Milesight



Installation and Operating Guide

Milesight Plugin for Genetec

Version: V2.0.0.2-r1

Date: 2026-11-09

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Chapter 1. Revision History

Version	Revision	Date
V1.0.0.1	Smart Search	2026.03.02
V2.0.0.1	1. New plugin Cofiguration Interfaces 2.Direct Camera Web Page Login Trhough Genetec 3. More Attributes Available on Metadata 4. Event ROI Display and Config on Security Desk Available 5. Plugin Privilege Management Available	2026.07.02
V2.0.0.2-r1 (Including V2.0.0.2)	1. Add New Smart Search Condition, Objects 2. Expand Smart Search Result Limit 2. Support Camera Upgrade and Plugin Upgrade 3. Support Customizing Watch List Group and Synchronization 4. Support LPR HTTP(S) Listening and Support LPR Data Cleanup 5. More Attributes for Metadata Search 6. More Camera Models for Password-free Login 7. More Camera Models for Event ROI Overlay with More Events 8. Optimized User Access Management and Device Proxy	2026.11.09

Chapter 2. Introduction

Using Milesight's advanced plugin, Genetec's video management software integrates seamlessly with Milesight cameras to enhance operational efficiency. The plugin acquires the AI metadata stream from Milesight cameras, supporting Live View, Playback, and the drawing of target tracking boxes. It enables human/vehicle and attribute-based searches for Milesight Video Surveillance products using VCA metadata, and vehicle/license plate and attribute-based searches for Milesight Intelligent Traffic products using LPR metadata. Each metadata entity is transmitted as an individual object to Genetec. These objects can be viewed, searched, enabling centralized management through the Genetec, and achieving smarter and faster monitoring.

Besides, Milesight plugin has its exclusive dashboard for Milesight camera connection, action management, audio file management and plugin properties management. Through this dashboard, you could utilize Milesight camera with its potentials as much as possible. This User Guide provides an overview of the integration between Milesight's plugin and Genetec for capturing and analyzing. For a more thorough understanding of how the Genetec handles AI metadata, we encourage you to consult the Genetec and its VMS and camera applications manuals. If you have any questions, please do not hesitate to contact our Milesight Support Team at *support@milesight.com*.

2.1 System Requirement

[Supported Genetec VMS System Version]

Genetec Security Center V5.12.0.0 or above.

[Supported Operating Systems]

Windows 10/11; Windows Server 2019

[Supported Functionalities]

You can get the detailed information from this link: Genetec Compatibility Flyer.

2.2 Part Number

The Part Number for the Milesight Plugin is "**GSC-1SDK-MILESIGHT-ANALYTICS**".

To use the Milesight Plugin, users need to apply for the corresponding license through Genetec's official channels. When applying for the license, please provide the Part Number of the Milesight Plugin.

Genetec will then generate and provide a license that enables the use of the Milesight Plugin. Once the license is activated on the Genetec VMS System, the Milesight Plugin can be used normally.

- For testing purpose only: Please request a Demo License from Genetec Channel Sales.
- For use in a production project environment: Please Contect Genetec Channel Sales or your System Integrator to apply for a purchase a formal license.

Note:

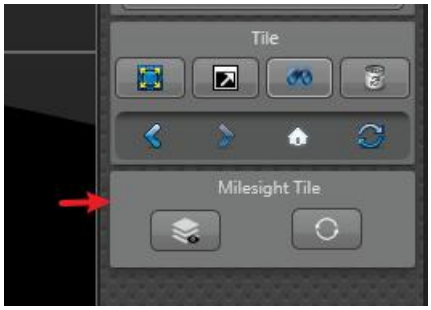
1. The Milesight Plugin is one (1) SDK CONNECTION per SYSTEM ID, which means the quantity to be applied for per system is 1. The diagram below is for reference only.

Licensed Parts

Product ID	Description	Quantity
GSC-5.13	Security Center Version 5.13.	1
GSC-Base-E	Genetec Security Center (GSC) Base Enterprise Package. Includes Synergis Enterprise Package with Access Manage support, Remote Security Desk, Badge Designer. Includes Omnicast Enterprise package with Archiving and Auxiliary Archiving support, Media Router, Audio, Remote Security Desk, Camera Sequences, Camera Blocking, Camera Dewarping, Failover Cameras, Hardware Matrix Support, Time Zone, Edge recording, trickling and archive transfer, Keyboard and Joystick Support. Includes AutoVu Standard Package. Other features included: Threat Level module, Plan Manager Advanced for GIS Map servers with unlimited entities, Active Directory Integration, an authentication role, an Active Directory Federation services connection, Failover Directory Role, Intrusion Manager Base, Sipelia Base, Import Tool, Max Occupancy, Mustering Task, Visitor Management Module, Sipelia Public Address, SIP Trunking. KiwiVision Video Analytics including 300 channels for Privacy Protector, Security Analytics and People Counter. Includes 5 client connections (Security Desk, Web or Mobile).	1
GSC-Om-E-1C	1 camera connection	20
GSC-1SDK-MILESIGHT-ANALYTICS	One (1) Genetec SDK connection for Milesight China with Video Analytics	1

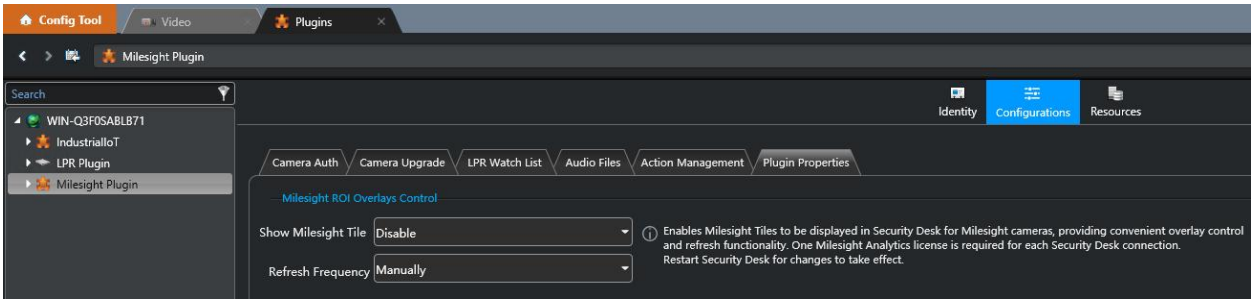
2. Since V2.0.0.1, the plugin added new function called "Milesight Tile" When using the Milesight Tile in Security Desk - Monitoring (which controls whether Event ROI Overlays

appear in each Video Tile), please be kindly noted that **each Security Desk login will consume one Milesight Analytics License**.



This setting can be modified by following this work flow:

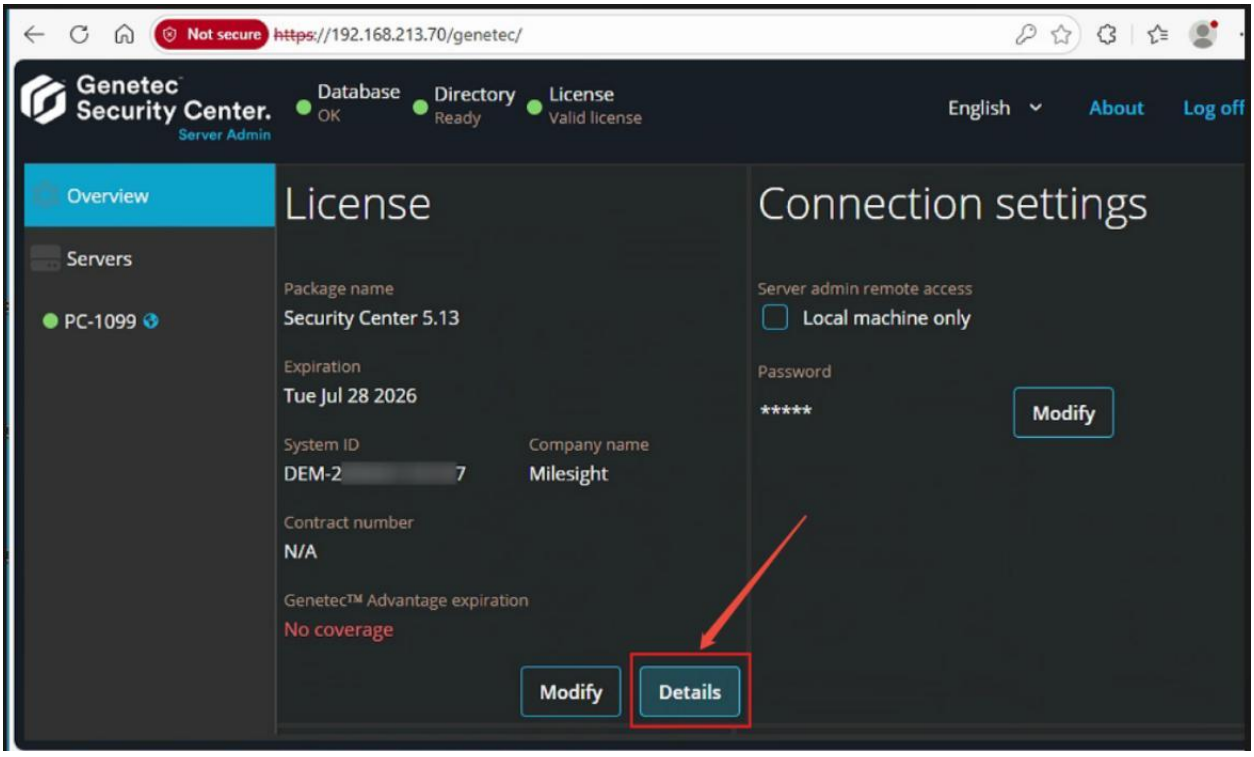
Config Tool - Plugin - Milesight Plugin - Configuration - Plugin Properties - Milesight ROI Overlays Control. You can disable this function if you don't want to use your Analytic License.



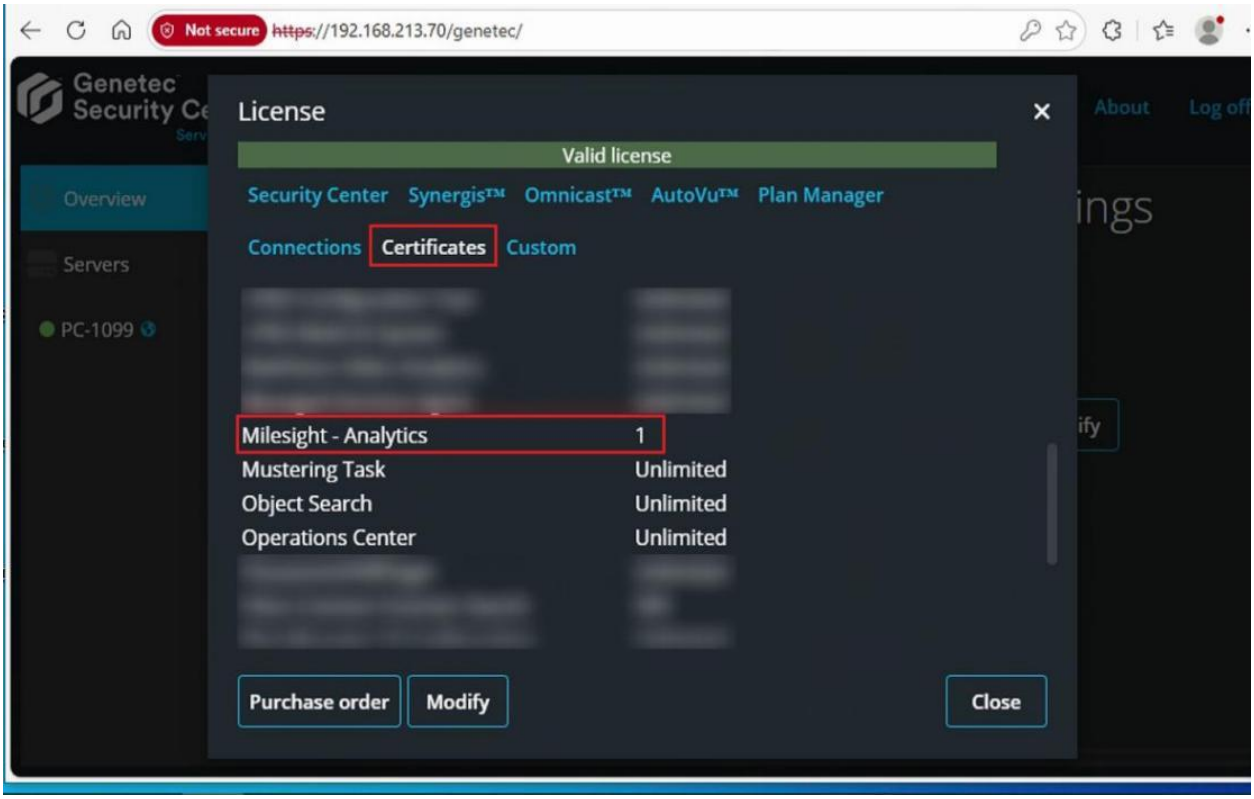
2.3 License Verification

Before installing and using the Milesight Plugin, you need to check whether the System License supports the Milesight Plugin. The steps are as follows:

Step 1: Access the Server Admin Web Page (*http://server_ip/genetec*) and open the License Details.

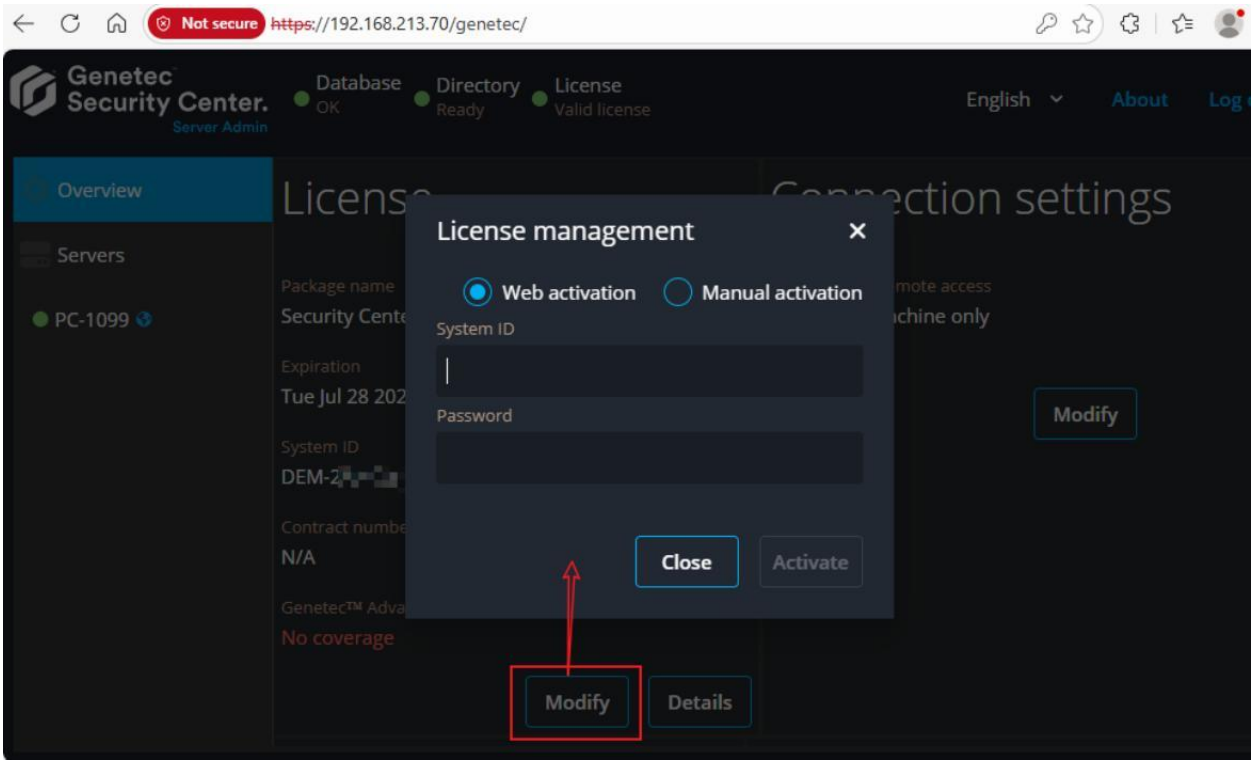


Step 2: Click the Certificates tab. If "Milesight Analytics" is included, the system supports running the Milesight Plugin.



Step 3: If "Milesight Analytics" is not included, please apply for a new license from Genetec that contains the Milesight Part Number “GSC-1SDK-MILESIGHT-ANALYTICS”(please refer to *2.2 Part Number (page 5)*), or request to add this Part Number to your existing license.

Step 4: After obtaining the new license, activate it in the system by performing an online update.



Chapter 3. Installation

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.

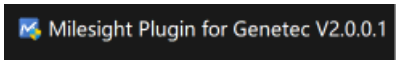
https://resource.milesight.com/milesight/security/vms-plugin/genetec/Milesight%20Plugin%20for%20Genetec%202.0.0.2-r1.exe

Note:

Part Numbers are linked to company information; thus, the neutral version is temporarily unavailable for external distribution.

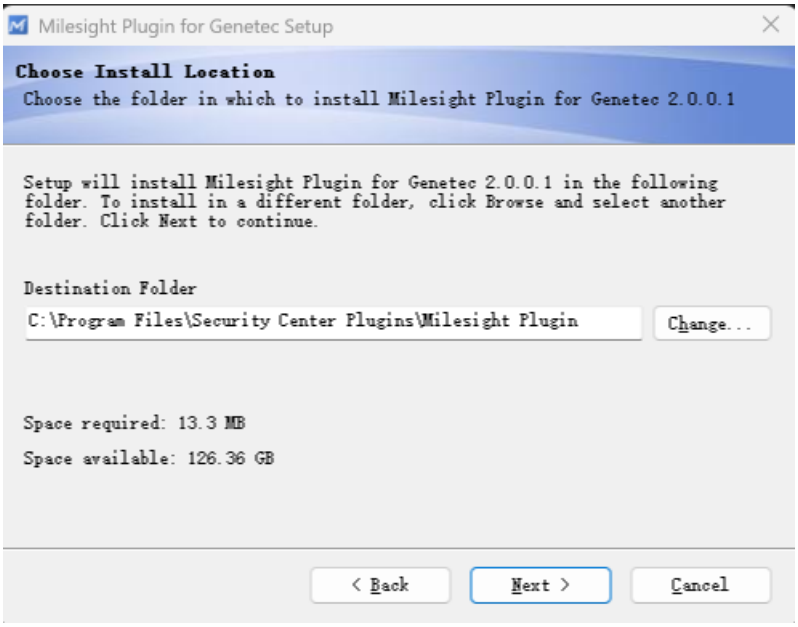
3.1 Windows Installation

Step 1: Click the installer file.

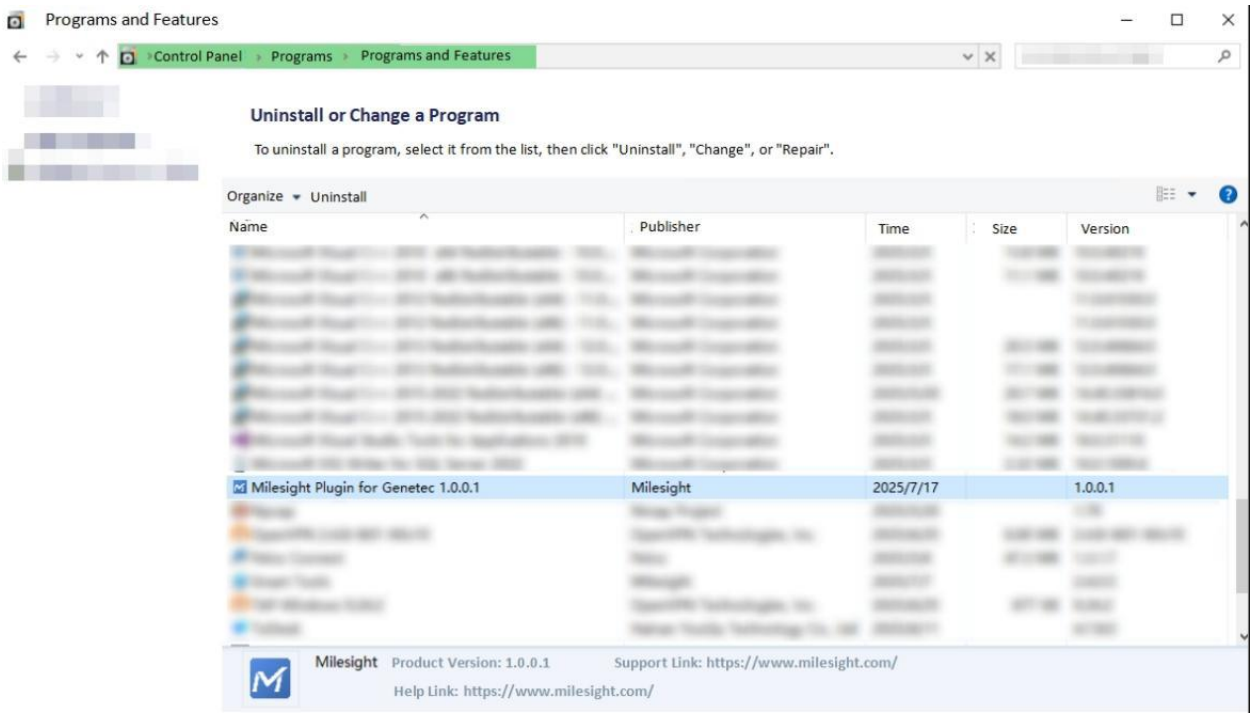


Step 2: Click "Next" and follow the on-screen instruction to install





Step 3: After the installation is complete, the corresponding item will appear in the Windows Control Panel's list of installed programs. Users can also select and uninstall the plugin from this interface.



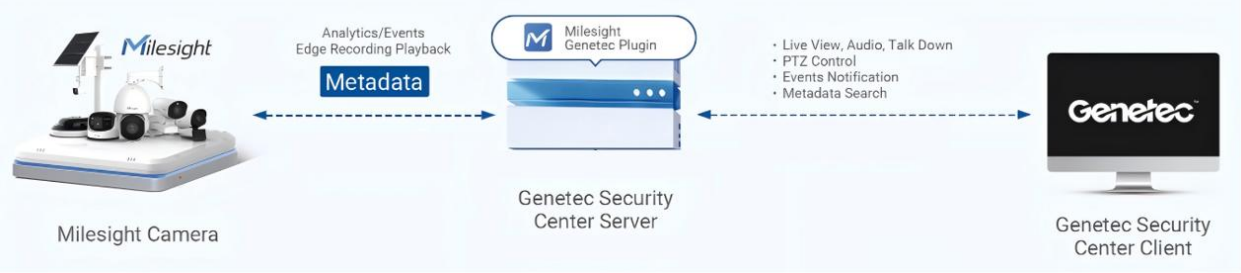
Note: If the Genetec VMS Server and Client are not running on the same computer, the plugin needs to be installed on both.

- During installation, the Server will automatically restart.

- During Installation, the Client will not restart automatically, so you need to manually restart it for the plugin options to appear.

Chapter 4. Metadata Utilization

This plugin allows users to search and retrieve Metadata generated by Milesight cameras within the Security Desk client, providing efficient access to valuable video analytics data. The workflow is shown in the picture below:



Genetec Security Center provides two client applications:

- **Config Tool:** Used for Server and System configuration (Administration Client), such as device addition/removal, user management, and other administrative tasks.
- **Security Desk**: Designed for end users to view live and recorded video, and to perform data searches within specific modules.

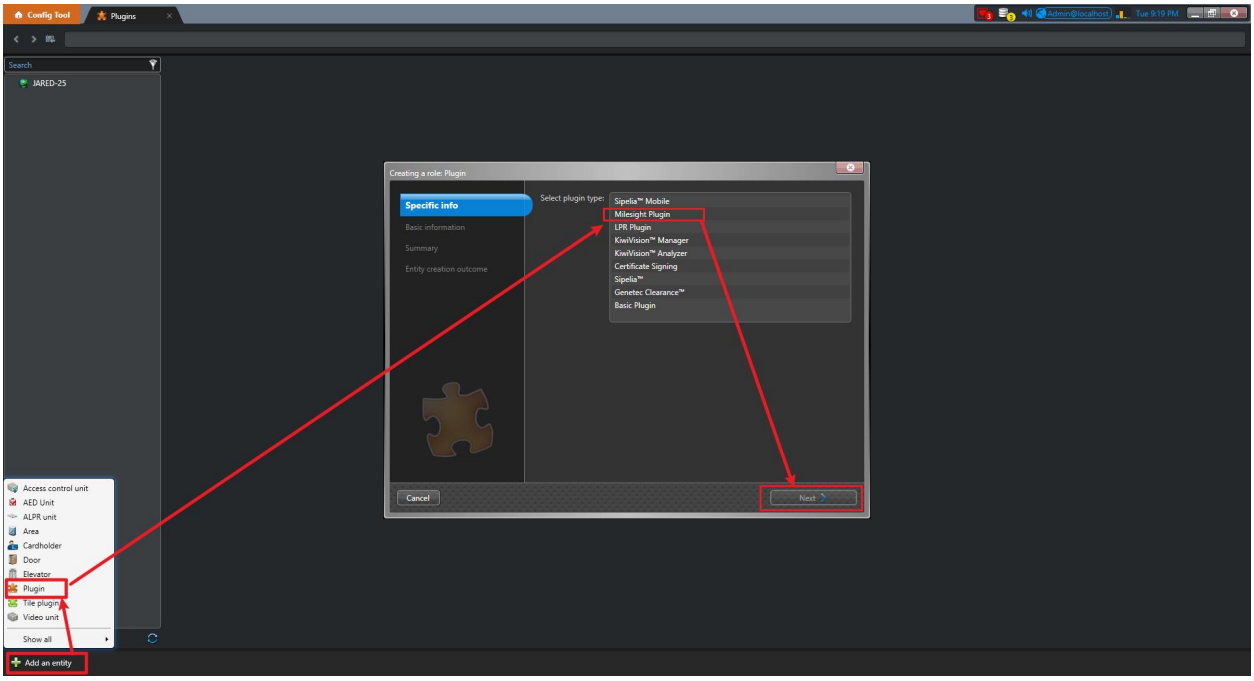
After installing the plugin, configuration and operation steps must be performed in both Config Tool and Security Desk to ensure proper functionality of the plugin.

