



Installation and Operating Guide

Milesight Plugin for Genetec

Version: V1.0.0.1

Date: 2026-03-03

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Chapter 1. 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.

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.

1.1 System Requirement

[Supported Genetec VMS System Version]

Genetec Security Center v 5.12.0.0 or above.

[Supported Operating Systems]

Windows: 10, 11

[Supported Functionalities]

You can get the detailed information from this link: [Genetec Compatibility Flyer](#).

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

 **Note:**

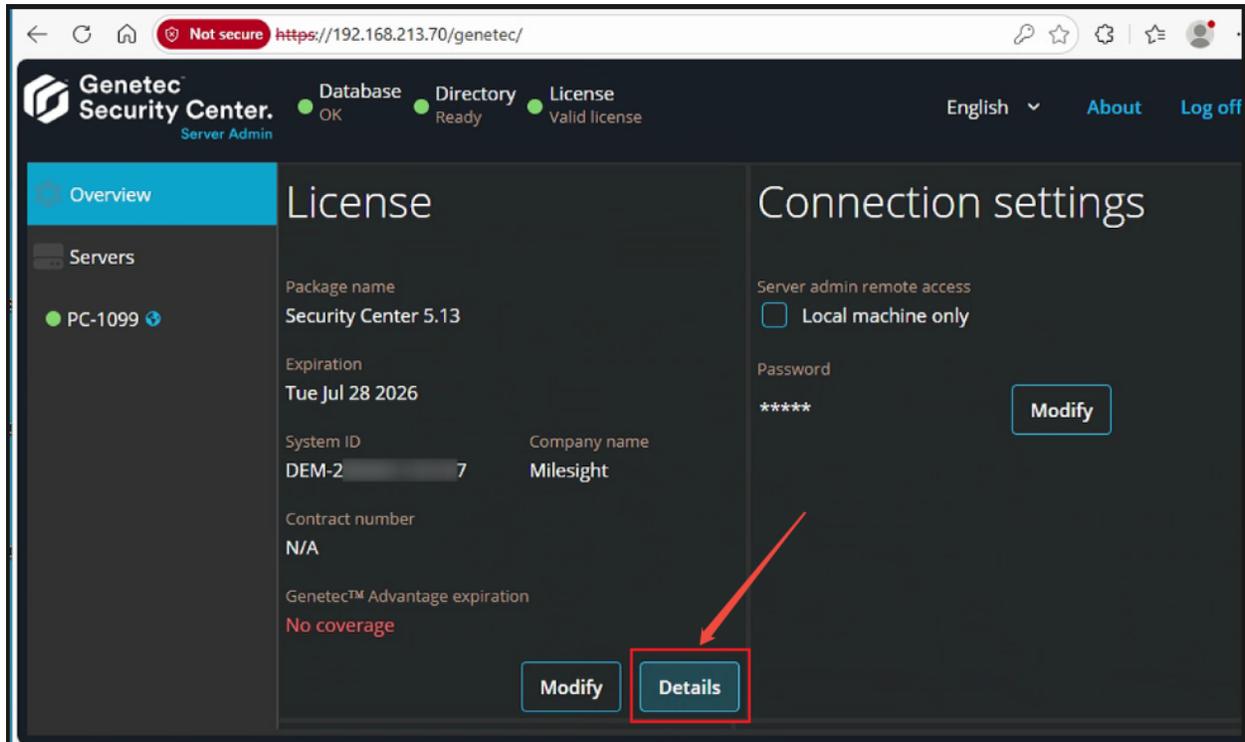
The Milesight Plugin is one (1) SDK CONNECTION per SYSTEM ID, which means the quantity to be applied for per system is 1. The diagram below is for reference only.

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-1SDK-MILESIGHT-ANALYTICS	One (1) Genetec SDK connection for Milesight China with Video Analytics	1
GSC-Om-E-1C	1 camera connection	10

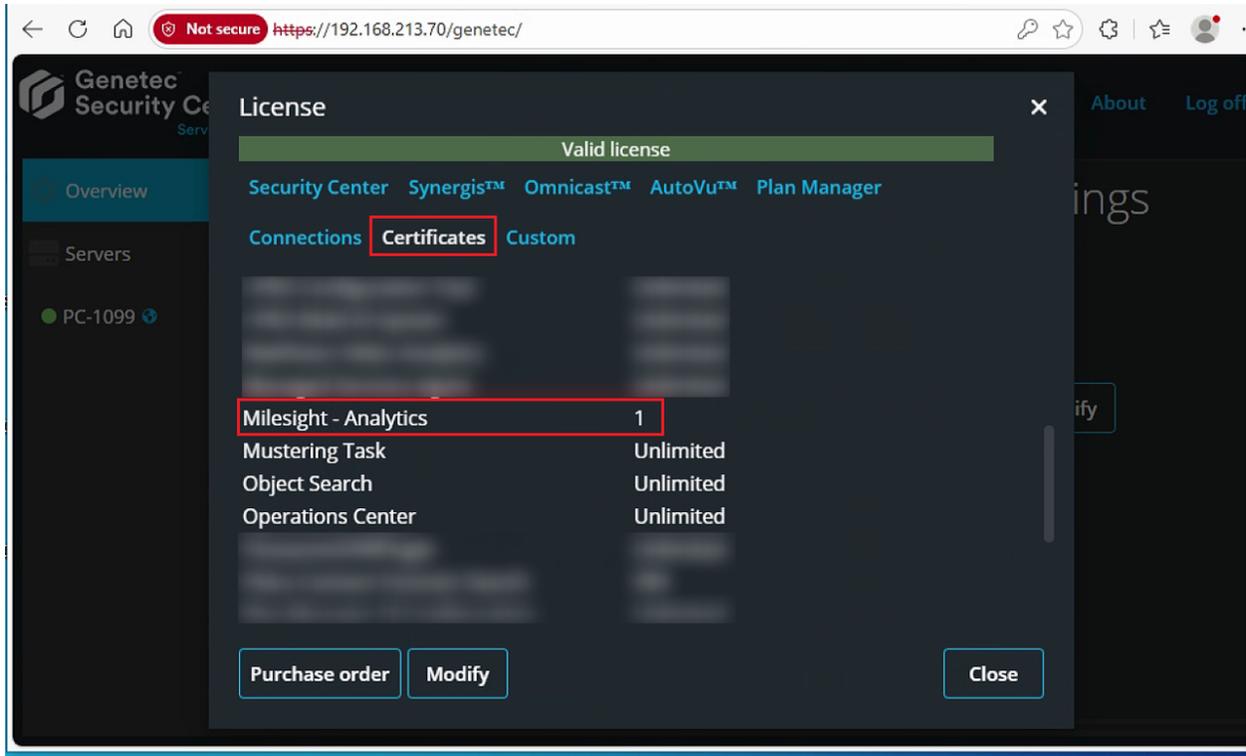
1.3 License Verification

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 (https://server_ip/Genetec) and open the License Details.

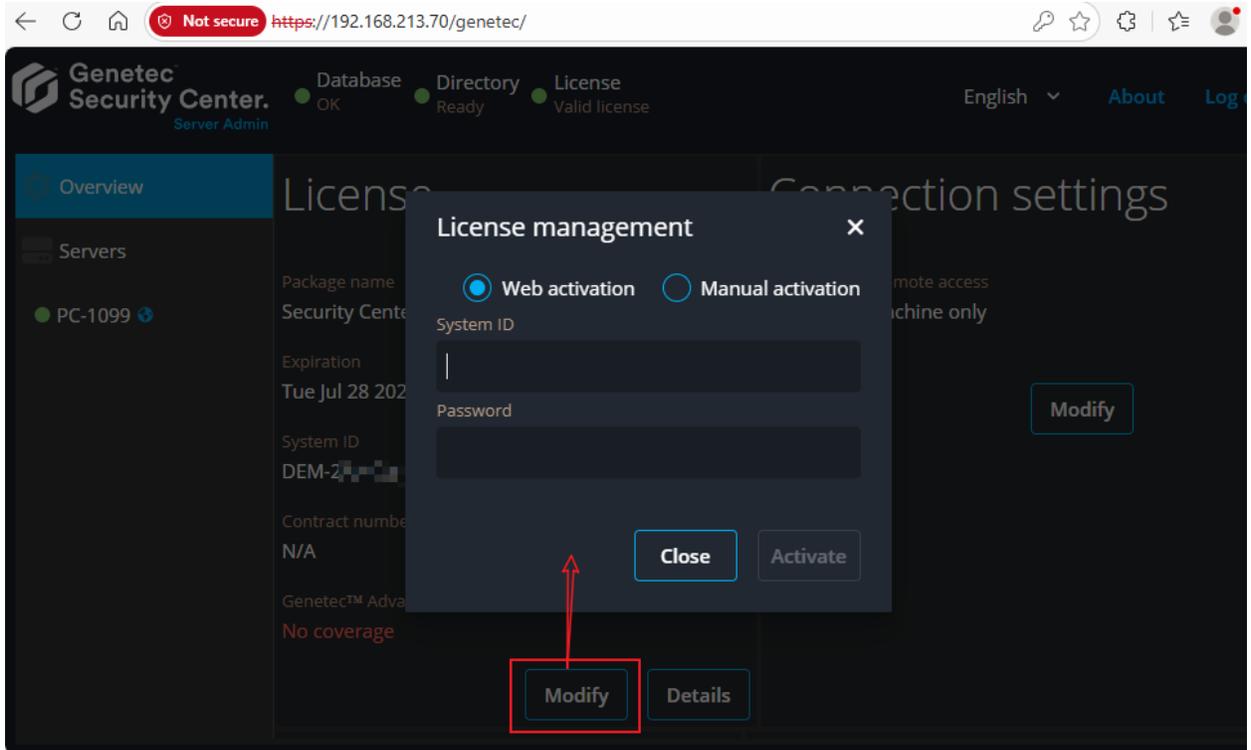


Step 2: Click the **Certificates** tab. If "Milesight Analytics" is included, the system supports running the Milesight Plugin.



