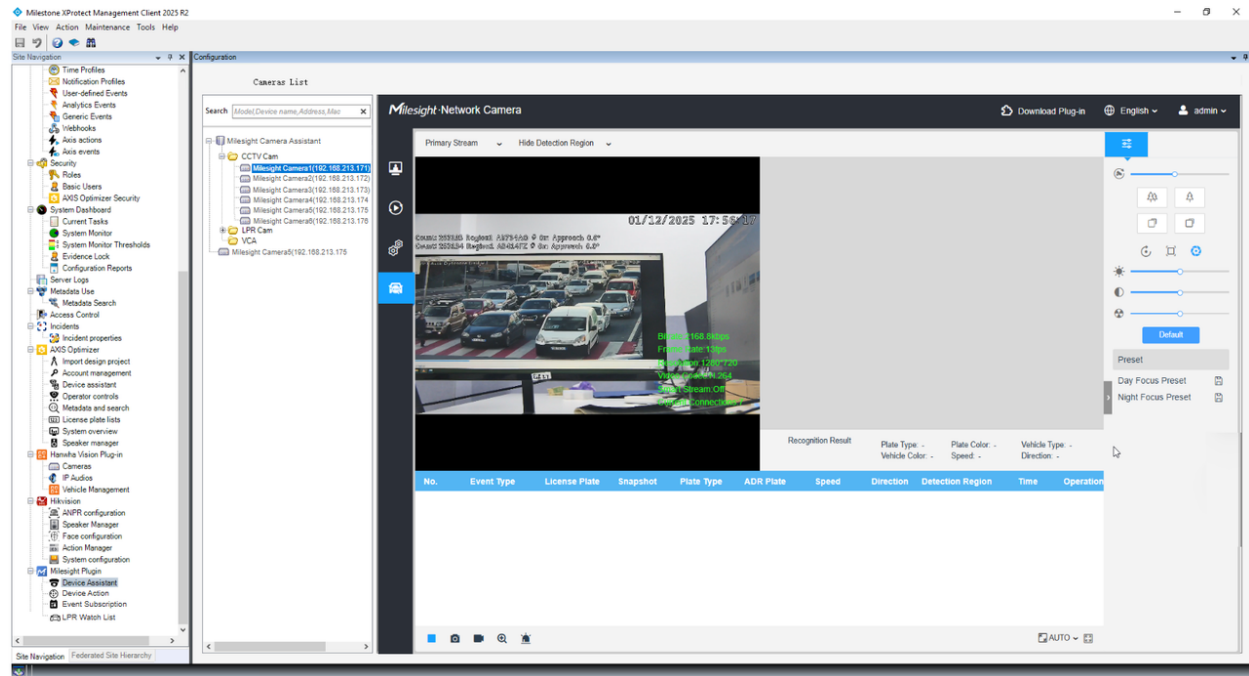


Step 2: After configuring, exit "Setup", click the settings icon in the lower right corner of the Live window, and configure the Display mode. Users can select and view the area of interest by using the scroll wheel and dragging with the mouse.