4.1 Add Plugin in Config Tool

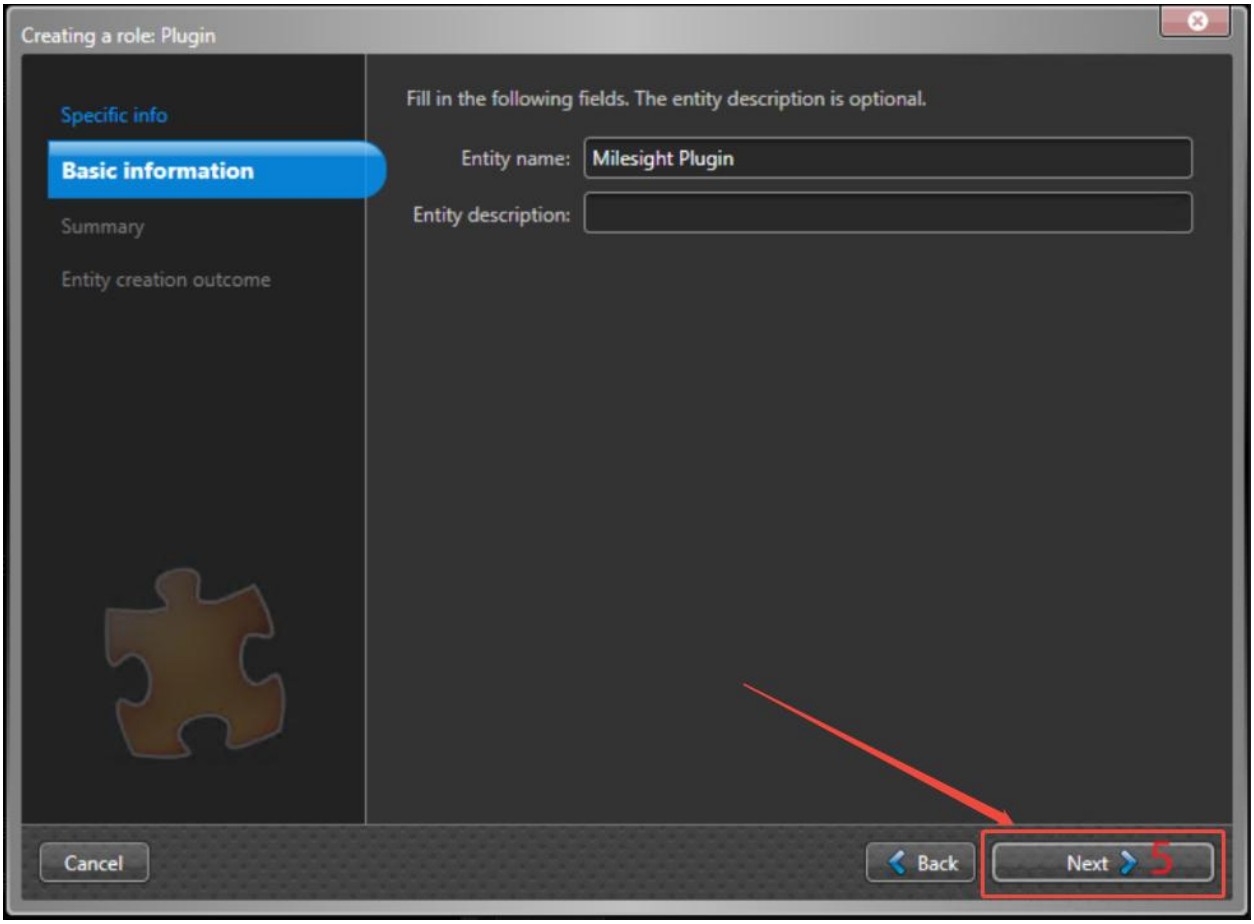
The plugin must be added in Config Tool before it can be enabled on the Genetec Server. The configuration steps are as follows:

Step 1: In the bottom left corner of the interface, click 

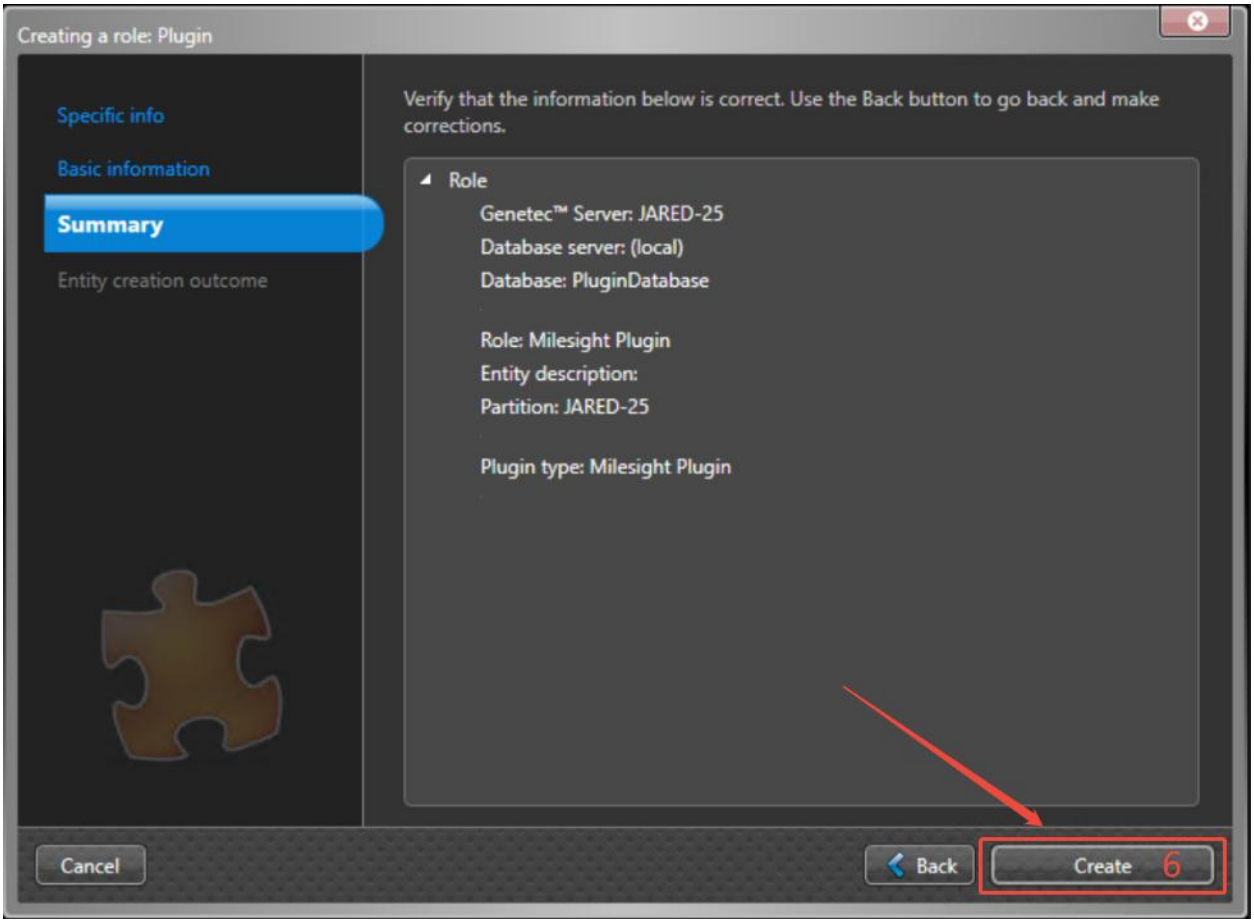
and select "**Plugin**". In the pop-up window, choose "**Milesight Plugin**" as the plugin type, then click "**Next**".



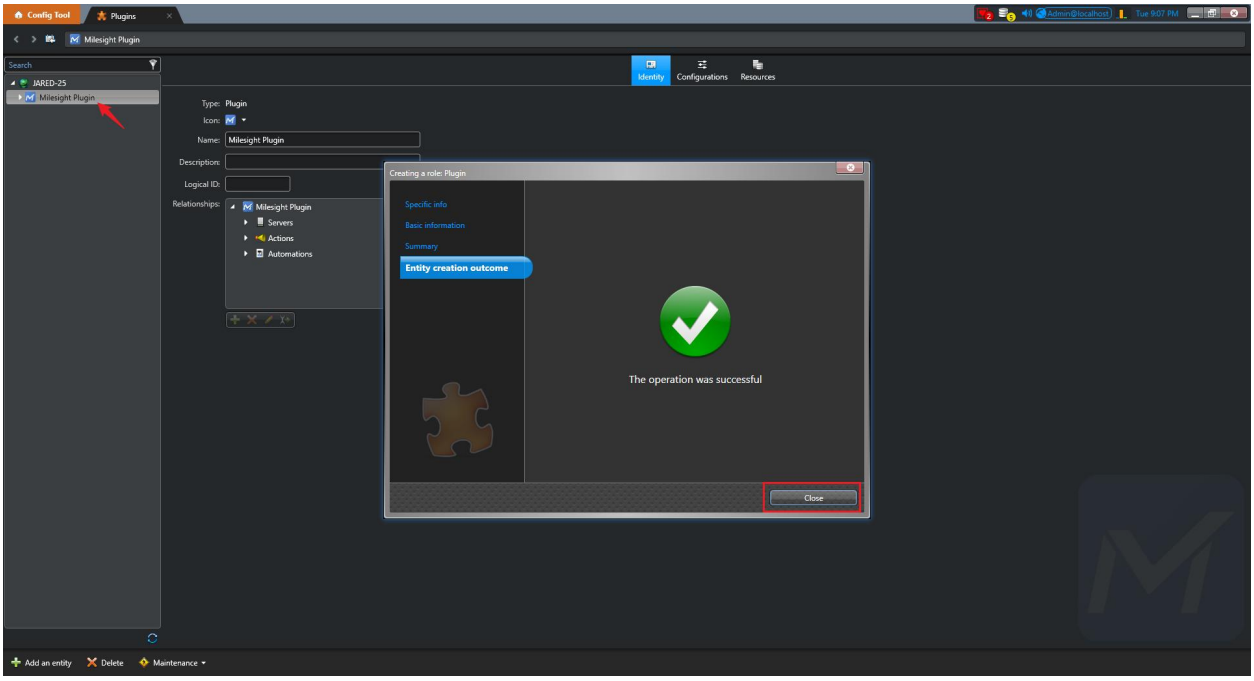
Step 2: On the **Basic Information** page, you can modify the entity's name and description if needed, then click "**Next"**.



Step 3: Verify the information on the **Summary** page, then click "**Create**" to proceed.

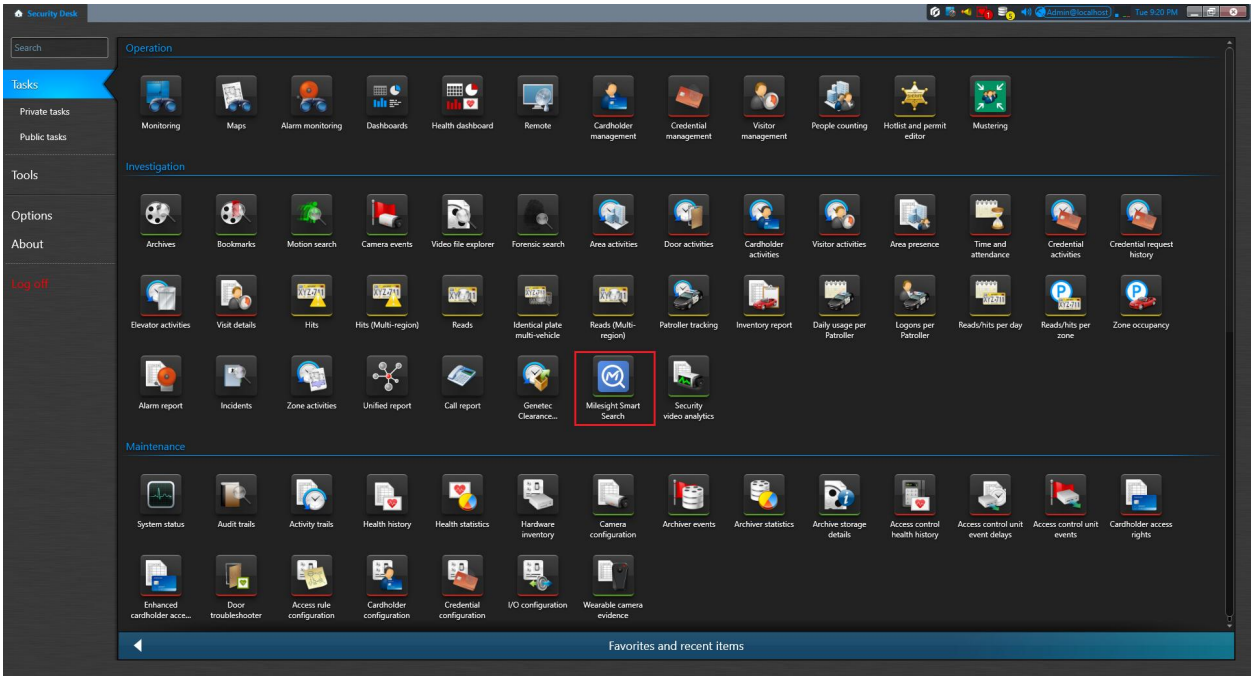


Step 4: After successful creation, you will see **Milesight Plugin** listed in the left sidebar. Finally, click "**Close**" to exit the creation window and complete the process.



4.2 Use Plugin in Security Desk

Plugin Entry Point After the plugin is installed, restart the Security Desk client. You will find the plugin's **Task** entry located under the **Investigation** section. Double-click to enter it.



Plugin Interface Overview 1. After entering the plugin interface, you will see the following layout. The filter criteria for attribute searches(see section 2 in the picture) are customized by the plugin, while other interface elements remain Genetec's native components.

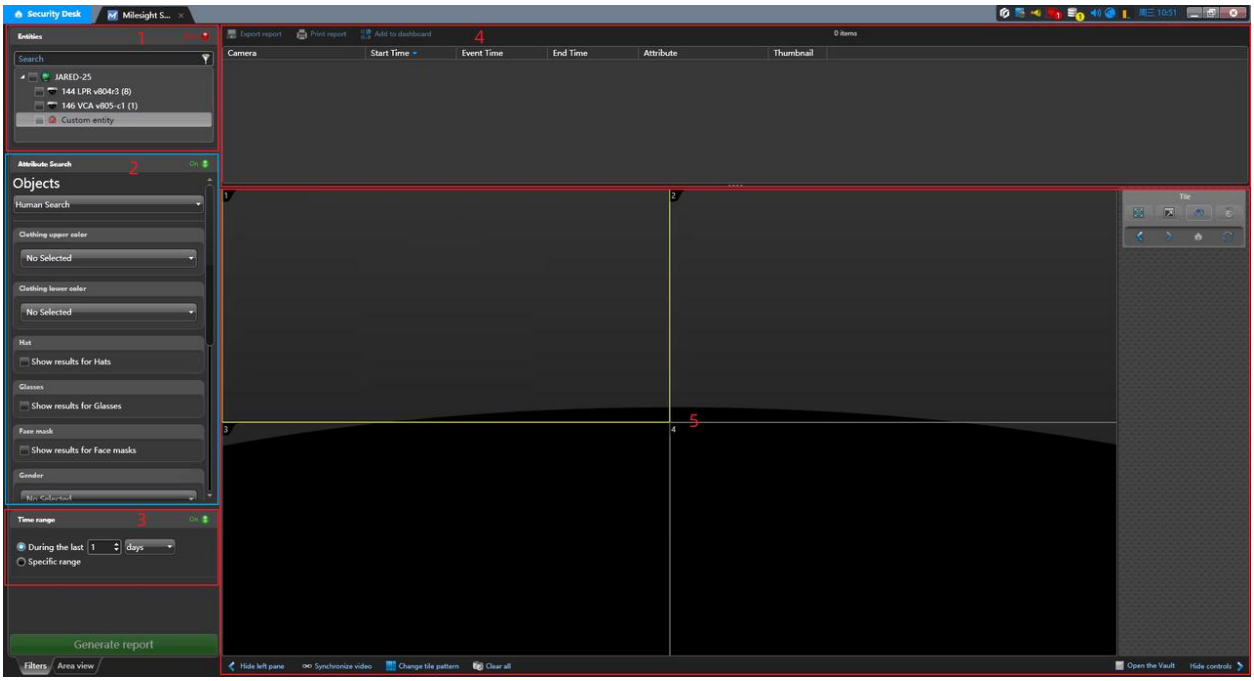
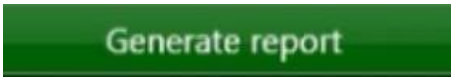
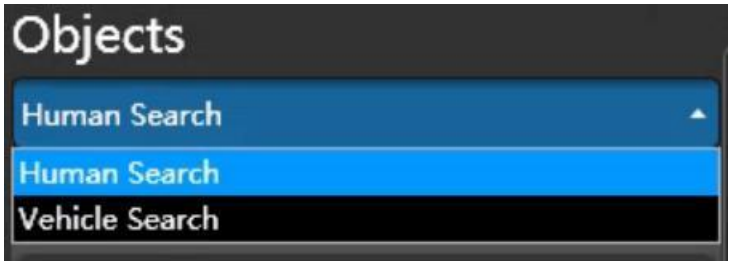


Table 1. Description of Sections

Section	Description
Section 1	Select the data source (camera) to search.
Section 2	Set the filter criteria for the data search; this section is defined and implemented by the plugin.
Section 3	Specify the time range for filtering results. (After configuring the above three sections, click the  button at the bottom to search.)
Section 4	Display the list of search results.
Section 5	Preview and play the video for the selected result. The control panel appears on the right.

2. Attribute Search Criteria: Section 2 allows you to customize filter conditions for searching VCA/LPR Metadata generated by Milesight cameras and pushed to Genetec. The filter options are grouped into two main categories—**Human** and **Vehicle**—as shown below:

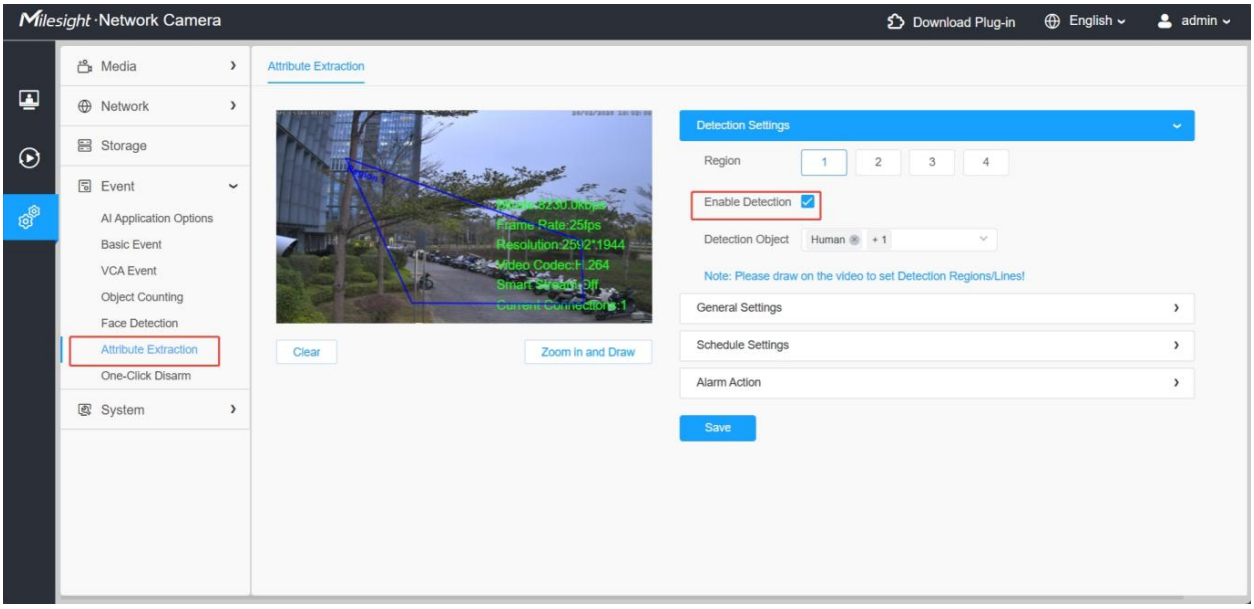


4.3 Configure Object Attribute Recognition

After completing the plugin installation and 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**.

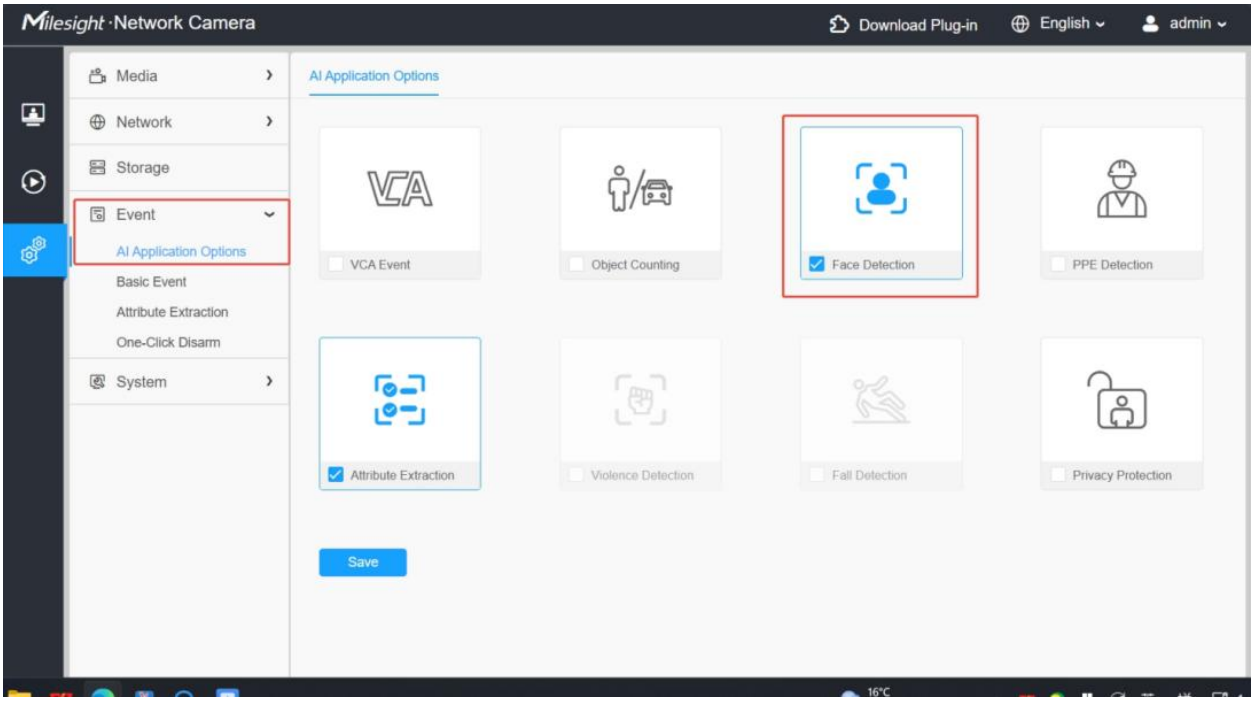


Note:

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

Step 2: Enable **Face Detection**.

Go to the **Event - AI Application Options** interface to enable **Face Detection**.

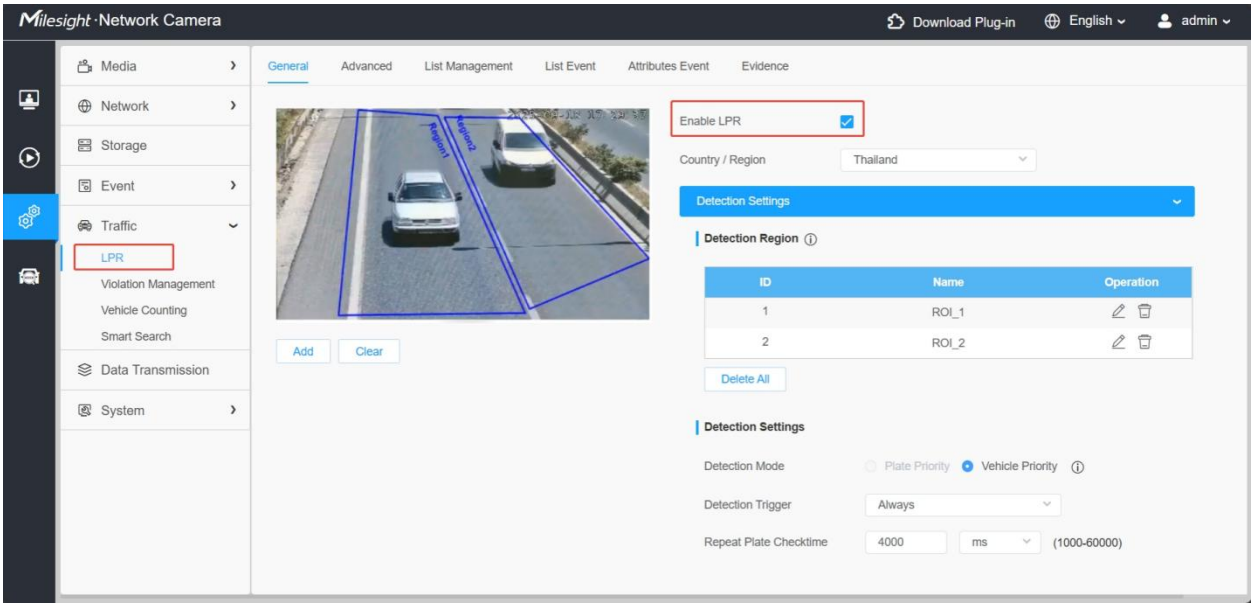


Note:

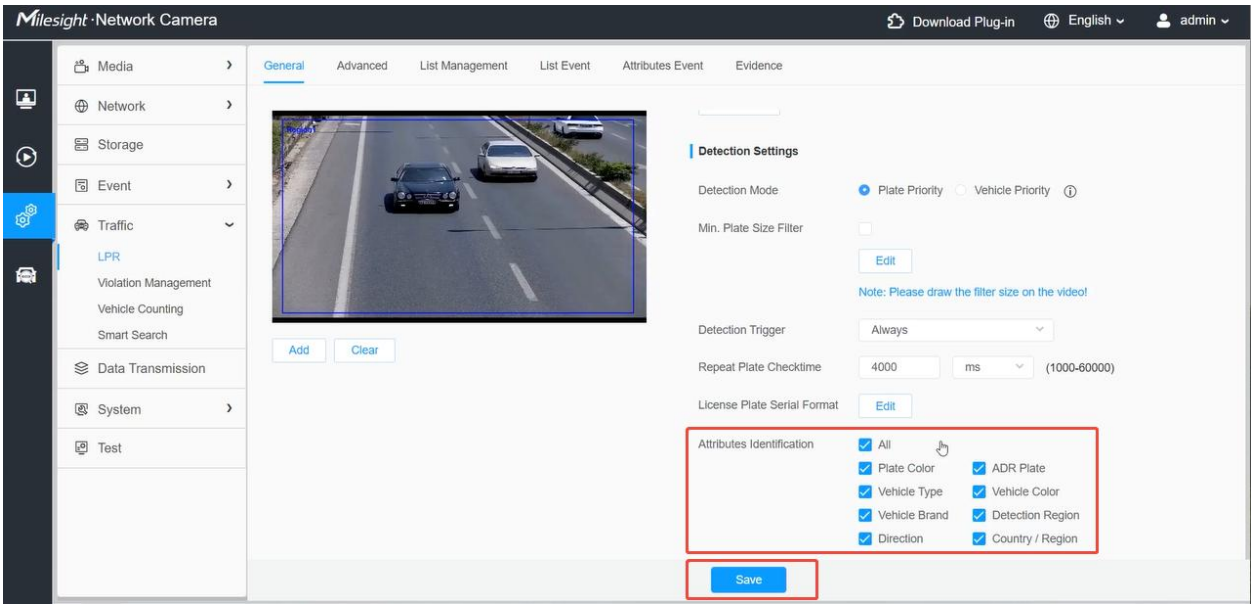
Milesight Video Surveillance Series with Face Detection enabled and Attribute selected support Face-related attributes for Human objects (including Age, Gender, Glasses, Mask, Hat).

Intelligent Traffic Series

Step 1: Visit the web page of the camera and enable LPR detection.

