TRAFFIC**SCANNER**

User manual

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Introduction

Traffic Scanner is a software produced by Infoproget Srl that udeals with reading and recognition of vehicle license plates.

Traffic Scanner allows the notification of alarms and the use of reporting lists. It allows access to external databases for real-time checking of license plate status

It provides statistical data analysis of the vehicles transporting dangerous goods, traffic distribution, temporal analysis, territorial analysis for the origin/destination of the traffic and identification by vehicle categories.

This manual is intended to be a detailed guide on the main operations carried out during the daily use of the software and is therefore reserved for operating personnel.

<u>Login</u>

First of all, access the Traffic Scanner system via the http://IP_address of the server
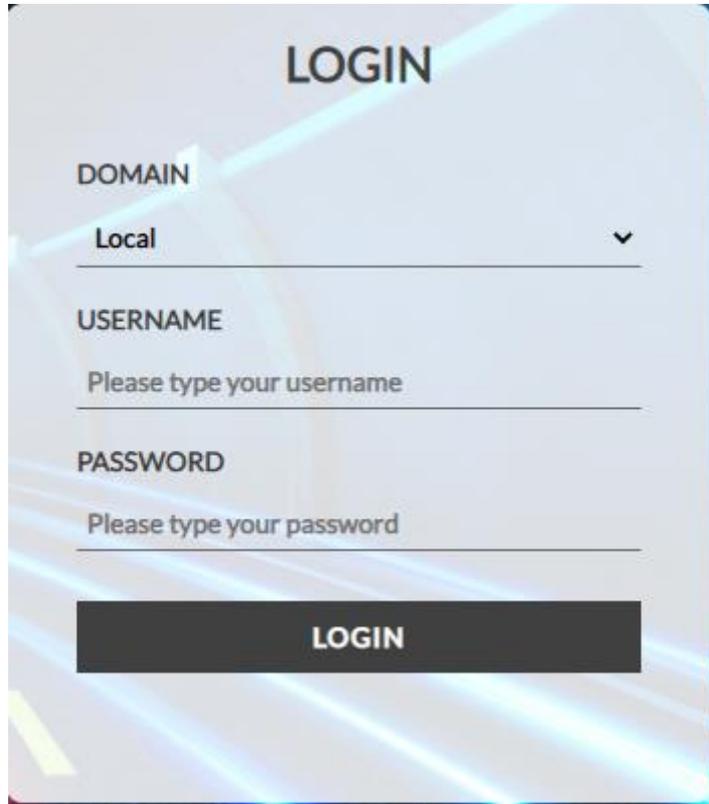
Enter your login credentials to log in to the system.

Map

The first screen displayed is the Map of the area where the license plate reading cameras have been installed.

On the left side of the screen is the menu with the purchased Traffic Scanner features.

This list may change based on the viewing permissions of the connected user and the modules installed on the system.
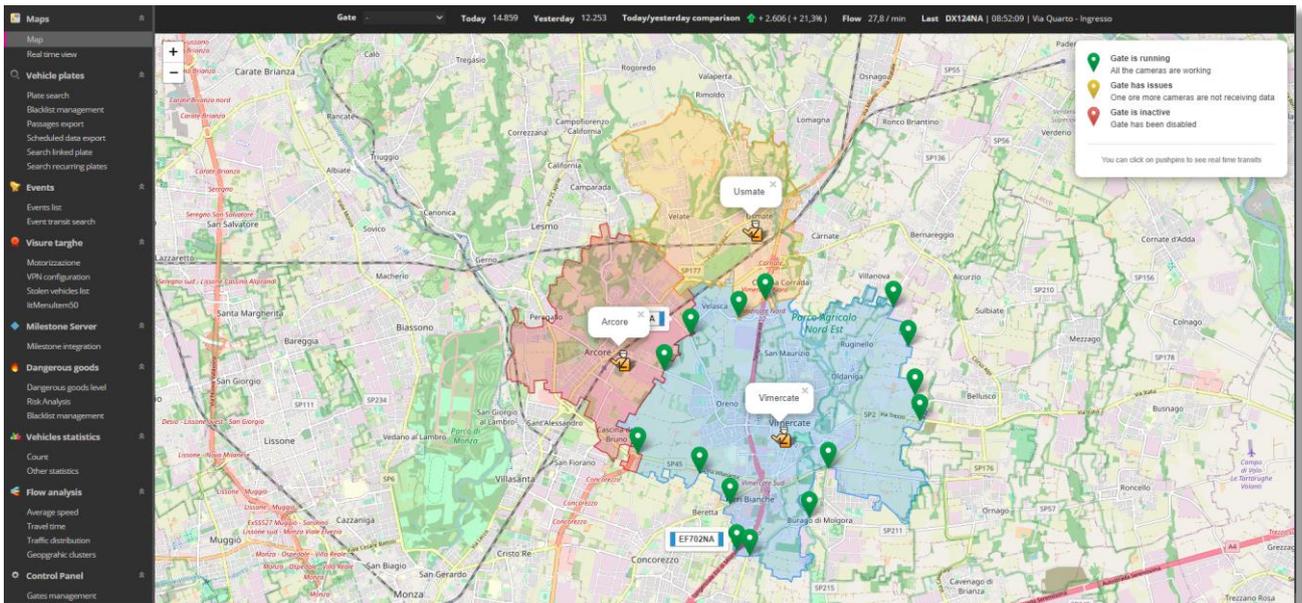
Below is the analysis of all the main menus that the operator can have access to in Traffic Scanner

Real Time View

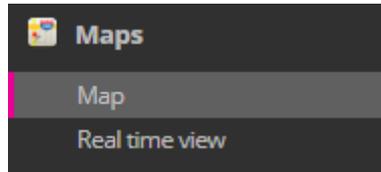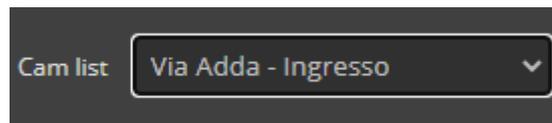Using the *Real-time view* menu, it is possible to monitor the images for each passage at the same time as they are received by the server.