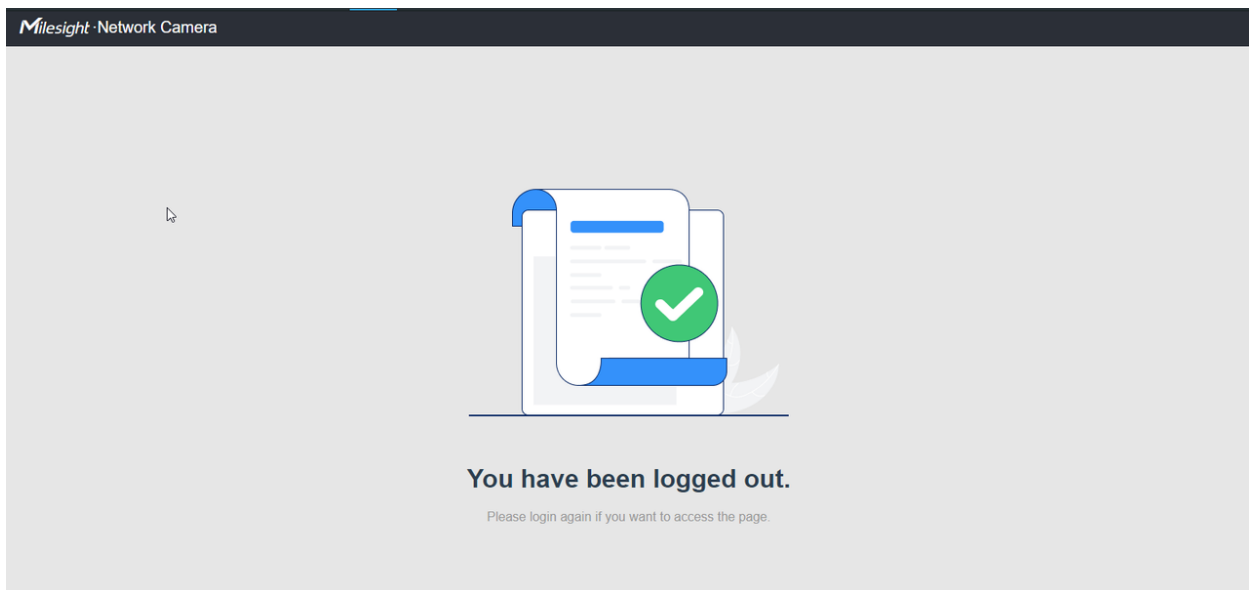


Step 2: Double-click the selected device to directly open its web interface and log in without entering credentials.