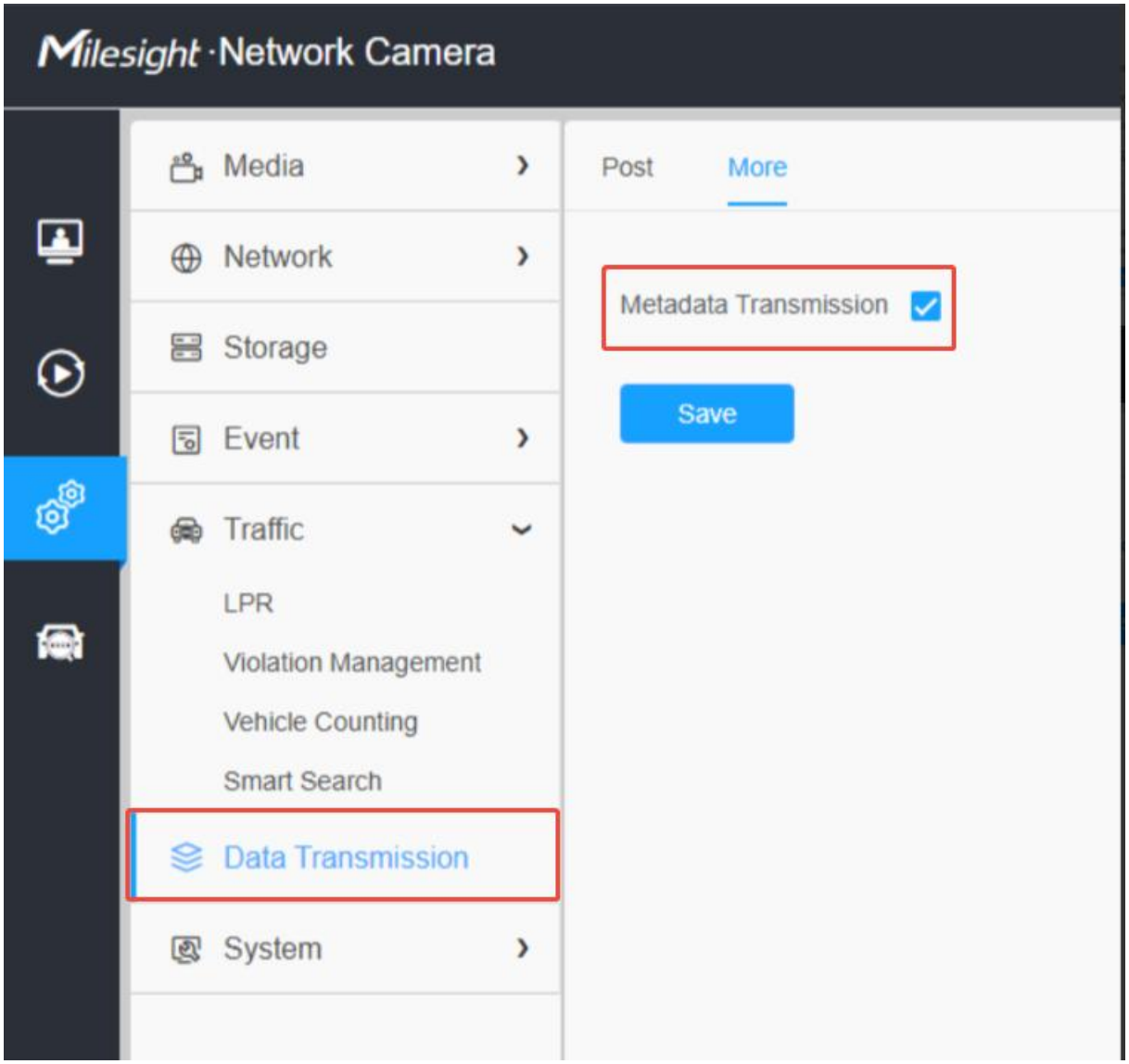


Then select the attributes to be detected and save the configuration.



Note:

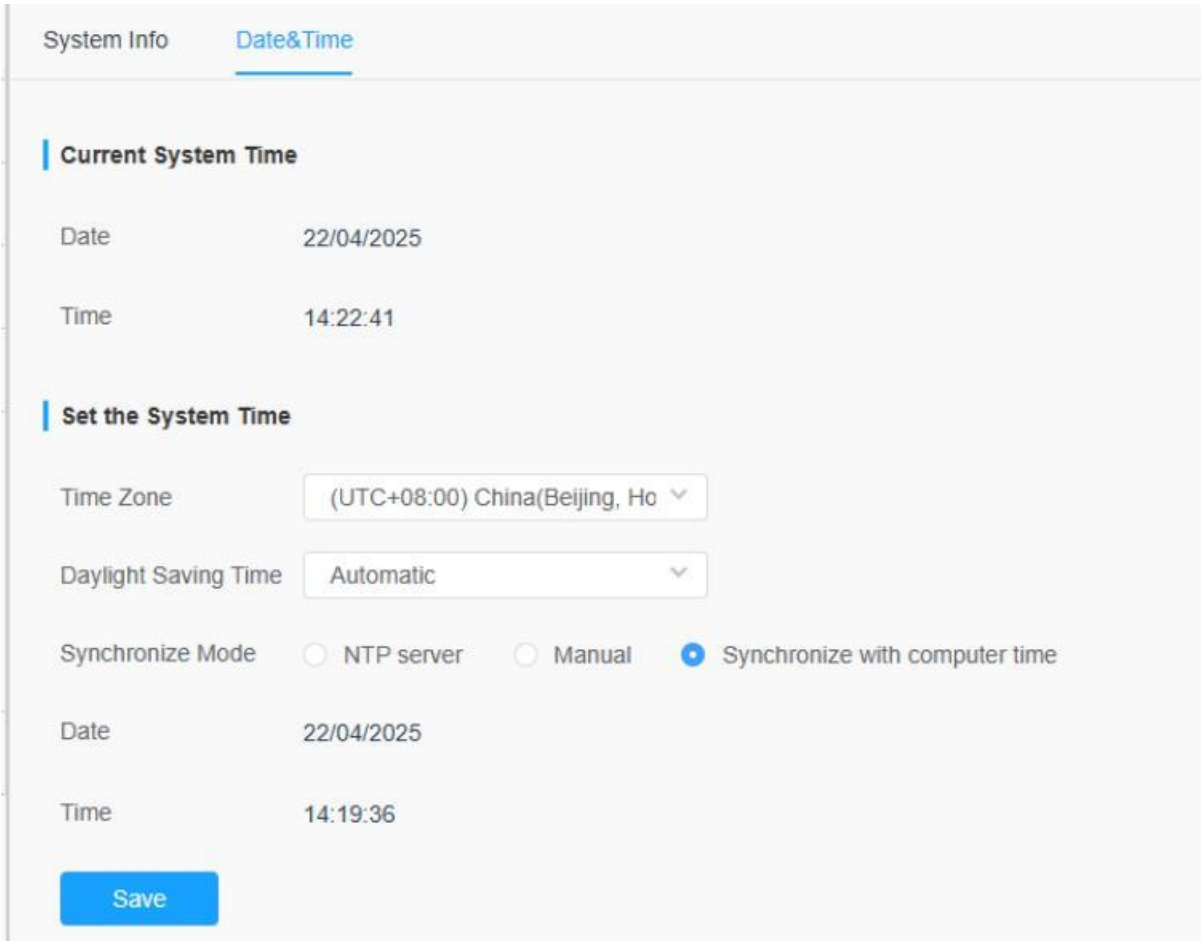
Please ensure that the Data Transmission is enabled.



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

4.4 Set the System Time

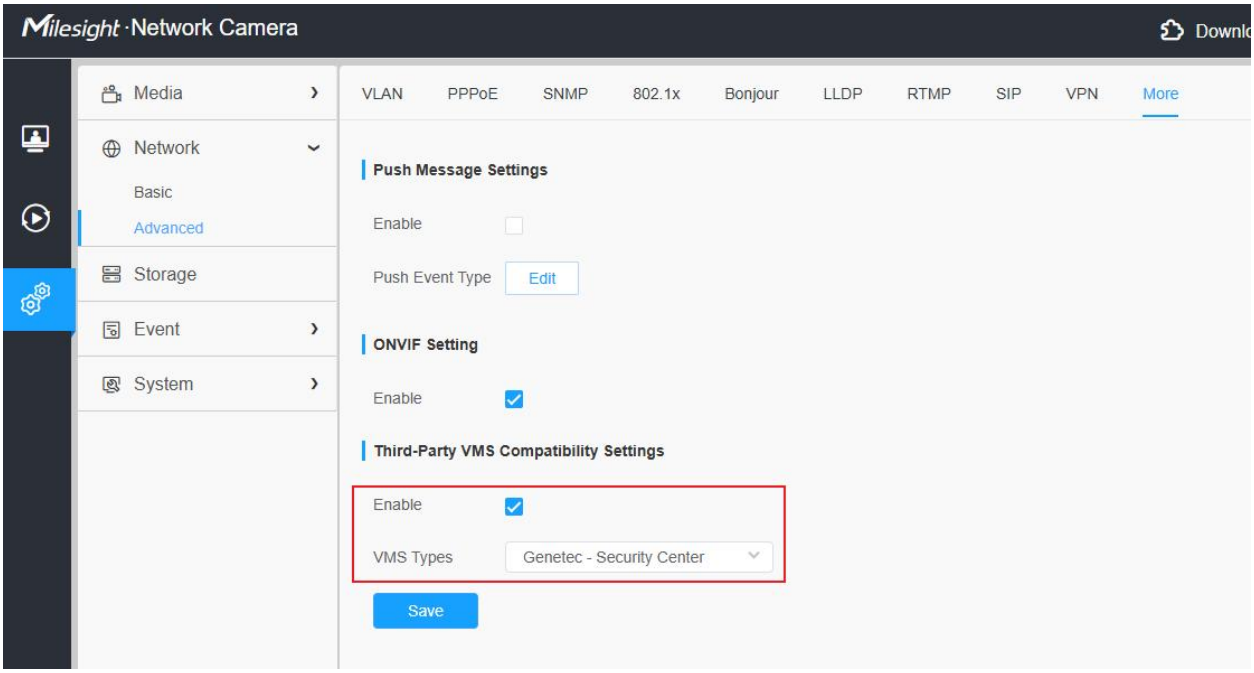
Before viewing the detection results, please ensure that the camera's system time is the same as the Genetec VMS. (You can set both the Camera and the Genetec Server to synchronize their time via an NTP Server, or configure the Camera's time to synchronize with the computer time on the host where the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



4.5 Configure VMS Type

Besides, before adding the camera to Genetec VMS, please go to **Network - Advanced - More** to enable **VMS Type** and set it to **Genetec - Security Center**. Then, add the device to the VMS.

The following uses Milesight Video Surveillance camera web interface as an example:



The purposes of this configuration are:

1. For PTZ cameras, it enables Pattern compatibility.

2. For traffic cameras, it allows the data format in Custom Template (Import File mode) to be quickly adapted to the interface fields of the Genetec 3rd Party ALPR Plugin.

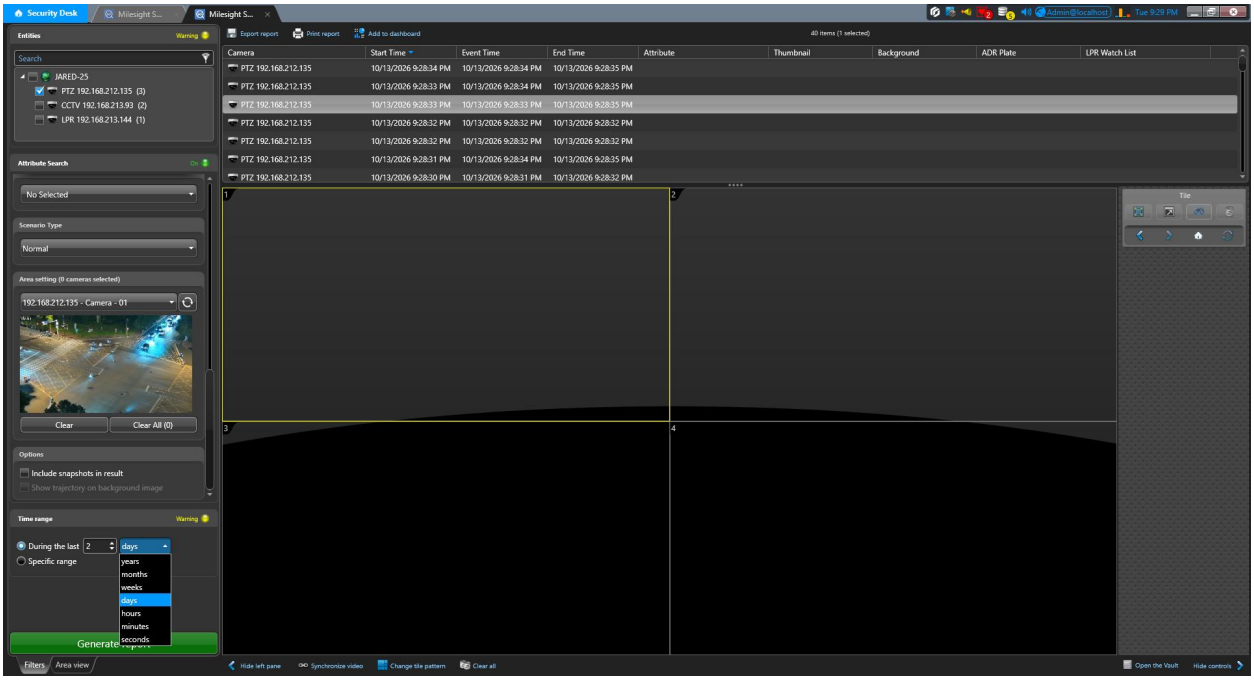
4.6 Viewing the Detection Results

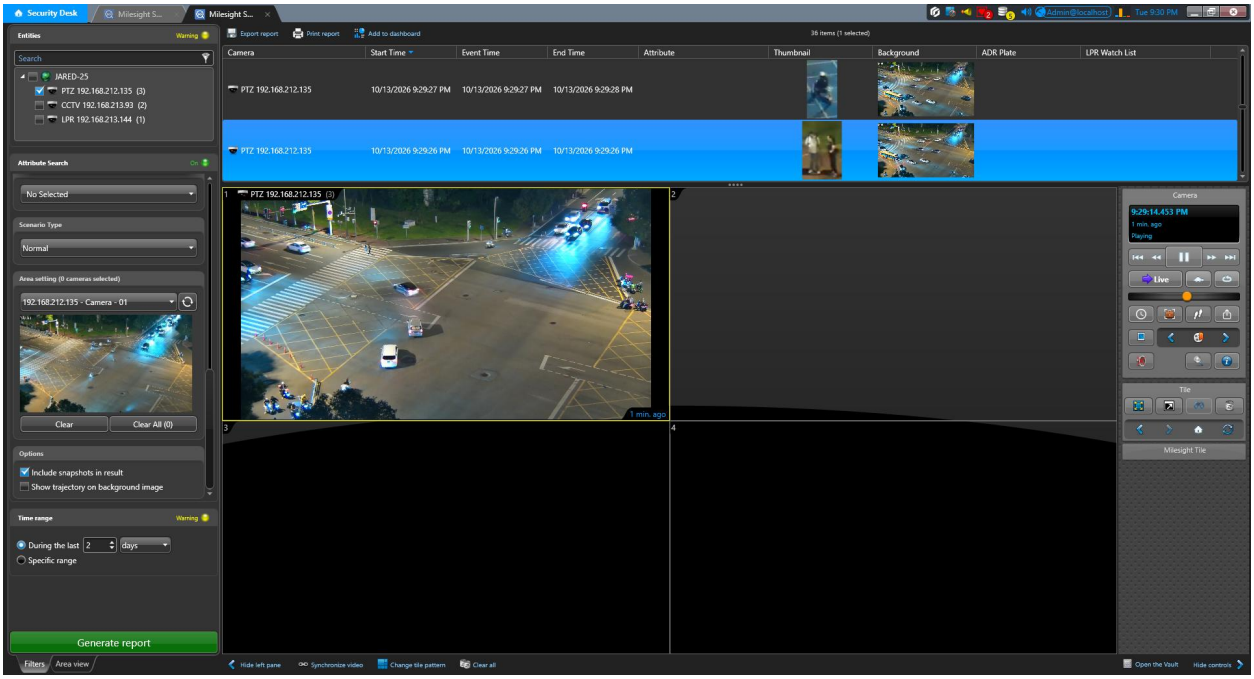
Searching for Detection Results The method for searching detection results is the same for both Milesight Video Surveillance and Milesight Intelligent Traffic cameras. In this section, Milesight Video Surveillance cameras are used as an example.

Steps are as follows:

Select the camera and time period from the "**Time Range**" section at the left side of the interface, then click 

to retrieve the relevant detection results.





4.7 Metadata Search

The Milesight Plugin allows user to specify the search criteria for accurate metadata searches. A set of attribute-specific filters is shown below.

Table 2. Supported Attributes

<table>
<tr><th>Search Type</th><th>Objects</th><th>Attributes</th><th>Supported Cameras
& Firmware Versions</th></tr>
<tr><td rowspan="9">Human Search</td><td rowspan="4">Face</td><td>Age</td><td rowspan="9">PE 8.0.5 or above

Note: Multi-sensor, Dual-sensor Panoramic and PD Cameras only support human detection (with no attributes)

Helmet Detection, Safety Vest Detection & Bag Detection needs: PG1 8.0.6-r2 or above</td></tr>
<tr><td>Gender</td></tr>
<tr><td>Mask</td></tr>
<tr><td>Glasses</td></tr>
<tr><td rowspan="5">Human</td><td>Hat</td></tr>
<tr><td>Bag</td></tr>
<tr><td>Upper Clothing Color</td></tr>
<tr><td>Lower Clothing Color</td></tr>
<tr><td>Helmet Detection</td></tr>
<tr><td rowspan="6">Vehicle Search</td><td rowspan="5">Vehicle</td><td>Safety Vest Detection</td></tr>
<tr><td>Type</td><td rowspan="5">- PE LPR Cameras: Supports all attributes listed here.

- SP111-regular: Supports vehicle type classificatin (Bicycle, Car, Motorcycle, Bus, Truck, Scooter)

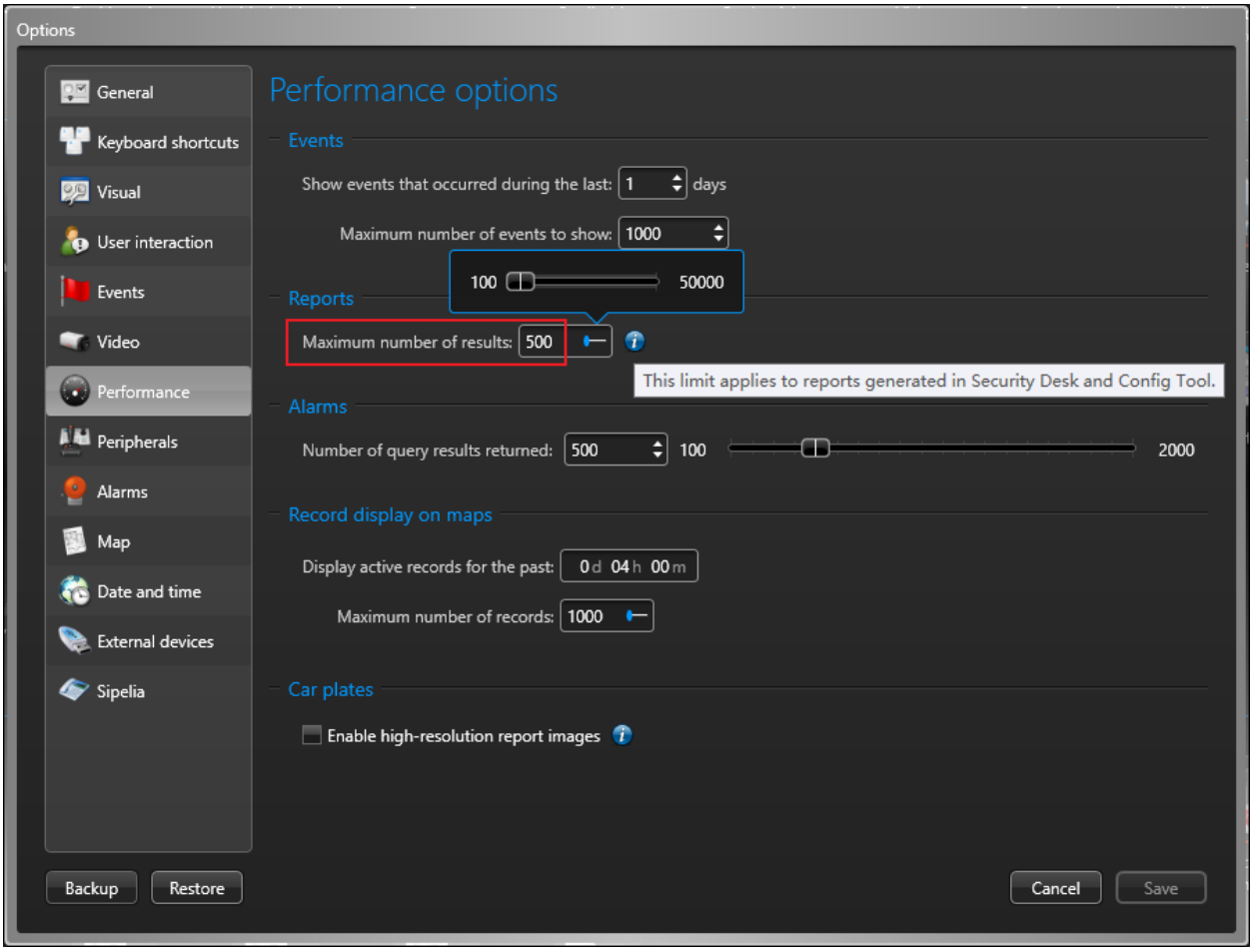
- Multi-sensor Panoramic Cameras: Supports Scooter (non-motor vehicle) classification.</td></tr>
<tr><td>Brand</td></tr>
<tr><td>Color</td></tr>
<tr><td>Speed</td></tr>
<tr><td>Direction</td></tr>
<tr><td rowspan="6">License Plate</td><td>Number</td><td rowspan="6">-PE LPR Cameras: Support all attributes listed here.

- SP111-LPR: Support license plate recognition.</td></tr>
<tr><td>Type</td></tr>
<tr><td>Color</td></tr>
<tr><td>Country Region</td></tr>
<tr><td>ADR Plate</td></tr>
<tr><td>LPR Watch List</td></tr>
</table>

Note:

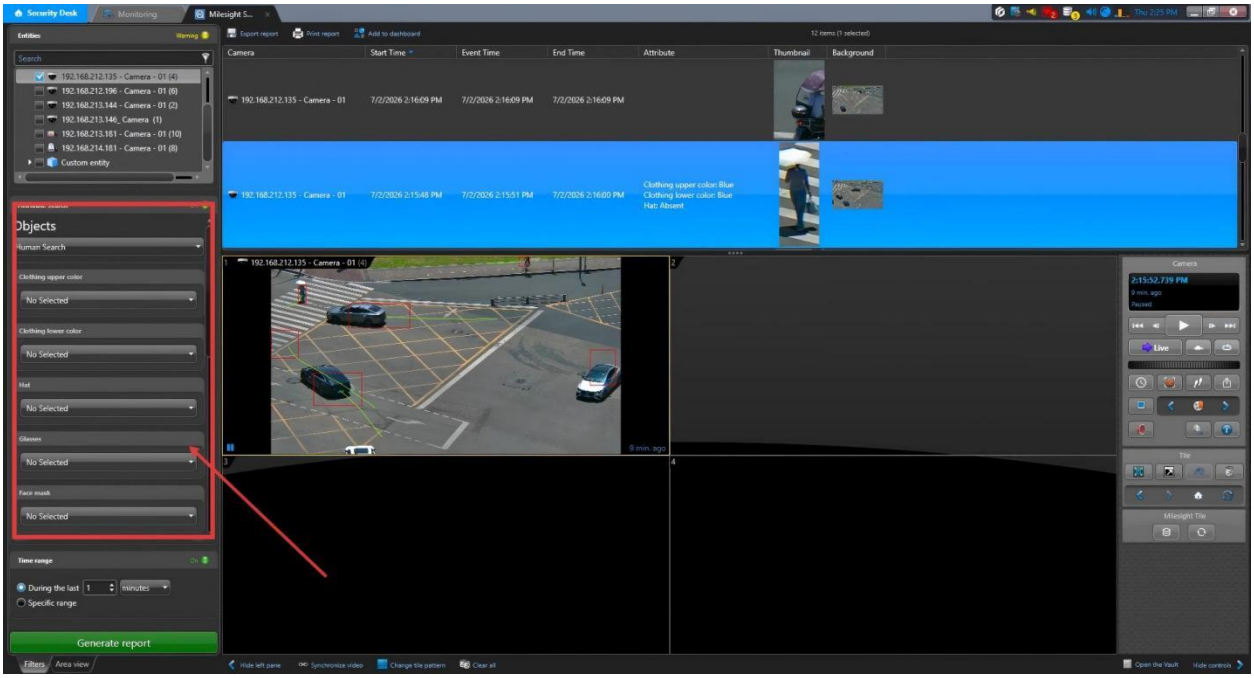
On the Performance Options panel, users can configure the maximum number of search results. The plugin currently supports generating up to 50,000 results. However, only the first 1,000 results will include snapshots; all subsequent results will be text-only.

This limitation is implemented to optimize storage utilization. Each result containing text, detailed snapshots, and background data is estimated to be approximately 5 MB. Consequently, 1,000 results would consume around 5 GB of storage. To manage storage quotas efficiently, snapshot generation is therefore restricted to the first 1,000 results.

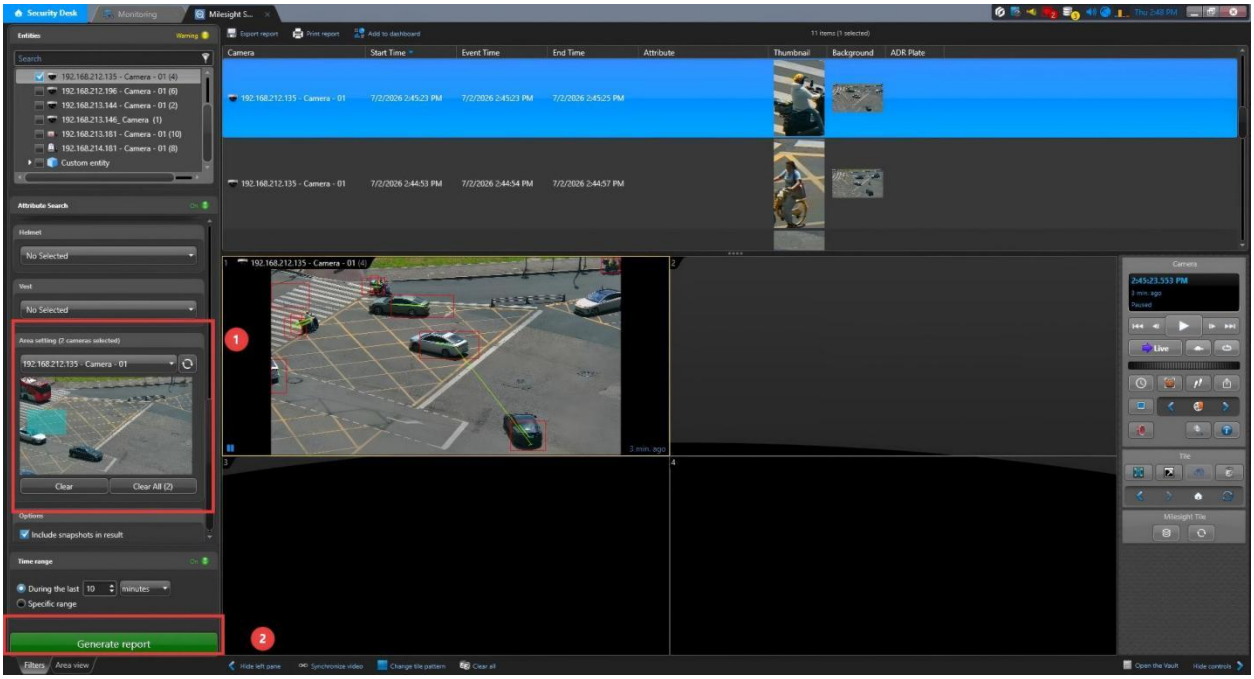


4.7.1 Human Search

When "Human Search" is selected for searching human-related attributes, the following filters are available. Users can customize search criteria to perform attribute searches.