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 [Section 1.2 Part Number \(page 3\)](#)), 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 2. Installations

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.

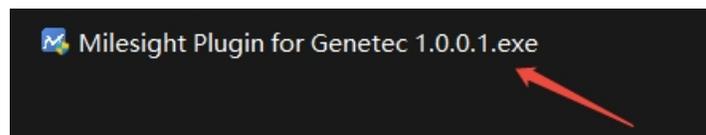
https://image.milesight.com/VMS/partner_system/Genetec/Plugin/Milesight%20Plugin%20for%20Genetec%201.0.0.1.zip

Note:

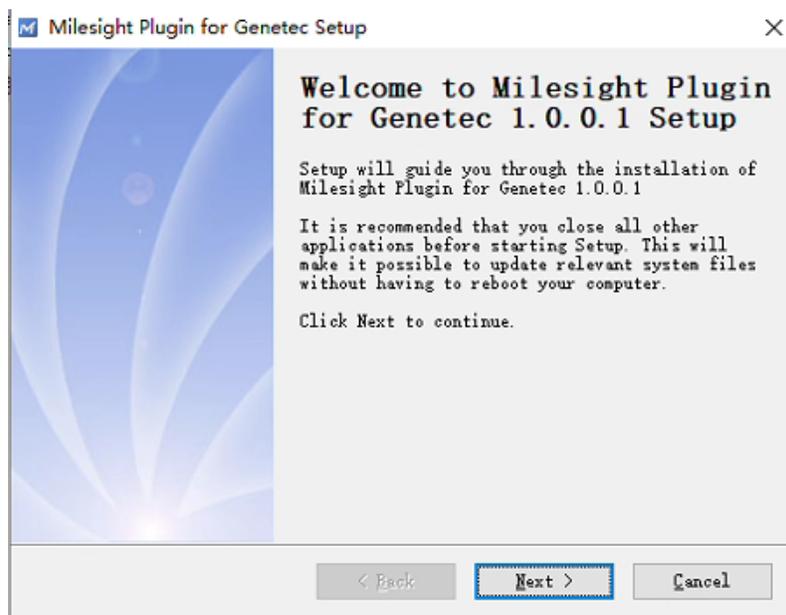
Part Numbers are linked to company information; thus, the neutral version is temporarily unavailable for external distribution.

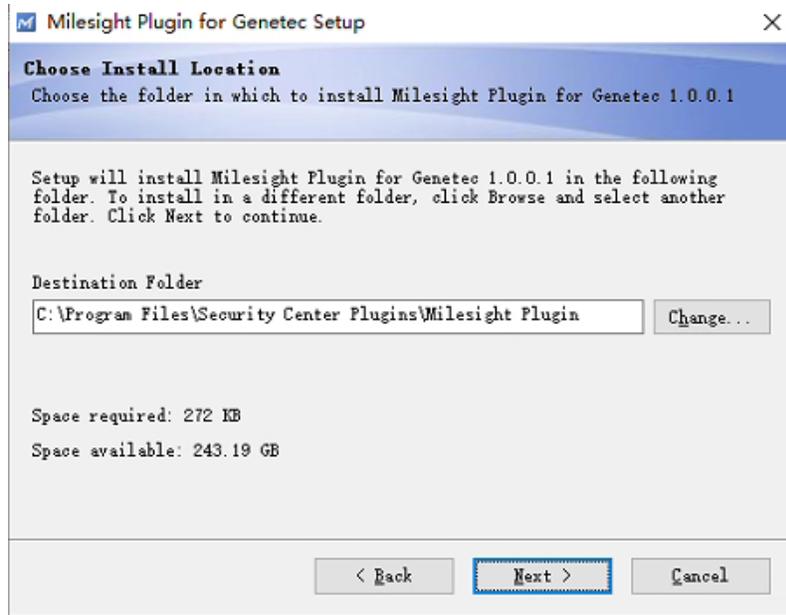
2.1 *Windows Installation*

Step 1: Click `Milesight Plugin for Genetec 1.0.0.1`.

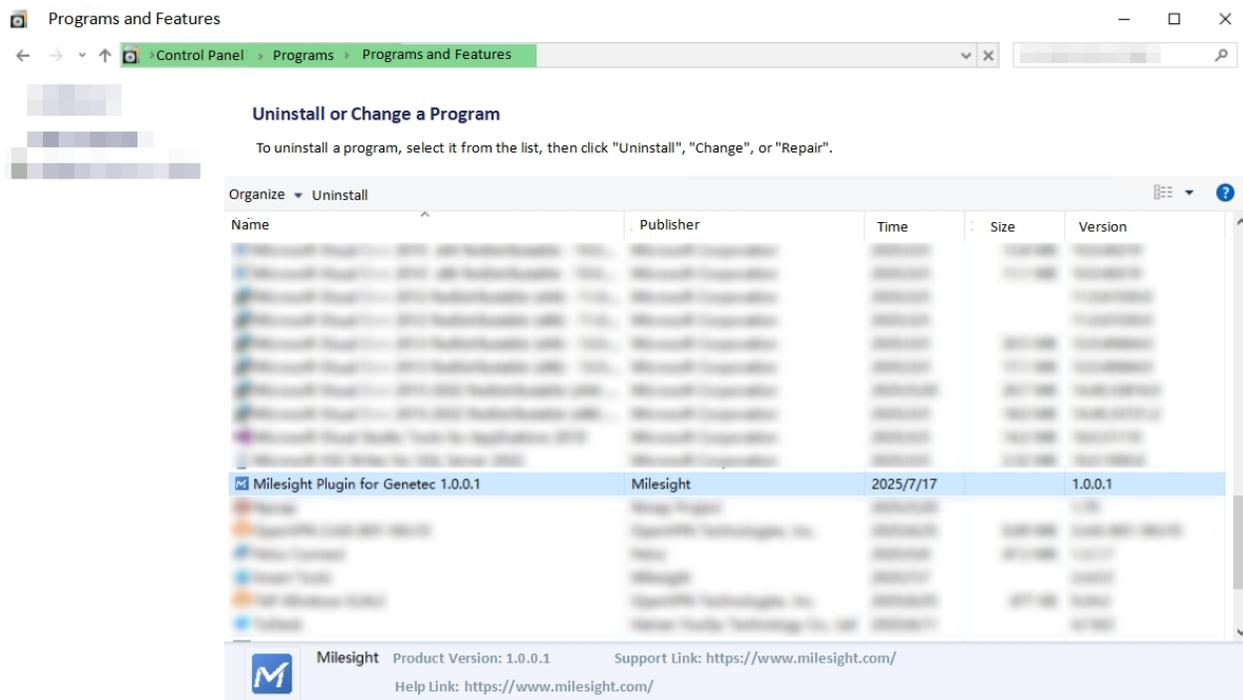


Step 2: Click "Next" and follow the on-screen instructions to install.





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.



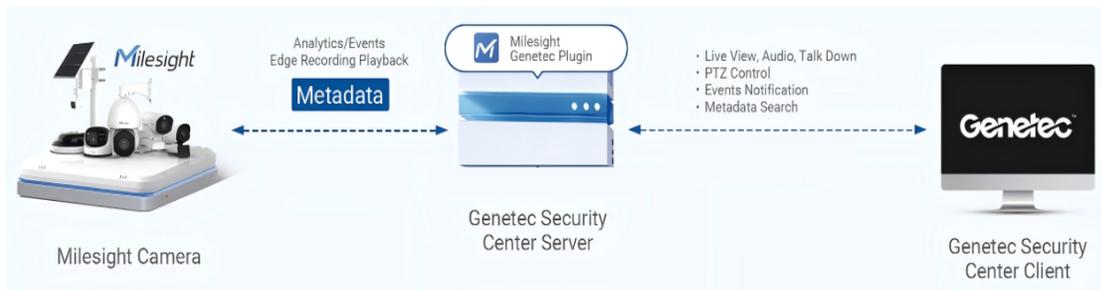
Note: If the Genetec VMS Server and Client are not running on the same computer, the plugin needs to be installed on both.