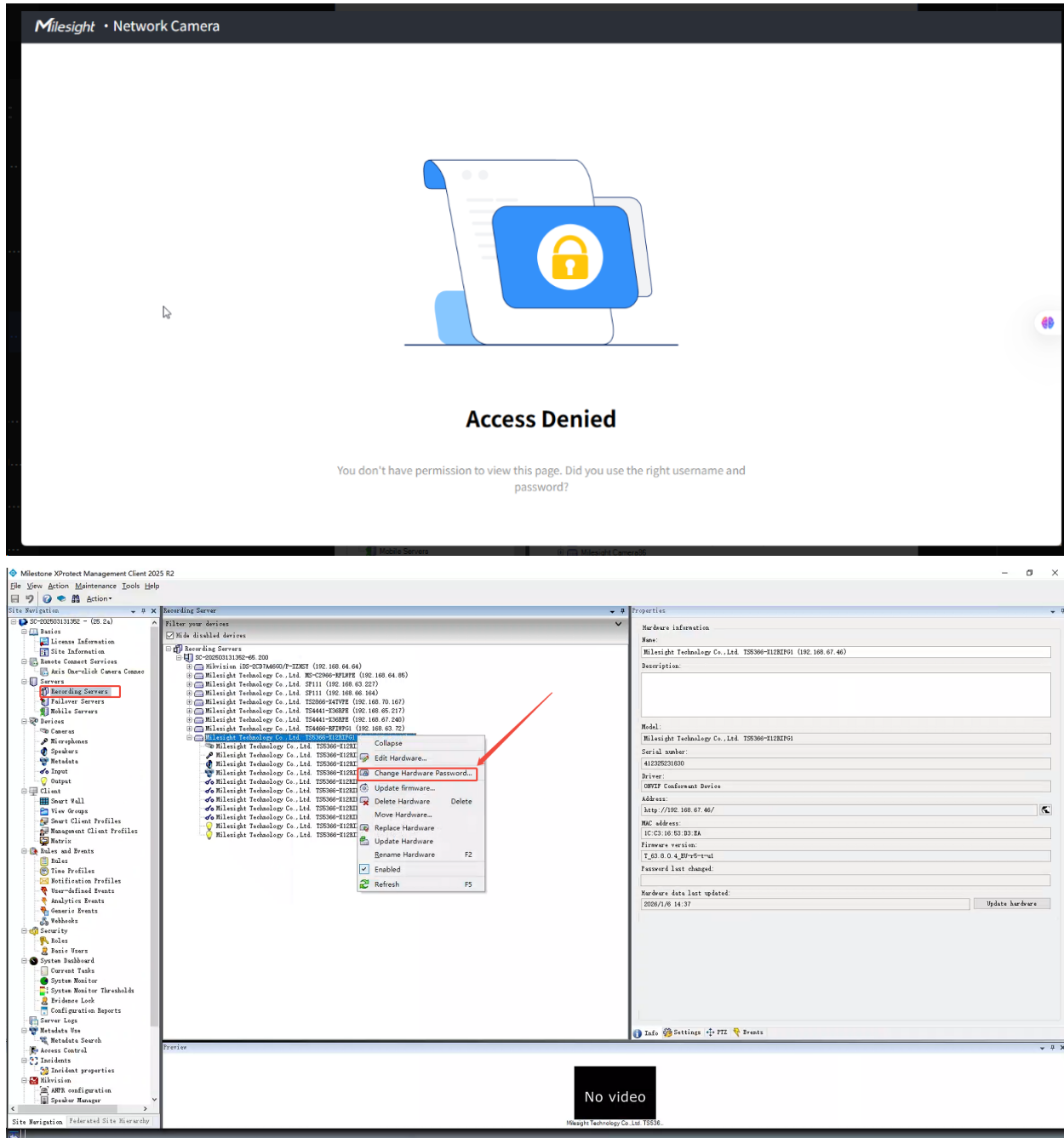


Step 3: Logout and change password.

1. To log out, click the **Logout** button and you will be redirected to the logged out page.



2. When the camera password is changed, an "Access Denied" page will be displayed. You can modify the device password or re-add the device in Milestone XProtect, and then follow the steps above to access the browser for password-free login.



8.2 Firmware Cloud Update

Step 1: Navigate to "Device Assistant", click **Mileage Camera Assistant**, and then click **Start** to retrieve the camera model, current firmware version, and the latest firmware version available in the cloud. The display is as follows:

Step 1: Select the Milestone Camera Assistant plugin.

The top screenshot shows the 'Configuration' window. In the left sidebar, the 'Milestone Camera Assistant' plugin is selected. A red box highlights the 'Start' button in the 'Upgrade Firmware' section.

Step 2: Select the devices you want to upgrade, then click Upgrade.

The bottom screenshot shows the 'Cameras List' table. Several devices are selected, and the 'Upgrade' button is highlighted in a blue box.

Camera	Address	Model	Current Firmware	Latest Firmware	Upgrade Progress
☐ [Offline] Mileage Technology Co., Ltd.	192.168.67.48.80				
☐ [Offline] Mileage Technology Co., Ltd.	192.168.70.167.80	TS2886-V4TYPE	T.61.8.0.4_EU-v3	T.61.8.0.4_EU-v4	
☐ Mileage Technology Co., Ltd. TS2886	192.168.67.240.80	TS4443-V3RPE	T.61.8.0.4_EU-v4-G1-G1	It is already the latest firmware	
☐ Mileage Technology Co., Ltd. MS-C	192.168.64.89.80	MS-C286-RFLVPE	T.61.8.0.4_ME-v5-b	T.61.8.0.4_ME-v5-e77	
☐ [Offline] Mileage Technology Co., Ltd.	192.168.63.72.80	TS4466-RFVWP01	T.63.8.0.4_CS-v1-v5-b		

Device Selected: 0/5

Back Refresh Upgrade

Milestone XProtect Management Client 2025 R2
File View Action Maintenance Tools Help

Site Navigation Configuration

Cameras List

Search: Device Name, Model, Bus, Address

Upgrade Firmware

	Camera	Address	Model	Current Firmware	Latest Firmware	Upgrade Progress
☐	[Offline] Milesight Technology Co. Ltd.	192.168.67.46:80				
☒	Milesight Technology Co. Ltd TS288...	192.168.70.167:80	TS2886-K4TVPE	T.61.8.0.4_EU-v3	T.61.8.0.4_EU-v4	
☒	Milesight Technology Co. Ltd TS444...	192.168.67.240:80	TS4441-K36RPE	T.61.8.0.4_EU-v4-G1-G1	It is already the latest firmware	
☒	Milesight Technology Co. Ltd MS-C...	192.168.64.95:80	MS-C2966-RFLVPE	T.61.8.0.4_MS-r5-b	T.61.8.0.4_MS-r5-e77	
☐	[Offline] Milesight Technology Co. Ltd.	192.168.63.72:80	TS4466-RFIVPG1	T.63.8.0.4_CS-IN-r5-b		