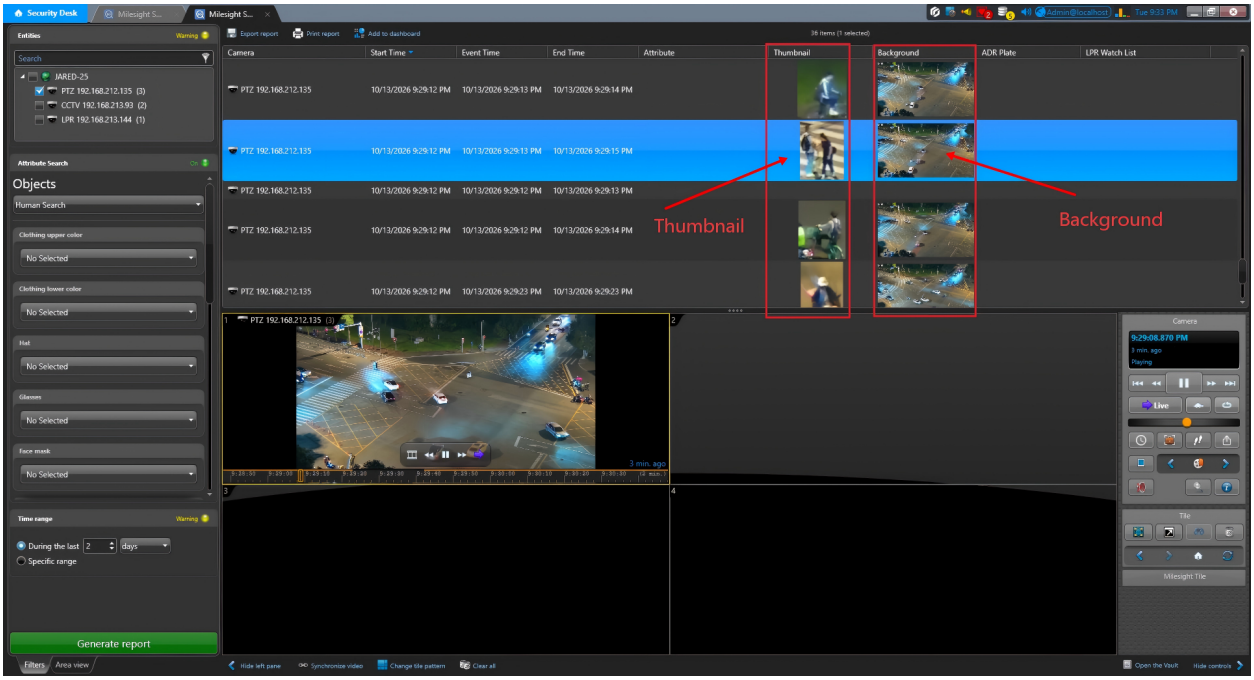
Users can also select a camera in the Area Setting section and draw a region on the thumbnail. Only results within the specified area of that camera will be searched.



If you need snapshots when searching for attributes, you can enable 

in the Options section. The plugin will then capture

snapshots from the recordings and display them in the Thumbnail column of the result list and also the surrounding pictures in the Background column.



The snapshot for Background could also show the object trajectory. If this function is needed, users could firstly go to the Options to enable 

and then the Background snapshot will show the trajectory.

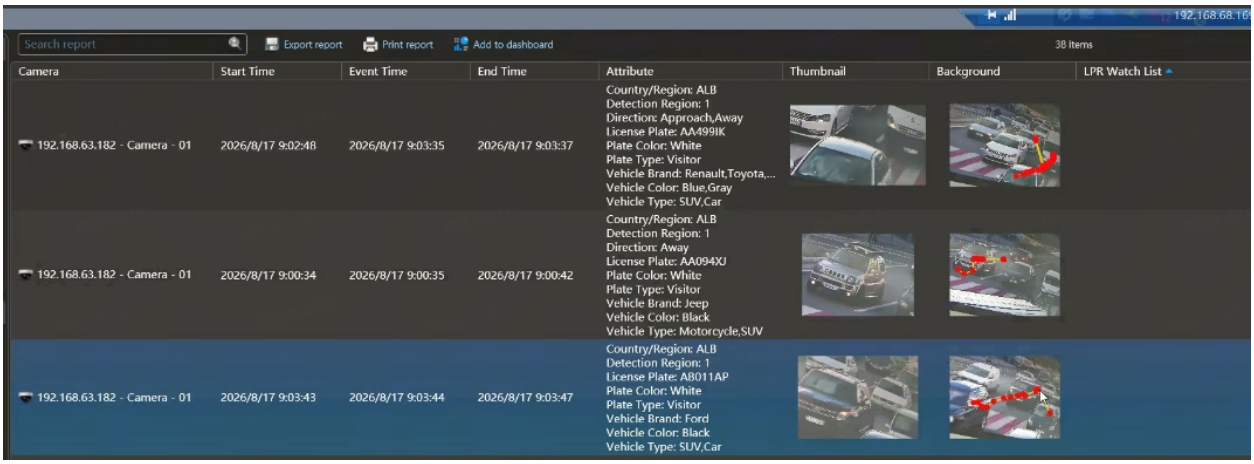
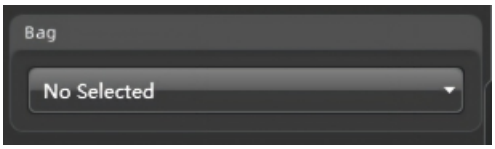
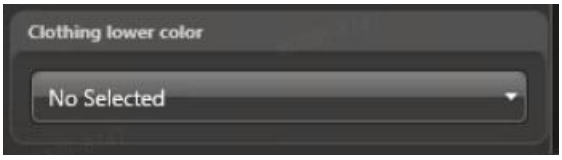
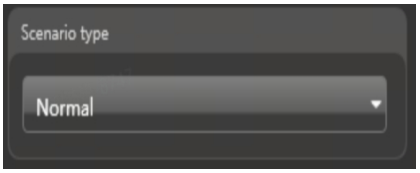
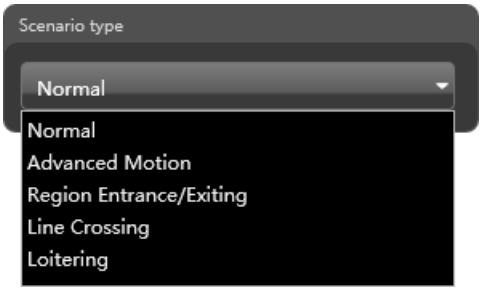
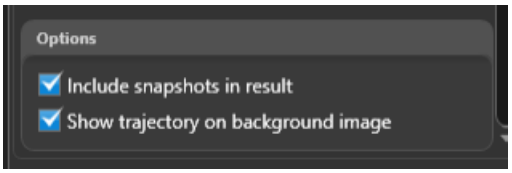


Table 3. Attribute Filter

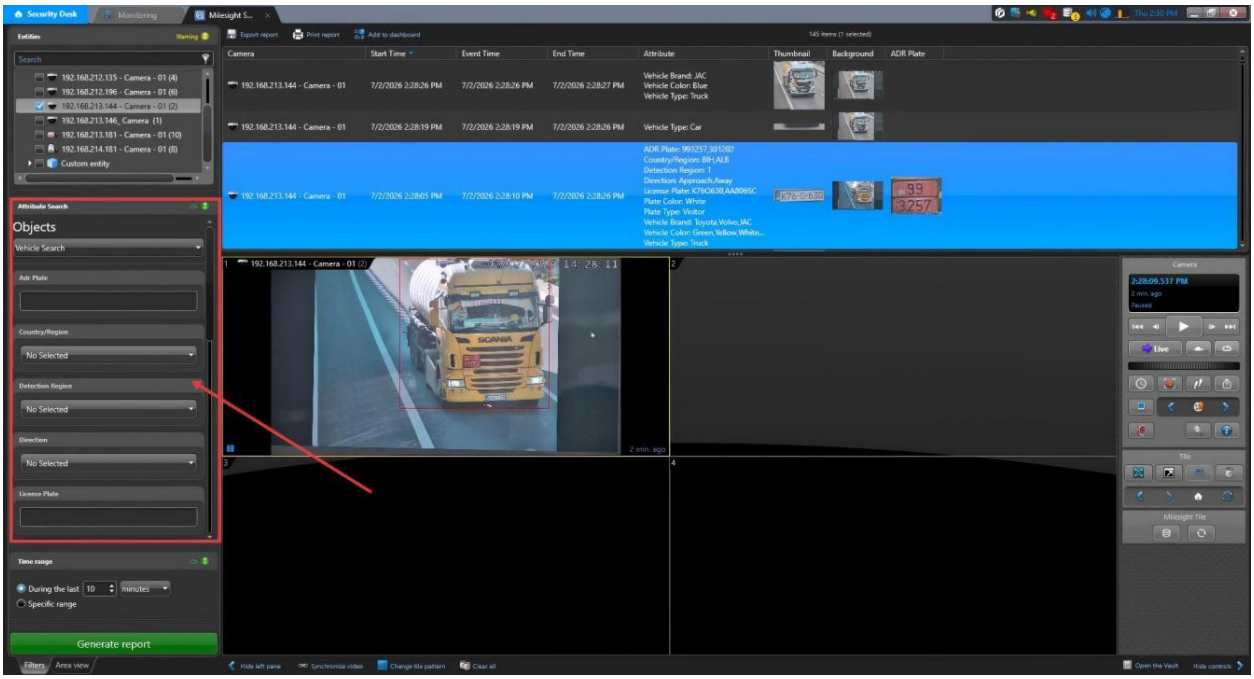
Attributes	Description
Bag	Choose different bag condition for object filtering. 
Clothing Upper Color	Select to filter by the clothing upper color. 
Clothing Lower Color	Select to filter by the clothing lower color. 
Hat	Choose different hat condition for object filtering. 
Glasses	Choose different glasses condition for object filtering. 
Face Mask	Choose different face mask condition for object filtering. 
Gender	Select tto filter by different gender. 

Attributes	Description
Age	Select to filter by different age. 
Helmet	Choose different helmet condition for object filtering. 
Vest	Choose different vest condition for object filtering. 
Scenario Type	Choose different event scenarios to find targeted objects under the corresponding event rules  **Note:** Currently event rules supported under this field are Normal, Advanced Motion, Region Entrance/Exiting, Line Crossing, Loitering  After the scenario type is selected, users then go to the **Area Setting** (see the column below) to draw the detection area. Different event type has different rule setting. For example, Line Crossing requires line drawing and Loitering requires box drawing and loitering threshold input.

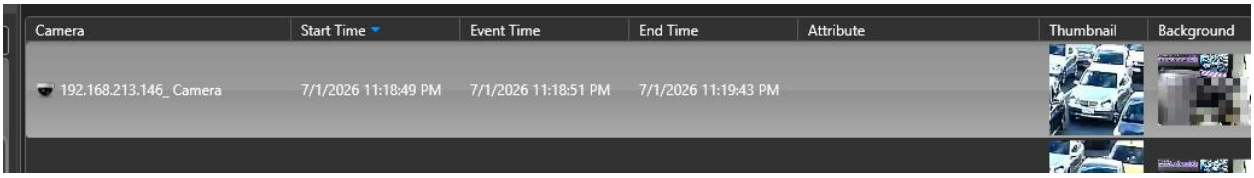
Attributes	Description
Area Setting	See 4.7.1 *(page 26)*
Options	Select "Include snapshots in result" to capture snapshots from the recordings and display them in the Thumbnail column of the result list. Select "Show trajectory on background image" to show the trajectory mark of the objects in the Background snapshot. 

4.7.2 Vehicle Search

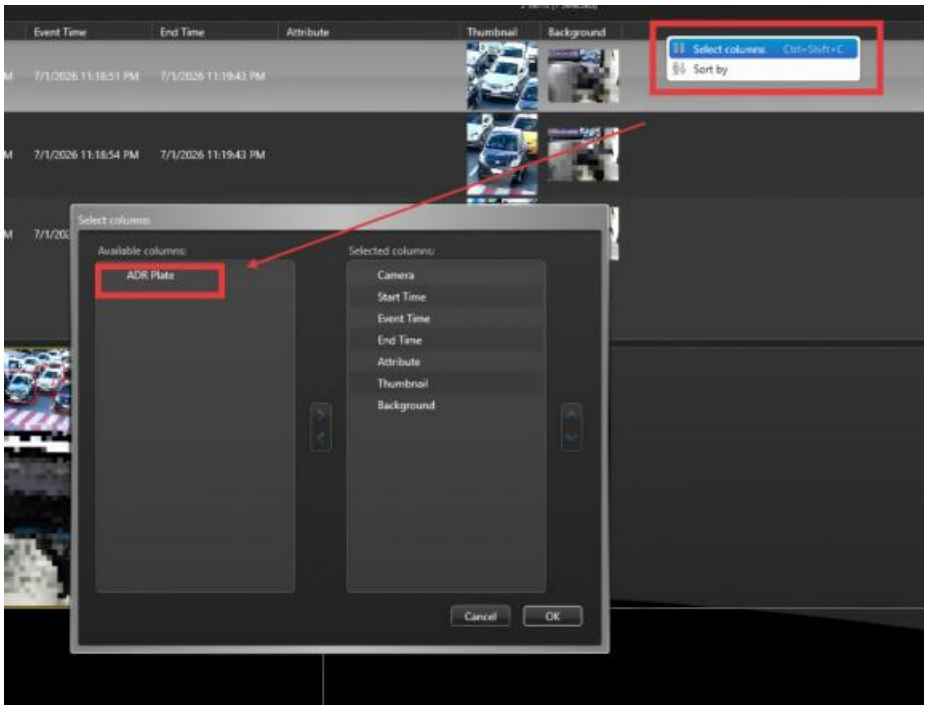
When selecting Vehicle Search to search for vehicle-related attributes, the following filter criteria are available:



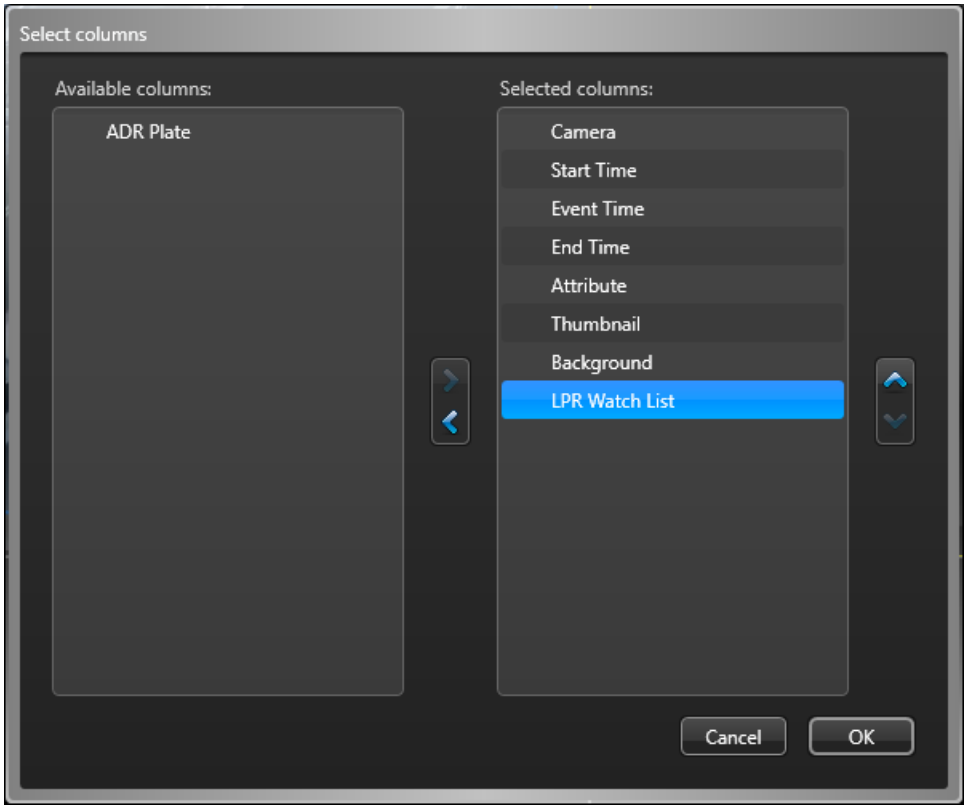
The plugin will then capture snapshots from the recordings and display them in the Thumbnail column of the results list and also the surrounding pictures in the Background column.



From Plugin V 2.0.0.1, it supports new attribute search – ADR Plate search. But this column is hidden by default. If needed please add it from the "Select Column" area.



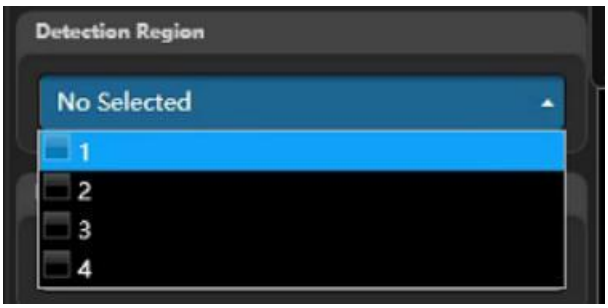
From Plugin V2.0.0.2, the smart search results will push a default column – LPR Watch List – for users to check whether the detected license plate belongs to some custom watch list.

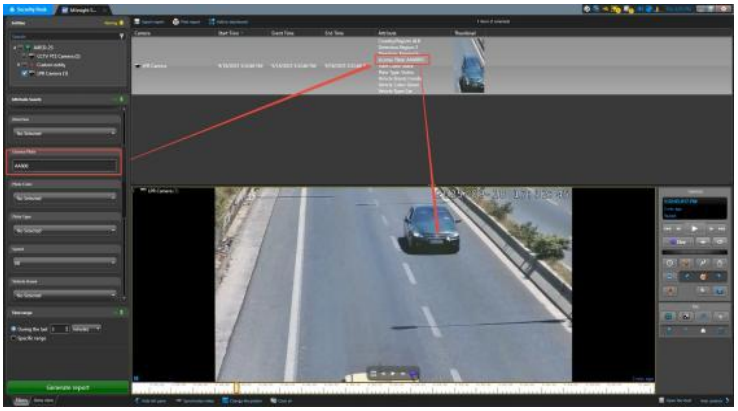
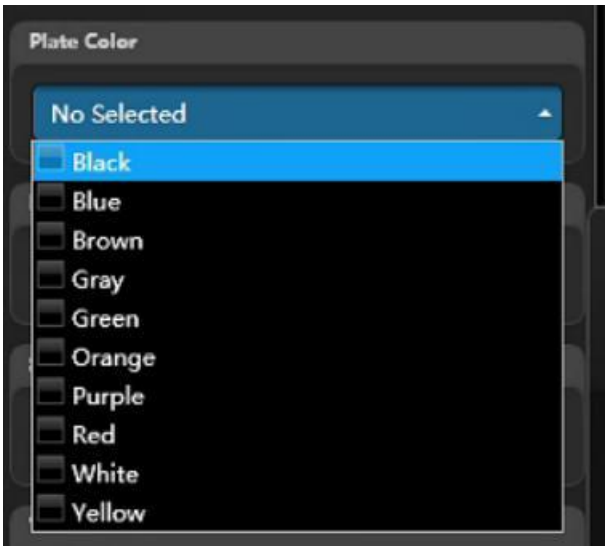


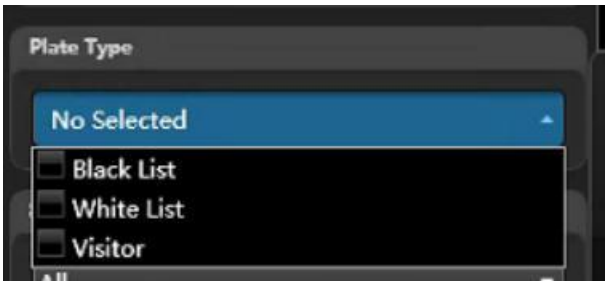
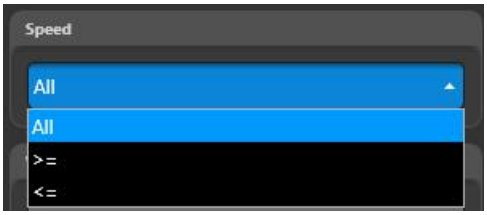
Note:

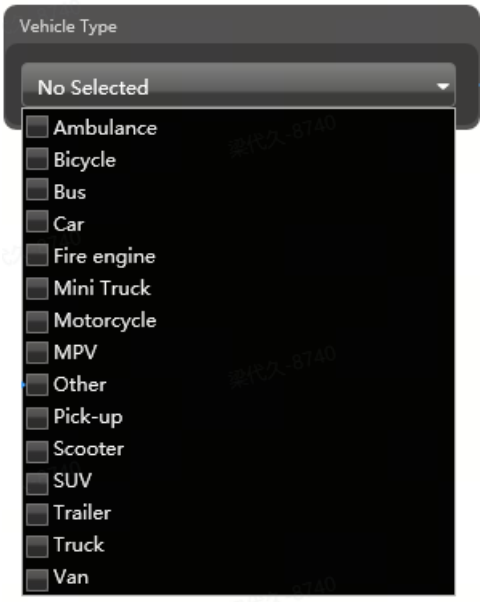
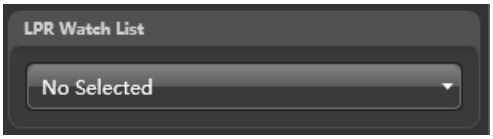
Only when the LPR Watch list is set on Plugin Properties (See Page) module and the LPR HTTP(S) Listening (See Page)is enabled, the default LPR Watch List would be appearred.

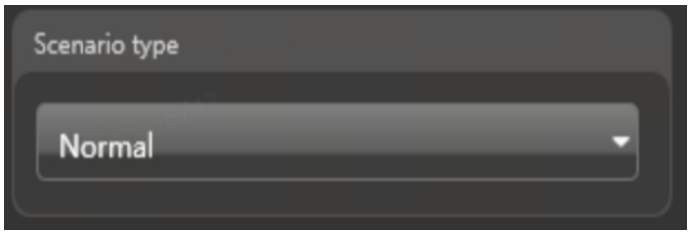
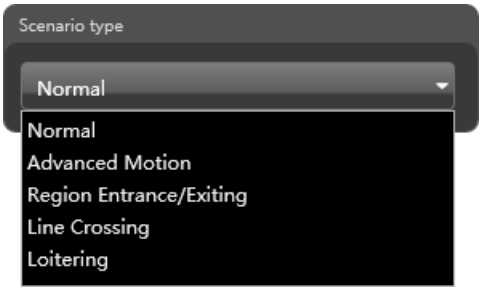
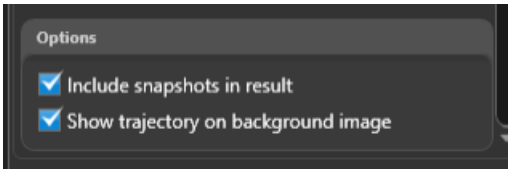
Table 4. Attribute Filter

Attributes	Description
Country/Region	Select to filter by the country/region of the license plate. 
Detection Region	Corresponds to the detection zone number configured on the camera side. Region 1 to 4 are selectable. 

Attributes	Description
Direction	Select to filter by vehicle driving direction. "Approach" or "Away" are selectable. 
License Plate	Supports fuzzing matching, i.e., entering partial numbers/characters contained in the license plate will retrieve matching vehicles. Example: Entering "AA606" can retrieve "AA606FC". 
Plate Color	Select to filter vehicles with specific license plate colors. Supported colors are shown in the figure below: 

Attributes	Description
Plate Type	Select to filter by vehicle identity type. "Black List", "White List", and "Visitor" are selectable. 
ADR Plate	Supports fuzzy matching, i.e., entering partial numbers/characters contained in the license plate will retrieve matching vehicles.
Speed	Select to filter vehicles exceeding or falling below the specified speed range.  
Vehicle Brand	Select to filter by vehicle brand.
Vehicle Color	Select to filter by vehicle color.

Attributes	Description
Vehicle Type	Supported vehicle types, include: Ambulance, Bicycle, Bus, Car, Fire Engine, Mini Truck, Motorcycle, MVP, Scooter, SUV, Pick-up, Trailer, Truck, Van, Other  **Note:** Scooter is currently only supported by Multi-sensor Panoramic cameras and Pro G1-regular series cameras.
LPR Watch List	Select to filter by LPR Watch List groups 

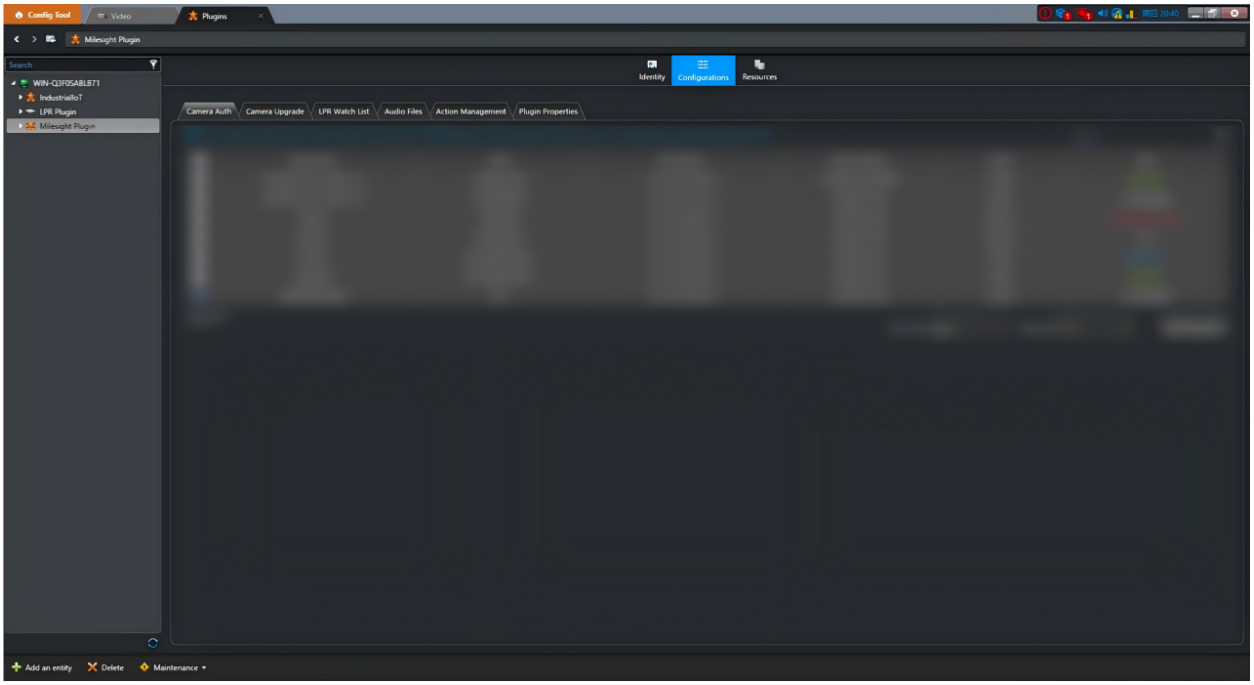
Attributes	Description
Scenario Type	Choose different event scenarios to find targeted objects under the corresponding event rules  **Note:** Currently event rules supported under this field are Normal, Advanced Motion, Region Entrance/Exiting, Line Crossing, Loitering  After the scenario type is selected, users then go to the **Area Setting** (see the column below) to draw the detection area. Different event type has different rule setting. For example, Line Crossing requires line drawing and Loitering requires box drawing and loitering threshold input.
Area Setting	See 4.7.1 *(page 26)*
Options	Select "Include snapshots in result" to capture snapshots from the recordings and display them in the Thumbnail column of the result list. Select "Show trajectory on background image" to show the trajectory mark of the objects in the Background snapshot. 

Chapter 5. Milesight Plugin Configuration Interface

Currently, Milesight plugin has its own management interface inserted on Genetec Config Tool, which will facilitate the management of Milesight Camera.

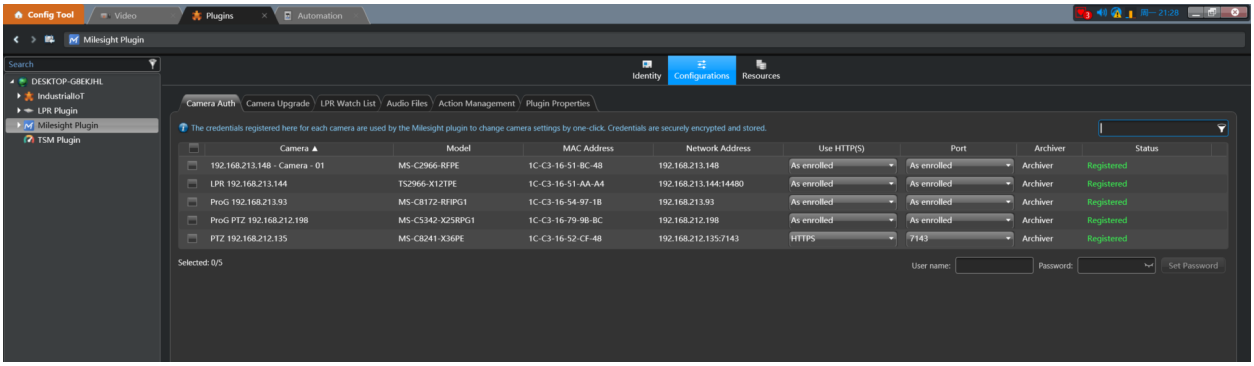
This plugin page has sub-tabs: Camera Auth, Camera Upgrade, LPR Watch List, Audio File, Action Management, and Plugin Properties.