On the screen you have two choices:

The Cam List (The default is all gates)

And the type of image. The choice is between IR (infrared, night vision) or CTX (color context)

The image of the passages will appear on the screen with the name of the gate at the top, in the part below appears the License plate image/no., the date and the time of the passage.
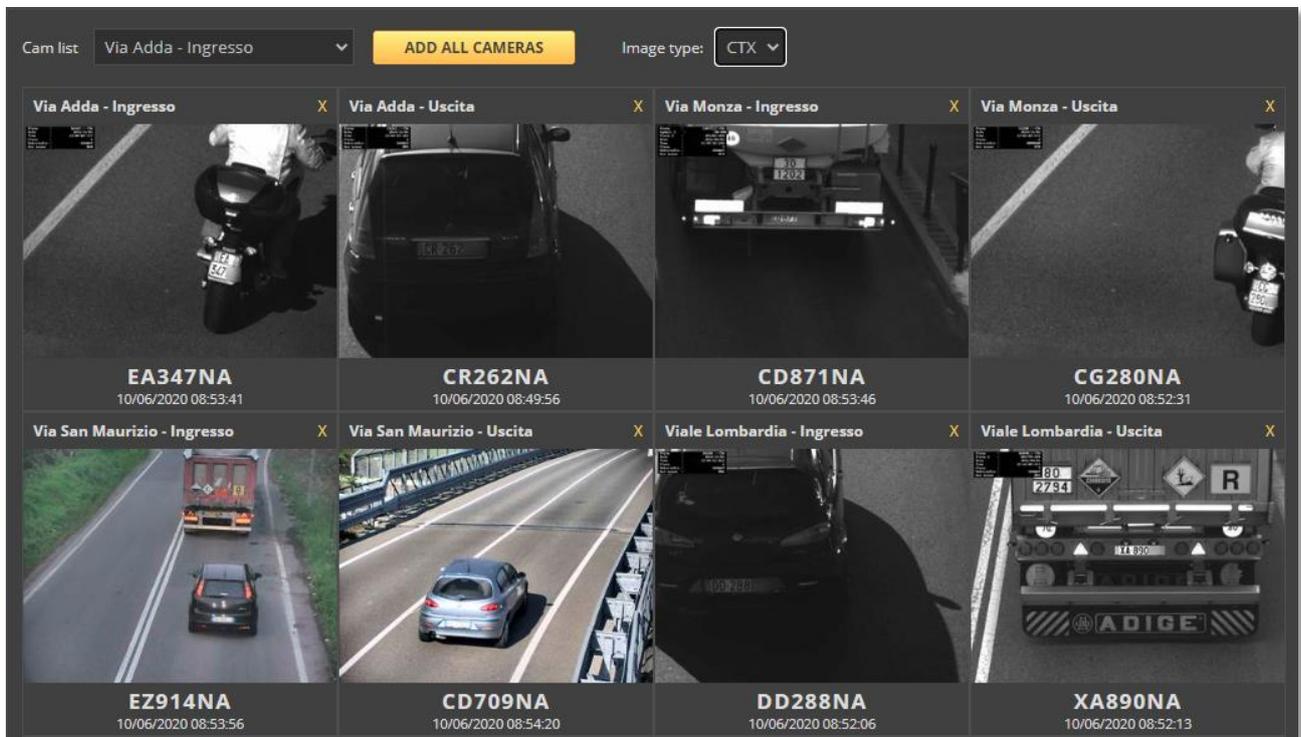
Also in the *License Plate Search* menu it is possible to access the real-time display as we will see in the following paragraph.
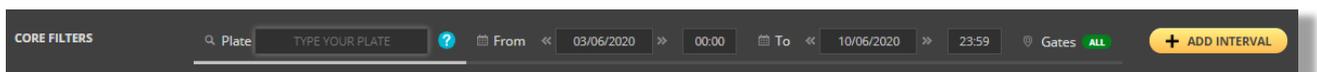
License Plate Search

Using the *License Plate Search* item in the *Vehicle Plates* menu it is possible to search for all the transits coming from the different gates. It is possible to change the display type, filter the results and check the details by single transit and by single plate.
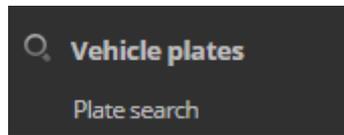
Core Filters

Starting from the upper part of the screen you can search by single plate, set a time filter and select which Gates to include in the searching process.

License Plate number

In this section is possible to insert a complete license plate no. or part of it or use wildcards if the complete plate number is not known. For the options allowed click on the question mark next to the plate insertion field
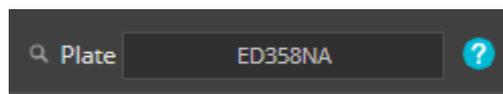
Time interval

For the time interval filter click on the From -> To fields and select the days from the calendar
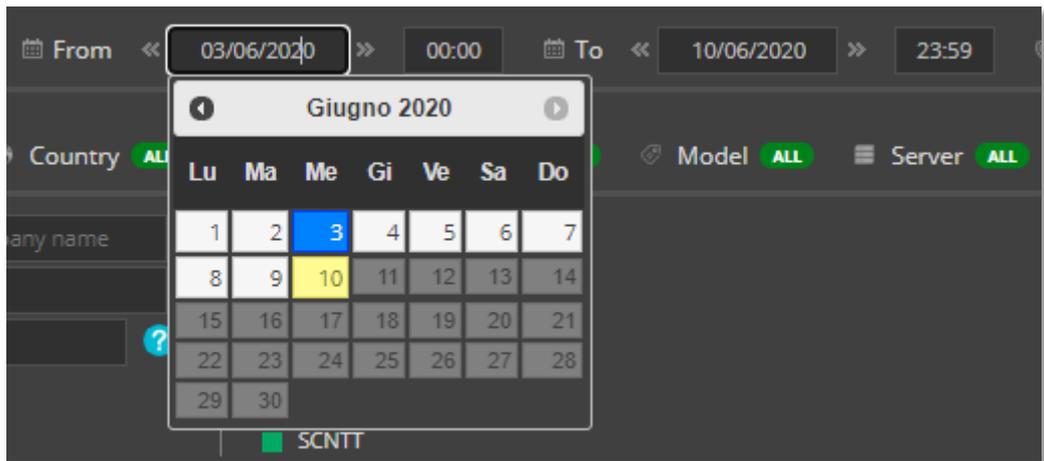
If you also want to insert a Time filter, click on the time field and choose it from the appearing clock