Device Selected: 2/5

Back Refresh Upgrade

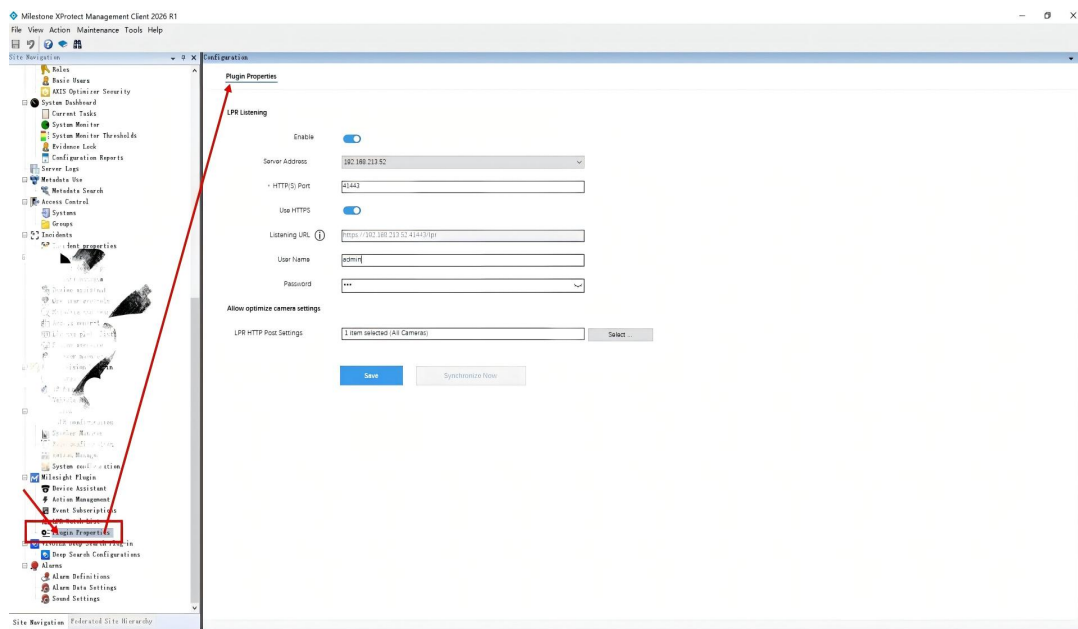
Site Navigation Federated Site Hierarchy

Chapter 9. Plugin Properties

This chapter is built to help users to manage the plugin properties itself, like the its reliability, etc.. Plugin Properties is visible to Admin accounts only.

LPR Listening Management is designed for secure LPR Data transmission.

Therefore, the LPR Listening function is designed to configure and manage LPR Listening Address, Listening port, User Name and Password. When a camera pushes data via HTTP Post, the plugin verifies that the User Name and Password carried in the request match those configured on the plugin side before allowing the data through. This prevents MAC-address spoofing attacks and establishes mutual recognition between the Milestone XProtect server and LPR cameras.



LPR Listening is used to configure the following fields:

Enable

Enabled by default. When enabled, the plugin receives HTTP Post data from IPC devices, and all configuration items below become effective.

Server Address

Displays a single-selection dropdown list. The list data is sorted by IP address in ascending order, prioritizing network adapters with default routes.