This chapter will introduce these sub-pages and their functions thoroughly.



5.1 Camera Auth

Camera Auth is designed to pre-configure user names and passwords for Milesight Standard Cameras (also referred as "Registration"). Once registered successfully, the plugin can directly call camera APIs for configuration or quickly access the camera's web interface.



User name and password setting steps:

Step 1: In the table, check the box next to the target cameras.

Step 2: Enter the Username and Password in the fields at the bottom right.

Step 3: Click Set Password.

Step 4: Manage the HTTP(S) setting and Port setting on these two columns 

if your Genetec version is under 5.13 (This step is optional).

Step 5: The status will change to "Registered" upon success. If it fails, the status will show "Authentication Failed".

Note:

1. Status Explanation

Status	Color	Description
Registered	Green	Credentials verified successfully
Registering	Blue	Verifying credentials
Authentication Failed	Red	Invalid username or password
Offline	Gray	Camera is offline; status unknown
No Credentials	White	No credentials entered for this camera

5.2 Password-free IPC Web Login

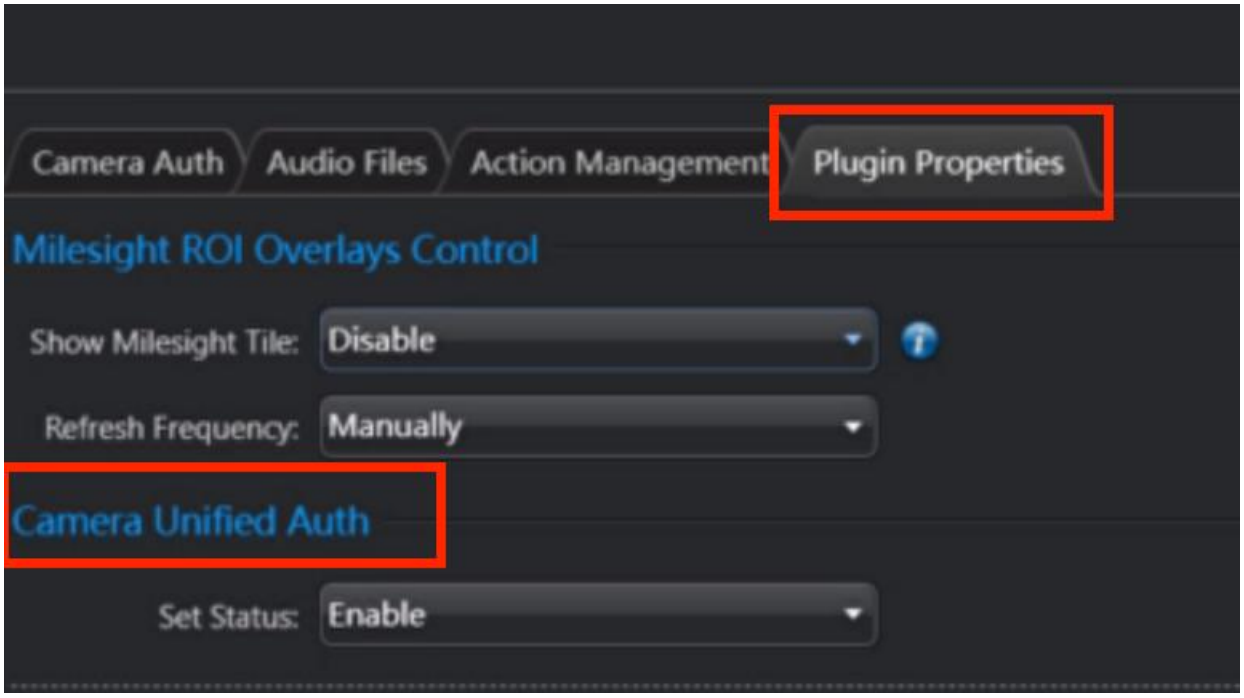
After finishing the setting of camera auth,you could enjoy direct camera web page login.This is because the username and password are pre-configured and remembered through

camera auth,allowing resources access to the camera web interface without manually entering the password again.

Here are the configuration steps:

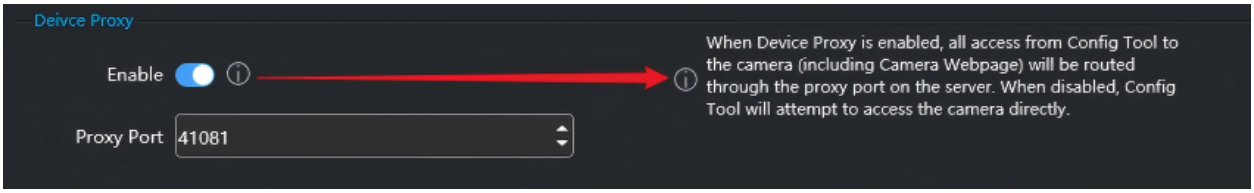
Step 1: Configure Camera Unified Auth. Detailed Step: 5.1 Camera Auth *(page 39)*

Step 2: Go to "Plugin Properties-Unified Auth" to activate the Unified Auth function for all cameras.



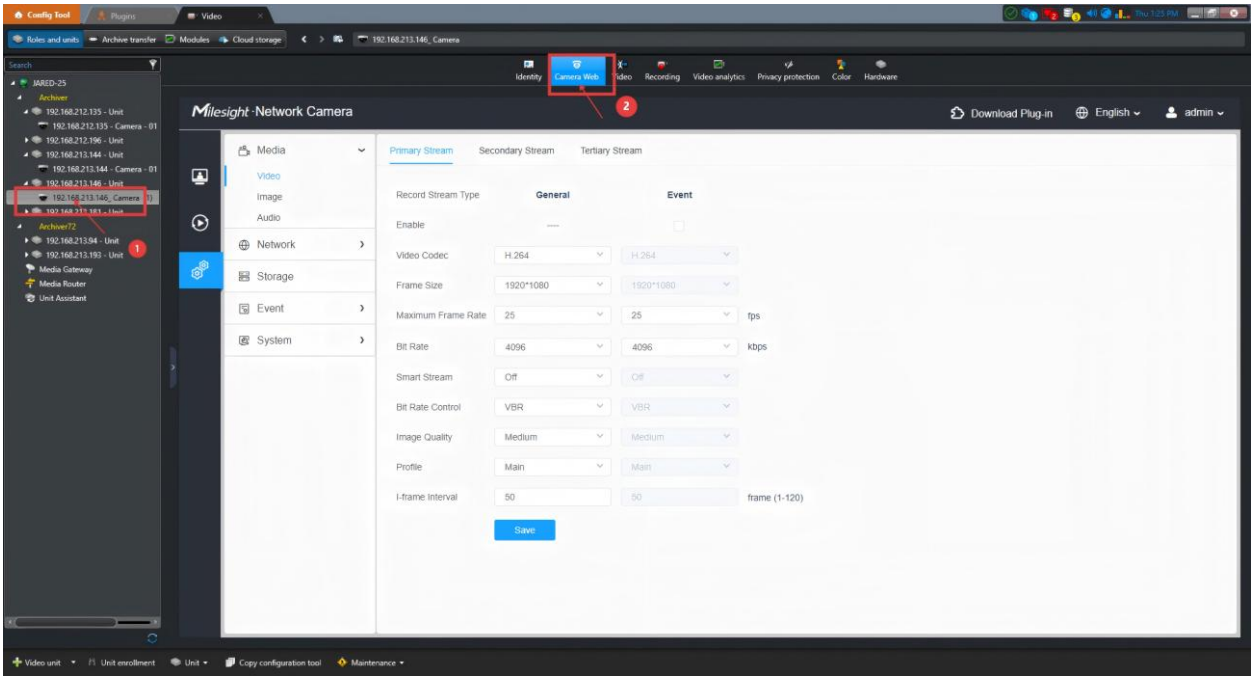
Step 3: Go to "Plugin Properties-Device Proxy".

By enabling the device proxy, the Config Tool will access the camera's web interface through a proxy port on the server instead of direct web access, preventing camera password exposure. From V2.0.0.2-r1, only the proxy is enabled the password-free login would success.



Step 4: Select the camera you would like to configure in video task,(see the icon"ⓘ" on the picture below.)

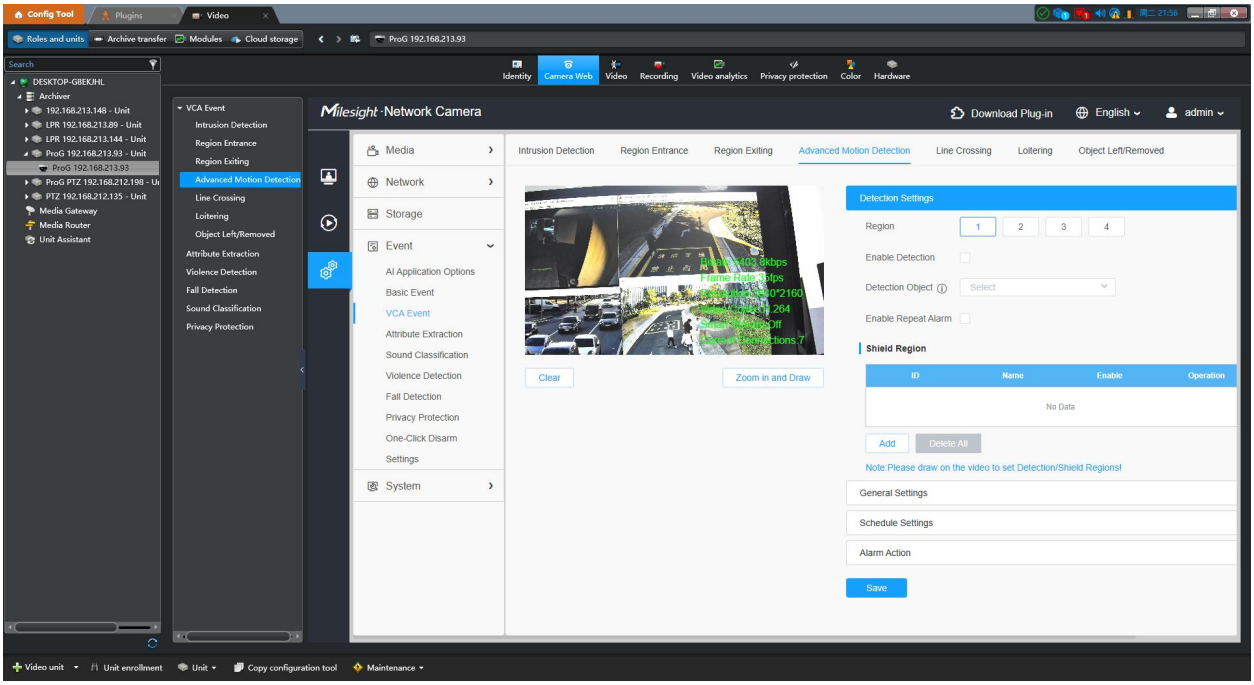
Step 5: Find the“Camera Web”and click it (see the icon“②”on the picture below)



Step 6: Start your configuration on the edge camera.

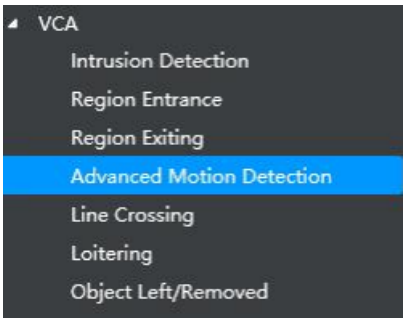
Note:

If the camera status is Registered on the plugin side, a button to expand the quick navigation menu will appear on the left side of the web interface after logging in. Hovering over this button displyas the tooltop "Show Navigation". Once the menu is expanded (as shown in the picture below), the button icon changes to a collapse icon, and its tooltip updates to "Hide Navigation".

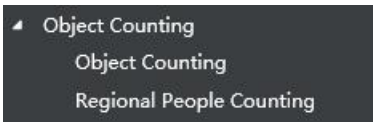


The menu items in the navigation bar are different and shall be displayed based on the current camera's AI capabilities. The classification rules are as follows:

1. VCA Events are listed under the item "VCA":



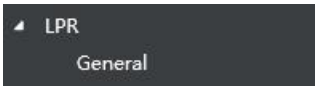
2. Object Counting and Regional People Counting are listed under the item "Object Counting":



3. Other AI Functionalities will be listed as independent items:



4. For Traffic Camera, there is only one sub-item option "General":

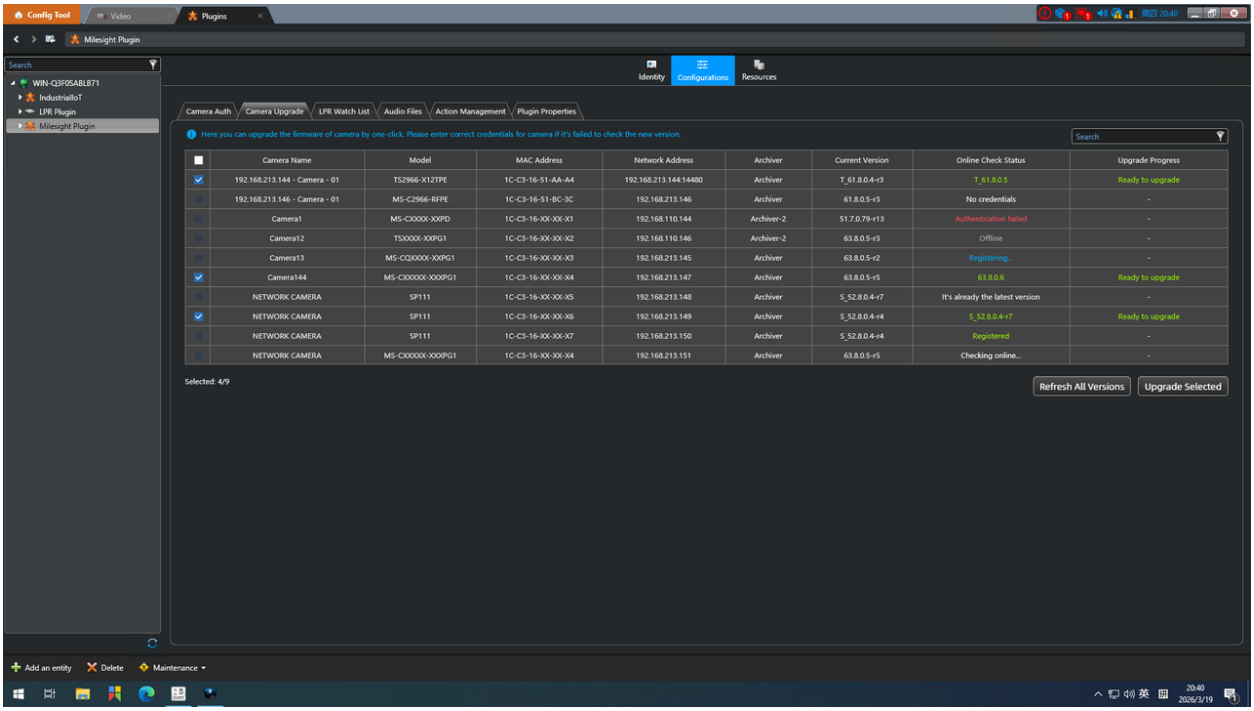


Besides, some cameras may not support this quick navigation function due to its firmware version.

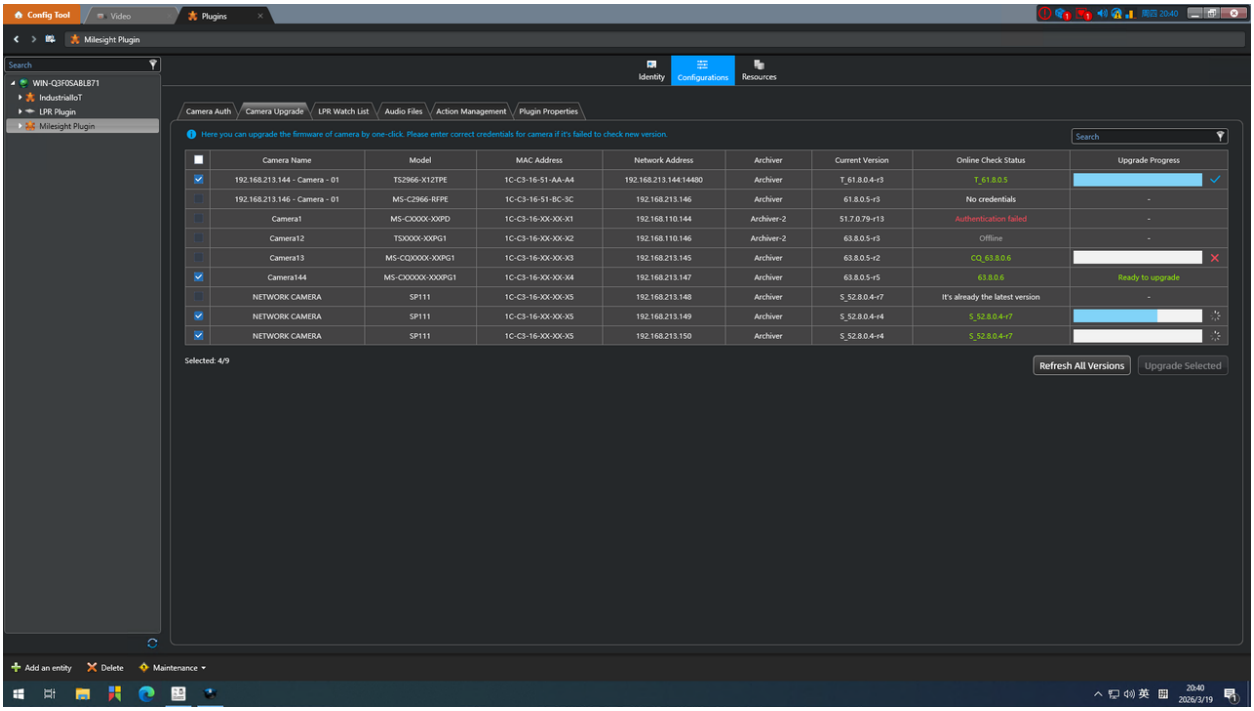
5.3 Camera Upgrade

Once the camera is found by the plugin, users could go to the Camera Upgrade to check the camera firmware version and to upgrade them in one click.

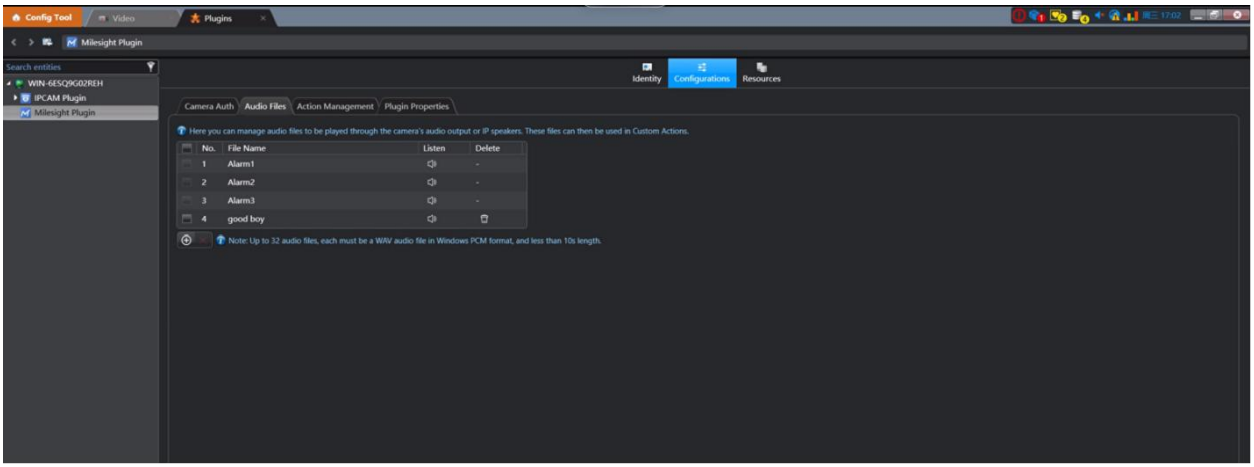
The column "Online Check Status" would display the firmware status. Click the button "Refresh All Versions" to check whether the current version is the latest. If so, the box will show "It's already the latest version." If not, the box will give the latest firmware version for this camera.



And if users would like to upgrade the cameras, select the ones that are not in the latest version and then click the button "Upgrade Selected". Then the cameras will upgrade themselves into the latest firmware.



5.4 Audio File



This page allows you to manage custom audio files for broadcasting through IP Speakers or Camera Audio Outputs. These files can be directly used in Custom Actions.

The system comes with 3 pre-installed alarm tones ready for immediate use.

These files are ready-only and cannot be deleted:

Alarm 1/ Alarm 2/ Alarm 3

1. Uploading Audio File

Step 1: Click the Add (+) button in the bottom-left corner.

Step 2: In the pop-up system window, select a file in WAV format.

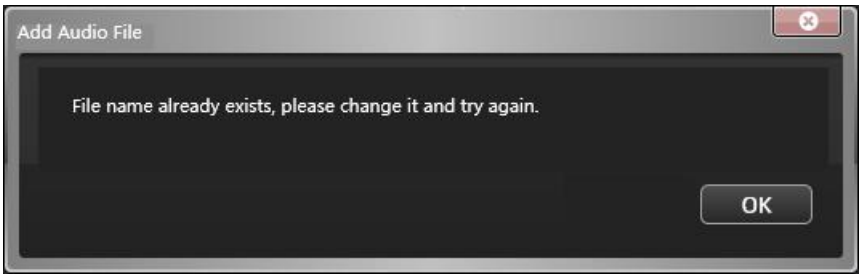
Step 3: Click "Open" to complete the upload.

Note:

Format: Must be Windows PCM WAV

Length: Must be less than 10 seconds (any excess will be automatically trimmed).

Duplicate Names: If the file name already exists, the system will prompt you to change it.



Limit: Maximum 32 files (including pre-installed files). The Add button will be disabled once this limit is reached.

2. Previewing Audio File

If you want to preview the audio, you could follow the following steps:

Step 1: Click the Speaker icon in the list to play the audio on your current computer.

Step 2: During playback, the icon changes to a Stop icon. Click item interrupt playback.

3. Deleting Audio File

If you want to delete the audio, just simple click the  icon:

Single Delete: Click the delete icon next to the file.

Batch Delete: Check multiple files and click the "Delete Selected" button at the bottom.

Confirmation: A pop-up window will appear stating: "are you sure you want to delete the selected audio file(s)? Deleted data cannot be recovered."

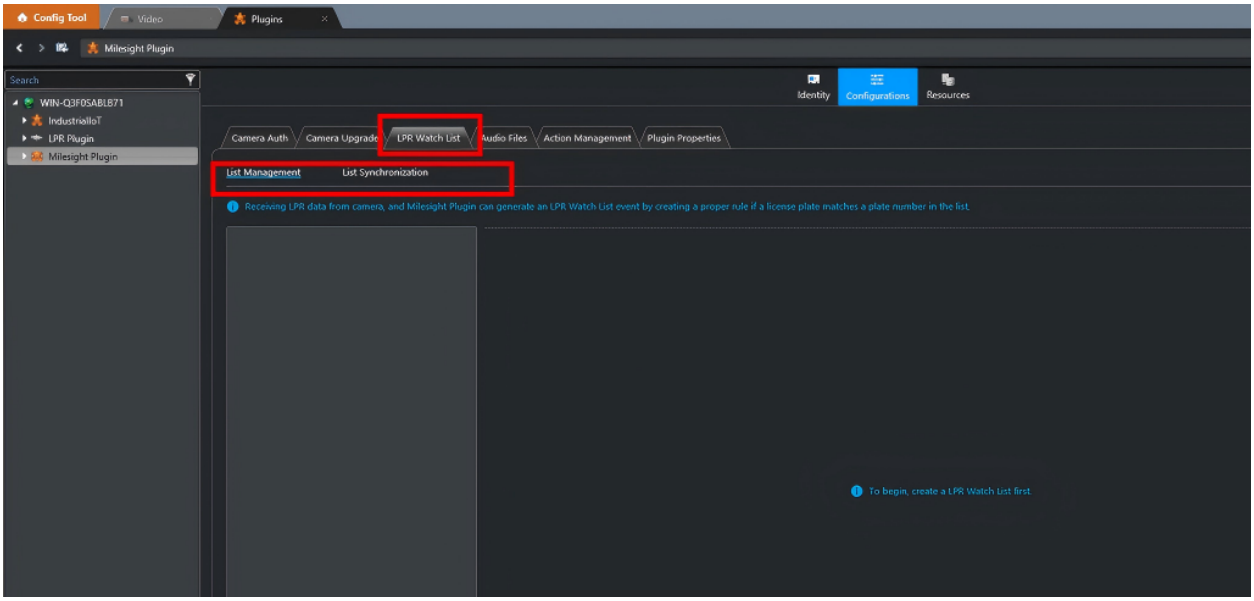


5.5 LPR Watch List

On the LPR Watch List page, you can centrally manage and distribute license plate lists. You can add multiple license plates into custom groups and define dedicated actions for each group. To ensure continuous operation during network outages, these groups can be synchronized from Genetec to the LPR cameras for local processing.

The LPR Watch List page consists of two sub-pages to support this workflow:

- **List Management**: Used for grouping multiple license plates and configuring group settings.
- **List Synchronization**: Used for sending the configured lists from Genetec to the connected LPR cameras.

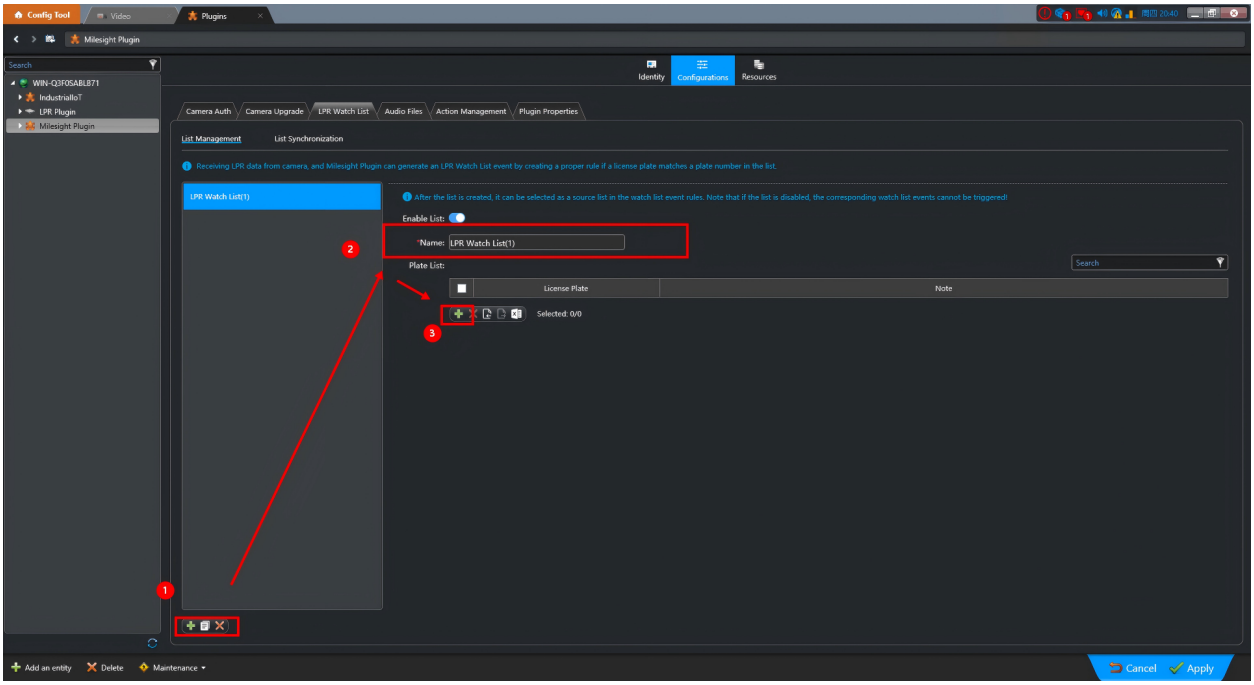


5.5.1 List Management

The List Management sub-page allows you to organize license plates into **custom watch list groups**. Each group acts as a categorized plate library—for example, authorized vehicles, VIP vehicles, delivery vehicles, or blocked vehicles—and you can add plates to a group individually or by batch import. Once defined, a watch list group can be used as a trigger condition in **Event-to-Action** rules.