- 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 3. Configuration Workflow

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:



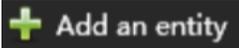
Genetec Security Center provides two client applications:

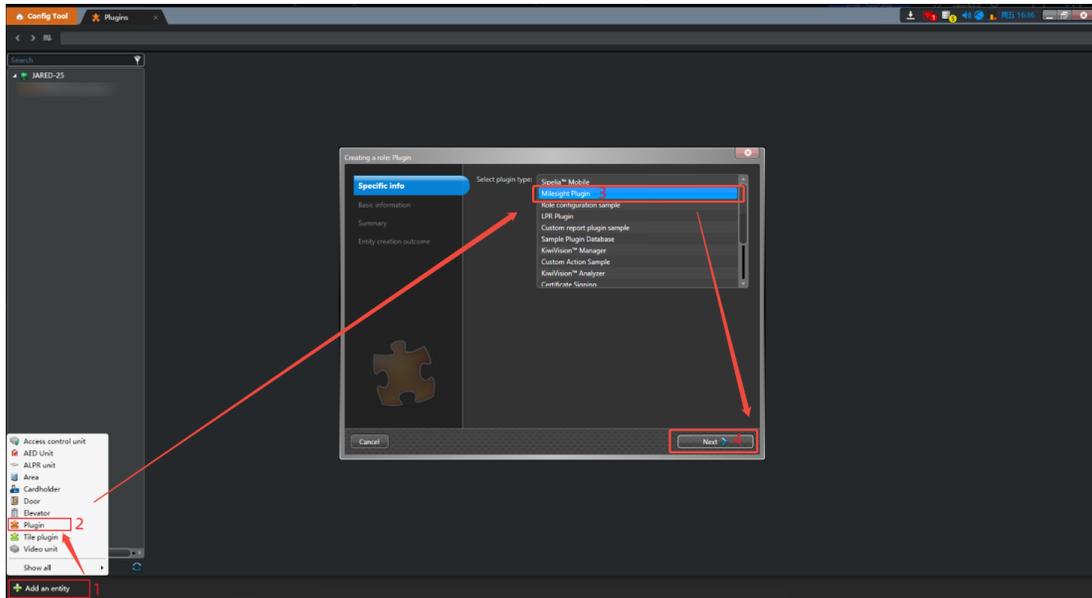
- **Config Tool:** Used for Server and System configuration (Administration Client), such as device addition/removal, user management, and other administrative tasks.
- **Security Desk:** Designed for end users to view live and recorded video, and to perform data searches within specific modules.

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.

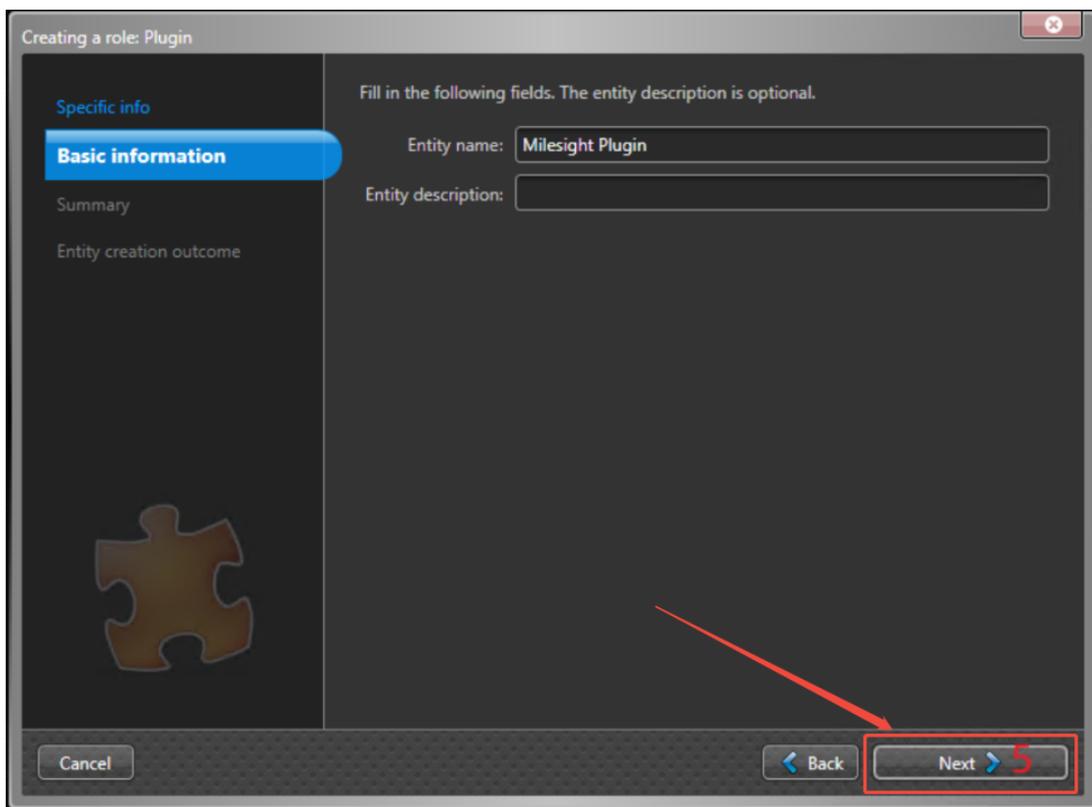
3.1 Add Plugin in Config Tool

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

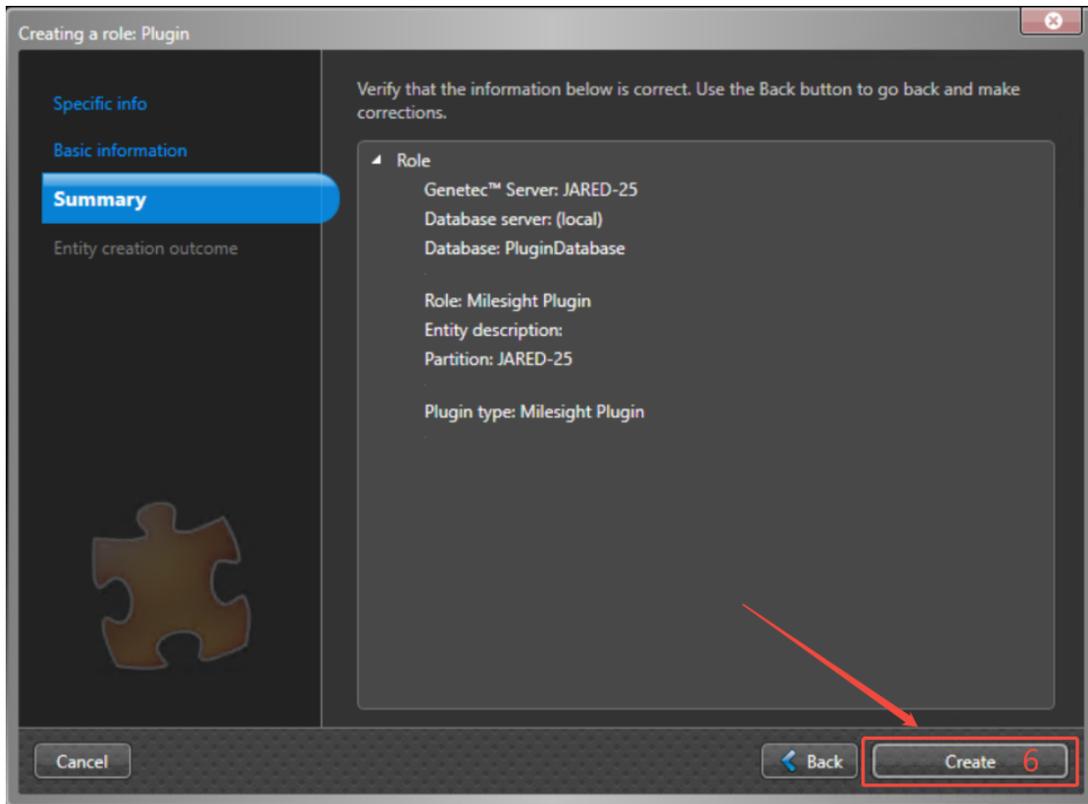
Step 1: In the bottom left corner of the interface, click  and select "Plugin". In the pop-up window, choose "Milesight Plugin" as the plugin type, then click "Next".



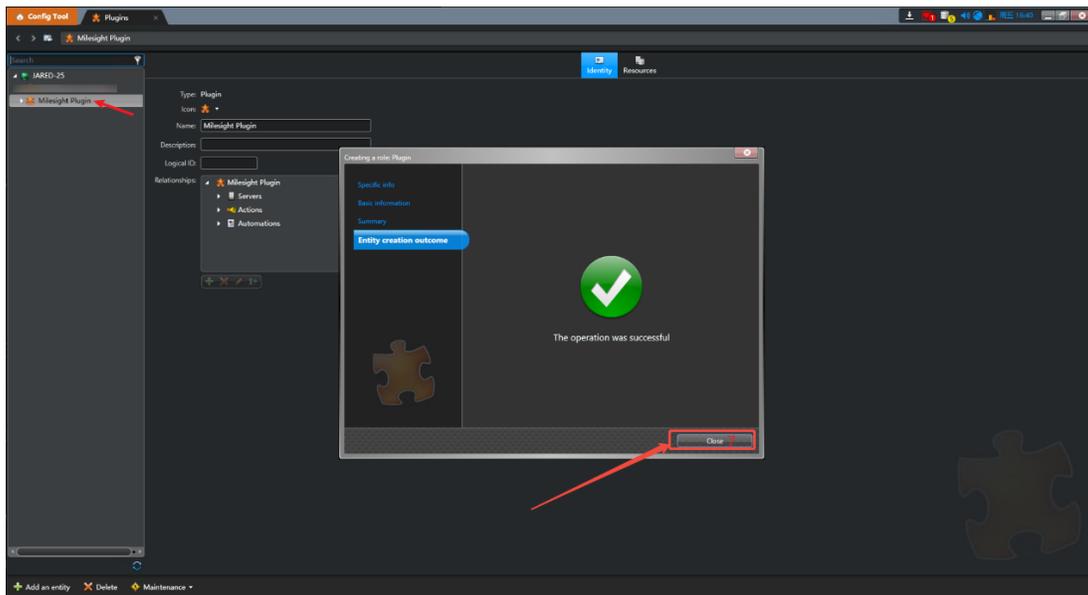
Step 2: On the **Basic Information** page, you can modify the entity's name and description if needed, then click "Next".