HTTP(S) Port

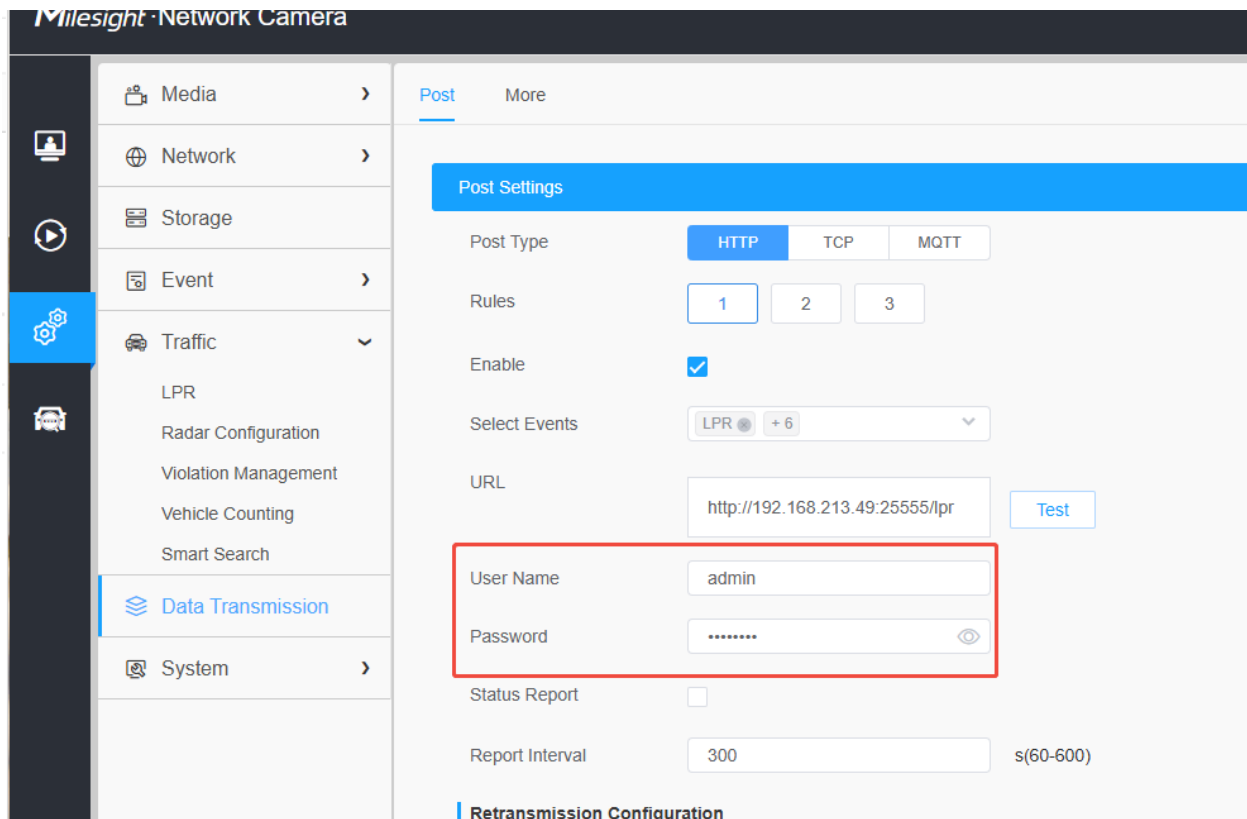
Numeric input field, required. Default is 41443. Can be modified to other values within the range of 1024 to 65535.

Use HTTPS

Enabled by default.

User Name and Password

Used for authentication with the User Name and Password entered in the Data Transmission - Post Setting on the camera side. Both sides (camera side and server side) must match for communication to proceed.



The screenshot shows the 'Mileage Network Camera' configuration interface. On the left is a sidebar with navigation options: Media, Network, Storage, Event, Traffic (expanded), Data Transmission (selected), and System. The main panel is titled 'Post' and contains 'Post Settings'. Under 'Post Settings', there are tabs for 'HTTP', 'TCP', and 'MQTT', with 'HTTP' selected. Below the tabs are fields for 'Rules' (1, 2, 3), 'Enable' (checked), 'Select Events' (LPR, +6), and 'URL' (http://192.168.213.49:25555/lpr). A red box highlights the 'User Name' field (admin) and the 'Password' field (masked with dots). Below these are 'Status Report' (unchecked) and 'Report Interval' (300 s(60-600)). At the bottom, there is a section for 'Retransmission Configuration'.