When a LPR camera captures and recognizes a plate that matches an entry in the specified group, the VMS automatically executes the pre-configured action(s), such as sending an email notification, uploading snapshots to FTP/SFTP, triggering an alarm output, opening a barrier gate, or starting recording. This group-based mechanism simplifies the maintenance of large numbers of plates and enables rapid deployment of traffic and access-control applications.

Here are the steps for creating a new LPR watch list:

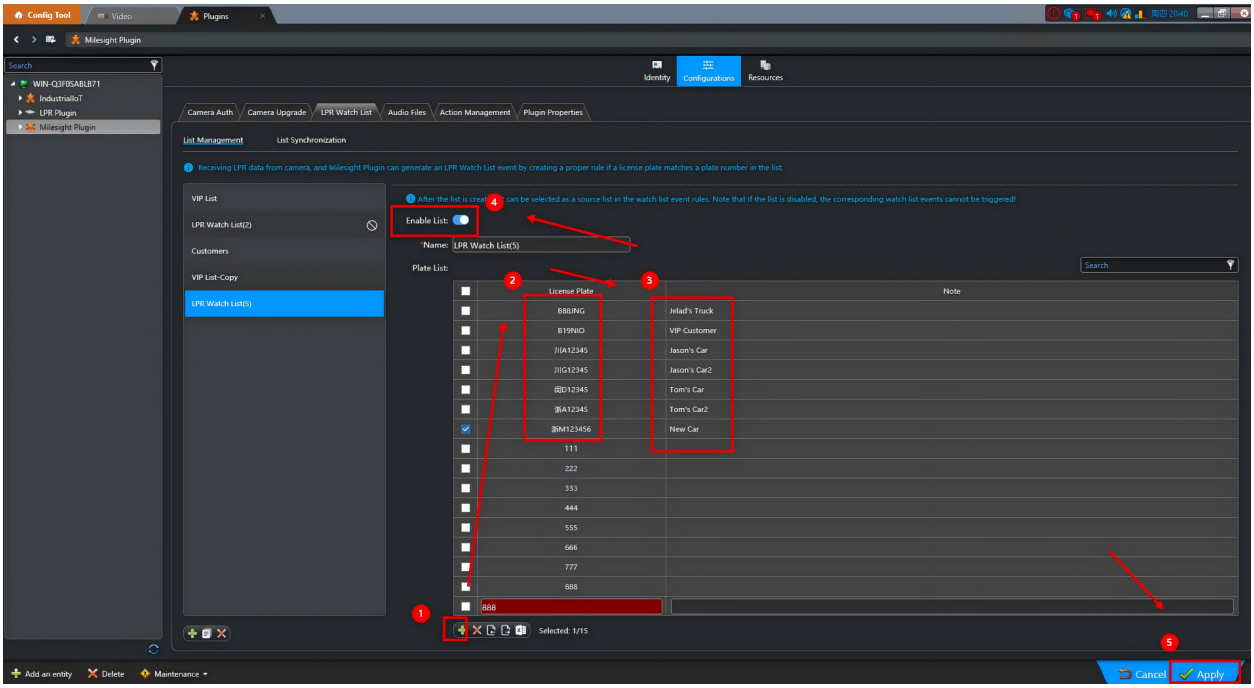


Step 1: Click  on the List Management module to create a setting interface for the new watch list

Step 2: Name the watch list

Step 3: Click  under this new watch list setting module to start editing plate numbers

To add plates, please follow the following instruction:



Step 1: Click to create a new row under the plate list table

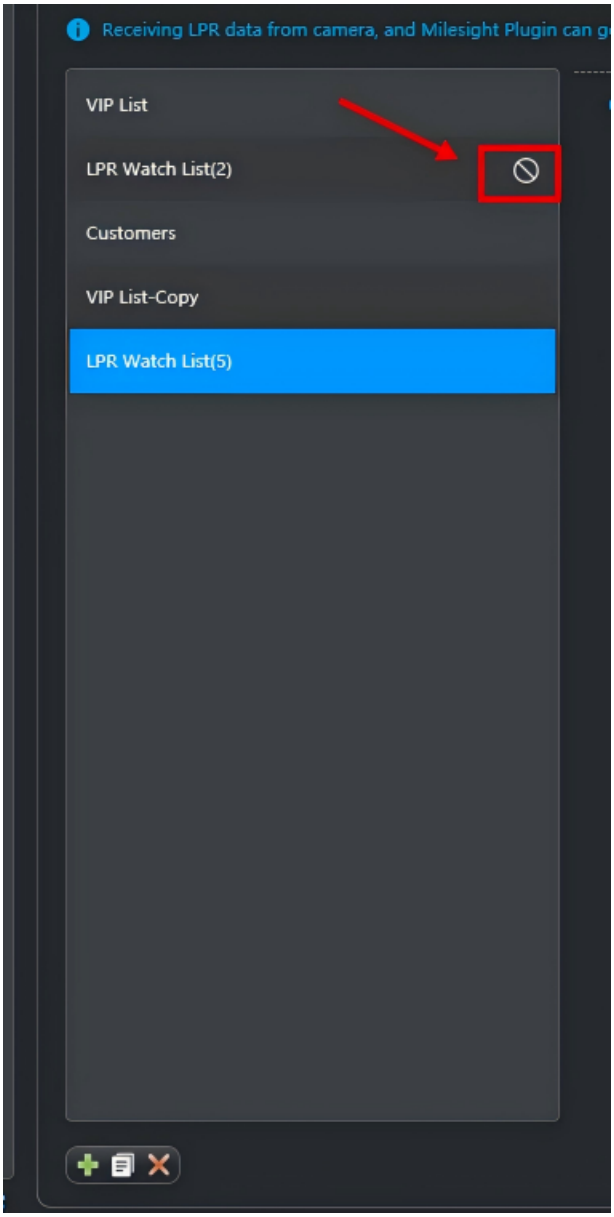
Step 2: Add the plate number unde the "List Plate" column, and add the additional information under the "Notes" column

Step3: Click "Enable list" to make this list available

Step4: Click "Apply"

Note:

1. If the list is not enabled, this icon will be appeared at the watch list column:

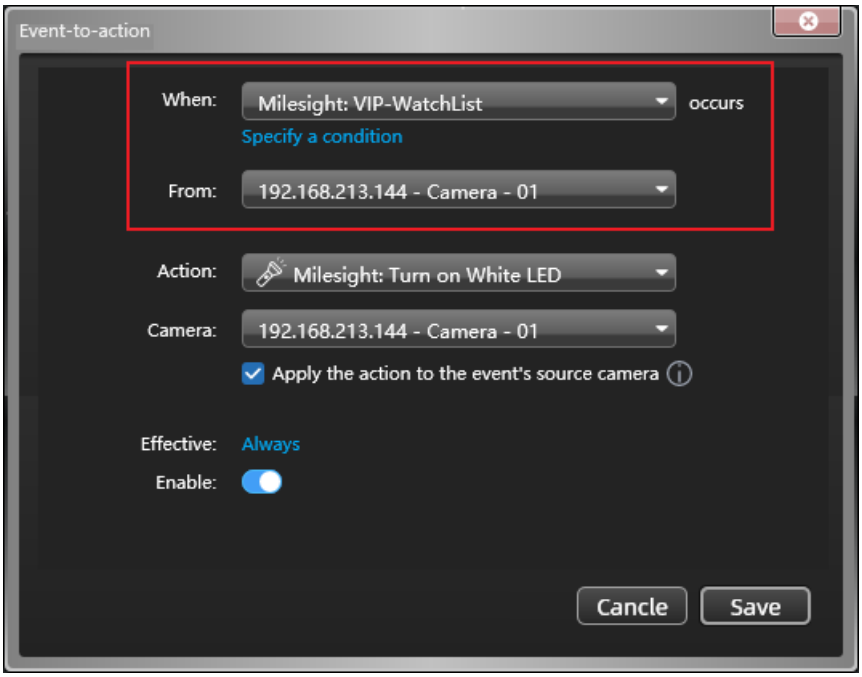


2. To save time, users could click this icon to upload a local file containing multiple license plate, rather than typing them individually. Please be noted that only files on ".csv" form will be successfully uploaded.

3. The watch list could also be exported to the local computer by click the export icon
4. The maximum of custom watch lists is 200, and the maximum of plates listed on each watch list is 2,000.

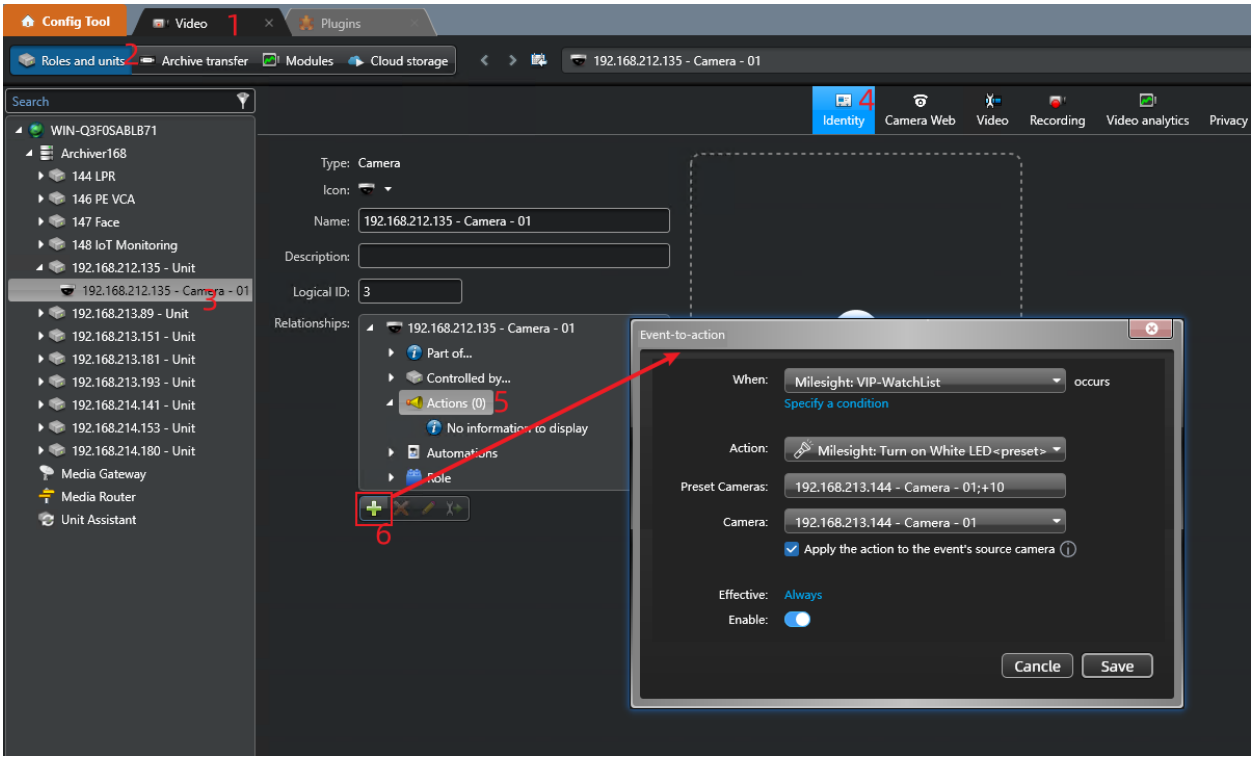
5.5.1.1 Watch List Event to Action

Once a watch list is created, it could be used as an event condition to trigger corresponding actions.



Users could find the watch list on the "when" field, and match the camera with the list condition if users configure the action on the Automation Task module

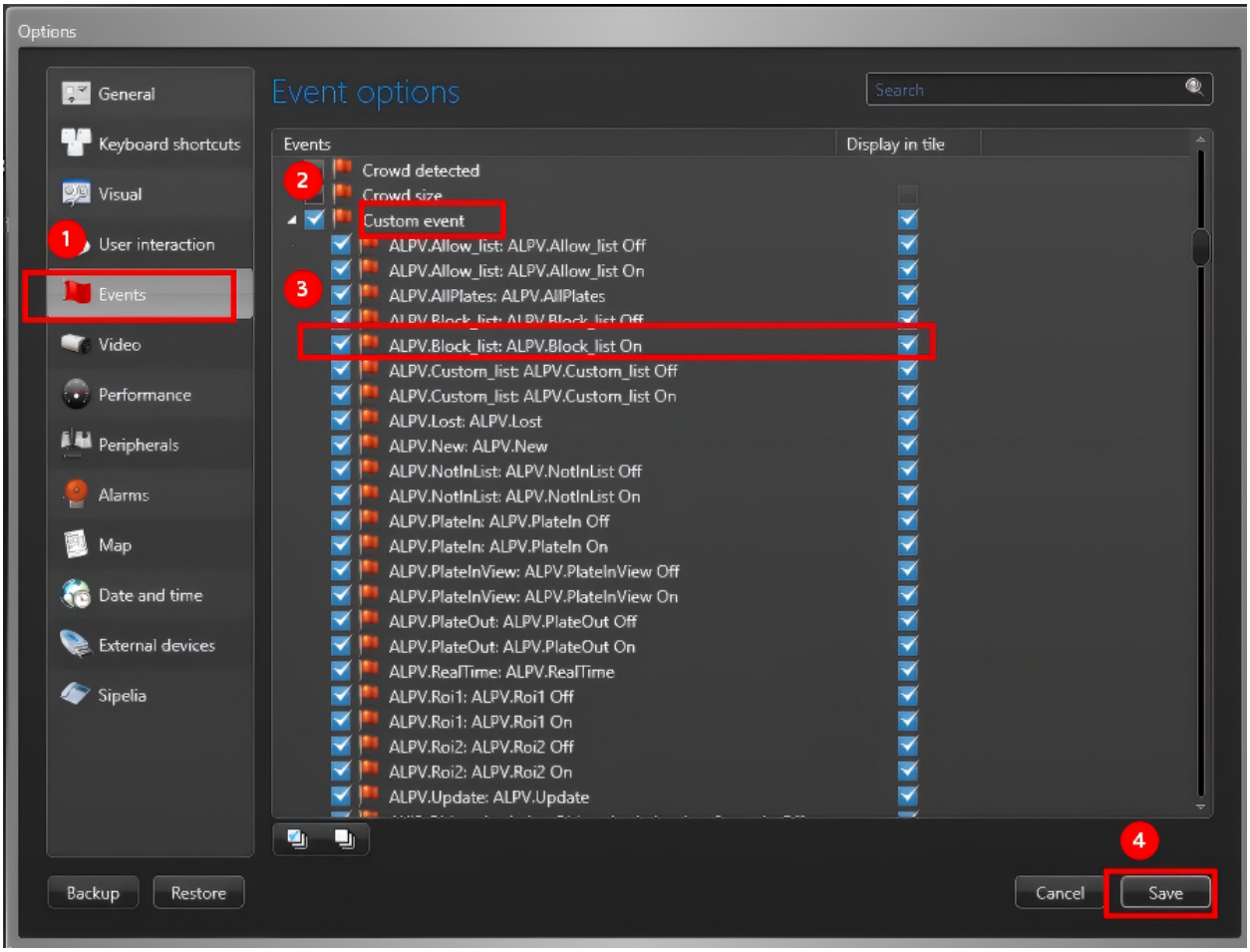
If users configure the action directly through the camera on the Video under Genetec Config Tool, then no extra camera selection field needed to be filled.



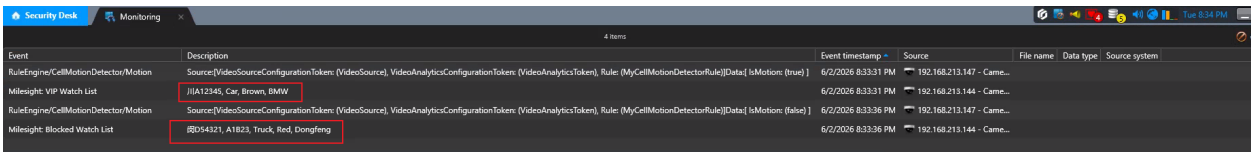
5.5.1.2 Watch List Event Monitoring

If users would like to receive the custom watch list information directly on the Monitoring page on Genetec Security Desk, please follow the instructions below:

Step 1: Go to Options on Security Desk and find Events; select Custom event and then find the custom watch list you've set; click two boxes on the corresponding row, and then click save. This step is to ensure the watch list is saved as Event by Genetec.



Step 2: Once cameras capture a license plate that is under the custom watch list, the vehicle information (License Plate, Vehicle Type, Vehicle Color & Vehicle Brand) will be pushed to the Monitoring page:



5.5.1.3 LPR Data Cleanup

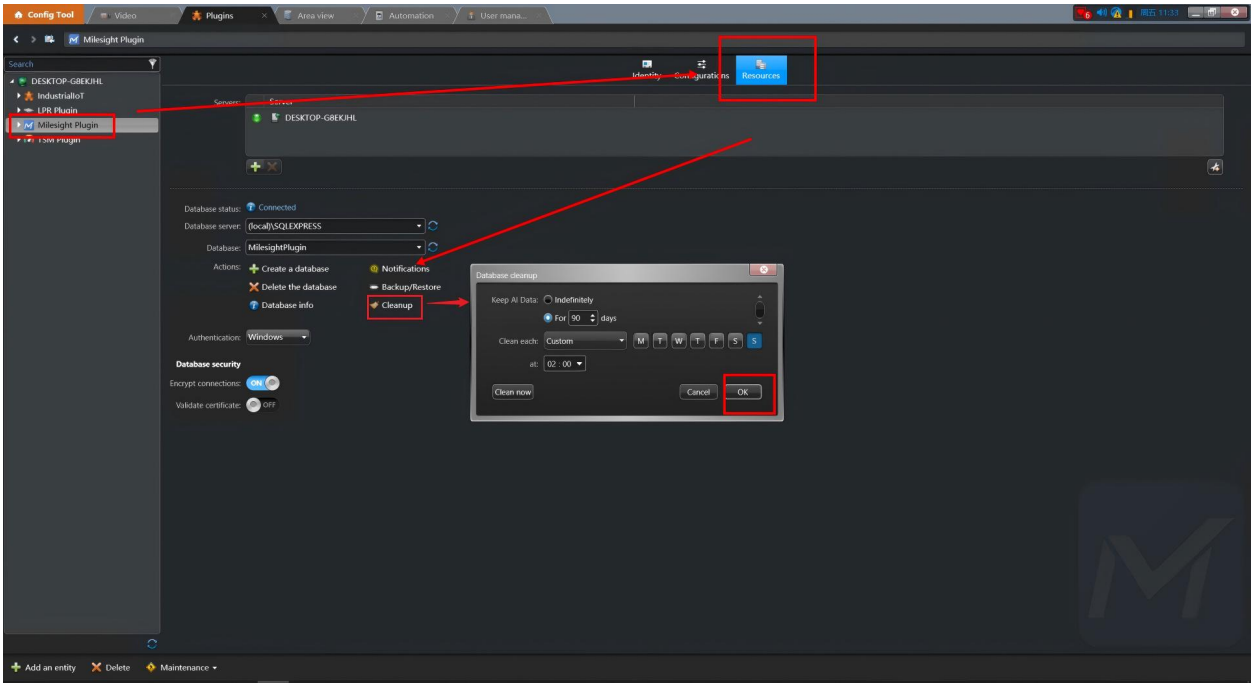
If the users would like to clean the LPR data listened by the plugin on a regular basis to optimize storage, the plugin also support the function of metadata cleanup on Genetec Config Tool. Follow the instructions below for this function:

Step 1: Go to the Plugin Module and find Milesight Plugin

Step 2: Go to the Milesight Plugin subpage and find the Resource tab.

Step 3: Click Cleanup and set the Cleanup frequency, Cleanup day and Clean up time.

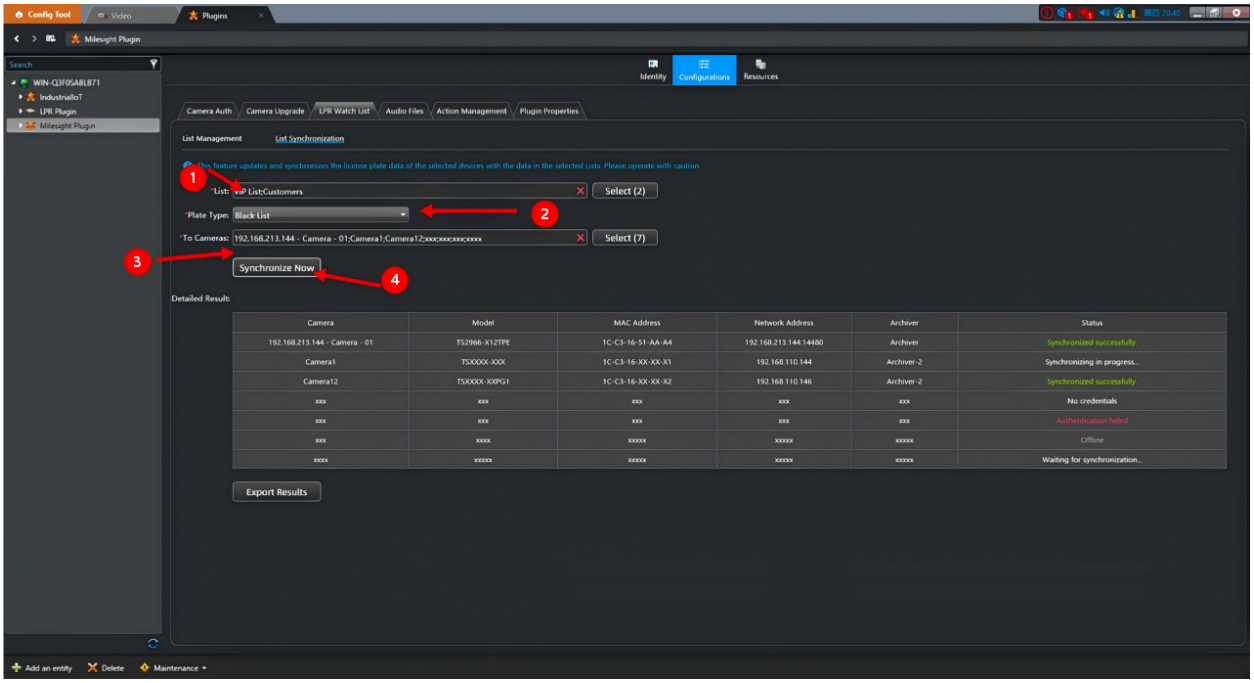
Step 4: Click OK to save the custom setting.



5.5.2 List Synchronization

List Synchronization allows the custom watch list set on the List Management be pushed to the LPR cameras. It enables centralized management of license plate lists across multiple cameras and prevents network outages from disrupting the cameras' ability to integrate with access control or barrier gate systems.

Please follow the instructions to synchronize the custom watch list to the edge camera:



Step 1: Select the Watch List (Please ensure the list has been set on List Management)

Step 2: Define the Watch List (Black List or White List)

Step 3: Select the cameras that will be deployed with those selected lists

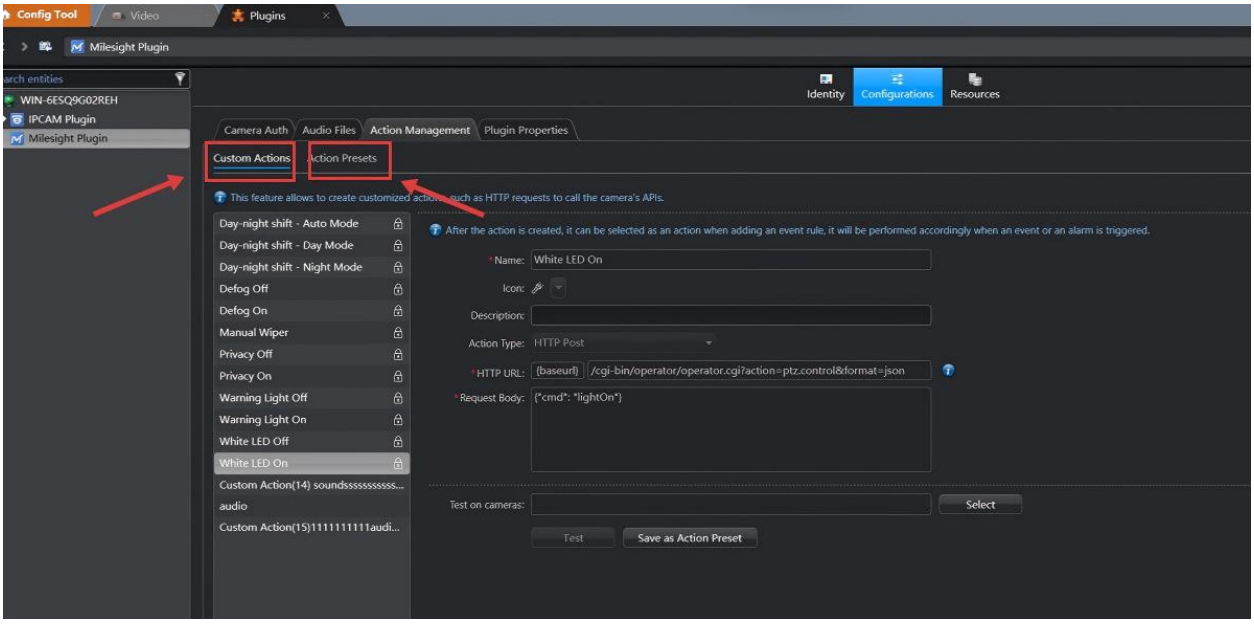
Step 4: Click "Synchronize Now" to synchronize these settings to the cameras

Users could check the synchronization status on the "Detailed Result".

5.6 Action Management

Users can directly configure alarm-linked actions for Milesight Cameras (such as warning lights, heating, or defogging) in Genetec Config Tool. These could be achieved on the sub-page "Action Management". It is core module in the plugin for managing and executing automated operations.

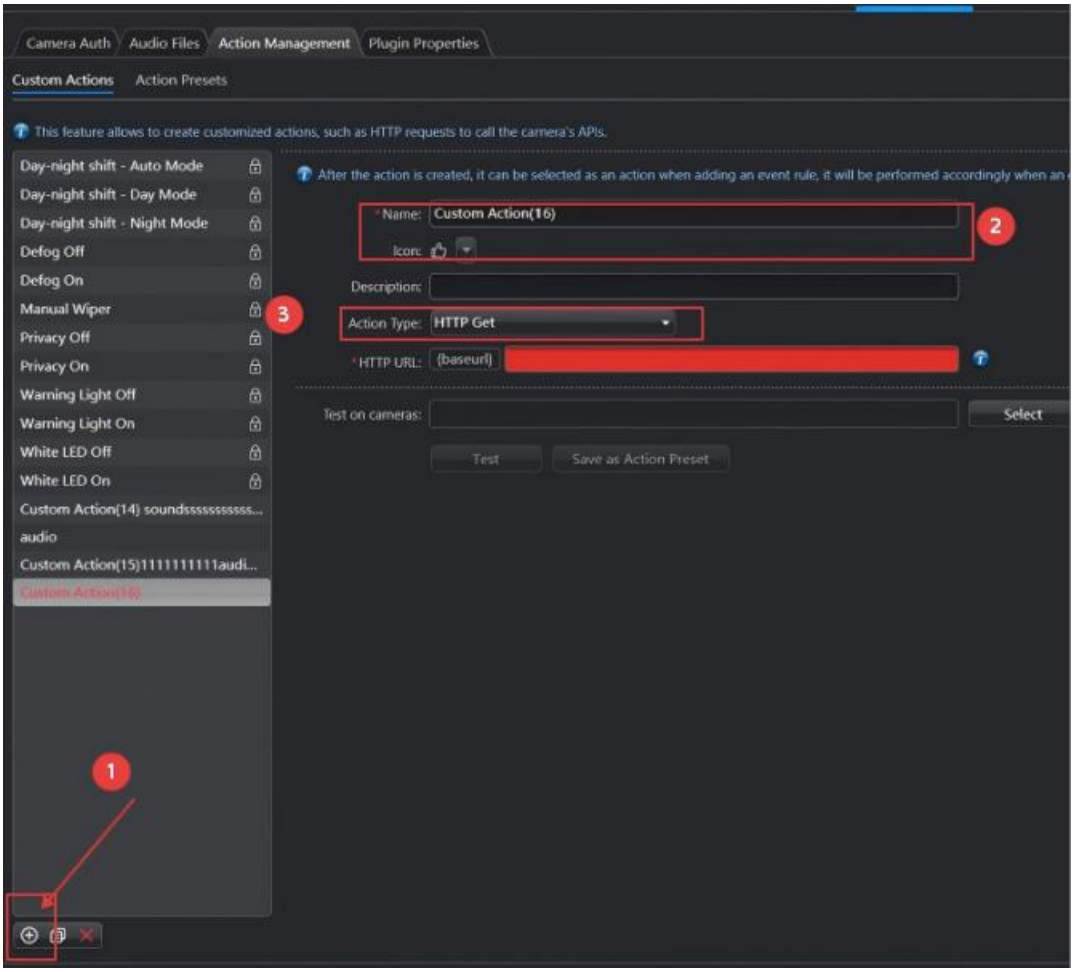
This page supports two types of Actions: Custom Action and Action Preset.