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



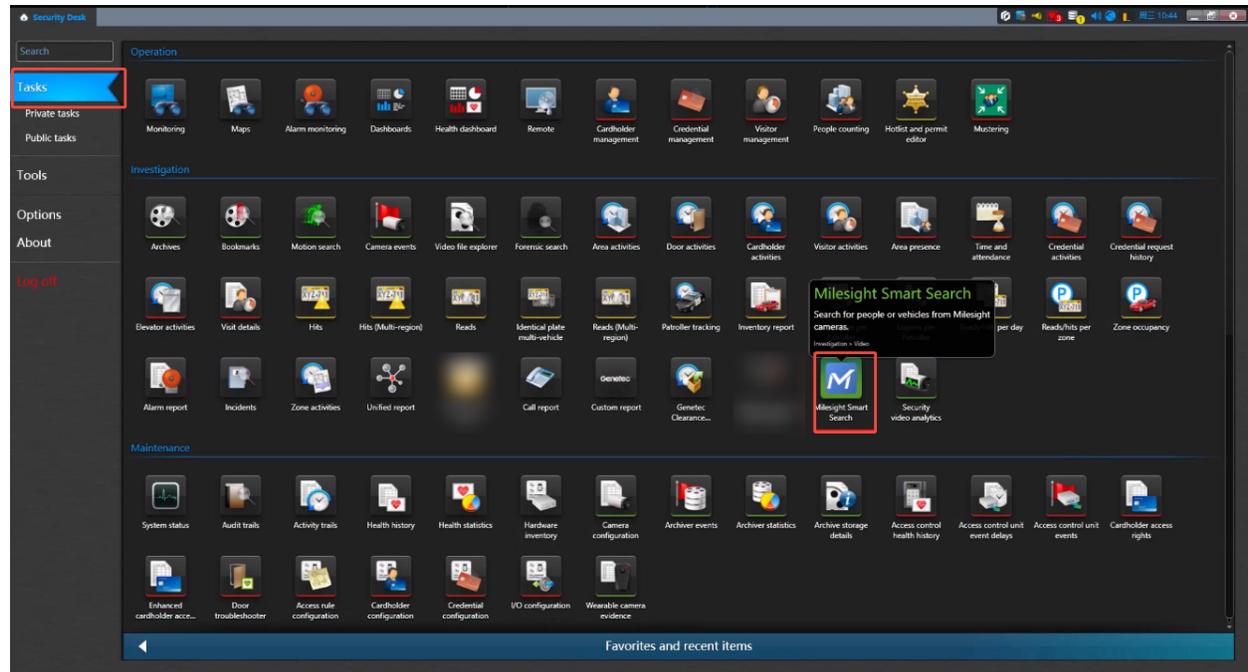
Step 4: After successful creation, you will see **Milesight Plugin** listed in the left sidebar. Finally, click "**Close**" to exit the creation window and complete the process.



3.2 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.

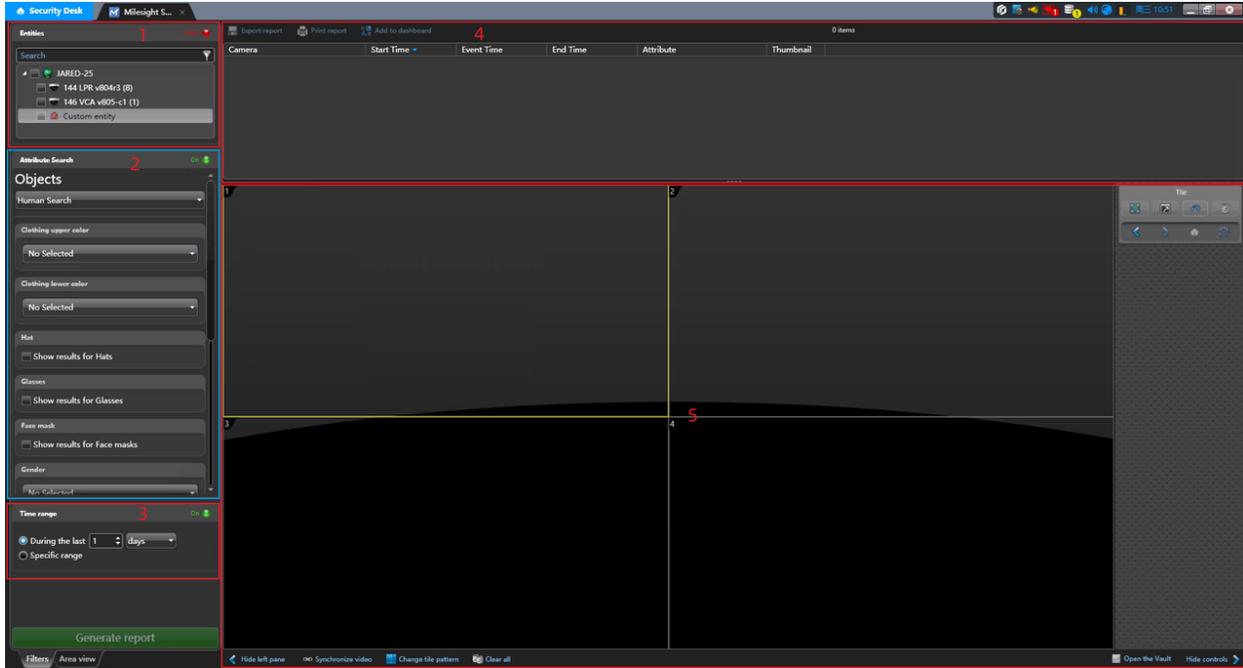
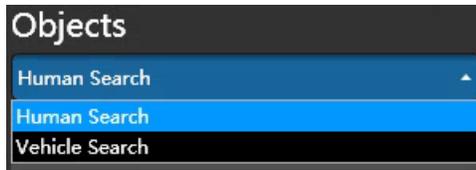


Table 1. Description of Sections

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 Generate report 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:

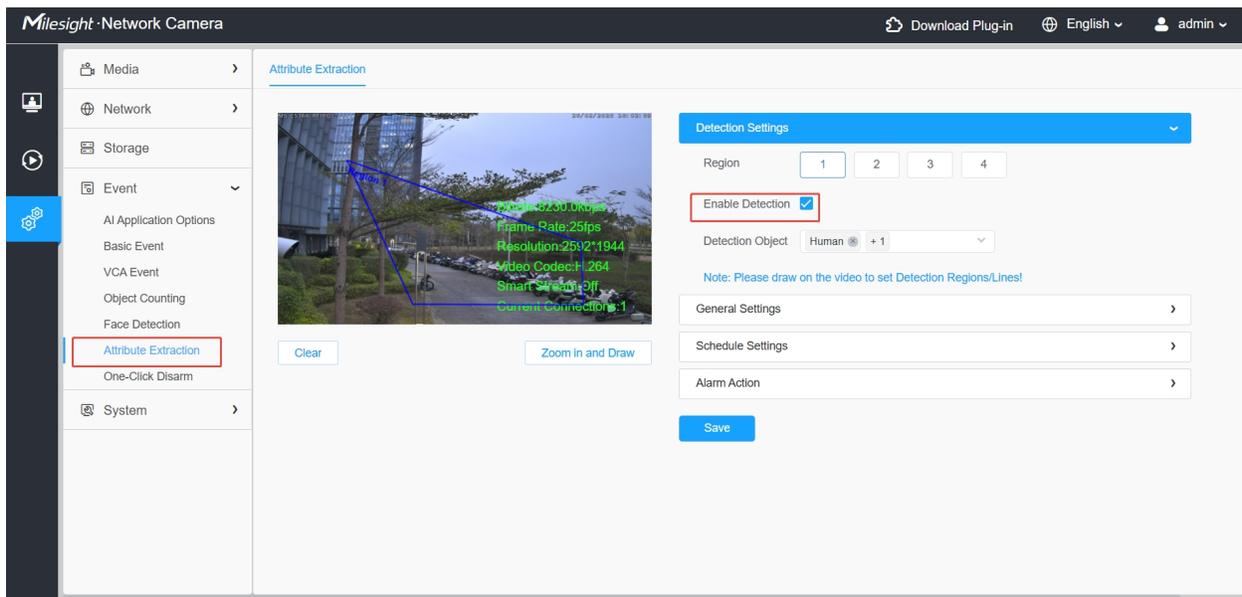


3.3 Configure Object Attribute Recognition

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**.

