



# INSTALLATION GUIDE



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# 1.1. What is carGuroo?

The logo for carGuroo, featuring the word "car" in a standard font and "Guroo" in a blue, rounded font with a blue circle around the letter "G".

**carGuroo** is a native Milestone XProtect LPR plugin that quickly and accurately provides vehicle data (license plate, make, model and type) in various scenarios



Plugin with preset settings in Milestone



Quick installation and easy configuration

The Milestone logo (a blue diamond) followed by the text "milestone XProtect plugin".

Managed in Milestone. *All configurations are done in XProtect Management Client*



Own database. The plugin works with own FF Group database (200M of events)



## System requirements

**\*For the carGuroo recognition server**

### Minimum:

Intel® Core™ i3-10105T Processor, 16 GB RAM, HDD free space: 500 MB installation, 180 GB for DB\* (for 1-2 channel)

\*\*For the low traffic with average 2000 events per day

### Recommended:

Intel® Core™ i9-10980XE Extreme Edition Processor, 32 GB RAM, HDD free space: 500 MB installation, 2 TB for the database\* (for 16 channels)

### Supported OS:

Windows 10/11 PRO, Enterprise, Windows Server (64 bit) 2019, 2022 Essentials, Standard and Datacenter

### Supported XProtect versions:

Milestone XProtect 2023 R1 and newer (Express+ or higher)

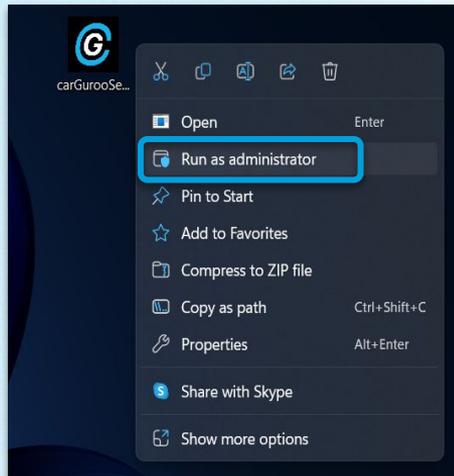
\*\*For traffic intensity with an average of 10000 events per day

EU	North America	South America	APAC	Middle East
 all 51 countries	 USA  Canada  Mexico	 Argentina  Brasil  Paraguay  Colombia  Chile  Uruguay	 Australia  New Zealand  Taiwan  Vietnam  Indonesia  Hong Kong	 Bahrein  Kuwait  Oman  Qatar  Saudi Arabia  UAE

\* Customer can choose the region from the UI

This release is available for download from the official FF Group folder on Google Drive [here](#).

Run carGurooSetup.exe as an administrator

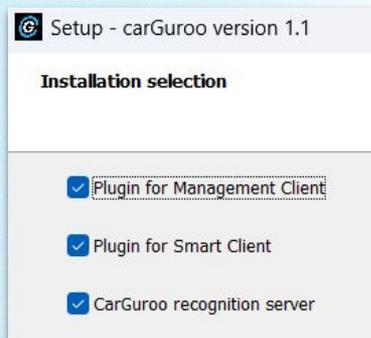


Windows may require you to confirm your choice:

**ATTENTION! Running carGuroo Installation as an Administrator is required for correct installation.**

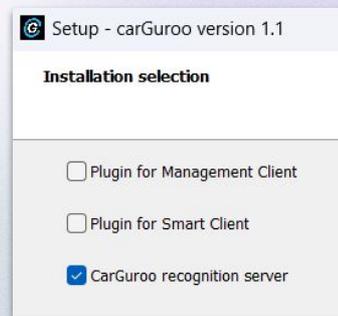


This case assumes that all Milestone and CarGuroo components will be installed on the same host:



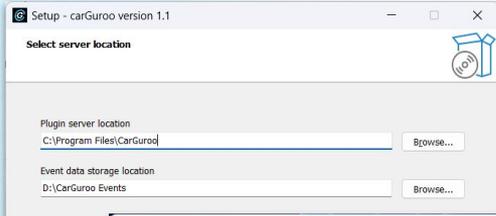
In the case of a multi-server system configuration, you have the opportunity to install carGuroo components on different hosts.

**In this case, starting by installing the carGuroo recognition server is recommended.**



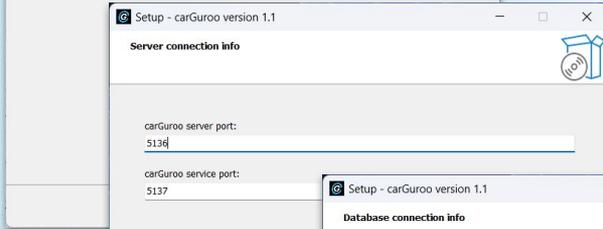
The carGuroo server can be installed on a separate host within the same network segment with other Milestone components.

Also, within one system you can run several carGuroo recognition servers. All recognition servers will be managed through the XProtect Management Client.

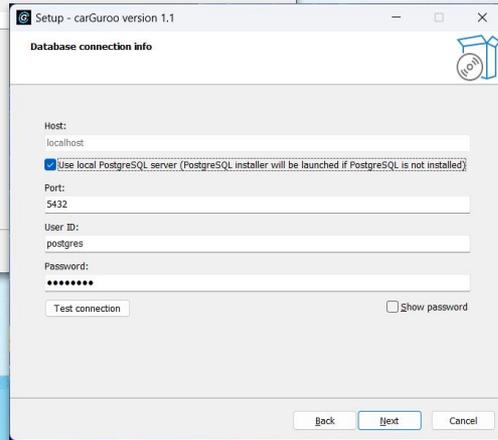


- Check plugin installation paths and specify path for the events data storing\*

**\*Make sure you have enough free space on your hard drive. Event photos take up a lot of hard drive space. If there is not enough space, then change the carGuroo events storing path to a disk with at least 180 GB of free space**



- Specify the main communication ports\*



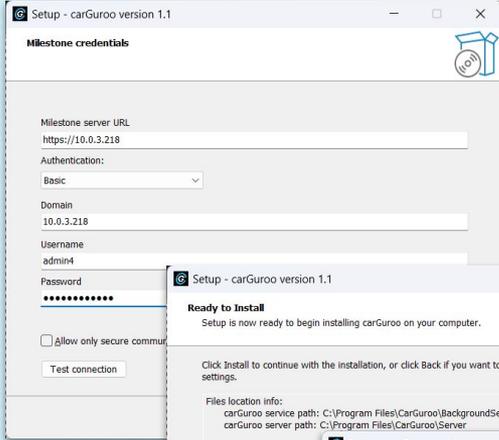
- Specify PostgreSQL database connection settings (In case of updating existing system enter proper password for the PostgreSQL DB. In case of new installation specify the password which you will use for the BD).

**If you change default Database credentials, please note they will be required during further PostgreSQL installation**

\*If some of the ports are already occupied you will get the appropriate message by clicking the "Next" button. For example:

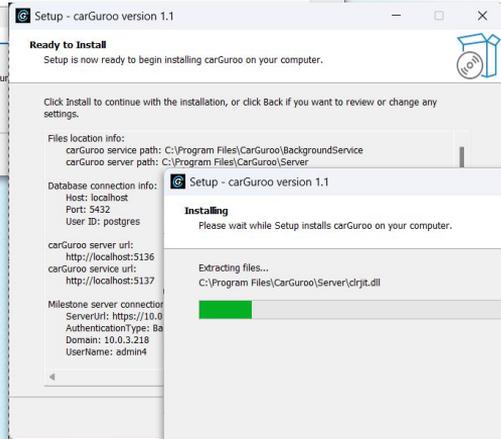


In this case, please specify another port or free it from other applications and continue with the installation.