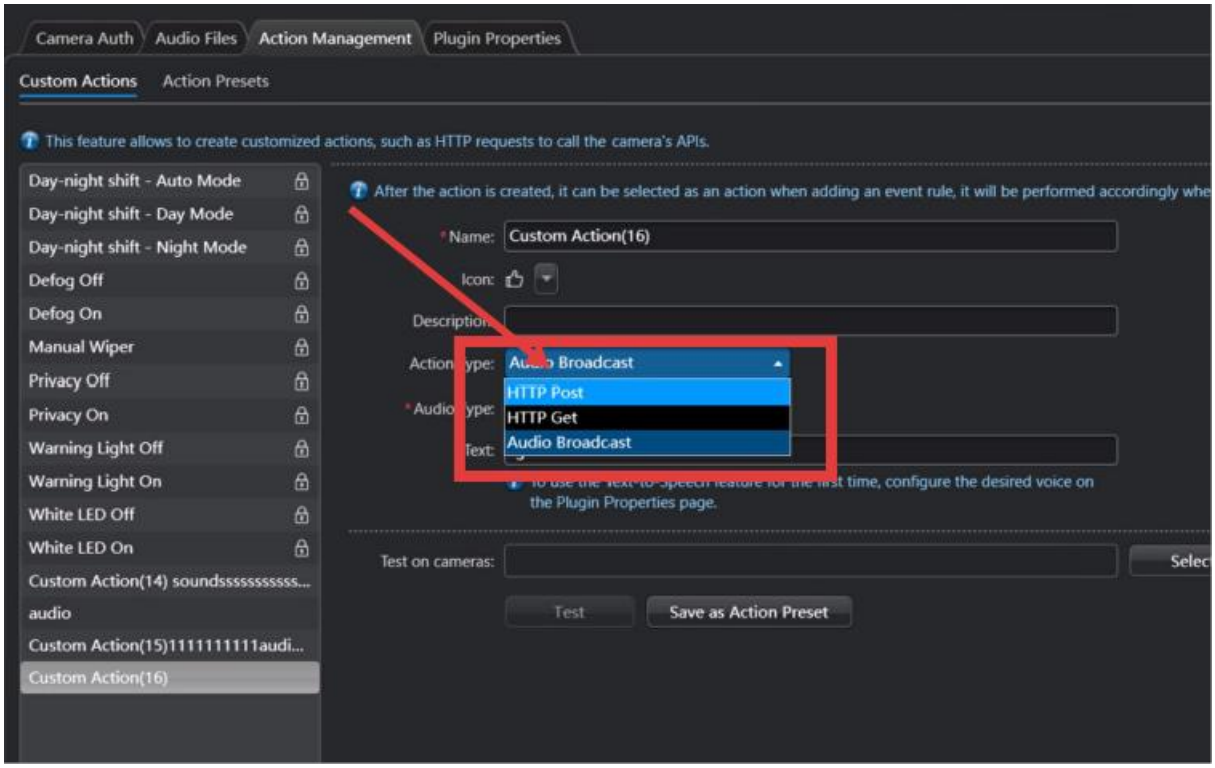
Custom Action allows users to add and edit all actions in the system. Users can then configure actions and select response cameras when setting up event rules. Action Preset is used to predefine the camera with the custom actions.

1. Custom Action

If you want to configure your own actions, please click the + on the left corner, and then rename it and choose the icon you would like to represent this action. And then select the action type.



This page supports three different action type configuration: HTTP Post, HTTP Get, and Audio Broadcast.



Operation Type	Description	Example Scenario
HTTP API (POST)	Trigger operations by sending POST requests to external interfaces with parameters.	Modify device IO status, turn on White LED.
HTTP API (GET)	Retrieve data or trigger lightweight operations via GET requests to external interfaces.	Query device configuration.
Audio Broadcast	Send audio (from uploaded Audio Files or TTS-generated speech) to target devices (camera/IP speaker).	Emergency broadcast, voice intercom

Note:

1. Different actions have different required fields needed to be filled.

Figure: Fields for HTTP Post

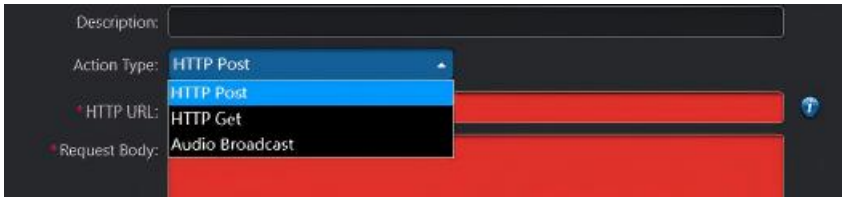


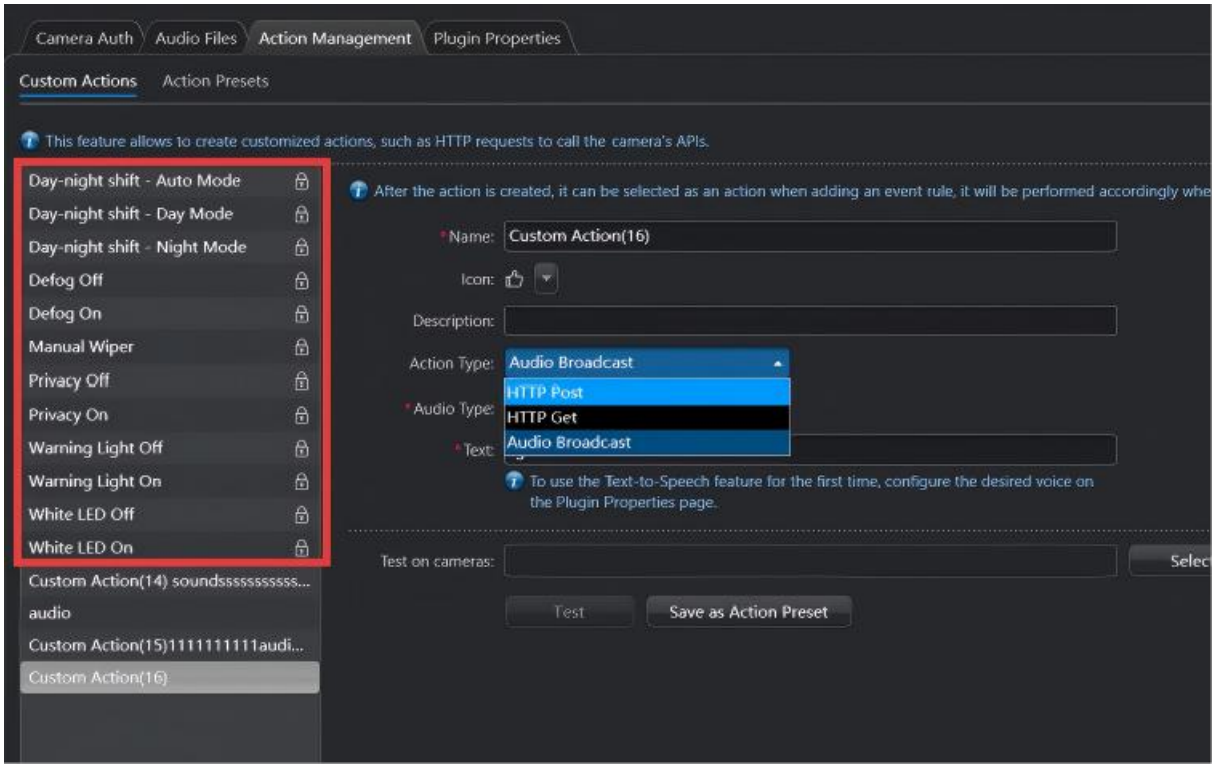
Figure: Fields for HTTP Get



Figure: Fields for Audio Broadcast



2. On the left column, the actions with a lock icon means that they are built-in actions. These cannot be deleted.

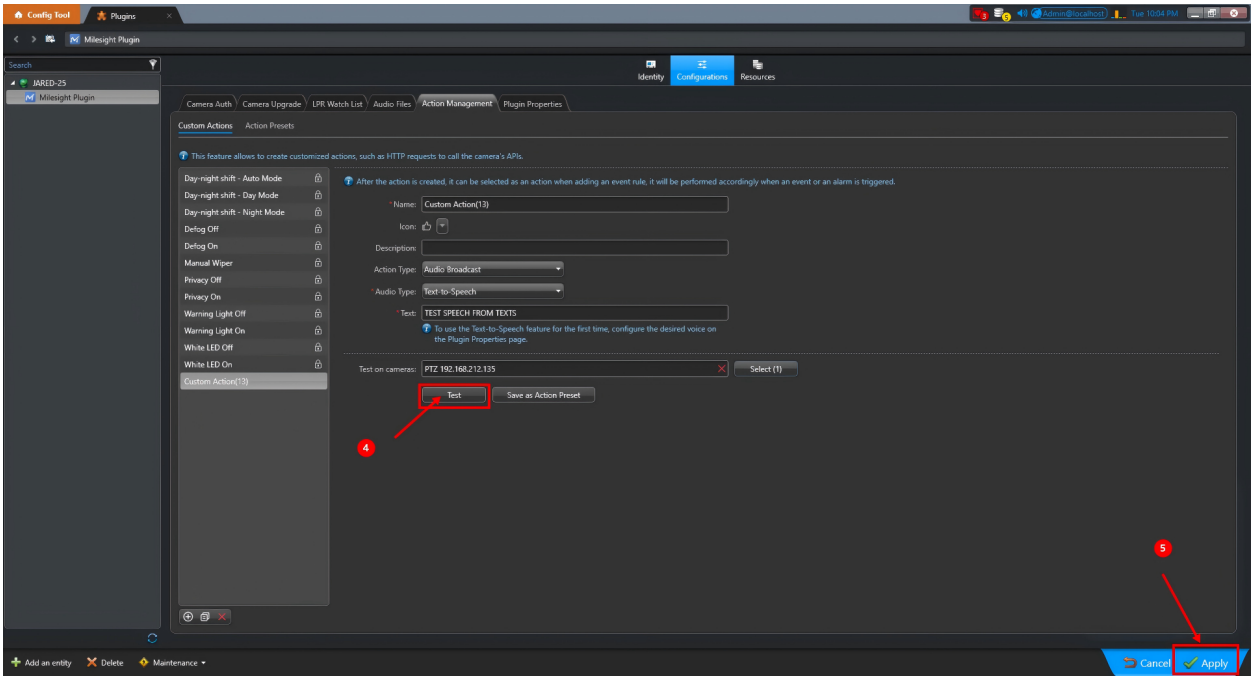


3. For Audio Broadcast, if you want to use audio, please firstly upload your audio file on "Audio File" page, and then back to the "Custom Action" page to select the audio file you want.

If you want to use "Text-to-Speech", enter the text on the below field and then go to "Plugin Properties" for the Sound Type selection.



Here is the final step: After the whole settings, you could click the "test" button for validation. If the configuration is all set, then click "Apply" to activate these settings. If you click "Save as action preset", then the page will automatically turn to "Action Preset".



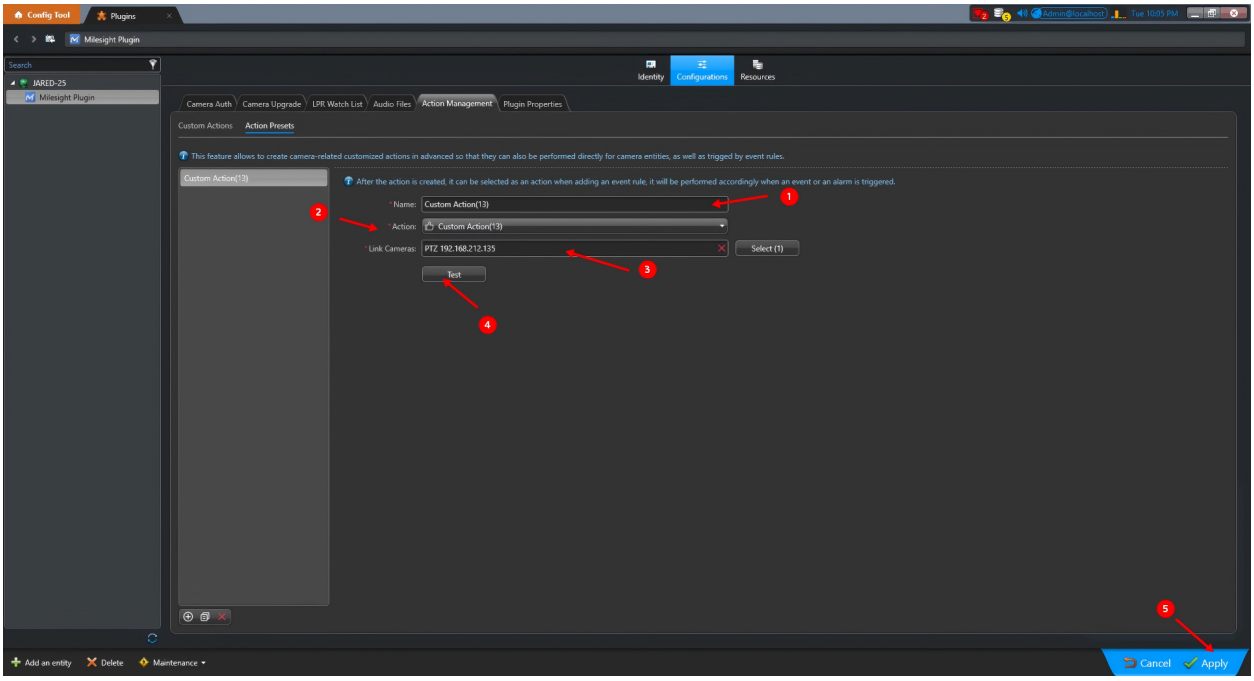
2. Action Preset

Function:

Created by duplicating an existing Custom Action and pre-binding it to a target device (e.g., camera, IP Speaker). Once bound, it can be directly called in event rules without re-selecting devices, significantly simplifying workflows.

Configuration step:

Enter into "Action Preset", name the preset at the field "Name", choose the pre-configured custom action at the field "Action", and select the camera at the field "Link Cameras". Test validation and apply the action.



5.6.1 Action Management-Where They Apply

Function and Purpose

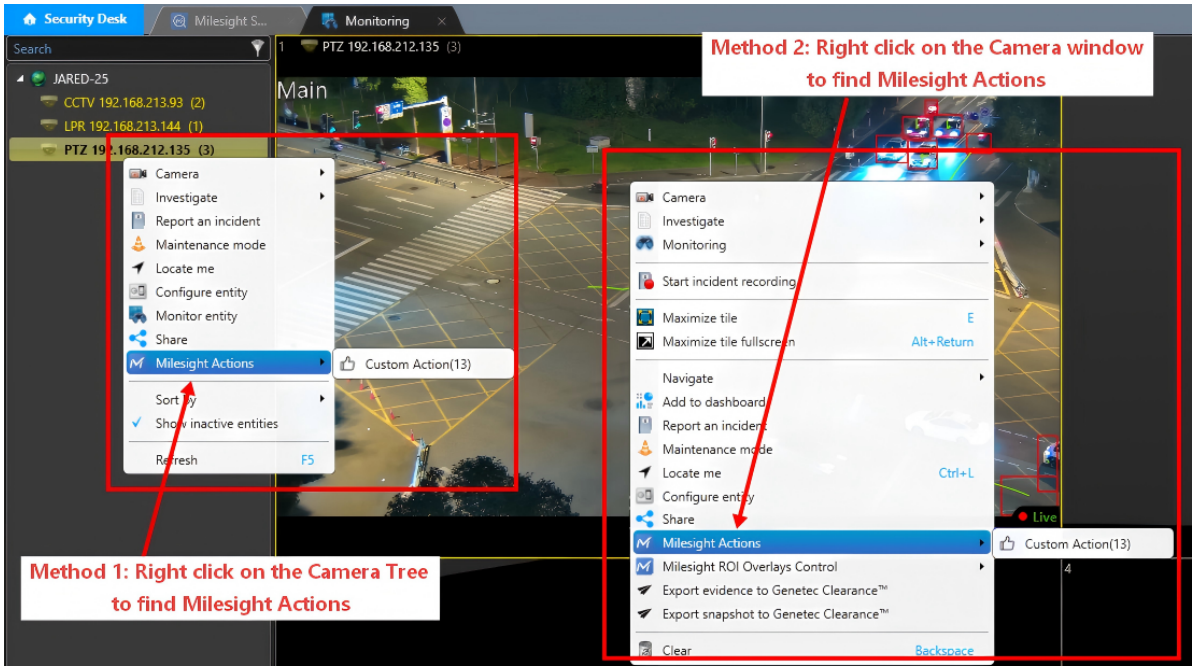
The two different functions serve different purposes in Genetec "ConfigTool" and "SecurityDesk":

- **Event rule configuration:** Both Custom Action and Action Preset apply.
- **Right-click menu control on Monitoring in Security Desk:** Action Preset only.

After the "Action Preset" is successfully configured, users can directly trigger the action on the linked camera through Monitoring on Genetec's Security Desk.

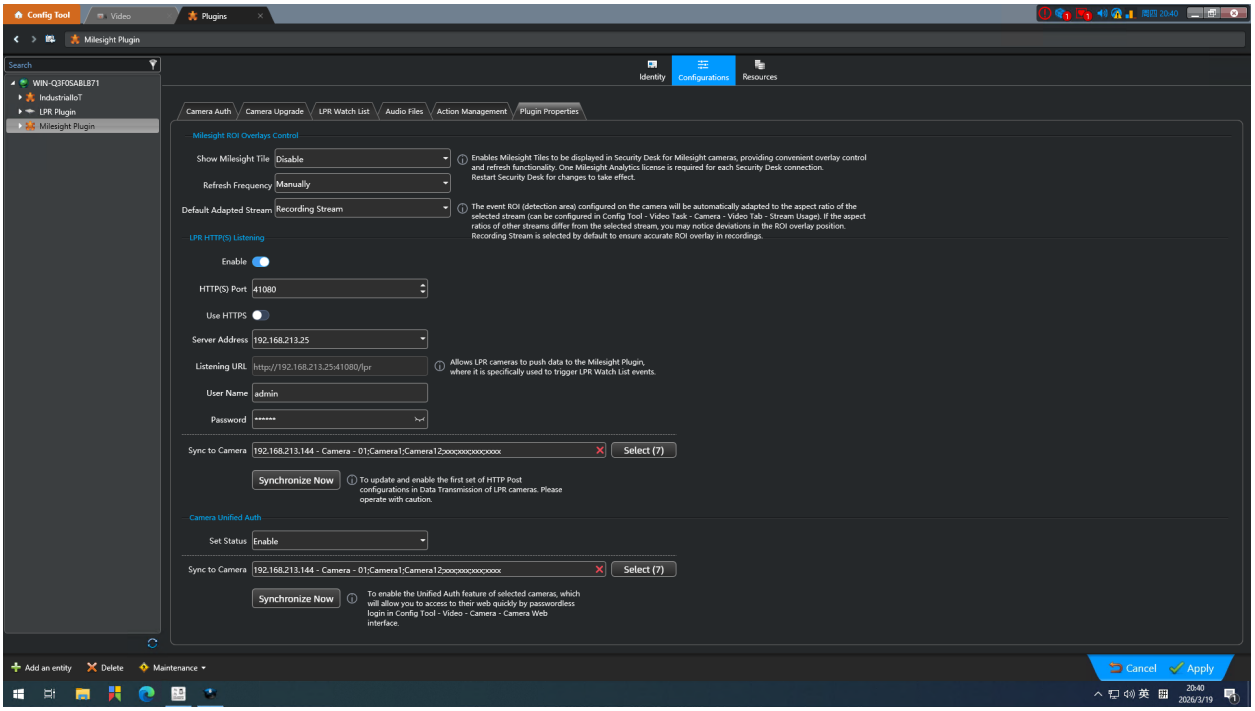
Step:

1. Firstly, switch to **Genetec Security Desk**.
2. Enter into the **Monitoring Interface**.
3. In the camera window or device tree, right-click a camera # find **Milesight Actions** # select the **Preset**.



5.7 Plugin Properties

This page is designed to configure some basic properties for the plugin.

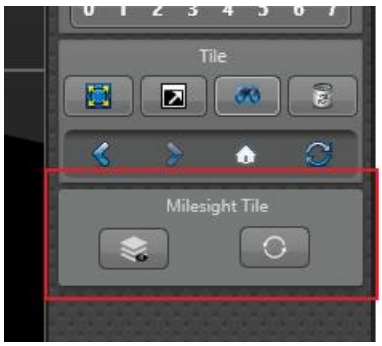


You can set functions like “Milesight ROI Overlay Control”, "LPR HTTP(S) Listening", “Camera Unified Auth” and “Text-to-speech Voice”, "Plugin Upgrade" and "Device Proxy" on this page.

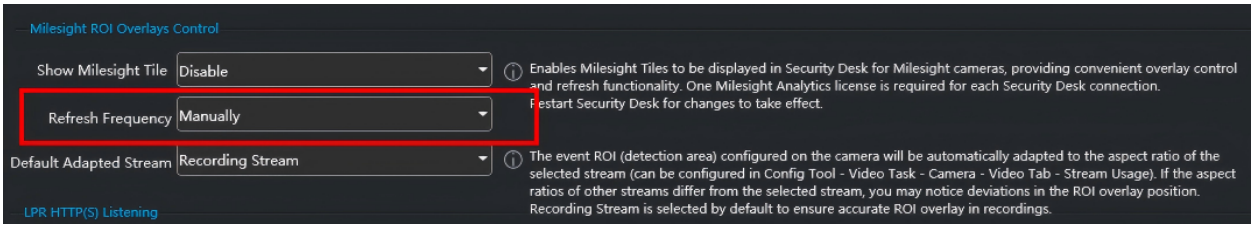
1. Milesight ROI Overlay Control

This property decides whether to display a Milesight Tile on the Security Desk video window, which provides one-click overlay control and refresh.

Once **Enabled** and if the system has enough Milesight Analytics Licenses, after Security Desk is restarted, every Milesight camera played in Security Desk will show a Milesight Tile on the right side of the video window.



You can define different refresh intervals on the field “Refresh Frequency”: Manually or Any Fixed interval



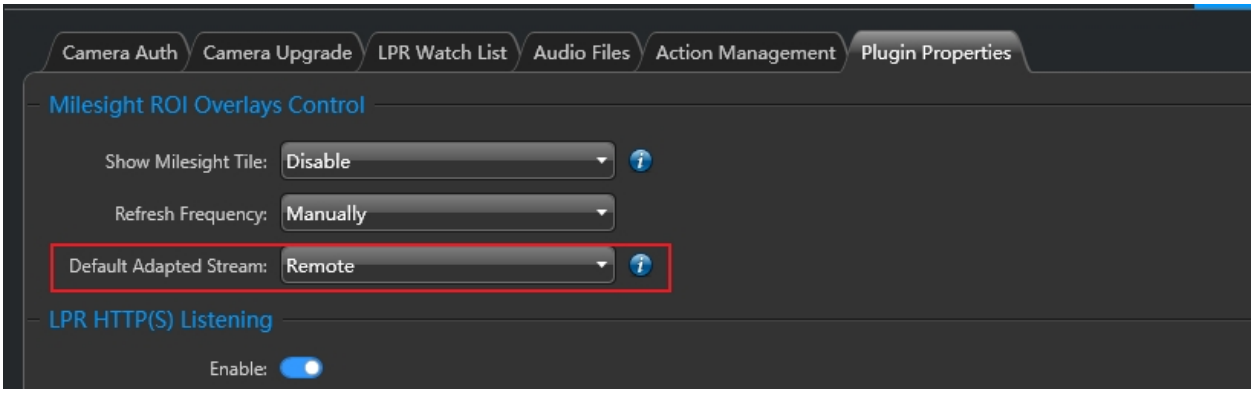
Manually:

The plugin will not proactively query the IPC for the latest event detection region. Users must click the Refresh button on the Tile, or choose the right-click menu Milesight ROI overlays control # Refresh.

Any Fixed Interval:

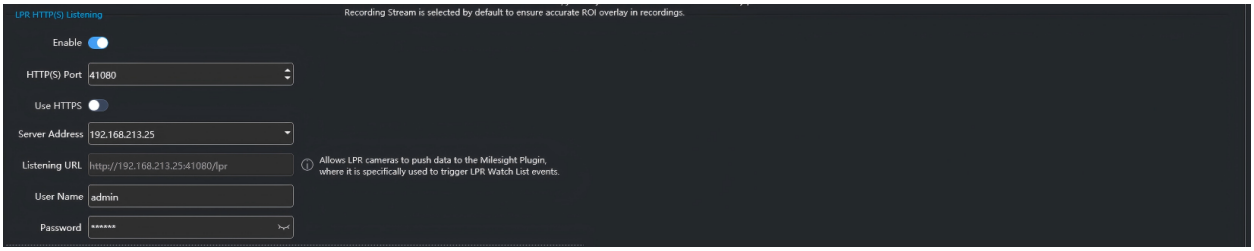
Counting starts when the server-side plugin starts running. After every interval, the plugin queries all Milesight cameras and updates the overlay on each Tile view.

You can define different video stream to display the ROI on the field “Default Adapted Stream”: Live Stream, Recording Stream, Remote, Low Resolution, High Resolution



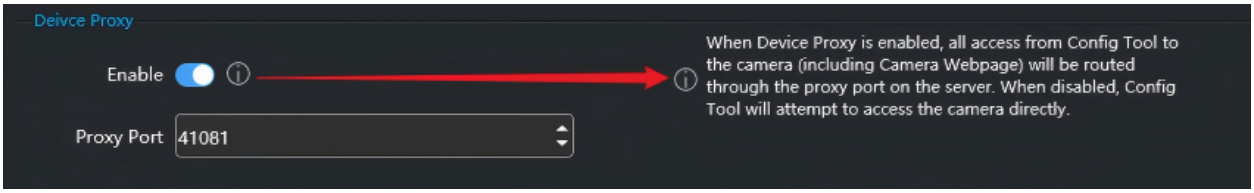
2. LPR HTTP(S) Listening

The plugin supports listening the HTTP data pushed from external devices. By setting this listening and synchronizing with cameras, the plugin will identify the LPR data sent by edge camera to check whether this data hits the custom watch list to ensure other actions on Genetec. By adding this Listening to plugin, the reliability of data would be largely increased. And these data could be cleaned on regular basis, please see 6.5.1.3 *(page 54)*.



3. Device Proxy

This function is used to prevent camera password exposure during Config Tool's direct web access. By enabling the device proxy, the Config Tool will access the camera's web interface through a proxy port on the server. Only when this proxy is enabled the password-free login would success.