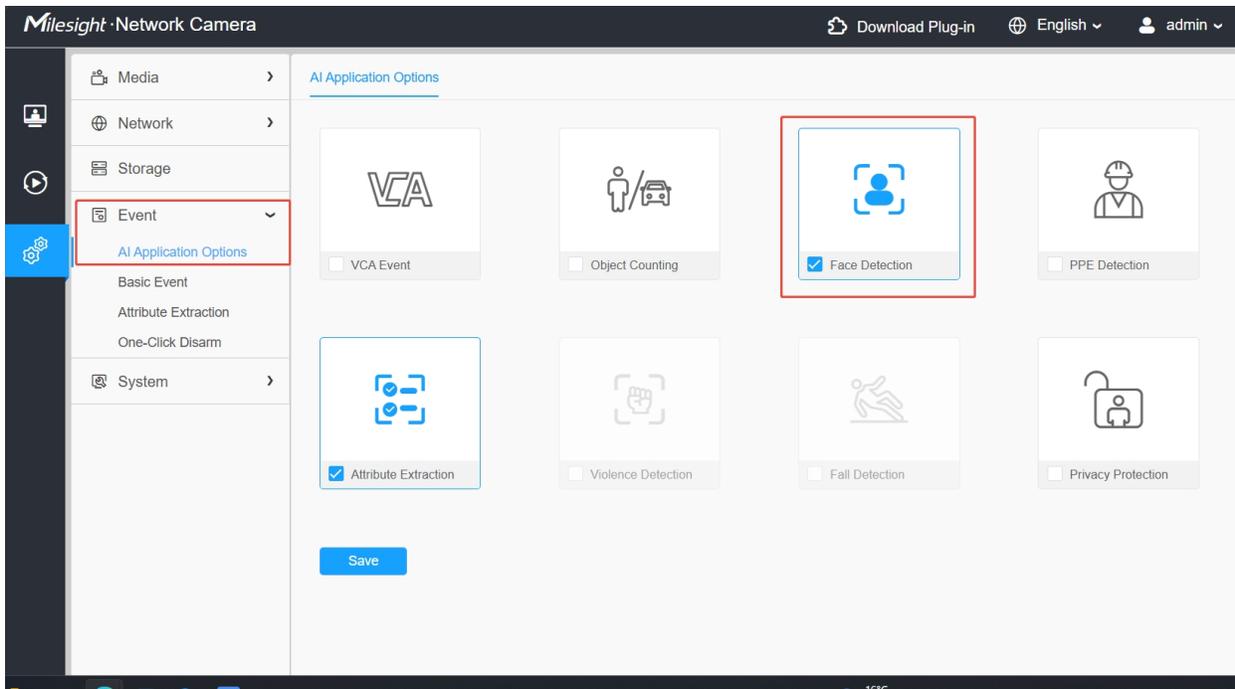


Note:

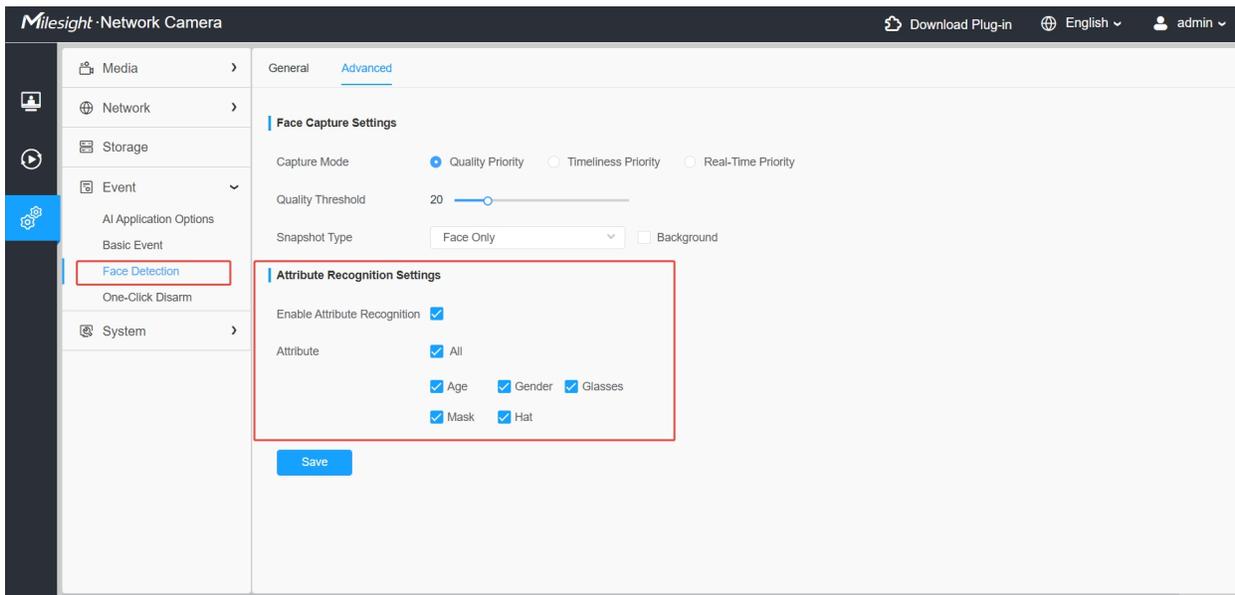
Milesight Video Surveillance Series with **Attribute Extraction** enabled can recognize Human objects (attributes include Hat, Upper Clothing Color, Lower Clothing Color) and Vehicle objects.

Step 2: Enable **Face Detection**.

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



Then, click on **Face Detection** to configure attribute recognition settings.

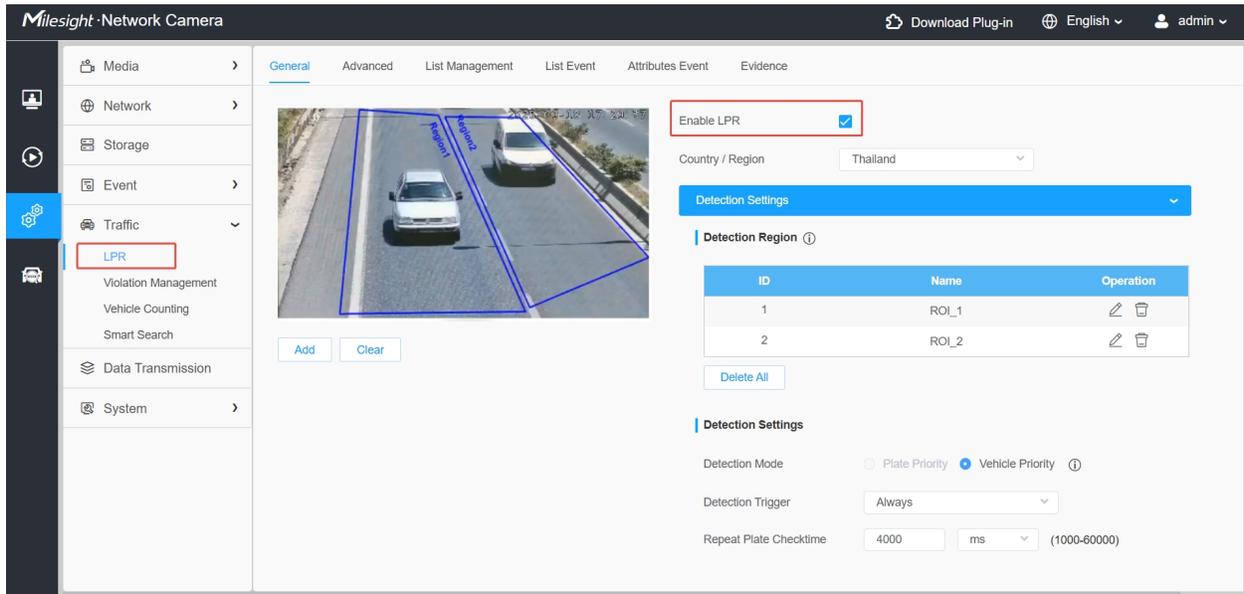


Note:

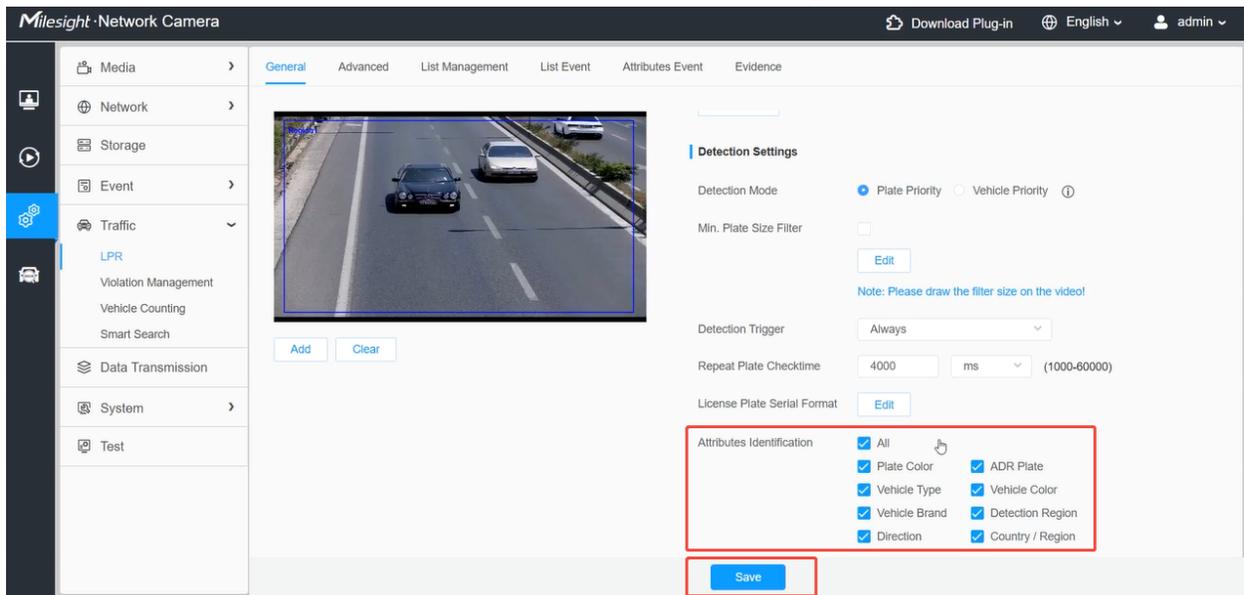
Milesight Video Surveillance Series with **Face Detection** enabled and Attribute selected support Face-related attributes for Human objects (including Age, Gender, Glasses, Mask, Hat).