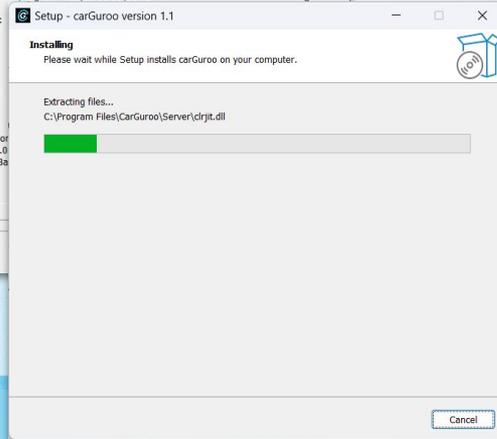


- Choose authentication method: with Windows user or with XProtect Basic\* user

**\*Basic user should be assigned to the Administrators group first**

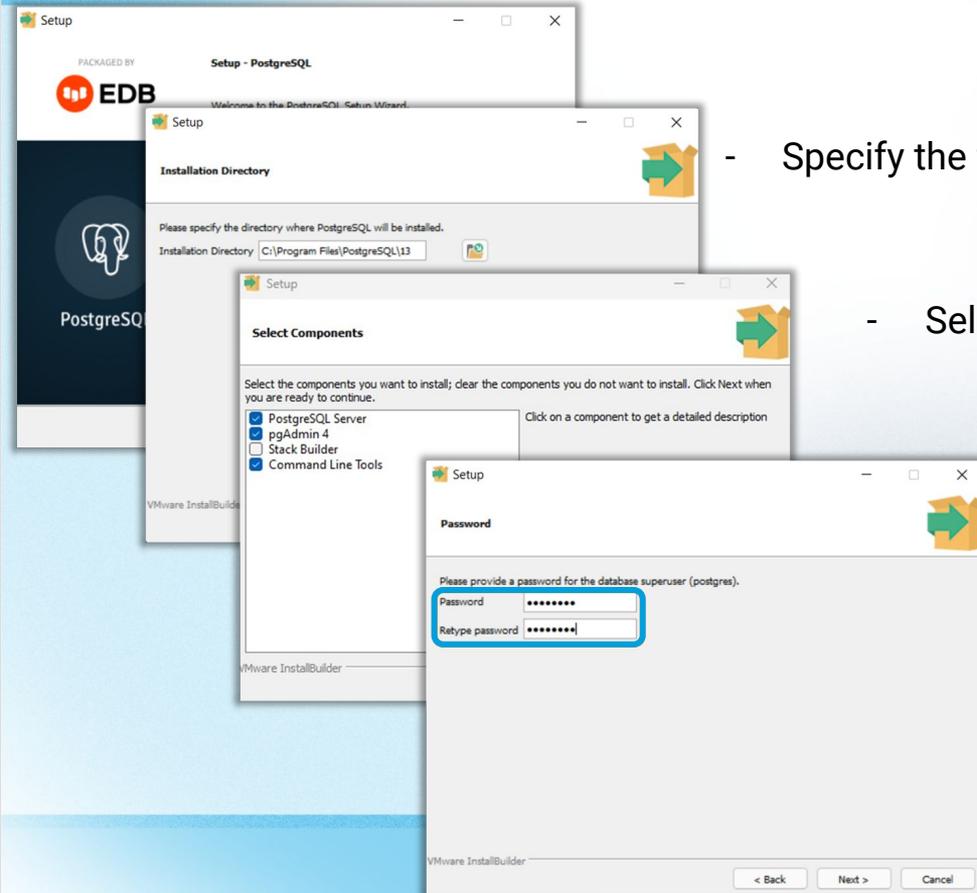


- Check the summary info and process installation by clicking "Next"



- During the first carGuroo installation it is necessary to install the PostgreSQL database.

After this step, the PostgreSQL installer will be run automatically. Click "Next"



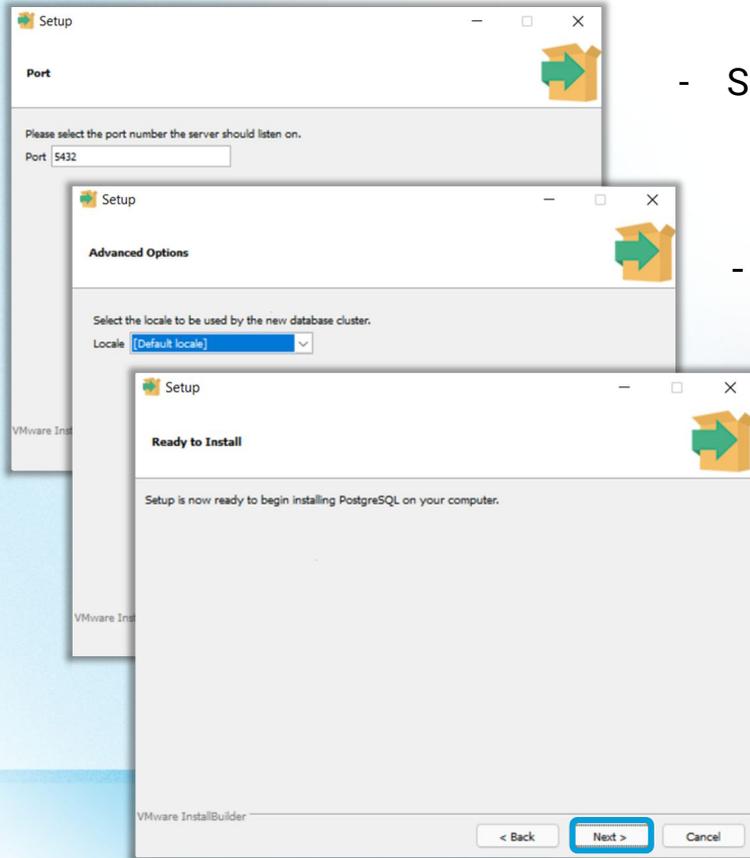
- Specify the folder to install the database or use the default value

- Select components to install or use the default value.

**The PostgreSQL Server component is required for installation.**

We recommend to install Postgres by default; don't install StackBuilder

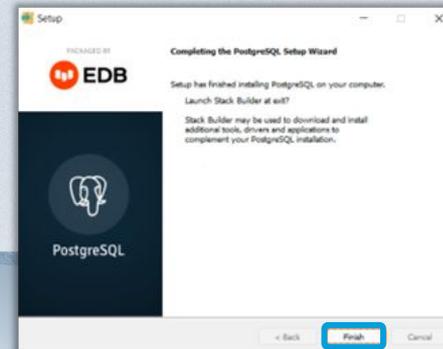
- Please input the password that you previously specified for Postgres superuser in the [previous step](#) with PostgreSQL creds



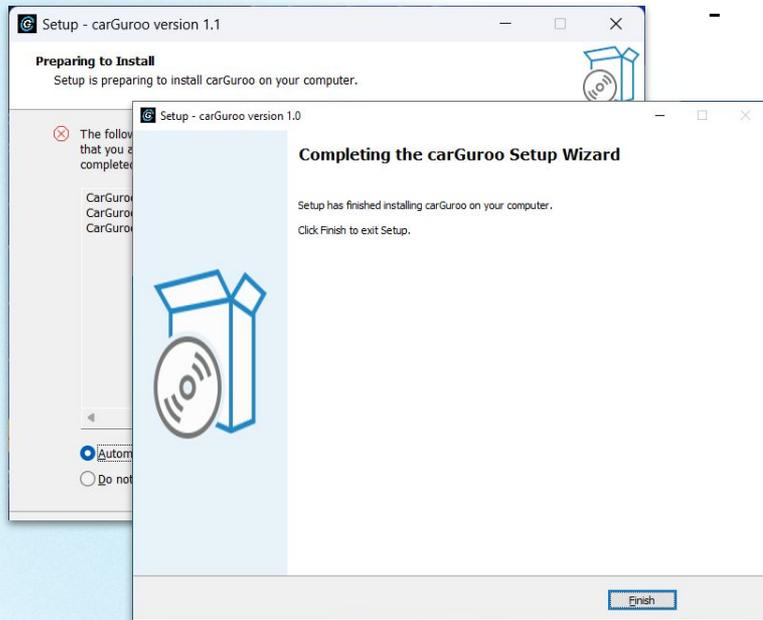
- Select the port number (the default is 5432)