After configuring the HTTP Post settings on the Milestone XProtect server, you can select LPR HTTPPost configuration targets by individual camera or All Cameras, and deploy the Listening URL, User Name, Password, and LPR data template to the cameras with one click. A

Synchronize Now button is provided for manual synchronization. This ensures the cameras are optimally configured for the Milestone XProtect platform. Detailed config steps are as follows:

Step 1:Click the "Select..." button next to LPR HTTP Post Settings:

Allow optimize camera settings

* LPR HTTP Post Settings

1 item selected (Milesight Technology Co.,Ltd. TS5366-X12VPE (192.168.213.97) - Q

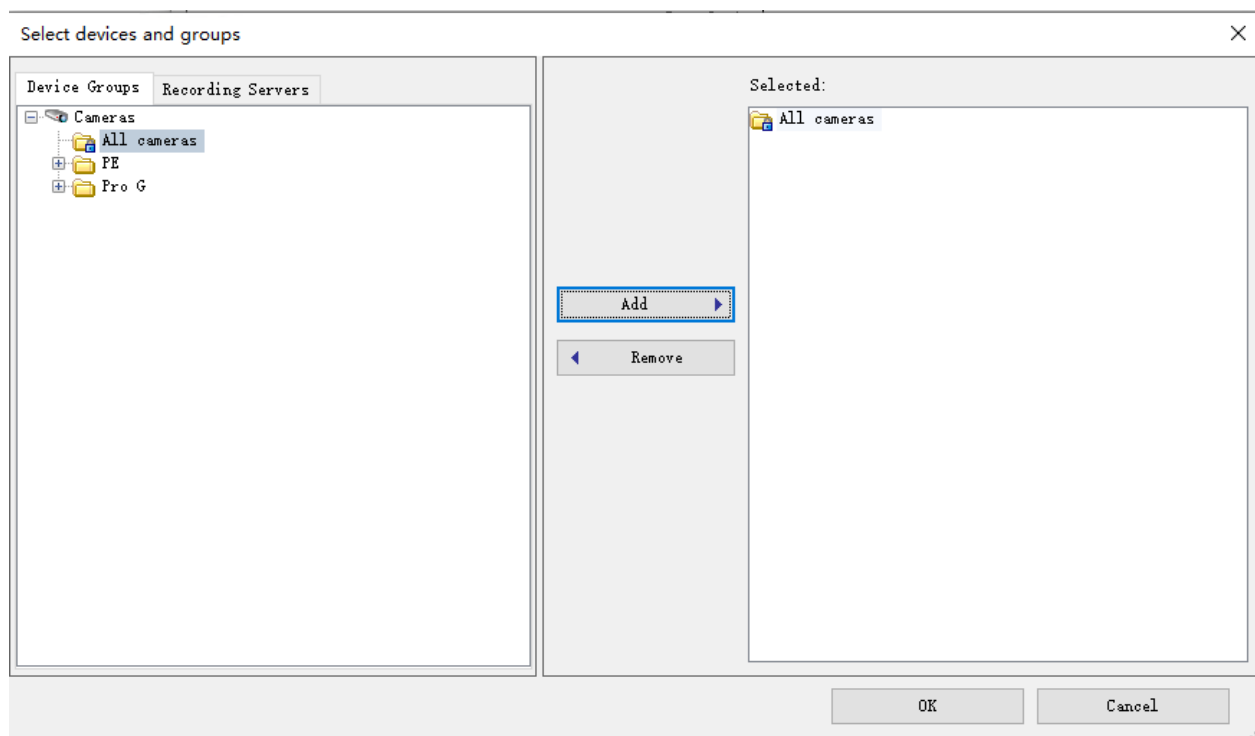
Select ...

Save

Synchronize Now

Milesight Technology Co.,Ltd. TS5366-X12VPE (192.168.213.97) - Camera 1: Synchronize succeed.