Intelligent Traffic Series

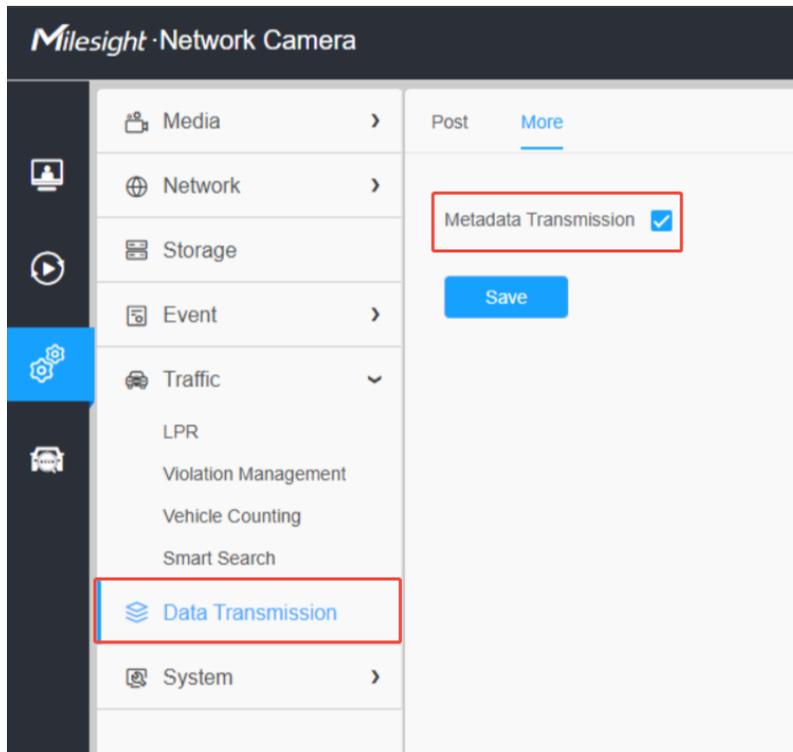
Step 1: Visit the web page of the camera and enable LPR detection.



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



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.

3.4 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.)

3.5 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 purpose of this configuration is:

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.

3.6 Viewing the Detection Results

Searching for Detection Results

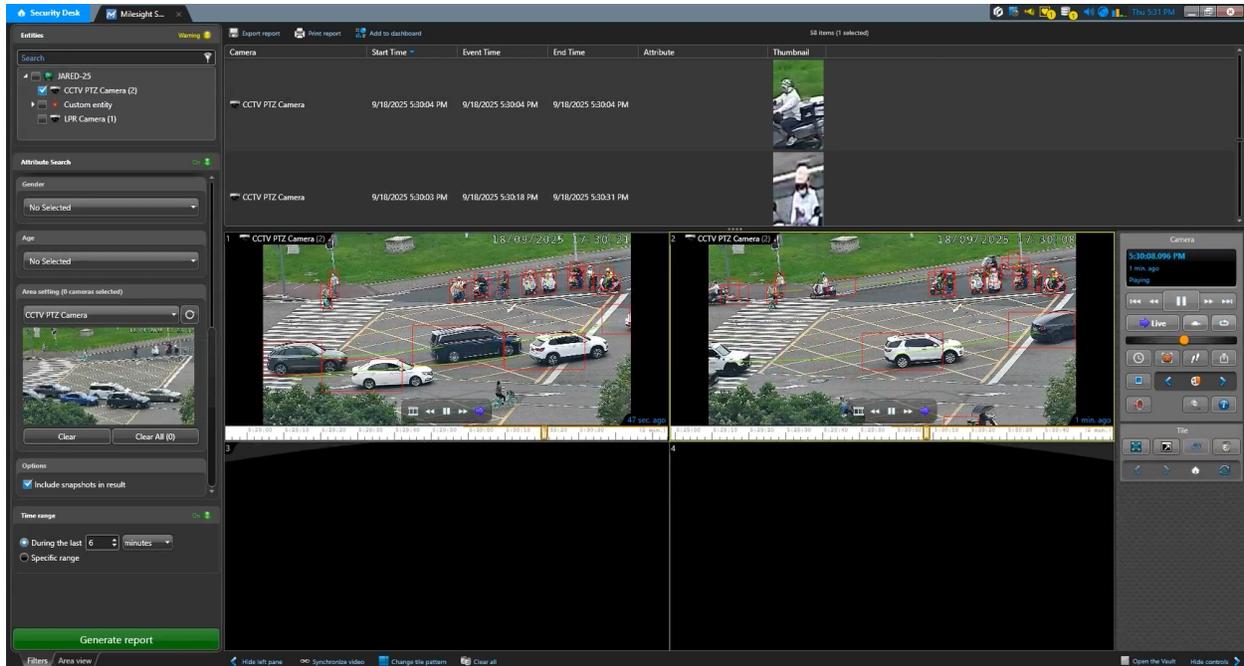
The method for searching detection results is the same for both Milesight Video Surveillance and Milesight Intelligent Traffic cameras. In this section, Milesight Video Surveillance cameras are used as an example.

Steps are as follows:

Select the camera and time period from the **"Time Range"** section at the left side of the interface, then click **Generate report** to retrieve the relevant detection results.

The screenshot displays the Milesight Video Surveillance interface. On the left, the 'Entities' panel shows a tree view with 'JARED-25' selected, containing 'CCTV PTZ Camera (2)', 'Custom entity', and 'LPR Camera (1)'. Below this is the 'Attribute Search' section with filters for Gender, Age, and Area setting (set to 'CCTV PTZ Camera'). The 'Time range' section is highlighted with a red box, showing 'During the last' selected with a dropdown menu open, listing options: years, months, weeks, days, hours, minutes, seconds, and milliseconds. A green 'Generate' button is visible at the bottom of this section. The main area shows a table of detection results with columns: Camera, Start Time, Event Time, End Time, Attribute, and Thumbnail. The table contains 10 rows of data for 'CCTV PTZ Camera' events on 9/18/2025. Below the table are four video thumbnails (1-4) and a 'Title' field on the right. The bottom status bar includes options like 'Hide left pane', 'Synchronize video', 'Change live pattern', and 'Clear all'.

Camera	Start Time	Event Time	End Time	Attribute	Thumbnail
CCTV PTZ Camera	9/18/2025 5:30:06 PM	9/18/2025 5:30:06 PM	9/18/2025 5:30:06 PM		
CCTV PTZ Camera	9/18/2025 5:30:05 PM	9/18/2025 5:30:05 PM	9/18/2025 5:30:05 PM		
CCTV PTZ Camera	9/18/2025 5:30:05 PM	9/18/2025 5:30:05 PM	9/18/2025 5:30:06 PM		
CCTV PTZ Camera	9/18/2025 5:30:05 PM	9/18/2025 5:30:05 PM	9/18/2025 5:30:05 PM		
CCTV PTZ Camera	9/18/2025 5:30:04 PM	9/18/2025 5:30:04 PM	9/18/2025 5:30:06 PM		
CCTV PTZ Camera	9/18/2025 5:30:04 PM	9/18/2025 5:30:04 PM	9/18/2025 5:30:04 PM		
CCTV PTZ Camera	9/18/2025 5:30:04 PM	9/18/2025 5:30:04 PM	9/18/2025 5:30:04 PM		
CCTV PTZ Camera	9/18/2025 5:30:04 PM	9/18/2025 5:30:05 PM	9/18/2025 5:30:06 PM		



3.7 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.

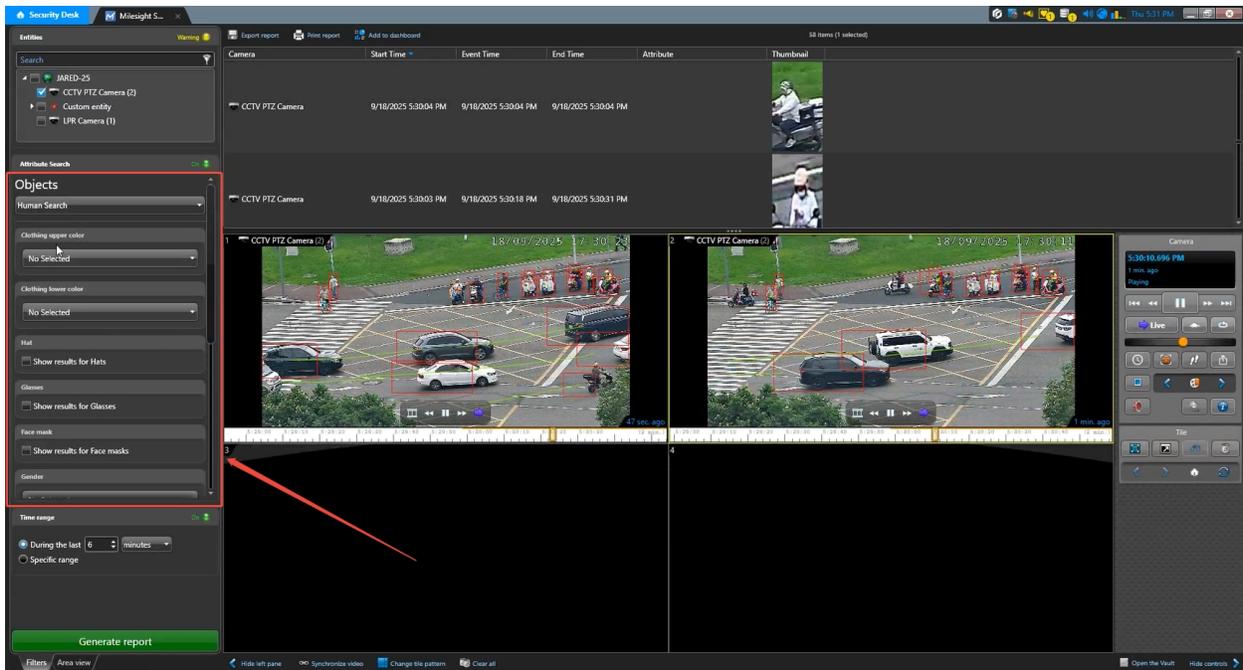
Table 2. Metadata Objects and Attributes