- Skip this step by clicking the “Next” button

- Confirm installation



- Finished PostgreSQL installation



- Wait for installer to finish

- The installation of the carGuroo recognition server is now complete

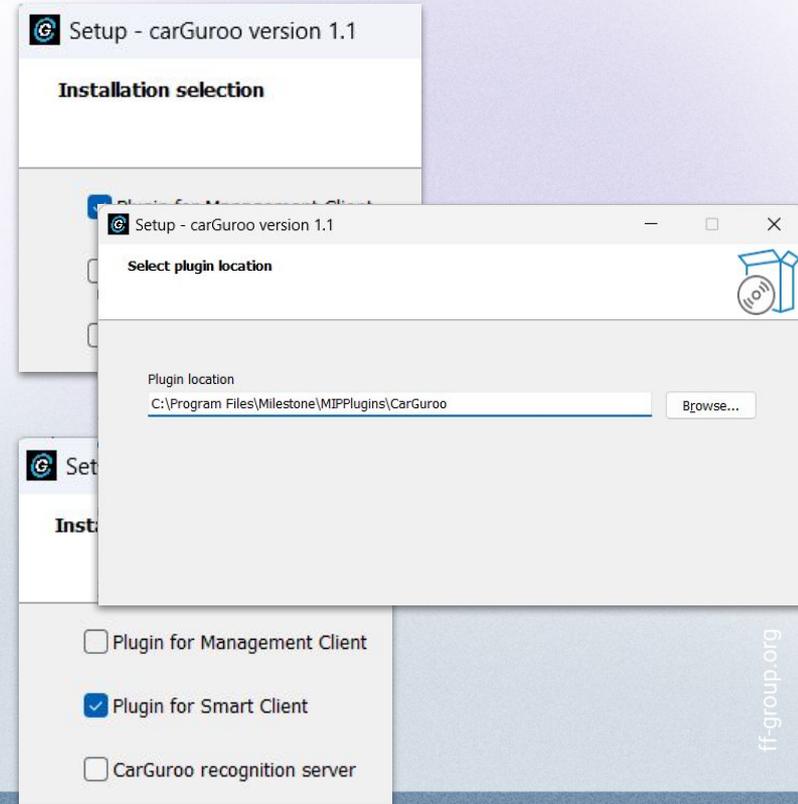
**Please close Management and Smart Clients before carGuroo plugins installation.**

Using the same installer carGuroo\_1\_1\_Setup, on a host with the XProtect Management Client already installed, install the corresponding components of the carGuroo plugin.

Please check the proper plugin path during the installation.

A similar procedure should be performed on the host with the Smart Client installed by installing the necessary carGuroo components for the XProtect Smart Client.

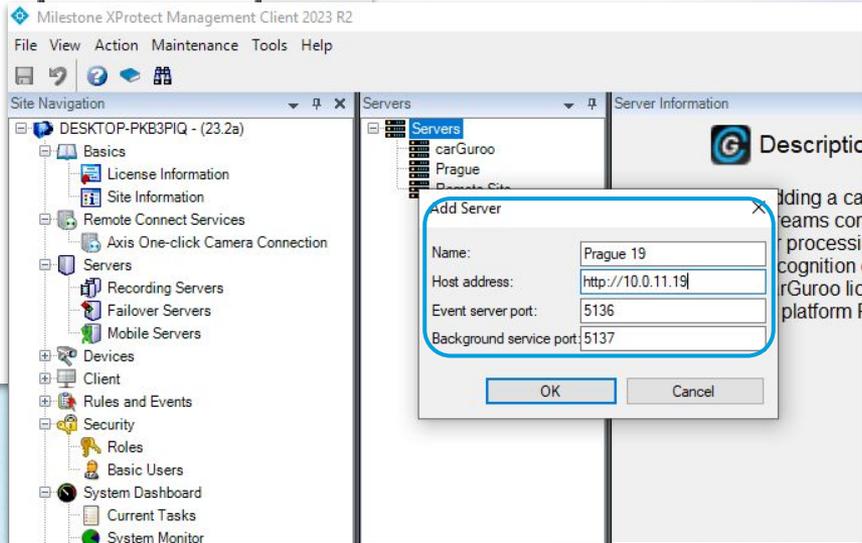
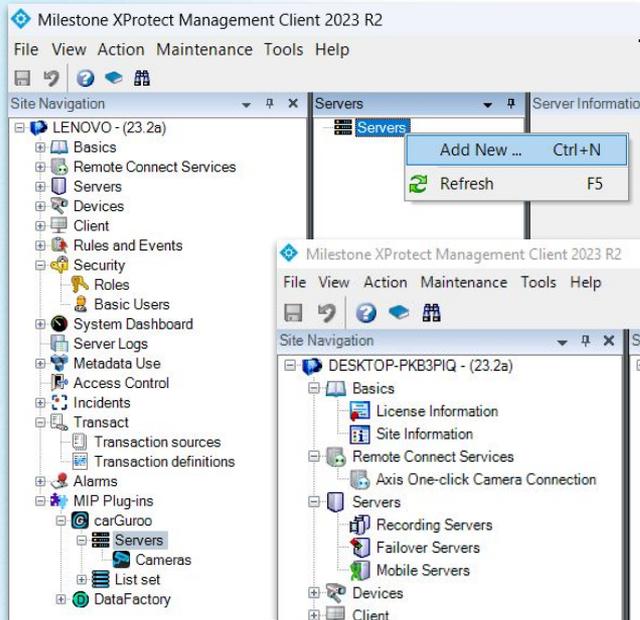
\*You can install the plugin on several hosts with XProtect Smart Clients installed, thus providing simultaneous access to recognition data for several users.



**\*For the best user experience, it is highly recommended to have a gigabit network connection between all carGuroo and Milestone hosts.**

## 3.1. Activating the license

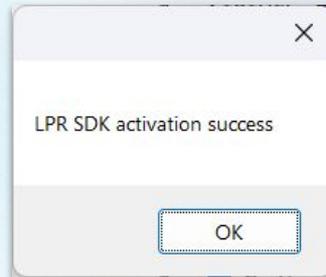
Open the Management Client and in the Site Navigation side panel go to the MIP Plug-ins and choose carGuroo plugin. Create the recognition server by right clicking above the “Servers” object



- Specify the recognition server name, recognition server's host address and ports (should be the same as you input during Recognition Server installation procedure)



- Input your activation code and click the “Activate” button to perform activation