Gate selection

To select one or more gates, move the mouse over the word *Gates* to bring up the selection screen: you can select one or more gates. Leaving the default setting all gates are selected
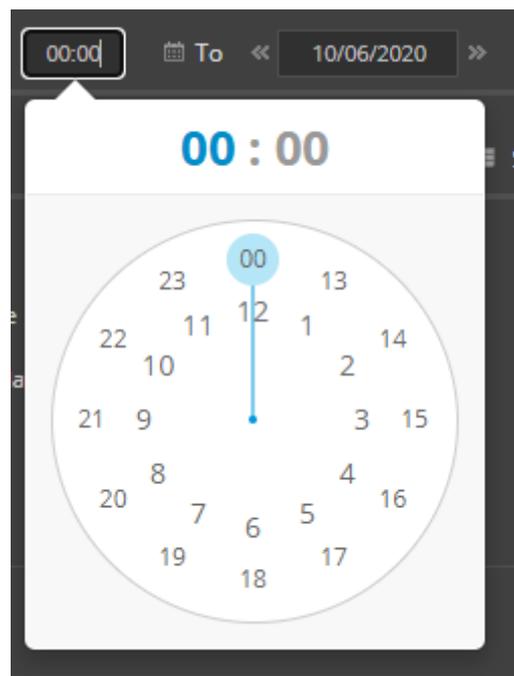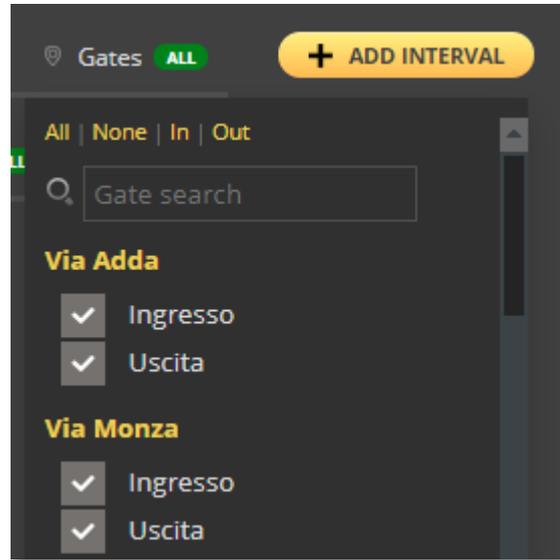

Click on the button to confirm the just inserted filter

Intervals

An important novelty of the new search screen is the ability to insert multiple time interval filters that will be applied simultaneously during the searching process.

In this section you see a summary of the filter just chosen from the *Main Filters* section:
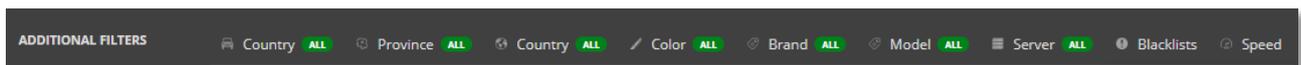
Intervals	Plate	From	To	Gates	Remove all
	ED358NA	03/06/20 00:00:00	10/06/20 23:59:00	All	Remove

In the following example there are two distinct filters for searching all the license plates that begins with the letters "ED" on february 20th and 22th on all the gates:

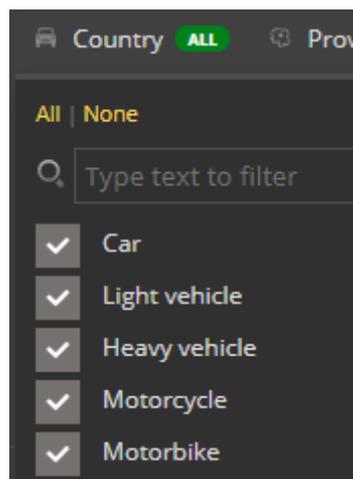|	Plate	From	To	Gates	Remove all
Intervals	ED358NA	03/06/20 00:00:00	10/06/20 23:59:00	All	Remove
	ED358NA	09/06/20 00:00:00	10/06/20 23:59:00	All	Remove

Additional filters

You can insert additional filters to improve your search through the Secondary Filters section.

ADDITIONAL FILTERS   🚗 Country **ALL**   ⊙ Province **ALL**   🌐 Country **ALL**   ✏ Color **ALL**   ⊘ Brand **ALL**   ⊘ Model **ALL**   ▤ Server **ALL**   ❶ Blacklists   ⊘ Speed

In particular you can select:

- The vehicle class

🚗 Country **ALL**   ⊙ Prov

All | None

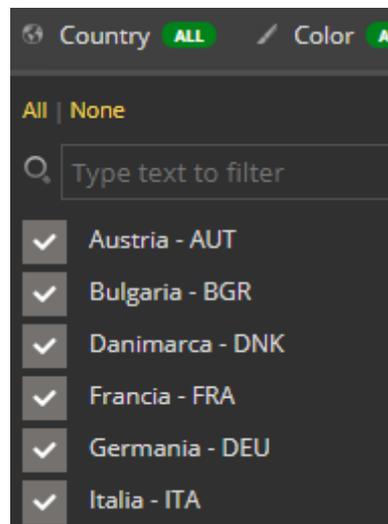🔍 Type text to filter

✔ Car
✔ Light vehicle
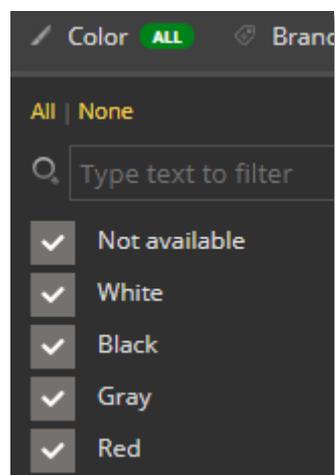✔ Heavy vehicle
✔ Motorcycle
✔ Motorbike
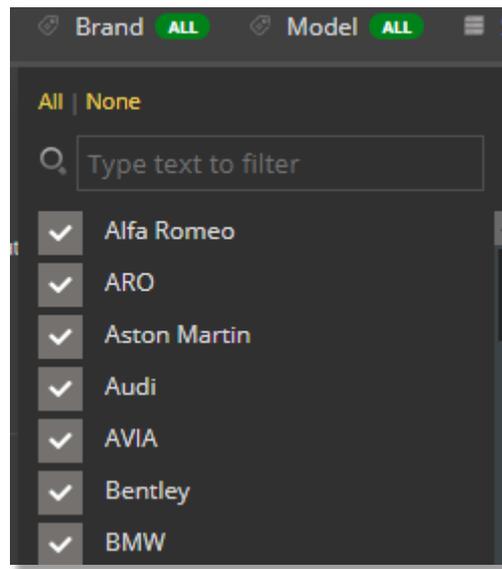
- The Registration Province
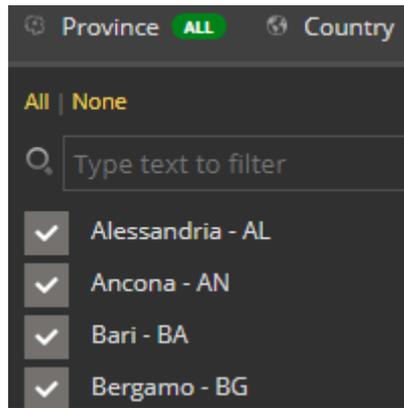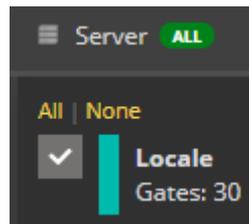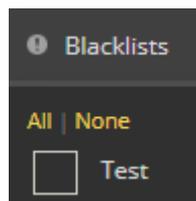

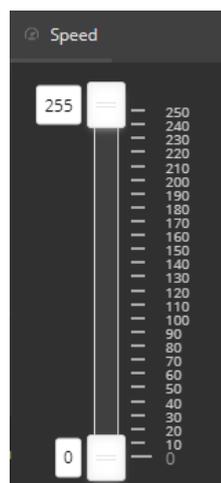- The registration Country

- The color

- The Manufacturer

- Other Traffic Scanner servers federated with your own one

- Only the plate no. contained in one or more blacklist

- A speed range interval

Advanced filters

It is possible to filter the transits also using:

- The registered owner of the vehicle (feature available only in Italy)
- Type of dangerous goods transported
- List the vehicles that have made at least a certain number of passages on the same couple of gates.

Search

Once all the choices have been made to set up the search, we have the following buttons available:

Through the Search button you will start the search procedure which will follow the filters set previously.

Through the Reset Filters button you'll reset all the choices previously made in order to insert new filters.

View Type

Below the search filters you have the opportunity to choose two different display modes
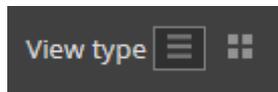
The sorting mode allows you to see all the transit details on a single row

Or the Preview mode which will display fewer details giving priority to the vehicle images:
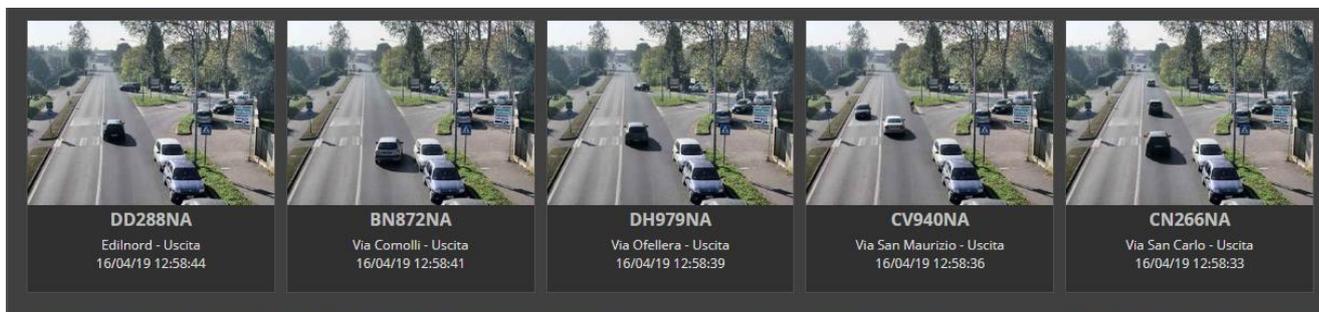
Choosing this second mode will also enable a Picture size menu through which you can vary the size of the images shown, according to the screen resolution
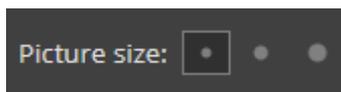
On the right side of the screen you can choose how many results should be displayed on a single page

To complete the Display menu, you can activate or deactivate the Real Time mode which allows you to see the transits as they are received by the cameras.