Search Type	Objects	Attributes	Supported Cameras/Versions
Human Search	Face	Age	PE 8.0.5 or above 📌 Note: Multi-sensor, Dual-sensor Panoramic and PD cameras only support human detection (with no attributes).
		Gender	
		Mask	
		Glasses	
	Human	Upper Clothing Color	
		Lower Clothing Color	
Vehicle Search	Vehicle	Type	- PE LPR Cameras: Support all attributes listed here.
		Brand	- SP111-regular: Supports vehicle type classification (Bicycle, Car, Motorcycle, Bus, Truck, Scooter).
		Color	- Multi-sensor Panoramic Cameras: Supports Scooter (non-motor vehicle) classification.
		Speed	
		Direction	

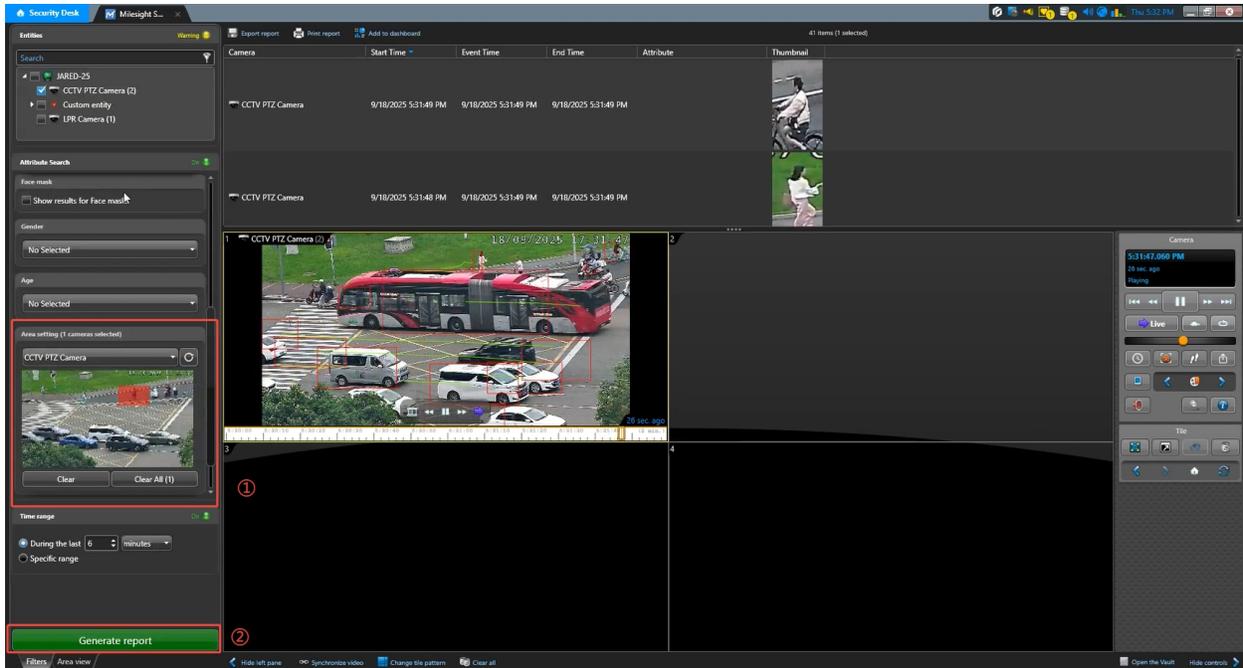
Search Type	Objects	Attributes	Supported Cameras/Versions
Vehicle Search	License Plate	Number	- PE LPR Cameras: Support all attributes listed here. - SP111-LPR: Supports license plate recognition.
		Type	
		Color	
		Country/Region	

3.7.1 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.

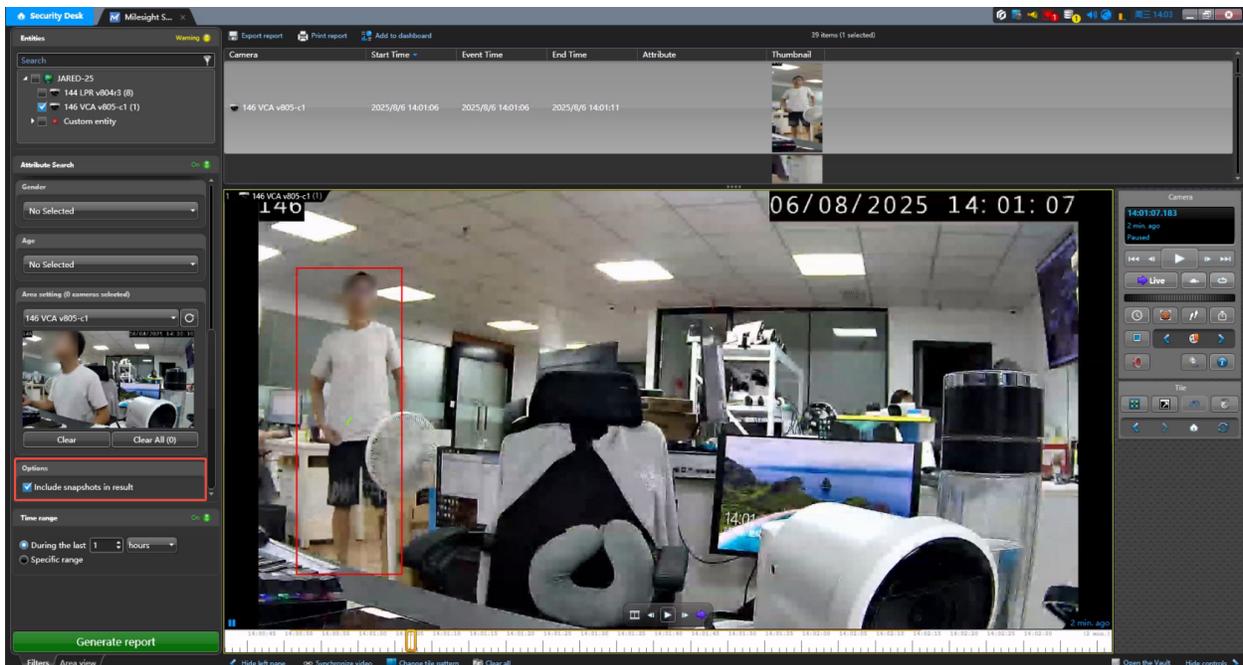


Users can also select a camera in the Area Setting section and draw a region on the thumbnail. Only results within the specified area of that camera will be searched.



If you need snapshots when searching for attribute results, you can enable

Include snapshots in result in the Options section. The plugin will then capture snapshots from the recordings and display them in the Thumbnail column of the result list.