- After successful activation, you will see a corresponding notification

**Please Note! It is mandatory to have an Internet connection while the activation procedure.**

Milestone XProtect Management Client 2023 R2

File View Action Maintenance Tools Help

Site Navigation Servers Server Information

carGuroo

**License info**

Status: **activated**

License key: U [redacted] LF

Channels number: 16

MMR

Recognition results comparison analytic

Soft analytic results compression Allowed character deviation 2

License plate loss interval, s: 5

**Cameras list**

Used slots: 3/16

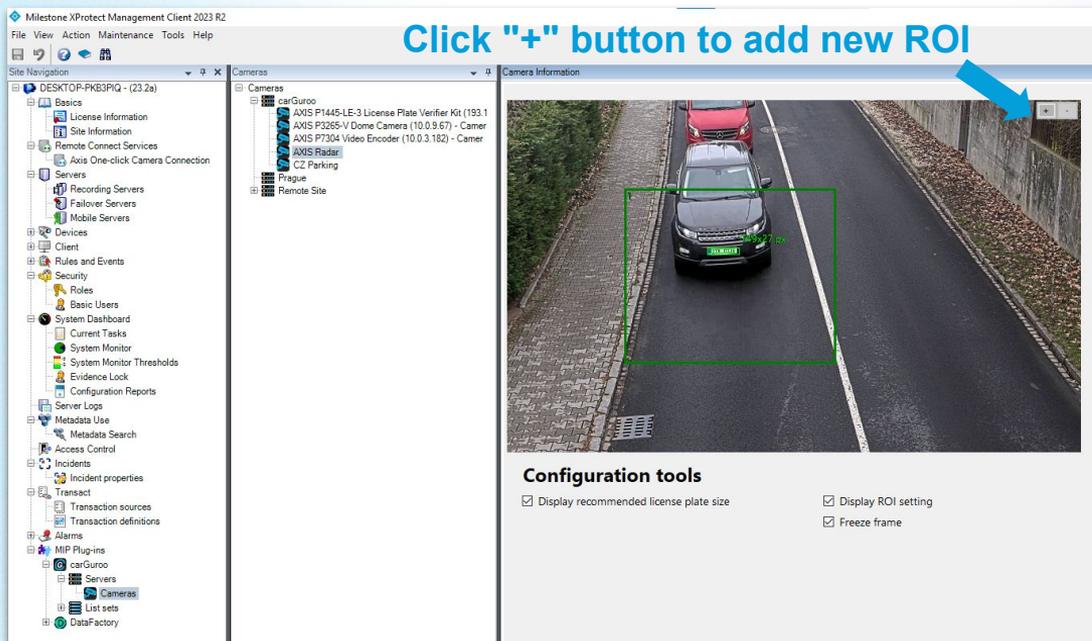
- AXIS P1368-E Network Camera (10.0.3.168) - Camera 1 Available
- AXIS P1375 Network Camera (10.0.3.165) - Camera 1 Available
- AXIS P3268-LV Dome Camera (10.0.3.181) - Camera 1 Available
- AXIS Q1615 Mk II Network Camera (10.0.3.174) - Camera 1 Available
- AXIS Q1700-LE License Plate Camera (10.0.3.177) - Camera 1 Available
- Hanwha Techwin PNO-A9081R (10.0.3.184) - Camera 1 Available
- Hanwha Techwin XNO-6080R (10.0.3.135) - Camera 1 Available
- Hanwha Techwin XNO-L6080R (10.0.3.134) - Camera 1 Available
- Video Encoder Available

Site Navigation Federated Site Hierarchy

General Integration

- Connect cameras for LPR from the list simply by checking the boxes next to the camera name

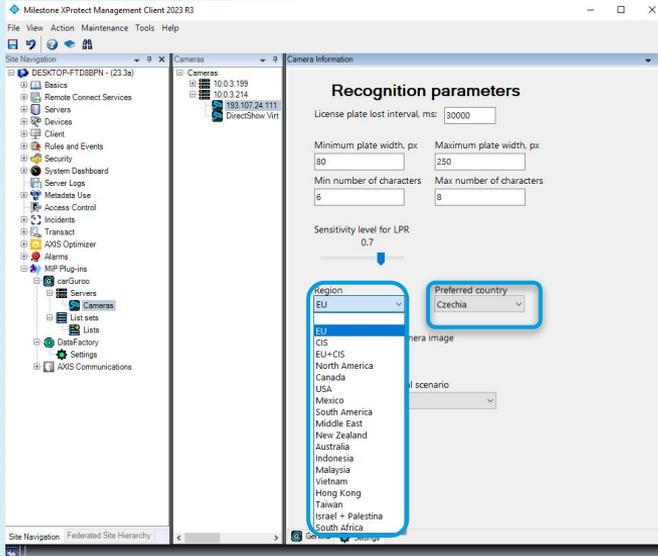
Click "+" button to add new ROI



The screenshot shows the Milestone XProtect Management Client 2023 R2 interface. The left sidebar contains a tree view of system components. The main area is divided into three panes: 'Cameras' (listing various camera models), 'Camera Information' (showing a live video feed of a road with a car and a green bounding box around the license plate), and 'Configuration tools' (with three checked options: 'Display recommended license plate size', 'Display ROI setting', and 'Freeze frame'). A blue arrow points to a '+' button in the top right corner of the 'Camera Information' pane.

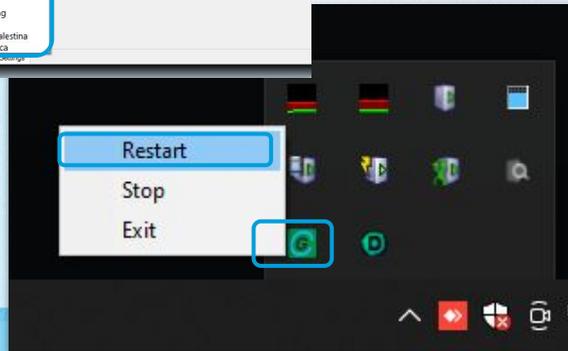
- Configure every camera for recognition by adjusting the ROI and checking the plate size. You can check recognition quality by viewing raw data in the trace log located at the following path:

*C:\ProgramData\CarGuroo\Logs\Y  
YYY-MM-DD\Trace*

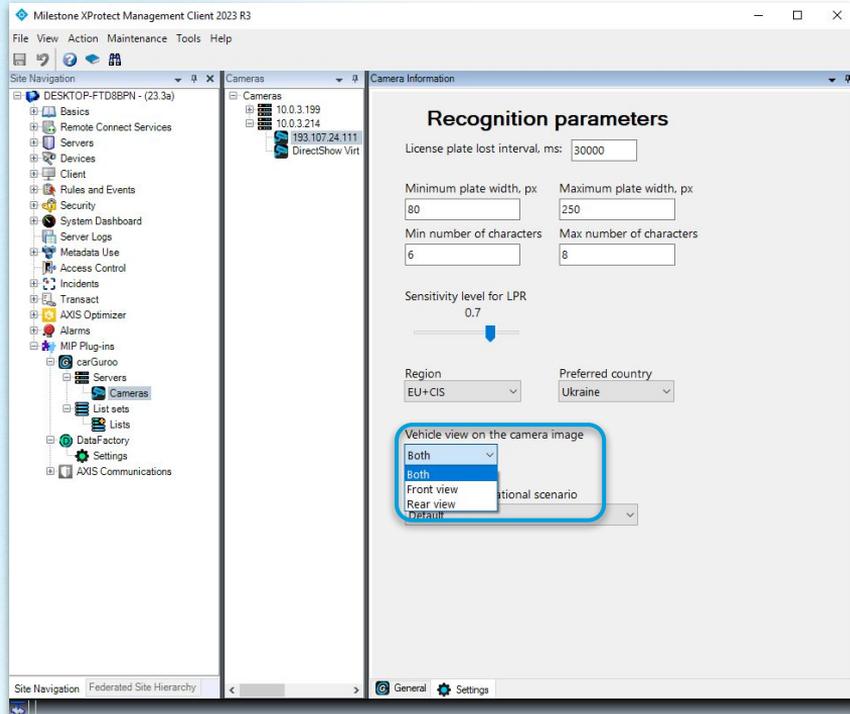


- Choose the “Settings” tab to select preferred region and to fine tune recognition settings (sensitivity, threshold, min. and max. plate size in pixels and number of symbols on the license plate). These settings are only for advanced users

\*“Preferred country” feature is available only for the EU and USA regions. “Preferred country” is designed to improve the quality of country recognition for Europe and states for the USA