Export

In this section has also been added the possibility to export the results of the search carried out via the button to a ZIP file

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By clicking on the link the file will be generated (the timing depends on the amount of data searched) and at the end the following screen will appear:
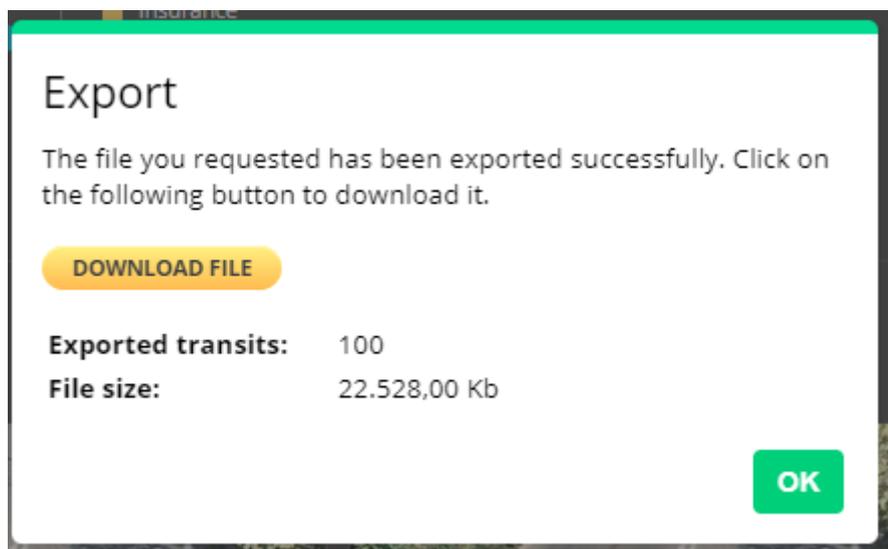
By clicking on *Download* File it will be possible to download the research just carried out.

The screen also shows the number of transits and the size of the file.

Search results

Once the filters and the type of visualization have been chosen, the search results will appear:

In addition to showing the plate, the plate image, the date and time of the passage and the passage in which the transit was detected, further information is reported.

The Anomalies column will report, if necessary, one or more colored squares based on the type of alarm highlighted:

The *Revision* and *Insurance* columns will report further evidence of the anomaly found:

The following informations are also reported:

- Euro pollution class
- Registration year
- Registration Province
- Registration Country
- ADR code
- Speed detected
- Color
- Brand
- Model

Euro class	Reg. year	Province	Country	ADR	Speed	Color	Brand and model
2	1999	MI	ITA		78	⬤	VW Polo
		EE	BGR		47	⬤	Dacia Lodgy
4	2006	CN	ITA		42	⬤	VW
3	2005	CR	ITA		52	⬤	Peugeot 206

By the ⌕ button you get access to the *Transit Details* sub menu.

By positioning on the same button without clicking on it, a preview image of the vehicle will be shown.

Transit Details

In the new page that opens you will get the following information:

- Plate crop image

- Transit details

- Map with the position of the selected transit
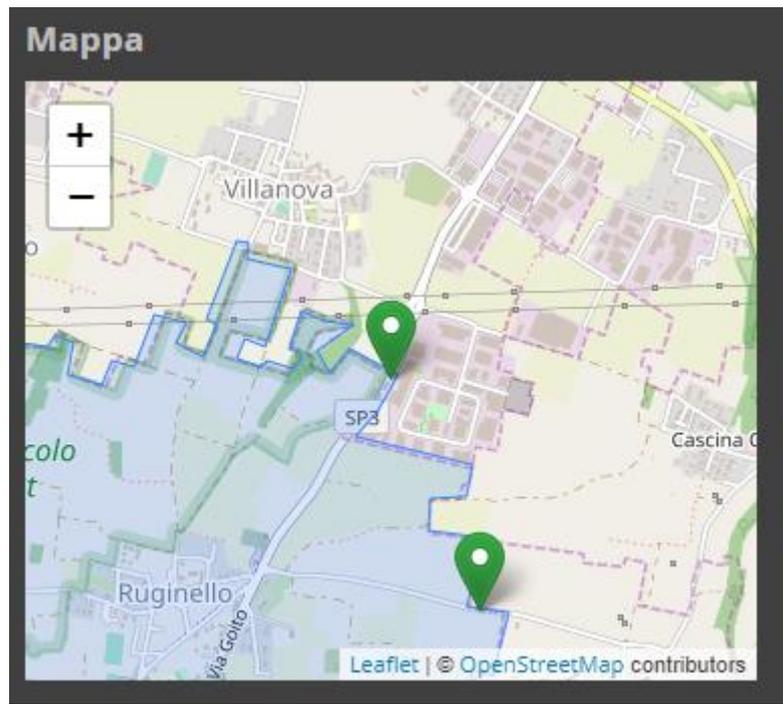
- Server on which the transit was detected. If there are different servers federated with each other
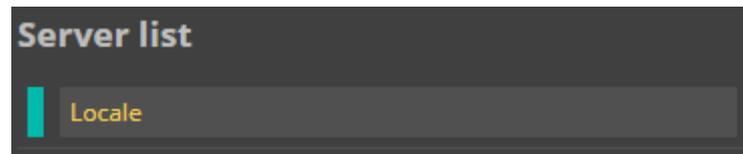
- List of transits made from the same plate with indication of the time, the passage and the time difference compared to the previous transit

