





# VEZHA

# User Guide for Traffic Analytics Plugin





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#### **VEZHA Traffic Analytics Plugin Description**

**VEZHA Traffic Analytics Plugin** determines the level of traffic on the roadway, sidewalks for cars and pedestrians, as well as the intensity of movement of people in the mall.

#### **1. Traffic Analytics Plugin Installation**

1. Launch the installer by double-clicking on the downloaded file VEZHA\_Traffic-Analytics\_Setup.

2. In the window that opens, select the language that will be used during the installation process. To go further, click **OK**. To abort the installation, click **Cancel**.

Select S	Setup Language X
۲	Select the language to use during the installation.
	English ~
	OK Cancel

3. B In the new window, read the installation recommendations and click **Next** to continue the installation, or the **Cancel** button to abort the installation.







4. In the **Select Destination Location** window using the **Browse** button, specify the location where you want to install the plugin. The plugin must be installed in the Milestone folder with other plugins. After selecting the desired folder, click **Next** to continue the installation or **Cancel** to abort the installation.

Setup - VEZHA Traffic Analytics	_		×
Select Destination Location Where should VEZHA Traffic Analytics be installed?			vęźijy
Setup will install VEZHA Traffic Analytics into the following t	folder.		
To continue, click Next. If you would like to select a different folder,	click Br	owse.	
C: \Program Files \Milestone \MIPPlugins \VEZHA Traffic Analytics	В	rowse	
At least 11,9 MB of free disk space is required.			
< Back Nex	:t >	Ca	incel

5. In this window, for the program to work correctly, you need to fill in all the fields correctly and click **Next** to continue the installation or **Cancel** to abort the installation.

Setup - VEZHA Traffic Analytics		_	×
			vęzyv
Host:			
Milestone server address:			
	< Back No	ext >	Cancel





6. Click "**Install**" to start the installation.

Setup - VEZHA Traffic Analytics —		×
Ready to Install Setup is now ready to begin installing VEZHA Traffic Analytics on your compute	er.	vę́zӈ̀v
Click Install to continue with the installation, or click Back if you want to review change any settings.	or	
Destination location: C:\Program Files\Milestone\MIPPlugins\VEZHA Traffic Analytics		~
<	>	
< Back Install	С	ancel

7. After the installation is completed, click **Finish.** 







### 2. Log In

To enter the system you need to go through authorization. To do this, enter the **Login** and **Password** in the appropriate fields of the modal window and click **Login**.

Authorization	
Login	
Password	
Sign in	

#### 3. Settings

In order to find **VEZHA Traffic Analytics** settings, click the icon in the upper right corner of the screen. Select and click **Settings**. In the window that opens, select the **VEZHA Traffic Analytics**.





Settings		-			×
Timeline	Host	192.168.0.53			
Export	Port	2001			
Carach	Portal	2001			
Search	Websocket port	2081			
Joystick	Milestone video server address	192.168.0.248			
Keyboard	Language	English			•
Access Control				Арр	ly
Alarm					
VEZHA ALPR					
VEZHA Face Recognition					
VEZHA Hard hats					
VEZHAObjectDetection					
VEZHA Traffic Analytics					
Advanced					
Language					
Help			[	Clos	se

To change the server settings in the **VEZHA Traffic Analytics** tab, you can edit the following fields: **Host, Port, Portal, Websocket port, Milestone video server address**.

To change the language, use the **Language** field and select from the list the most convenient for you.

To save the changes, click **Apply** and restart the plugin.

#### 4. Traffic Analytics

This tab is intended for adding, editing, viewing, deleting and changing the status of analytics.

Analytics Sta					
Traffic	analytics				
Camera	Status				
	All	Search Reset		Add	analytics
ID	Status	Camera			
274	Stopped	Serioga face			×
147	Stopped	Axis camera	Edit	Start	×
146	Stopped	Номера Зупинка Лісопарк 2	Edit		×
145	Stopped	Универмаг парковка	Edit		
144	Stopped	Номера Зупинка Лісопарк		Start	
131	Stopped	Cam4	Edit	Start	×





#### 4.1. Analytics Search

At the top of the screen are located search fields.

Traffic analytics			
Camera	Status		
	All	Search	Reset
		1	

To find the desired analytics, enter the name or status of the analytics. To start the search, click the **Search** button. To clear the search fields click **Reset**.

#### 4.2. Adding of analytics

To add new traffic analytics, click **Add analytics** in the upper right corner of the screen. In the window that opens, fill in the fields:



Field name	Recommended Value
Stream	Click on the field and select a camera name from the drop-down list. The video stream will be used to create analytics.
Type of Object	Select the type of object (person or vehicle) to track traffic.





Add lines to the workspace. This feature allows you to track traffic objects. To add a line you need:

- 1. Add a camera into a field **Video Stream** A video from the added camera will appear below the **Video Stream** field.
- 2. Add a line. In way to add a line:
- Click on any point in the area where the video stream is located.
- Click on another point again, after which a line will appear.
- In order to add another line, repeat the points above.
- Added lines are fixed in the fields on the right.
- To delete a line, mouse over the field with the desired line and click on the delete icon in the line block.

You can track the traffic of two types of objects: vehicles and persons.

In order to track vehicle traffic, select the object type **Transport**.

In order to select the necessary type of transport, go to the added line and tick (bicycle, car, motorbike, bus, truck).