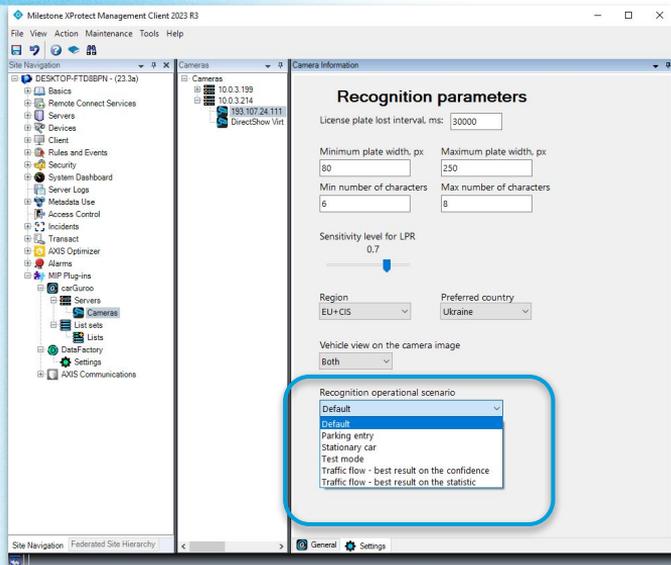


- It is recommended to restart Milestone services and then carGuroo services after finishing adjusting recognition parameters or after changing the setting of Preferred country



- To increase make and model recognition quality now you can specify vehicle view on the camera image\*
  - Set "Both" if you are not finished yet with the camera installation angle
  - Set "Front view" if, in the recognition zone, you will see only the front of the vehicle
  - Set "Rearview" if, in the recognition zone, you will see only the rear part of the vehicle

\*Please see our "carGuroo cameras installation Guide" to understand more about camera installation requirement



Now you can specify the recognition scenario for post-analytic. The main goal is to provide one recognition event per vehicle without duplicates.

The **"Default" scenario covers 90% of real-life cases** (traffic monitoring in the highways/city streets, parking, etc). This scenario has complicated logic which also covers the "Traffic flow" scenarios below.

We added more scenarios for some "hard" installation cases:

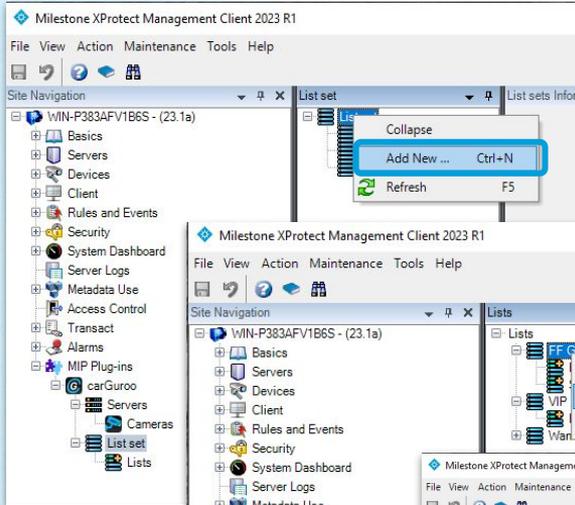
**"Parking entry"** - this scenario will help you in cases when a vehicle approaches the camera at low speed.

**"Stationary car"** - this scenario could help you in cases when the car is parked in front of the camera and stays for a long time (from several minutes to several hours).

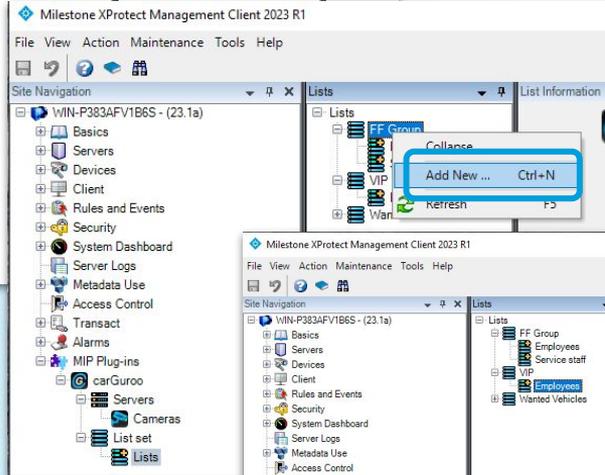
**"Test mode"** - could be useful while checking recognition quality. This mode disables post analytic and in the results tab, you will get all raw recognition results.

**"Traffic flow - best result on the confidence"** - this is a private work scenario. For example, if a car license plate was recognized only 10 times, then the algorithm from 10 recognition results will select one result with the highest confidentiality for display.

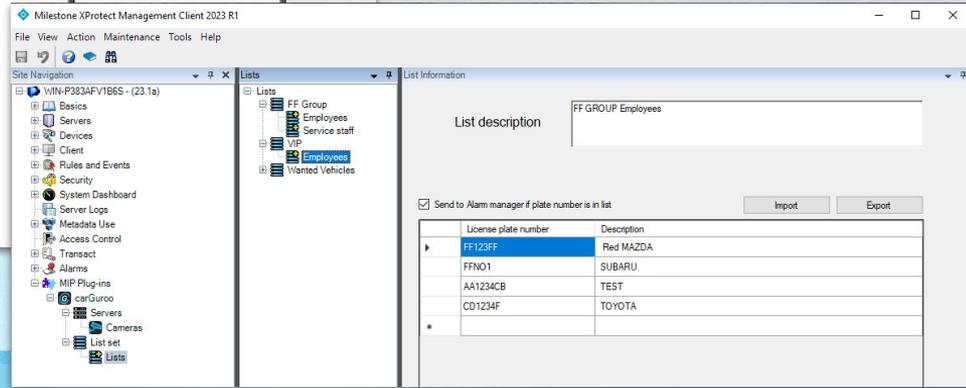
**"Traffic flow - best result on the statistic"** - This is a private work scenario. For example, if a car license plate was recognized only 10 times, while 7 times the number was recognized incorrectly with a confidentiality of 0.6 and three times correctly with a confidentiality of 0.9, then the algorithm, based on the statistics of the number of recognitions, will display one result out of 7 incorrect ones since such there were more results.