- On the right you can view the context image (in color) and the infrared image. Here will be displayed one or two images, depending on the camera model
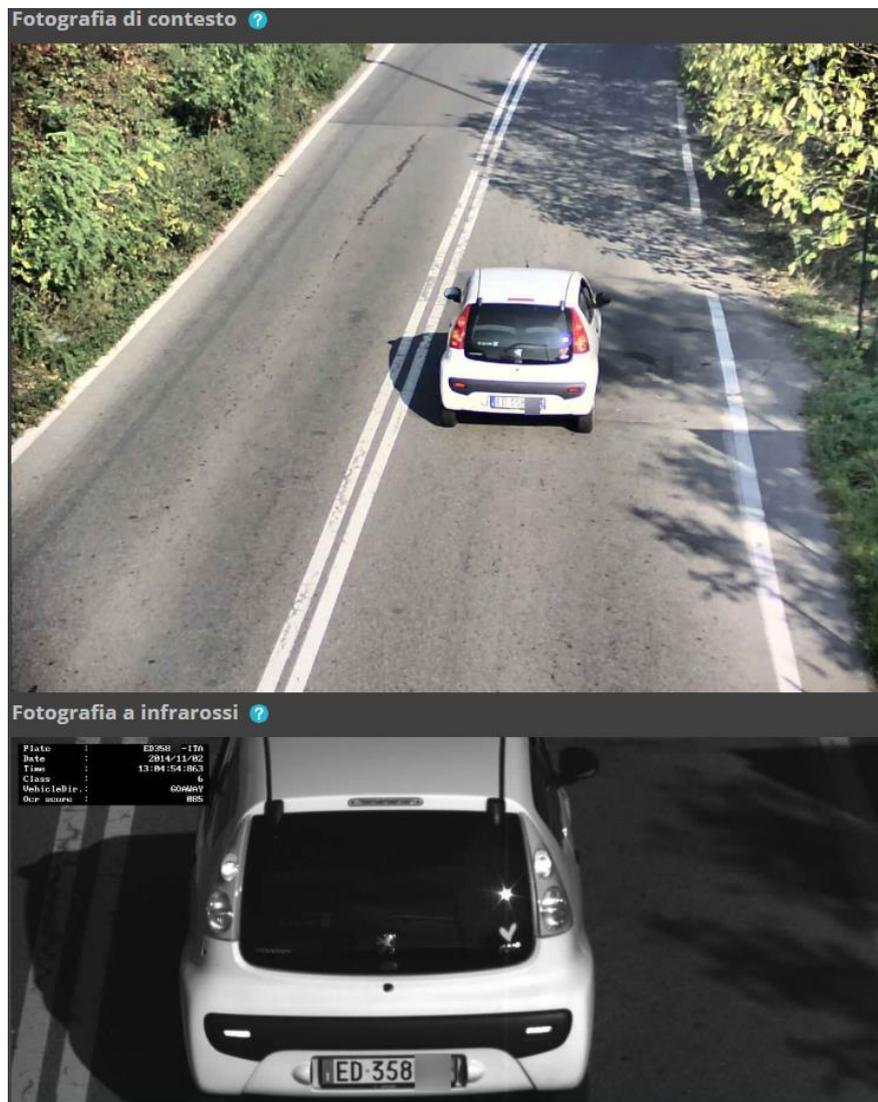
In *Preview* mode, you can view the same data by clicking on the image of the transit.

Black list

In Traffic Scanner it is possible to create many black lists which includes all the plates you want to get an alert from.

From the left menu select the item *Blacklist Management*
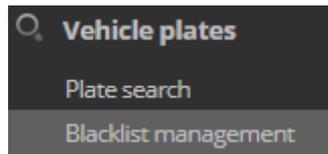
Here you can create one or multiple Blacklists
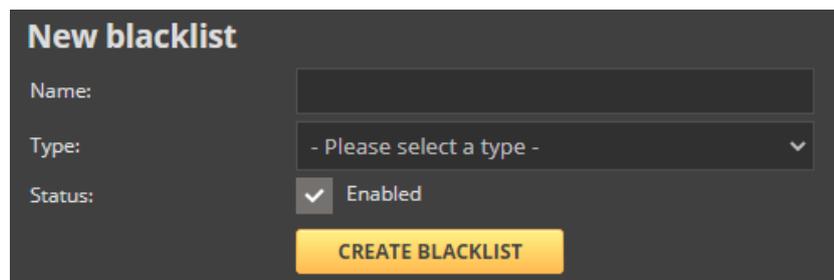
Enter the name of the list, choose the type from the Type drop-down list among the following options

- **Private:** the list will be visible only to the owner
- **Shared:** the list will be visible to the owner and to other users selected by the owner itself

The Status shows if the list is active or not.

Clicking on the button **Crea blacklist** the blacklist will be cteated
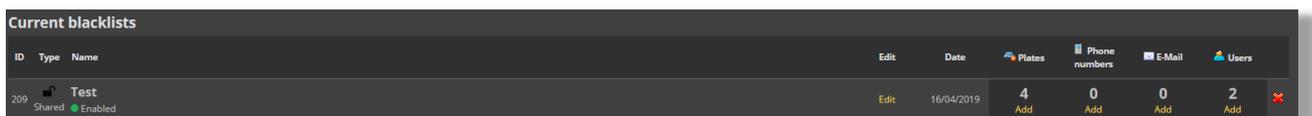
Once the blacklist has been created you can manage the license plate number insertion, the mobile phone numbers to send to the sms, the email addresses to sens the emails to and the users who can view or modify the list if we have chosen "Shared".

Add Plates

Clicking on the *Add* button under the Plates column you access to the *Add plates* menu
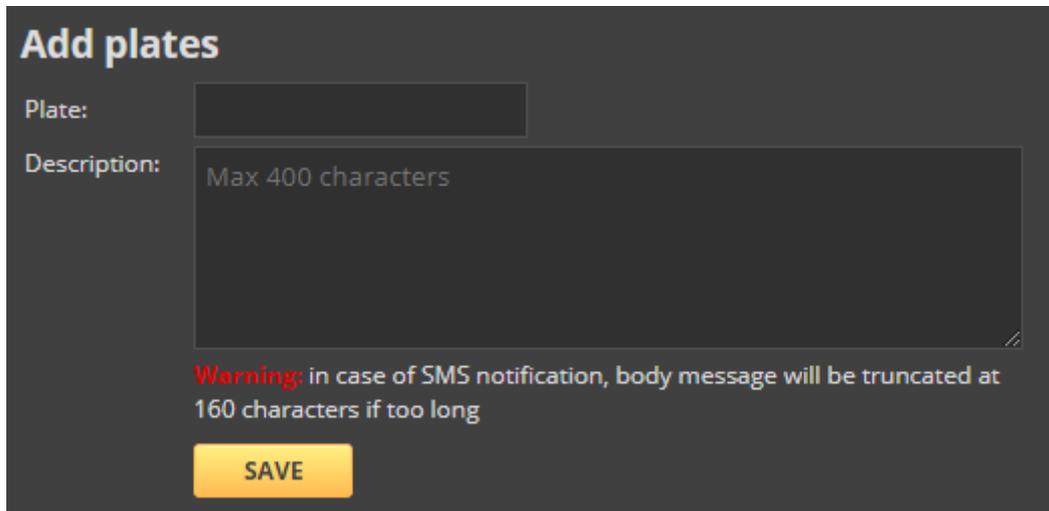
By inserting the plate and the description and clicking on the *Save* button, we will add a plate to the list. This will be reported in the License Plate List
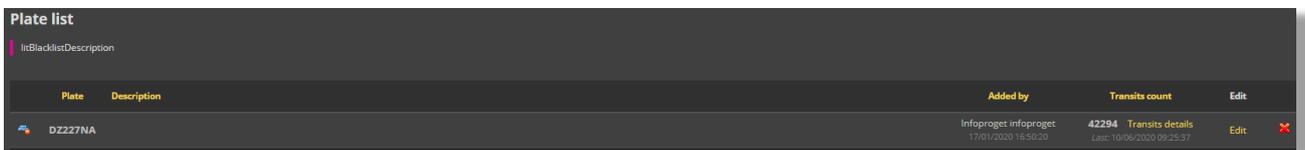
From this screen it is also possible to delete a plate by clicking on