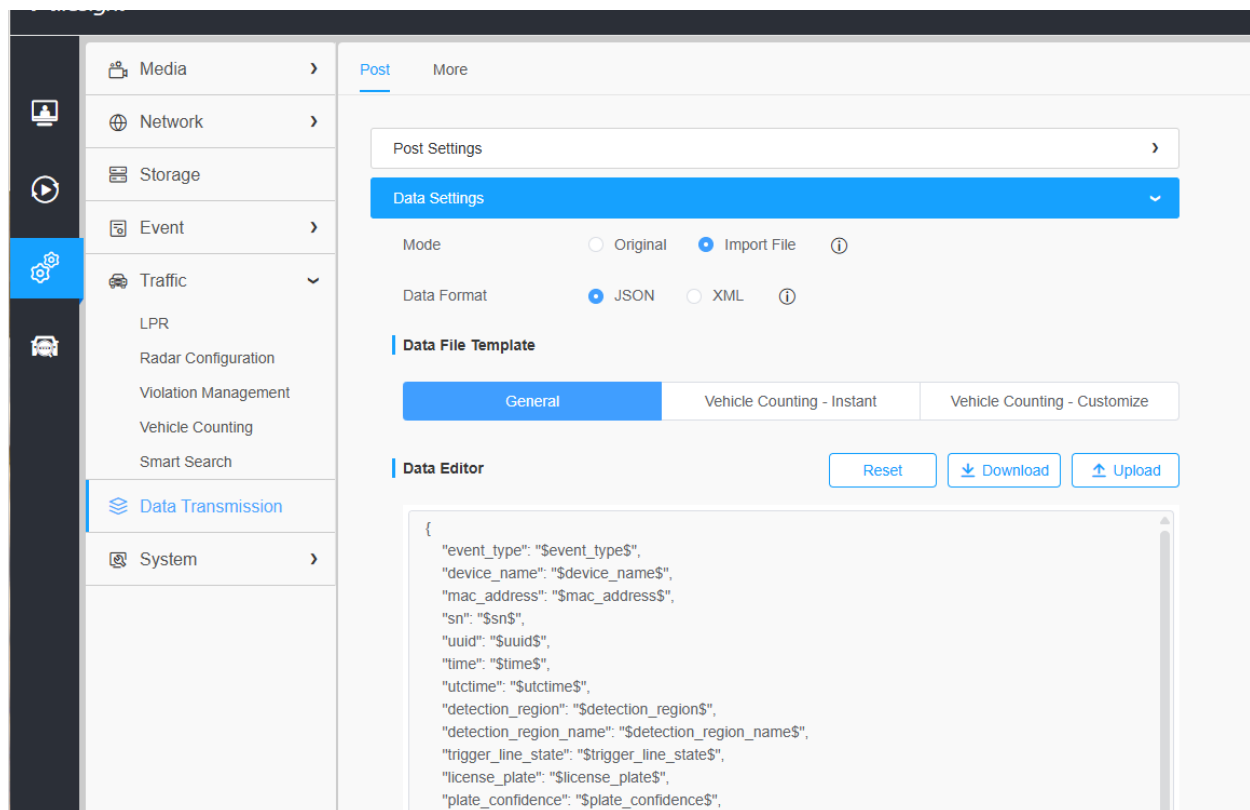
Step 2:The camera selection interface appears. Select specific cameras or All Cameras.



Step 3:After selecting cameras, click Save and then click Synchronize Now to trigger a manual synchronization. The result will be displayed in the text area below.



The plugin deploys the Listening URL, User Name, Password, LPR Data Template to the IPC:



Note:

Automatic deployment is triggered only under the following conditions:

- When LPR HTTP Post Settings is configured with All Cameras, the plugin automatically configures once when a new Milesight device is detected (Intelligent Traffic Series only).

Chapter 10. Uninstall

Uninstall Milesight plugin

[Windows]

Before uninstallation, first check if any Milestone XProtect components are being used. If no components are in use, proceed directly with the uninstallation process. Upon completion, a success popup will be displayed.



Chapter 11. Services

Milesight provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com

Web: <https://www.milesight.com>

Online Problem Submission System: <https://www.milesight.com/service/feedback.asp>

MILESIGHT CHINA

TEL: +86-592-5922772

Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China