- Go to "List set" to create a group of lists

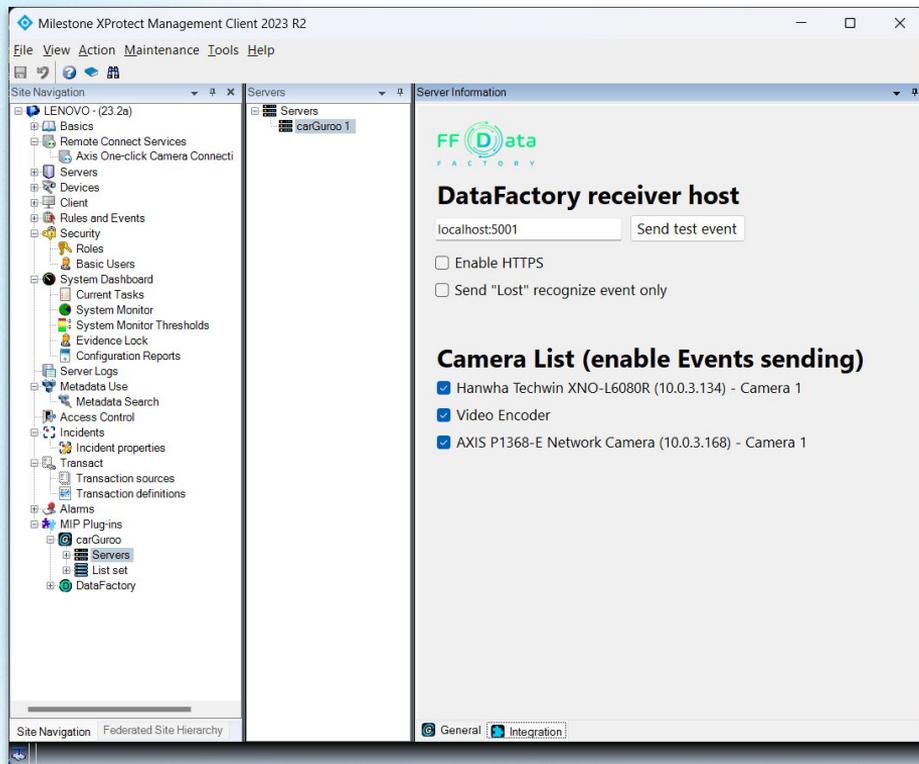


- Create a separate list to add vehicle license plates to it

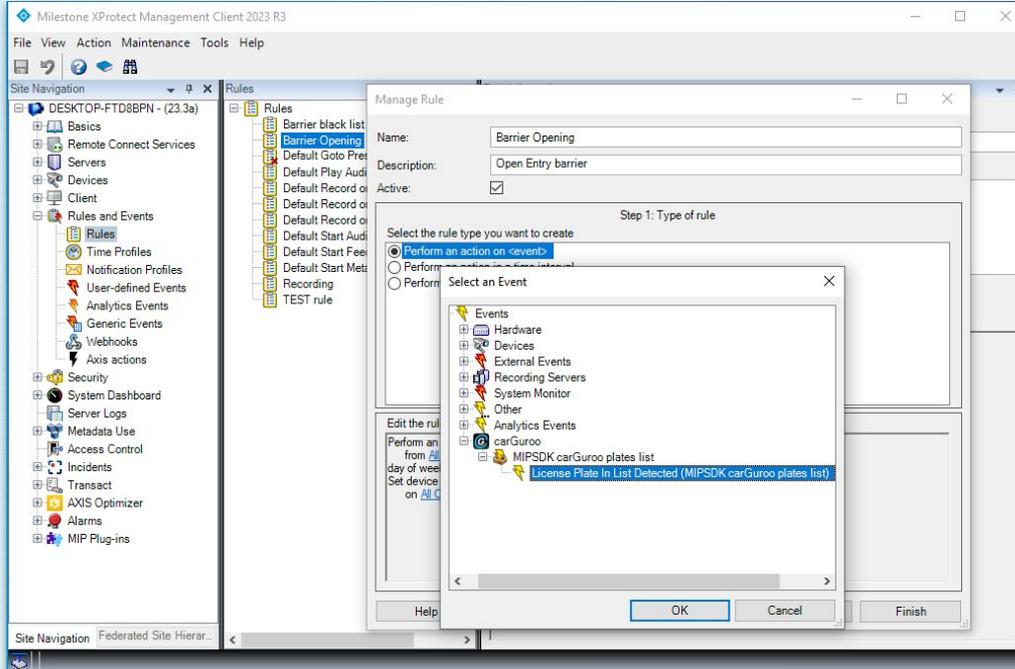


- Add vehicle license plates to the list. Add description to the license plate if needed

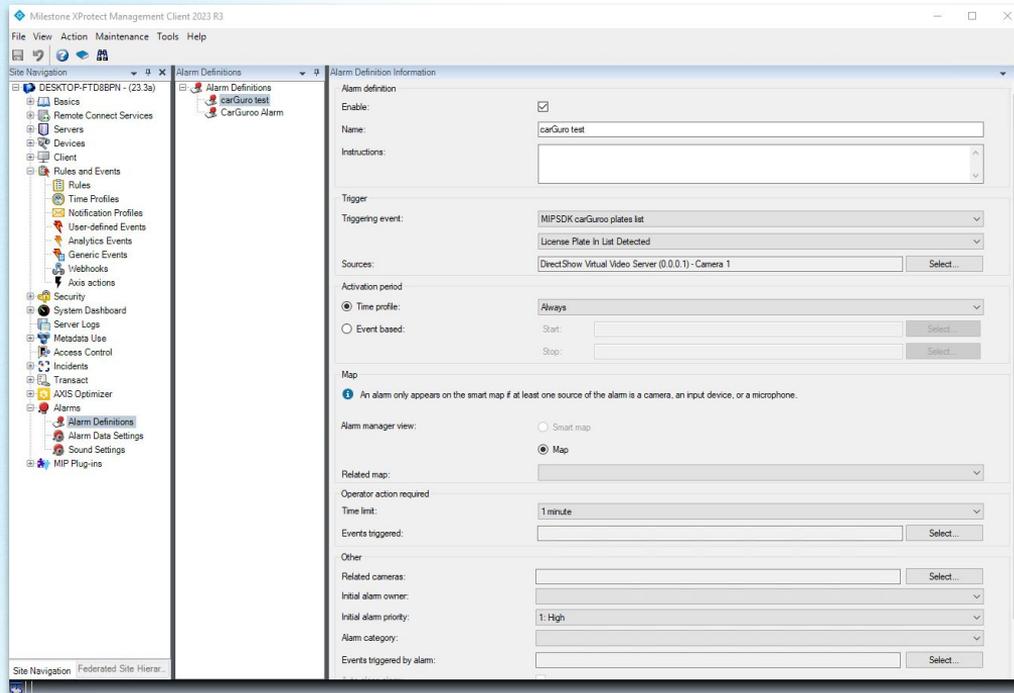




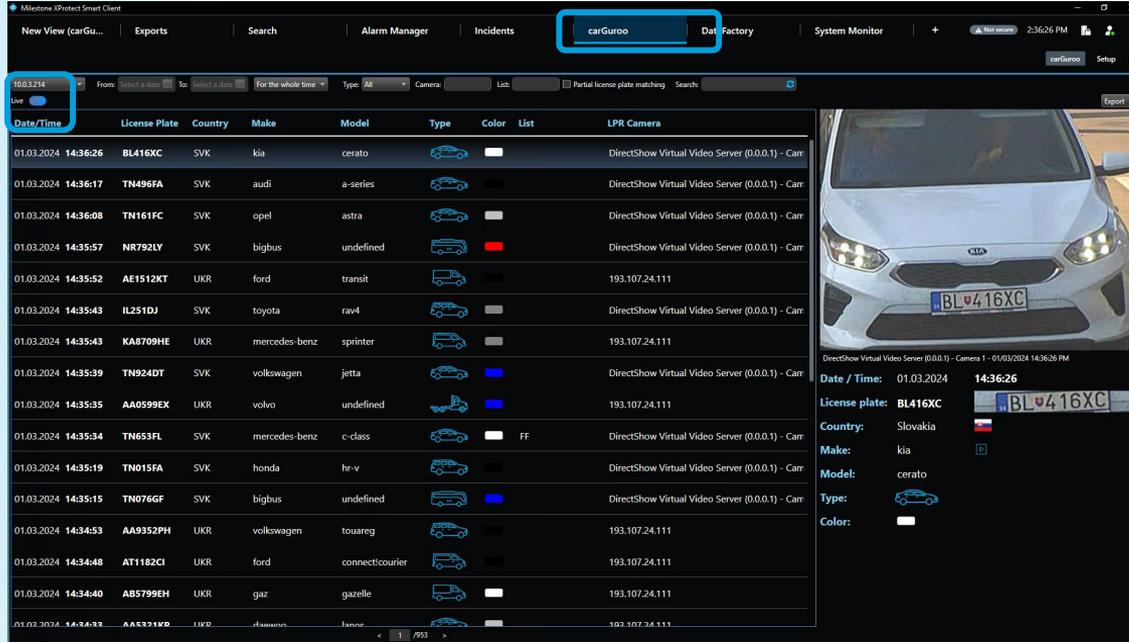
- Go to “Servers” - “Integration” tab
- Insert FF DataFactory IP address and operating port
- Match checkbox on the specific camera to start sending metadata to FF DataFactory



- Go to “Rules and Events” - “Rules
- Create new rule with type “Perform an action on <event>”
- Choose “License plate in List Detected” predefined event from the Event list
- Add any action available in Milestone for this rule (for example “Set device output” for opening the barrier for listed vehicles



- Go to “Alarms” - “Alarm Definitions”
- Create new Alarm Definition with type “Perform an action on <event>”
- Choose Triggering event “MIPSDK carGuroo plates list” event from the Event list
- Add any additional parameters available in Milestone for this Alarm Definition



The screenshot shows the Milestone XProtect Smart Client interface. The 'carGuroo' tab is selected and highlighted with a blue box. The 'Live' mode is also indicated by a blue box around the 'Live' button. The main area displays a table of live events with columns for Date/Time, License Plate, Country, Make, Model, Type, Color, List, and LPR Camera. A detailed view of a white Kia Cerato is shown on the right, with its license plate BL0416XC.