Once inserted all the plates, click to return to the previous screen

Add mobile phone numbers

By clicking on the *Add* button under the Telephone Numbers heading

It is possible to display the screen for entering the telephone numbers to which to send the SMS (possible only in the presence of a router with the sending sms feature enabled)

From *Country* select the correct international setting (+39 for Italy)

Insert the *Prefix* and the *Phone Number*

Click on the *Add* button. This number will be inserted in the Phone Numbers List

To delete an entry simply click on the *Delete* link

Once you have finished entering the phone numbers, click on
to return to the previous screen.

Add email

Click on the Add button under Email

Click on the *Add* button to insert an email address into the notification list.
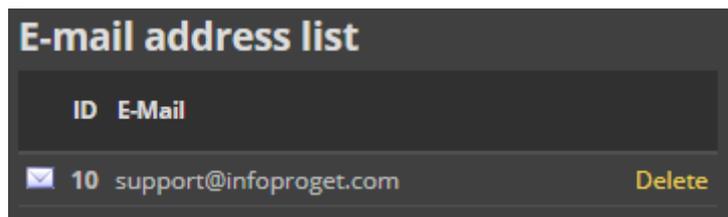
To delete an email address simply click on the *Delete* link

Once you have finished entering the list, click on   to return to the previous screen.

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Add users

If you have chosen the creation of a Shared blacklist, click on the *Add* button under the Users item to choose who to share the report list with
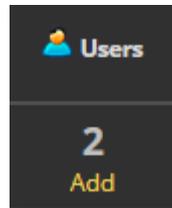
By accessing the user entry screen

You will have to choose the user among those already included in the Traffic Scanner

And permission to read and / or write

The inserted user will be reported in the *User list*

To delete a user simply click on the *Delete* link

Once you have finished entering the list, click on   to return to
the previous screen.

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To delete an entire blacklistclick on the icon from the *Current Blacklist.*

Import plates no. from CSV

It is also possible to import the plates to be included in a blacklists via csv file. To do this, move to the section

CSV Import (Plates and phone numbers)

Click on the link

Show CSV import guide

To check the creation details of the csv file, so that it can be read correctly by Traffic Scanner.

Details that we report below:

The file you're importing should be formatted as .csv. Here you can find an example

Blacklist ID;Plate;Phone Number
1;AB123CD;+391234567000
2;CZ245NK;+391234567111
3;NT353WW;+391234567222

Row 1: header line, will be ignored during import
Row 2: plate **AB123CD** will be imported in blacklist with ID **1**, notifications will be delivered to phone number **+391234567000**
Row 3: plate **CZ245NK** will be imported in blacklist with ID **2**, notifications will be delivered to phone number **+391234567000**
Row 4: plate **NT335WW** will be imported in blacklist with ID **3**, notifications will be delivered to phone number **+391234567000**

You can find the Blacklist **ID** looking above at current blacklists table, under the first column labeled **ID**. Please follow this procedure:

1st step Create a new blacklist
2nd step Map/assign blacklists IDs using Excel or editing CSV File
3rd step Do CSV file import

Once the file has been created, select it using the *Choose file* button and then on the *Upload* button to insert it into the system.

Scegli file Nessun file selezionato UPLOAD

Passages Export

Using the Passages Export menu, it is possible to extract the values, and possibly also the images, of the passages for one or more gates in a pre-established period.
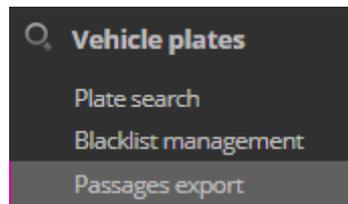
In the main part of the screen it is possible to select pre-established time periods, by means of convenient presets, by clicking directly on the corresponding item
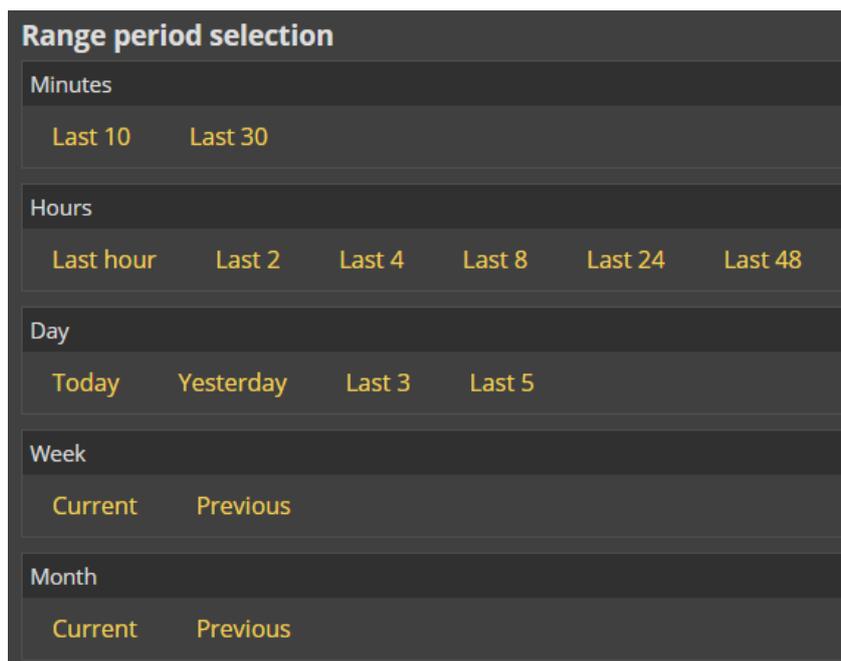
Or directly select the date and time from the appropriate section on the right side of the screen

It is also possible to select one or more gates from the menu on the right side of the screen just as in the License Plate Search menu already illustrated above:

By changing the choice of gates and the time period, the number of passages that will be exported will be indicated in the Transits section available for export

Finally, to proceed with the export, you must choose the format from the following items:

If the CSV choice is selected, only the metadata, that is the details of each step, will be exported.