- 1. Enter a convenient name for the line in order to know its purpose (the line counts the traffic of such objects).
- 2. To indicate the direction in which vehicles will be locked, click **Direction**. After clicking, in the work area, on the line, an arrow will appear that indicates the direction of movement.

To change the direction of travel, click Direction again.

Click Save to save your changes.

In way to edit video steam click **I** right of the videostream. In way to create new video stream click **Add videostream**.





Adding videostream			-		×
Name	Cam 4				
Login	login2				
Password	***				
Camera	AXIS P1375-E Network Came	era (192.168.0.148) -	Камера 4	1	
Camera address					
Lizy Chaikinoi St, 33, Vinnytsi	a, Vinnyts'ka oblast, Ukrair	ne, 21000			
49.2249809862004	28.4	327920429916			
Camera direction		521520425510			
\ \		25			
Map Satellite	26 iBox		<b>1</b> 90		3
Car accessories store	9	i lataka Str	eet		-
Карацька	Keletska Street	Liali Ratush	noi St	45	Lya
вулиця келецена		вул. Лялі Рат	ушног	92	li Rati
Gas station	<b>Q</b> 28a			94	Jshno
	Secret de Beau Beauty salon	31 31			i St
	28a	33		96	
		Ayle		98	
Fortuna-Avto		35 Am		100	yali H
		28 05 37		100	alus
		39		16	
	40			104	
				11	+
	32	41 43			_
Google	100	34		10	8
	4	4 Map data ©20	20 Google	Terms	ofUse
				Ар	ply

In the opened window fill the next fields:

a. **Name** - enter the name of the video stream in the field. This field will be displayed in all components of the program that use video streams.

- b. **Login** enter the name of the current user in the field Milestone.
- c. **Password** enter the password of the current user Milestone.
- d. **Camera** choose a camera from the drop-down list.

e. **Camera address** - enter the address in the field, or select on the map below the location of the camera (drag the camera icon). The system will automatically determine the location coordinates.

f. **Camera direction** - drag the slider to change the direction of the camera. Indication of camera rotation helps in determining the direction of movement of a person.

In way to save changes click **Apply**.

In way to create analytics click Save.

#### 4.3 Editing, changing status, viewing and deleting a video stream

To edit analytics, click the Edit button on the right side of the entry.





In the window that opens, fill the fields:



Field name	Recommended value
Type of object	Select the type of object (person or vehicle) to track traffic
Recognition options	Parameters used for recognition of selected objects.

To add a line:

- Click on any point in the area where the video stream is located.
- Click on another point again, after which a line will appear.
- In order to add another line, repeat the points above.
- Added lines are fixed in the fields on the right.
- To delete a line, mouse over the field with the desired line and click on the delete icon in the line block.

Click Save, in way to save changes.







In way to create analytics click **Save.** To start or stop analytics click **Start/Stop.** 



To delete analytics click delete icon

To view analytics click view icon

#### **5.Traffic Statistics**

To work with traffic statistics, go to the statistics tab.







Traffic recognition statistics is developed to generate and create reports on the number of vehicles and people for the period.

In order to filter vehicle recognition statistics, it is necessary:

1. Choose a period of time for which statistics will be generated.

To select a period, one of the values is indicated: today, yesterday, the last 30 days, this month, the previous month, a manually selected period (using the calendar you can specify the range of days and time).

Today	26-03-2020 00:00:00						26-03-2020 23:59:59							
Yesterday			Mar	ch 2	020		Þ	•		Mar	ch 2	020		►
Last 7 days	Мо	Tu	We	Th	Fr	Sa	Su	Мо	Tu	We	Th	Fr	Sa	Su
Last 30 days	24	25	26	27	28	29	1	24	25	26	27	28	29	1
	2	3	4	5	6	7	8	2	3	4	5	6	7	8
Current month	9	10	11	12	13	14	15	9	10	11	12	13	14	15
Previous month	16	17	18	19	20	21	22	16	17	18	19	20	21	22
	23	24	25	26	27	28	29	23	24	25	26	27	28	29
Period	30	31	1	2	3	4	5	30	31	1	2	3	4	5
Accept Cancel					9:35	AM	÷ ľ					9:35	AM	<b>⊋</b> ĭ

2. Select the camera with which the video stream is taken. You can select **All cameras**, or you can select a specific camera.

Camera		
All		Ŧ
All		
Serioga fac	e	
Axis camer	а	
Номера Зу	/пинка Лісопарк 2	
Универма	г парковка	
Номера Зу	/пинка Лісопарк	
Cam4		
Немиров		
Номера Зу	линка Лісопарк 2	
Номера Зу	линка Лісопарк	
Универма	г парковка	
Cam4		
ЗД Вокзал		
Номера Зу	/пинка Лісопарк	
Немирівсь	ке шосе	
Office Dah	ua (8MP)	
Axis camer	а	
Office Dah	ua (8MP)	





2. Click the Search button.



4. To upload reports we use the option to upload a report.



To see statistics by hours, days, weeks, months, select the appropriate tab.





In the **Days**, **Weeks**, **Months** tabs, you can remove unnecessary elements from the chart by clicking on the name of the object under the chart or under the pie chart.





## About VEZHA:

Our mission is to create a safe environment for residents of cities of all sizes and to help Ukrainian businesses optimize their security and safety management processes.

For more information visit: https://vezha.io/



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