Date/Time	License Plate	Country	Make	Model	Type	Color	List	LPR Camera
01.03.2024 14:36:26	BL416XC	SVK	kia	cerato	Carr	White		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:36:17	TN496FA	SVK	audi	a-series	Carr	Black		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:36:08	TN161FC	SVK	opel	astra	Carr	Black		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:57	NR792LY	SVK	bigbus	undefined	Bus	Red		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:52	AE1512KT	UKR	ford	transit	Van	Black		193.107.24.111
01.03.2024 14:35:43	IL251DJ	SVK	toyota	rav4	SUV	Black		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:43	KA8709HE	UKR	mercedes-benz	sprinter	Van	Black		193.107.24.111
01.03.2024 14:35:39	TN924DT	SVK	volkswagen	jetta	Carr	Blue		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:35	AA0599EX	UKR	volvo	undefined	Van	Blue		193.107.24.111
01.03.2024 14:35:34	TN653FL	SVK	mercedes-benz	c-class	Carr	Black	FF	DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:19	TN015FA	SVK	honda	hr-v	SUV	Black		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:35:15	TN076GF	SVK	bigbus	undefined	Bus	Blue		DirectShow Virtual Video Server (0.0.0.1) - Carr
01.03.2024 14:34:53	AA9352PH	UKR	volkswagen	touareg	SUV	Black		193.107.24.111
01.03.2024 14:34:48	AT1182CI	UKR	ford	connectcourier	Van	Black		193.107.24.111
01.03.2024 14:34:40	AB5799EH	UKR	gaz	gazelle	Van	Black		193.107.24.111
01.03.2024 14:34:38	AA8321KB	UKR	honda	honda	Van	Black		193.107.24.111

- Launch XProtect Smart Client and choose the carGuroo tab. You will see live events populating the table automatically
- “Live” mode will be automatically disabled when you switch to the any other Smart Client’s tab to reduce the load on your computer

The screenshot shows the Milestone XProtect Smart Client interface. At the top, there are navigation tabs: New View (carGu...), Exports, Search, Alarm Manag..., Incidents, carGuroo (selected), DataFactory, and System Monitor. Below the tabs is a search bar with a dropdown menu for 'Date/Time' showing a list of dates: 01.03.2024, 02.03.2024, and 03.03.2024. A blue arrow points to this dropdown menu. The main area contains a table of search results with columns: Date/Time, Sense Plate, Country, Make, Model, Type, Color, List, and LPR Camera. The table lists various vehicles with their details. On the right side, there is a large image of a blue Skoda Octavia with license plate 5880919. Below the image, there are filters for Date / Time (01.03.2024 17:14:29), License plate (5880919), Country (Slovakia), Make (skoda), Model (octavia), Type (car), and Color (blue).

Date/Time	Sense Plate	Country	Make	Model	Type	Color	List	LPR Camera
01.03.2024 17:15:00		UKR	renault	kangoo				193.107.24.111
01.03.2024 17:14:55	KA1734EP	UKR	ford	connecticourier				193.107.24.111
01.03.2024 17:14:32	BA1425EP	UKR	mercedes-benz	undefined				193.107.24.111
01.03.2024 17:14:29	5880919	SVK	skoda	octavia		blue		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:14:26	TN678DB	SVK	kia	ceed				DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:14:22	AA8842TH	UKR	subaru	outback				193.107.24.111
01.03.2024 17:14:22	TN787FU	SVK	volkswagen	tiguan				DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:14:19	TN062CB	SVK	iveco	undefined				DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:14:16	AA1633EM	UKR	daewoo	lanos				193.107.24.111
01.03.2024 17:14:07	AA7657MO	UKR	toyota	hiace				193.107.24.111
01.03.2024 17:14:04	BN584CR	SVK	nissan	qashqai				DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:13:05	7116520	TUR	hyundai	i30				DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 17:13:29	BT236DD	SVK	acura	undefined				DirectShow Virtual Video Server (0.0.0.1) - Cam

First to need to specify the server on which you want to perform the search by choosing it from the drop list on the left upper corner of carGuroo Main Workspace

The screenshot displays the Milestone XProtect Smart Client interface. The top navigation bar includes 'New View (carGuroo)', 'Exports', 'Search', 'Alarm Manager', 'Incidents', 'carGuroo', 'DataFactory', and 'System Monitor'. The main area shows a table of search results with columns: Date/Time, License Plate, Country, Make, Model, Type, Color, List, and LPR Camera. A red box highlights a row with the following details: Date/Time: 01.03.2024 14:40:49, License Plate: KA400AMI, Country: UKR, Make: audi, Model: a-series, Type: car, Color: white, List: 193.107.24.111. A red arrow points from this row to a detailed view on the right side of the screen. This view shows a front-facing image of a silver Citroën Jumpy van with license plate IL077DA. Below the image, the following details are displayed: Date / Time: 01.03.2024 14:41:36, License plate: IL077DA, Country: Slovakia, Make: citroen, Model: jumpy, Type: van.

Date/Time	License Plate	Country	Make	Model	Type	Color	List	LPR Camera
01.03.2024 14:41:36	IL077DA	SVK	citroen	jumpy	van	grey		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:41:24	AA24700X	UKR	volvo	undefined				193.107.24.111
01.03.2024 14:41:16	A18217BM	UKR	mazda	3	car	red		193.107.24.111
01.03.2024 14:41:14	TN512ES	SVK	skoda	felicia	car	black		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:41:03	TN668GF	SVK	opel	corsa	car	red		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:41:03	AA3409XB	UKR	man	undefined	truck	grey		193.107.24.111
01.03.2024 14:40:56	TN537EM	SVK	opel	corsa	car	blue		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:40:52	BL83950	SVK	skoda	octavia	car	white		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:40:49	KA400AMI	UKR	audi	a-series	car	white		193.107.24.111
01.03.2024 14:40:47	TN615HK	SVK	toyota	verso	van	grey		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:40:34	TN090FC	SVK	skoda	octavia	car	black		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:40:24	AA4979PM	UKR	citroen	jumper	van	white		193.107.24.111
01.03.2024 14:39:50	AA6824EM	UKR	infiniti	undefined	car	grey		193.107.24.111
01.03.2024 14:39:41	TN544FM	SVK	volkswagen	caddysharanitoura	van	white		DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:39:35	TN978EX	SVK	skoda	superb	car	black	FF	DirectShow Virtual Video Server (0.0.0.1) - Cam
01.03.2024 14:39:31	TN196CHD	SVK	skoda	octavia	car	blue		DirectShow Virtual Video Server (0.0.0.1) - Cam

- By clicking on a particular car detection row in the list, you will see detailed results incl. Image on the right side of the screen
- When "Live" mode is selected the latest recognition event will be displayed automatically on the right Work Space section with the vehicle photo. Please disable the "Live" view if you want to start to search specific recognition events.

The screenshot shows the Milestone XProtect Smart Client interface. The search bar at the top has a date range from 2/1/2024 to 2/1/2024. The search results table is as follows:

Date/Time	License Plate	Country	Make	Model	Type	Color	List	LPR Camera
28.02.2024 20:20:35	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182
28.02.2024 19:50:35	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182
28.02.2024 19:20:34	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182
28.02.2024 18:50:34	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182
28.02.2024 18:20:33	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182
28.02.2024 17:50:33	7AE6759	CZE	skoda	octavia				[decoder][Kyiv] 10.0.3.182

The detailed view on the right shows a white Skoda Octavia with license plate 7AE 6759. The search criteria are: Date / Time: 28.02.2024 20:20:35, License plate: 7AE6759, Country: Czechia, Make: skoda, Model: octavia, Type: , Color: .