3.7.2 Vehicle Search

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

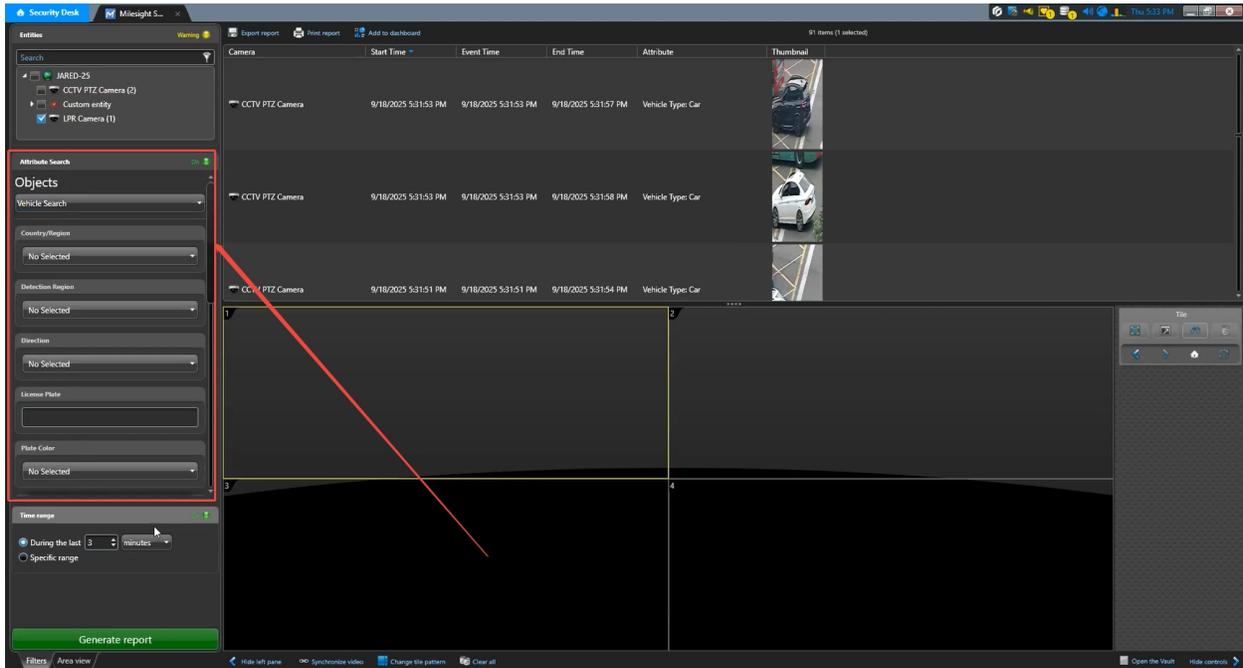
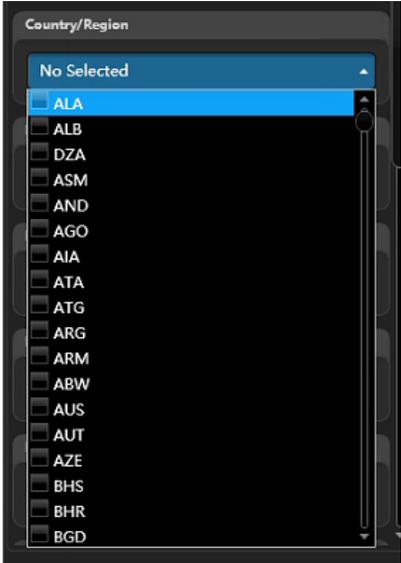
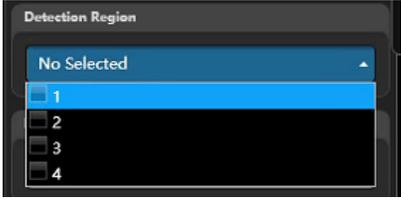
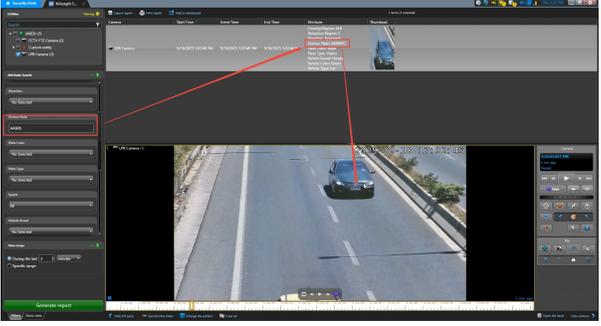
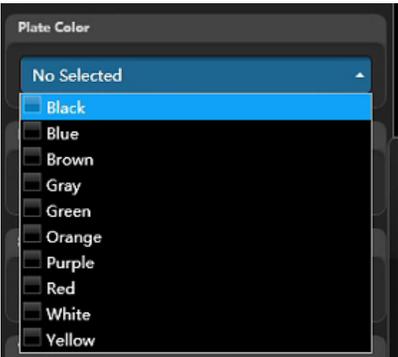
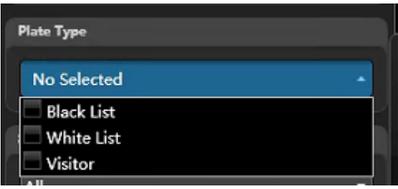
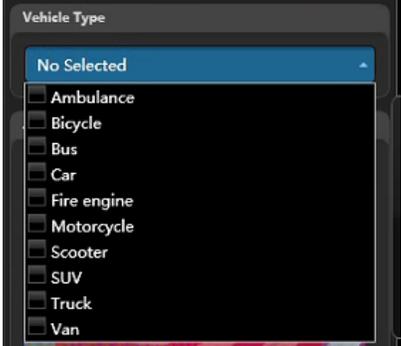
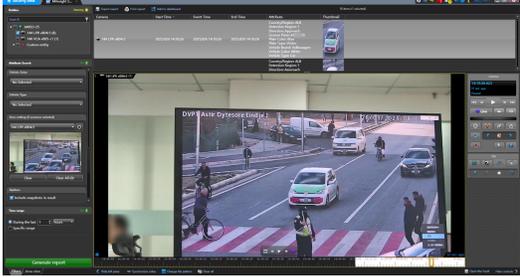


Table 3. Description of Attributes

Attributes	Description
Country/Region	<p>Select to filter by the country/region of the license plate.</p> 
Detection Region	<p>Corresponds to the detection zone number configured on the camera side. Region 1 to 4 are selectable.</p> 
Direction	<p>Select to filter by vehicle driving direction. "Approach" or "Away" are selectable.</p> 

Attributes	Description
<p>License Plate</p>	<p>Supports fuzzy matching, i.e., entering partial numbers/characters contained in the license plate will retrieve matching vehicles. Example: Entering "AA606" can retrieve "AA606FC".</p> 
<p>Plate Color</p>	<p>Select to filter vehicles with specific license plate colors. Supported colors are as shown in the figure below.</p> 
<p>Plate Type</p>	<p>Select to filter by vehicle identity type. "Black List", "White List", and "Visitor" are selectable.</p> 

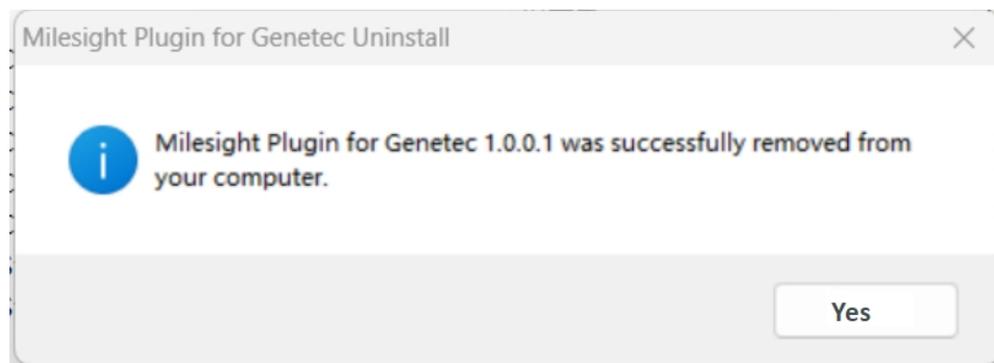
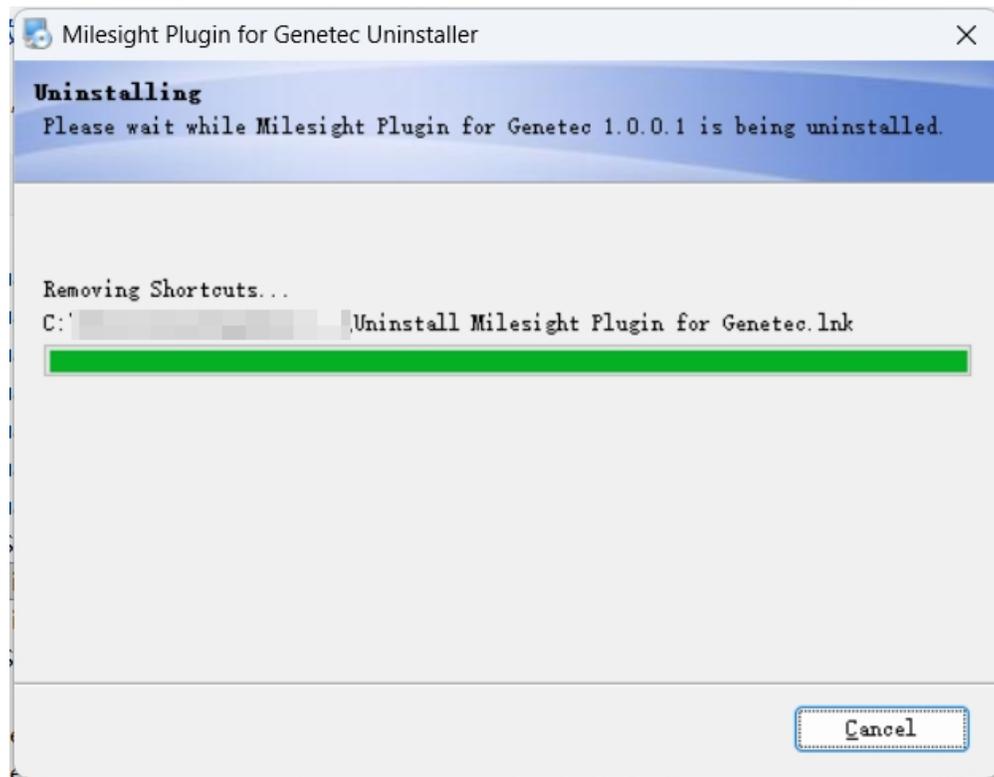
Attributes	Description
<p>Speed</p>	<p>Select to filter vehicles exceeding or falling below the specified speed range.</p> 
<p>Vehicle Brand</p>	<p>Select to filter by vehicle brand.</p>
<p>Vehicle Color</p>	<p>Select to filter by vehicle color.</p>
<p>Vehicle Type</p>	<p>Supported vehicle types include: Ambulance, Bicycle, Bus, Car, Fire Engine, Motorcycle, Scooter, SUV, Truck, Van.</p> <p>Note: Scooter is currently only supported by Multi-sensor Panoramic cameras and Pro G1-regular Series cameras.</p> 
<p>Area Setting</p>	<p>See 3.7.1 (page 23), here will not repeat again.</p>
<p>Options</p>	<p>Select to capture snapshots from the recordings and display them in the Thumbnail column of the result list.</p> 

Chapter 4. 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 popup will be displayed.



Chapter 5. 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>

MILESIGHT CHINA

TEL: +86-592-5922772

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