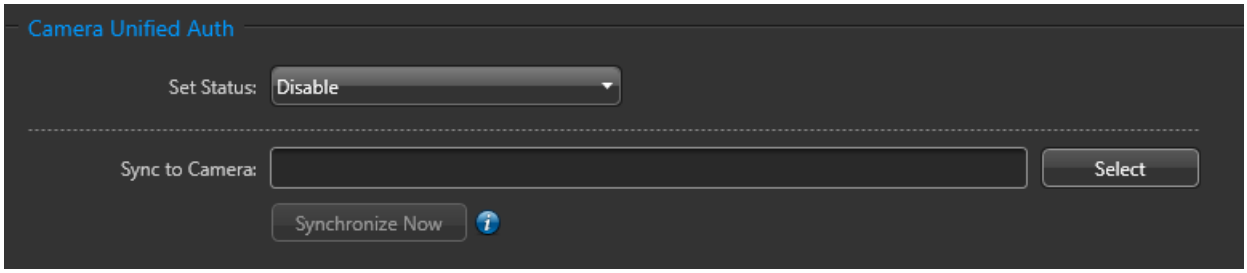
Note:

Only the users who have the Plugin Configuration access would be able to set the Proxy Port Number.

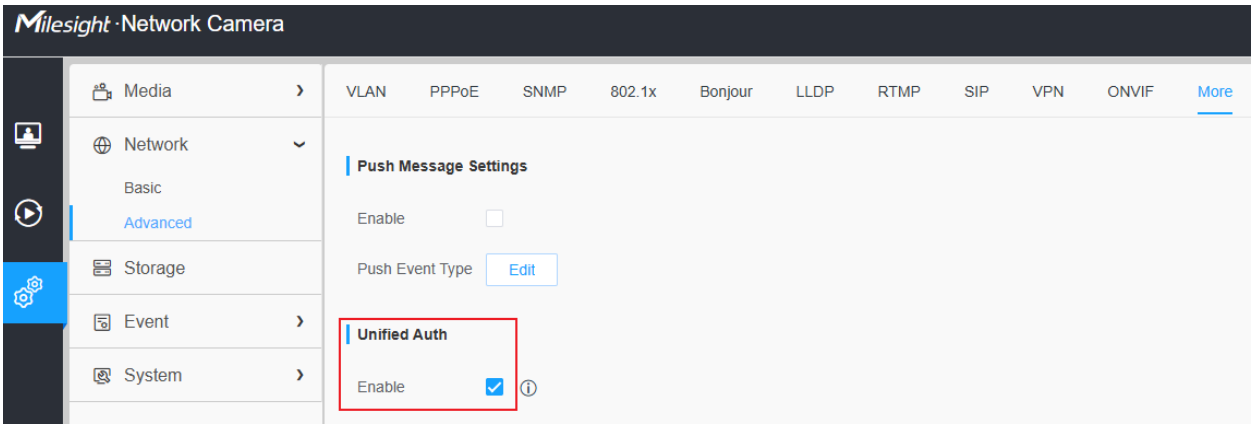
4. Configure Camera Unified Auth

This function is used to batch-enable the Unified Auth option on the selected cameras. When enabled, the plugin-embedded browser can remember the camera's login credentials, so the user does not have to type the password the next time.

Go to Genetec Config Tool, find Milesight Plugin and go to "Plugin Properties", find "Camera Unified Auth" and select the status of this option into "enable".

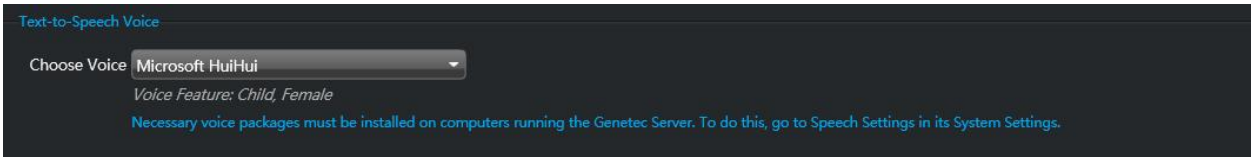


After this configuraion, users will find the Unified Auth option is also enabled on the edge camera.



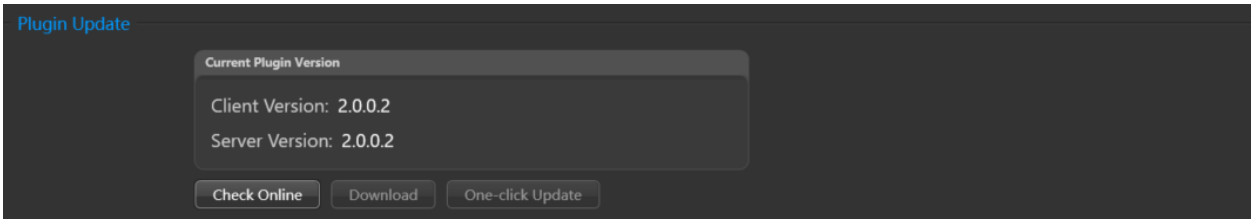
5. Configure Text-to-Speech Voice

This function is used to use Windows TTS (text-to-speech) to speak a text message to a Speaker. The text-to-speech function is implemented by the Genetec Server-side plugin, so the voice packages must be installed on the machine running the Genetec Server.



6. Plugin Update

Users could check the plugin version and upgrade the plugin into the latest version.



If the plugin is upgraded on the current computer, click "Check Online" to check the latest version and click "One-click Upgrade" to upgrade the plugin into the latest version.

If other computers downloaded Genetec and also needs to upgrade Milesight Plugin, click "Check Online" to check the latest version, click "Download" to download the installer and then move this installer to other computers for upgrade.

5.8 Overlay Detection Region on Monitoring Page

This feature lets you visualize the detection regions and lines configured on a Milesight camera (VCA, People Counting, Counting, Face Detection/Capture, LPR, etc.) on the "Monitoring" page on Security Desk. You can enable/disable the overlay and refresh it when the camera's configuration has changed.

Ways to Enable and Control Overlay:

There are three ways to enable the overlay:

- **Two methods** to ensure all events ROI activation or removal.
- **One method** to control specific event ROI display.

1. Method for Overall Event ROI Management

- **Method 1:** Via Milesight Tile

- **Method 2:** Via Milesight plugin setting in the right-click menu

2. Method for One Specific Event ROI Management

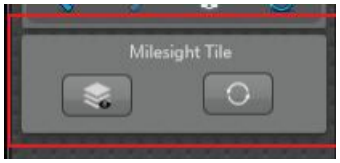
Via Genetec native settings options in the right-click menu.

This method could only be accessible after the overall event ROI display has been enabled through method 1 or method 2.

1. Method for Overall Event ROI Management

Method 1: Via Milesight Tile.

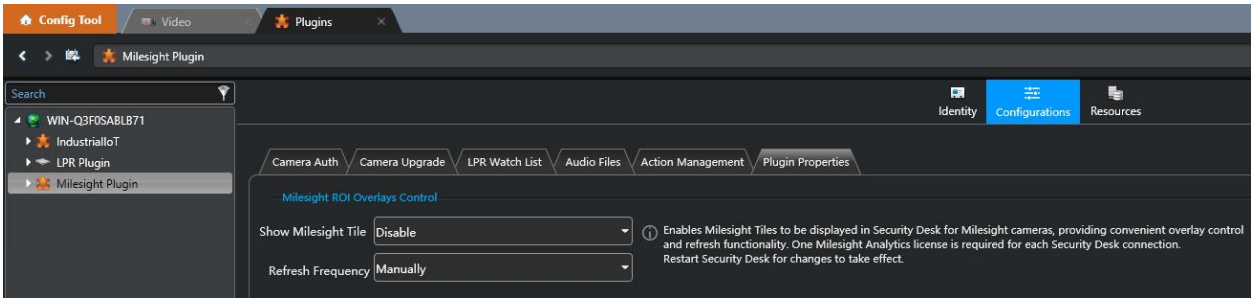
You can activate the overall event ROI overlay through Milesight Tile. This part is on the right-side control panel on the Monitoring of Security Desk. It contains two buttons: a “Show event ROI/Remove Event ROI” button and a refresh button.



Icon	Name	Meaning
	Show event ROI/ Remove Event ROI	Used to enable or disable the all events ROI overlay display. This icon is off by default.
	Refresh ROI	Click effect- re-fetches the latest drawn-and-enabled regions/ lines from the camera and updates the overlay accordingly. Affects only the selected video tile.

Note:

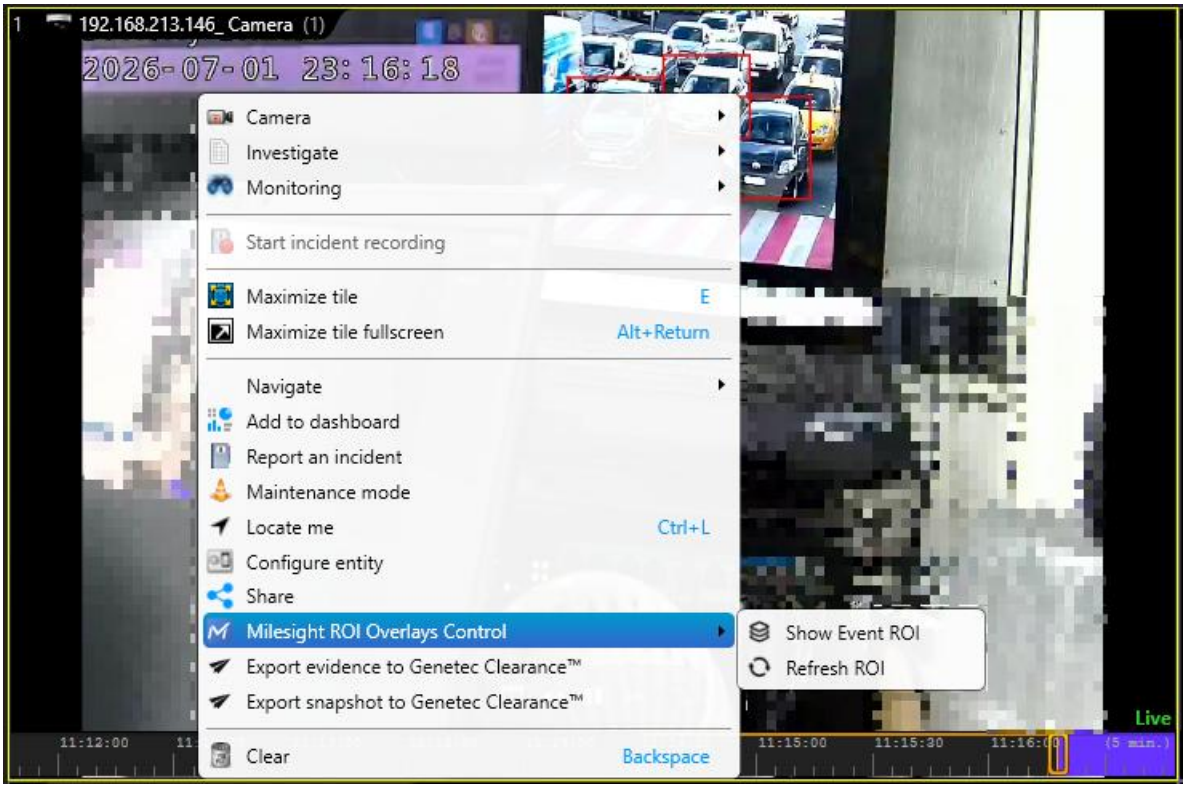
1. The section "Milesight Tile" needs to be enabled on the page "Plugin Properties"; otherwise, this section will not be displayed by default.



2. Please be kindly noted that Milesight Tile will consume Milesight Analytics License.

Method 2:

If you don't want to use your Milesight Analytics License, you can activate the ROI through "Milesight ROI Overlays control" plugin setting in the right-click menu on the Monitoring on Security Desk.

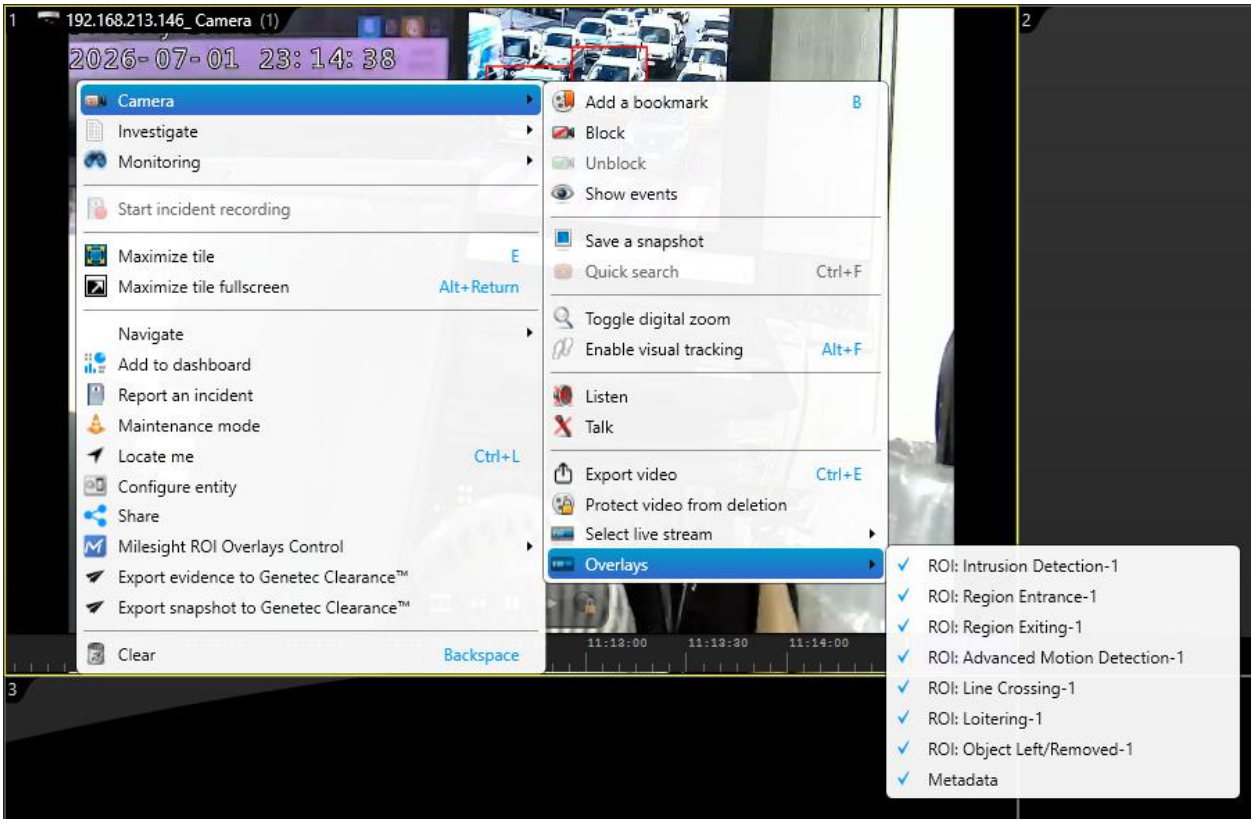


This function offers the same action as the Milesight Tile on Method 1, that is “Show Event ROI” and “Refresh ROI”, useful when the Tile is not displayed and disabled. (Notes: the Milesight Tile consumes a Milesight Analytics License per Security Desk client).

But please be noted that this item will only be found when you right-click on a video tile in Security Desk. It is not shown in Config Tool, and not shown on the device tree.

2. Method for one specific event ROI management:

After enabling overall Event ROI management, if you want to manage the ROI overlay for one single event, you can achieve it via Genetec native overlay settings options in the right-click menu.

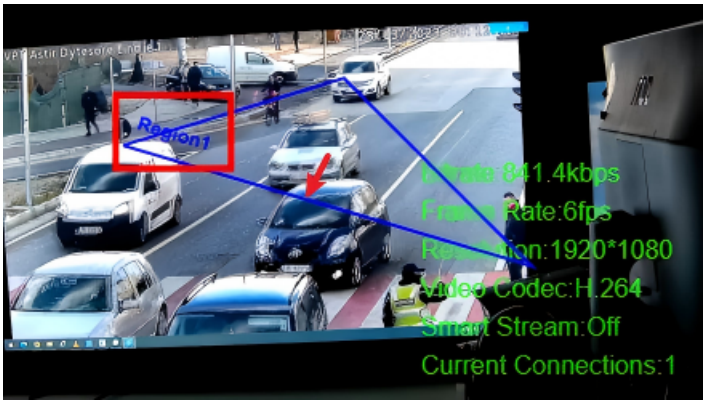


Step:

Right-click on a camera window on Monitoring on Security Desk # Click "Camera" # Click "Overlay" # Click a ROI: <Feature Name>

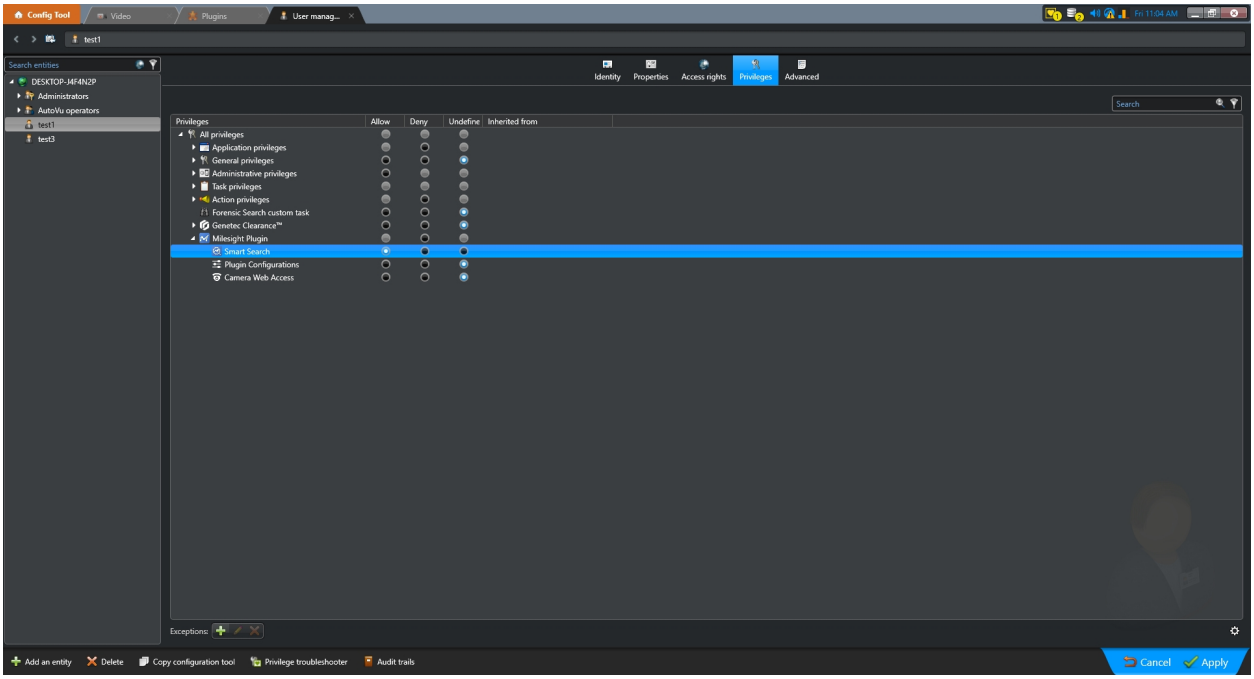
Note:

1. The number of regions/lines shown matches what was configured on the camera (1 region = 1 overlay, 4 regions = 4 overlays, ...).
2. Different cameras have different ROI Options according to their AI Capabilities.
3. Visibility of overlays in the video also depends on the Show event ROI/Remove Event ROI (Methods 2 / 3). If the "Show event ROI/Remove Event ROI" is OFF, the overlay will not show even if this sub-item is ticked.
4. The Line and ROI name/mark would be simultaneously displayed on the screen.


Region1
Frame Rate:6fps
Video Codec:H.264
Smart Stream:Off
Current Connections:1

Chapter 6. Plugin Privileges

Genetec Security Center has a built-in user privilege system that controls who can do what on the system. The Milesight Plugin extends this system by adding a top-level Milesight Plugin node and three sub-privileges, so that administrators can precisely grant or deny access to the plugin's features.



[Find the Plugin Privilege Node]

Genetec Config Tool # User Management Privilege # Apiuser

In the privilege configuration panel, scroll to the very bottom. A new top-level node Milesight Plugin is added at the bottom of the existing privileges list.

Each privilege can be set to Allow, Deny, Undefined, or left to be Inherited from a parent role.

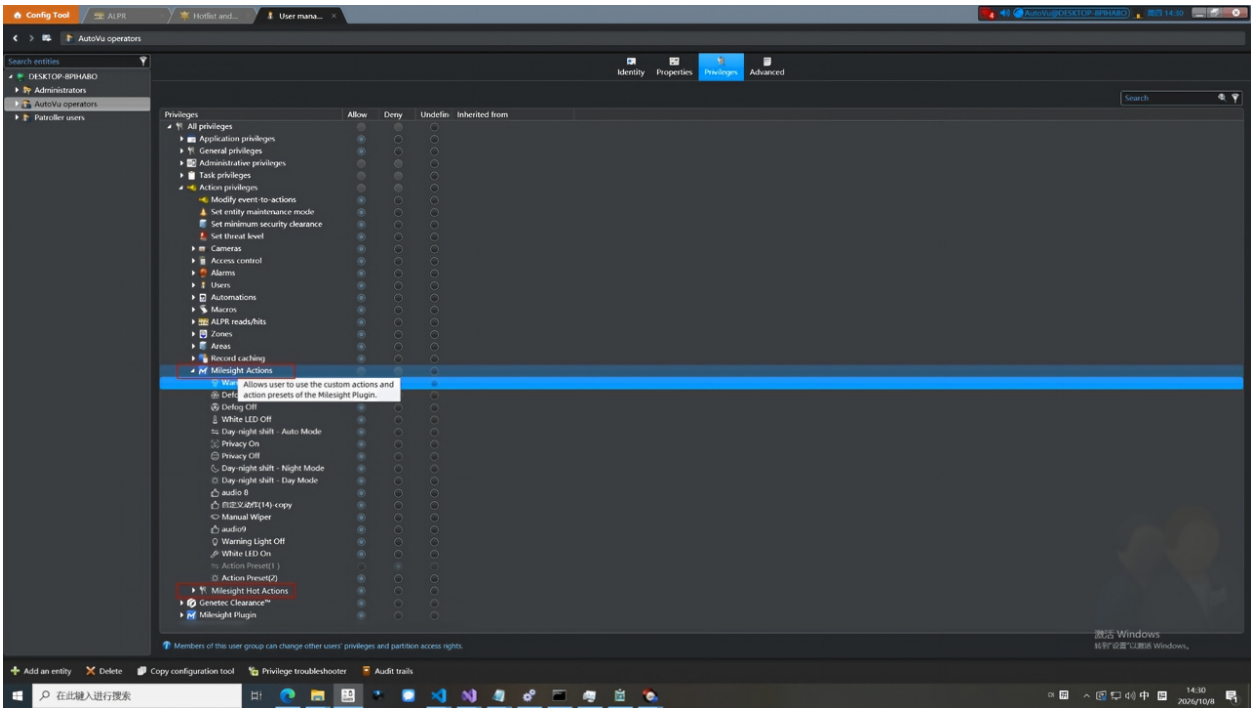
The definition for these three sub-privileges are as follow:

Sub-privilege	Accessibility
Smart Search	Allows users to search for people and vehicle metadata from Milesight Cameras within the Security Desk.
Plugin Configurations	Allows users to modify the Milesight Plugin configurations in the Plugin Task of the Config Tool.

Sub-privilege	Accessibility
Camera Web Access	Allows users to access the camera webpage in the Video Task of the Config Tool.

If the Admin Users would like to allocate the Milesight Action Setting to other operators, they could go to the "Action privileges" and find the sub-privilege "Milesight Actions" to select specific actions and grant them to the operator accounts.

If the Admin Users would like to allow the regular operators have the access of "Hot Action" shortcut, which is designed for quickly enabling an action on Genetec's Security Desk, they could go to the "Action privileges" and find the sub-privilege "Milesight Hot Actions" to select specific actions and grant them to the operator accounts.

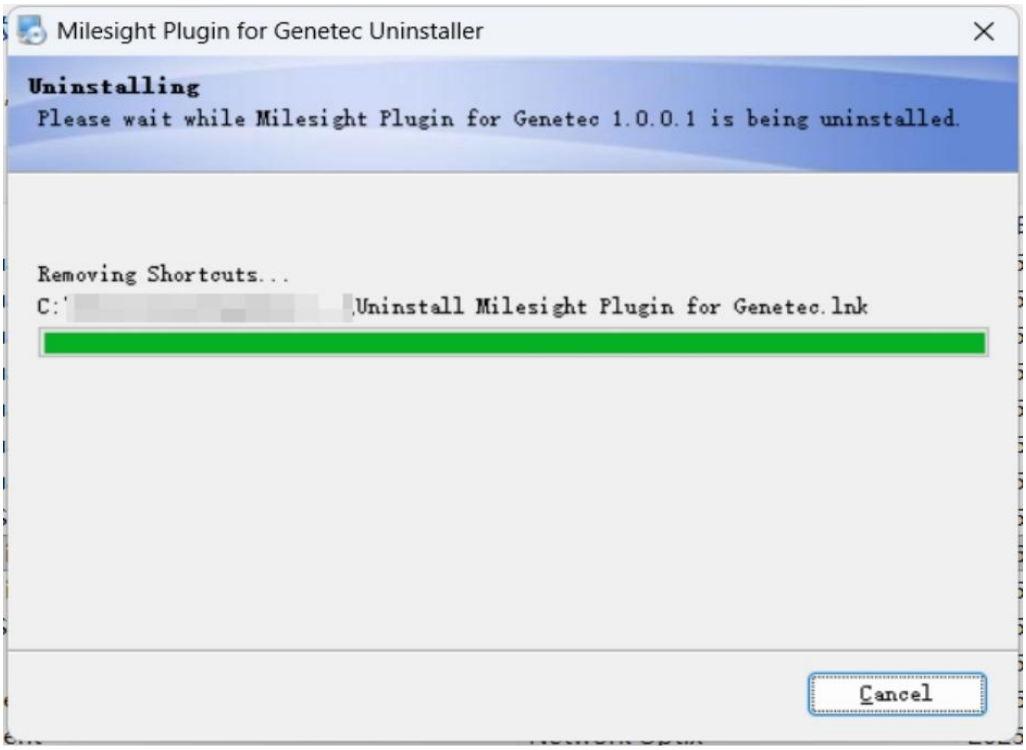


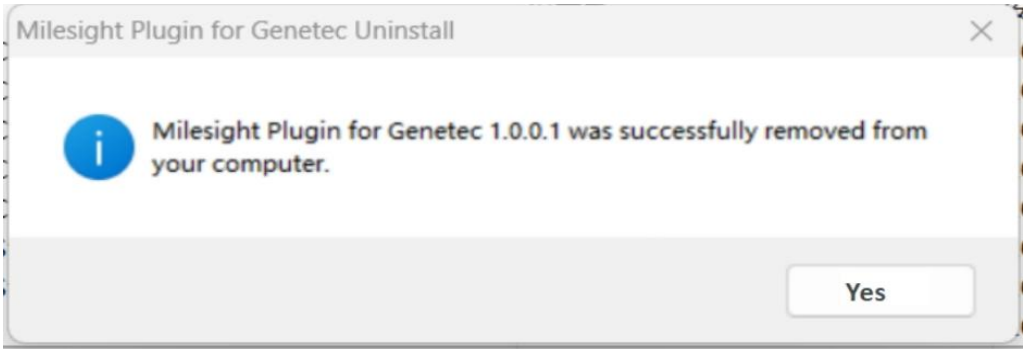
Chapter 7. Uninstall

Uninstall Milesight Plugin

[Windows]

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





Chapter 8. Services

Technical Support

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.

Contact Information:

- **Technical Support Mailbox:** support@milesight.com
- **Web:** https://www.milesight.com

Milesight China

- **TEL:** +86-592-5922772
- **Add:** Building C09, Software Park Phase III, Xiamen 361024, Fujian, China