- Specify time period for the search (“For the all time” is default)

1 - Select car type

2 - Input camera name / part of the camera name (if needed)

3 - Input the list name / part of the list name (if needed)

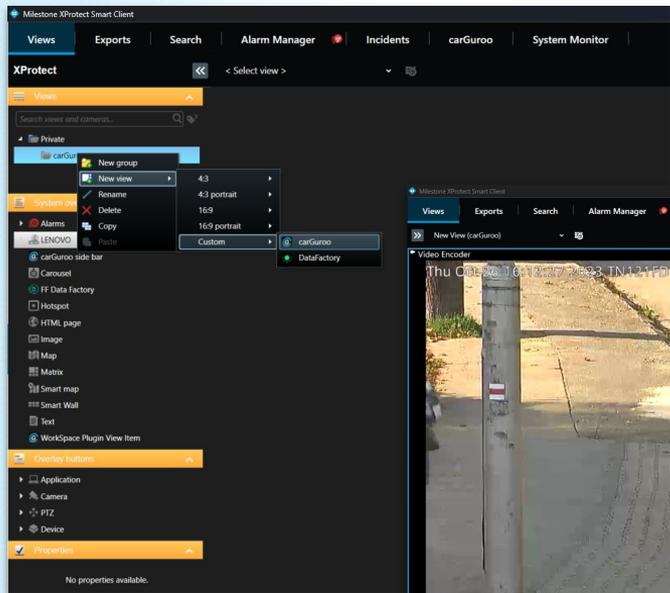
4 - Enable “Partial license plate matching” if you want to find the vehicle by symbols combinations in the license plate

5 - in the “search” field you are able to input country name, vehicle brand and model, color of the vehicle and the license plate

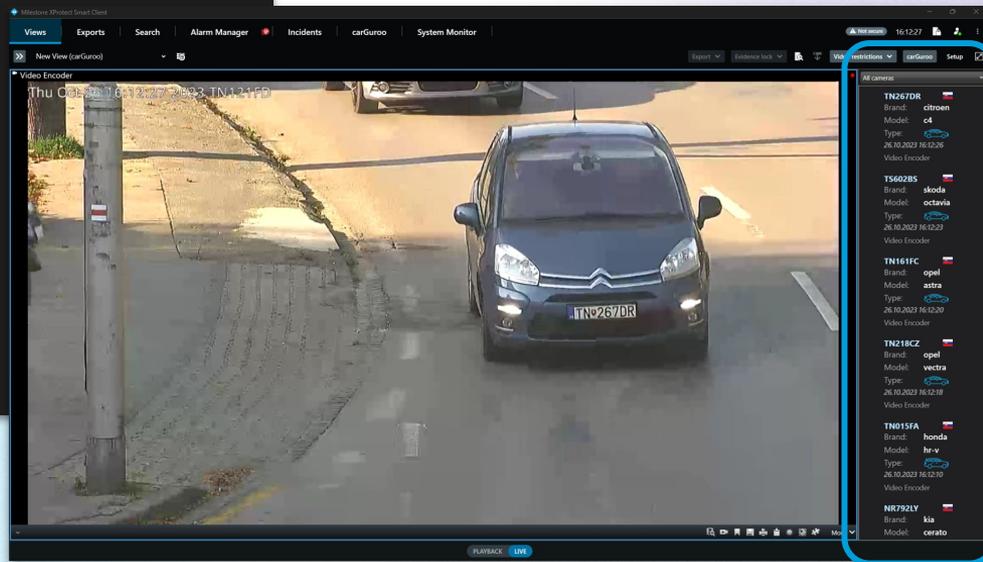
The screenshot shows the Milestone XProtect Smart Client interface. The top navigation bar includes Views, Exports, Search, Alarm Manager, Incidents, carGuroo (selected), and System Monitor. The carGuroo search results table is displayed with columns: Date/Time, License Plate, Country, Make, Model, Type, List, and LPR Camera. A blue arrow points to the 'Export' button in the table's header, which has a dropdown menu with options for 'csv' and 'pdf'. To the right of the table, a detailed view of a car is shown, including its license plate (NAUEN 909), date/time (25.10.2023 22:57:37), country (Germany), make (toyota), and model (rav4).

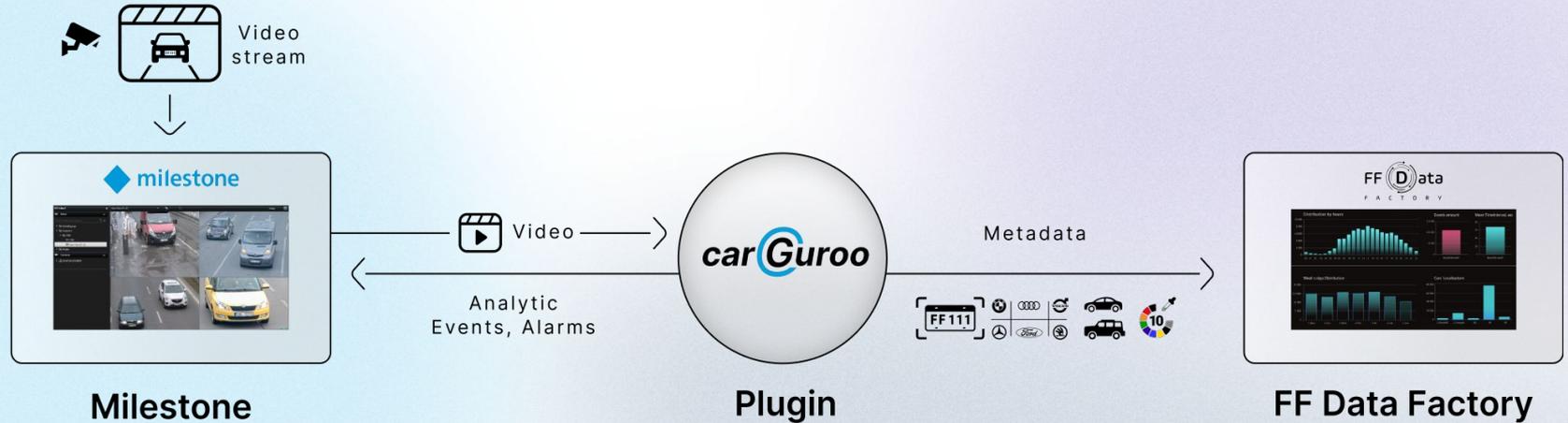
Date/Time	License Plate	Country	Make	Model	Type	List	LPR Camera
25.10.2023 22:58:07	NAURS212	DEU	hyundai	elantra		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:58:04	NAUEN909	DEU	toyota	rav4		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:58:04	NAURS212	DEU	jeep	cherokee/grand_ch		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:57:42	NAURS212	DEU	jeep	cherokee/grand_ch		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:57:37	NAUEN909	DEU	toyota	rav4		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:57:24	NAURS212	DEU	jeep	cherokee/grand_ch		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:57:14	NAUEN909	DEU	toyota	rav4		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:56:54	NAURS212	DEU	jeep	cherokee/grand_ch		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:56:54	NAUEN909	DEU	toyota	rav4		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:56:27	NAURS212	DEU	nissan	altima/maximalsent		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1
25.10.2023 22:56:22	NAUEN909	DEU	toyota	rav4		GERMANY	AXIS P1368-E Network Camera (10.0.3.168) - Camera 1

- You can export results and choose export format from csv and pdf



- In the Smart Client's "View" tab create a custom "carGuroo" view in order to see live camera and live recognition events





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