If the ZIP choice is selected, both the metadata and the images of each transit will be exported.

By clicking on the chosen format, a link will be created to download the corresponding file.

In the case of the ZIP file, unzip the file into a folder. An images folder and an index.html file will be created
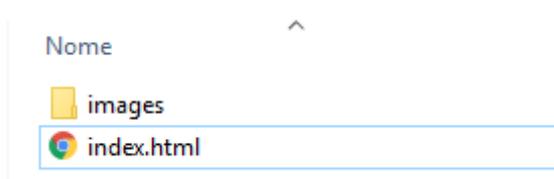
Clicking on the Index.html file will open an internet page where you can consult the details of the individual steps including infrared (IR button) or context images (CTX button)

Infoproget Traffic Scanner
Esportazione transiti Brugherio

ID Passaggio	Targa	Data	Varco	Luogo	ID Varco	Stato	Ocr Score	Provincia	Velocità	
118156985	BB672	19/04/2019 15:16:00	Viale Lombardia	Ingresso	7	ITA	74	TO	44	IR CTX
118156986	DR410	19/04/2019 15:16:01	Via San Maurizio	Ingresso	5	ITA	82	BS	60	IR CTX
118156987	DM812	19/04/2019 15:16:04	Via dei Mille	Ingresso	13	DNK	85	EE	63	IR CTX
118156988	BZ357	19/04/2019 15:16:06	Via San Maurizio	Ingresso	5	ITA	87	CA	69	IR CTX
118156989	DB786	19/04/2019 15:16:07	Via Guzzina	Uscita	10	ITA	82	CN	46	IR CTX
118156990	CR262	19/04/2019 15:16:10	Via San Carlo	Ingresso	19	ITA	85	TO	47	IR CTX

Suspicious plate search

Using the Search linked plate menu, it is possible to check whether, when a license plate passes, there are vehicles that follow or precede it with a certain occurrence within a defined time frame. This method of analysis was designed to identify means that exhibit anomalous displacement patterns.
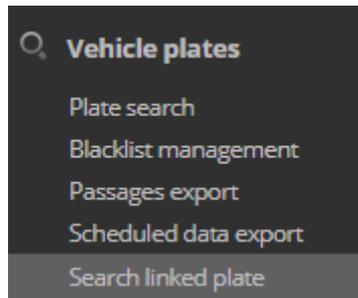
With this module it is possible to derive which vehicles pass with a certain diligence together with a vehicle that is being observed and whose license plate number is known to investigators. Some parameters are inserted in the report to determine the following analysis logics:

Filters

First of all we must select the time filter, in the right part of the screen you can choose from:
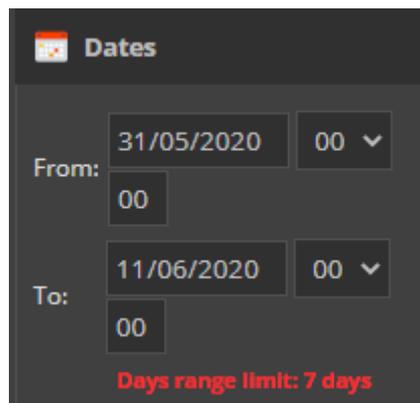
License plate, minimum treshold of passages and previous and subsequent time interval to be considered by the search algorithm

Gates selection

Once the filters have been selected, click on

The search result will show:

- The license plete numbers found
- Number of the passages
- First transit date&time
- Last transit date&time

Search linked plate

Plate	N°	Transits	First transit	Last transit	Exclude
⊞ ZA130NA	302		05/06/2020 06:18:34	08/06/2020 00:22:59	☐
⊞ EJ185NA	210		05/06/2020 06:51:09	07/06/2020 23:10:12	☐
⊞ DJ963NA	202		05/06/2020 05:31:42	08/06/2020 00:24:38	☐
⊞ DD153NA	202		05/06/2020 09:19:15	07/06/2020 23:25:12	☐
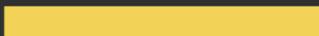
There is also the possibility to exclude a passage or to view the details and the photo of each passage for each single plate by clicking on the ⊞

Immagine Targa	Data e Ora	Gate and direction	Foto
EJ 185	05/06/2020 06:51:09	Via Adda - Ingresso	🔍
EJ 185	05/06/2020 06:51:09	Via Adda - Ingresso	🔍
EJ 185	05/06/2020 06:51:09	Via Adda - Ingresso	🔍
EJ 185	05/06/2020 06:51:09	Via Adda - Ingresso	🔍

Dangerous Goods

In the Dangerous Goods menu, it is possible to keep under control the traffic of vehicles used for the transport of risky goods and divided by type based on the detected ADR code.
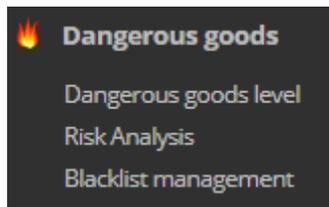
Dangerous Goods Level

By clicking on the *Dangerous goods level* item in the *Dangerous goods* menu, it is possible to have a report of how many dangerous goods passes have occurred for each passage and the type of goods transported.
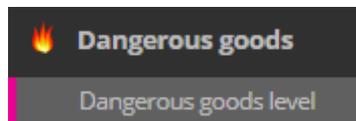
Also in this case, it is first of all necessary to set the filter of the time interval to be taken into consideration
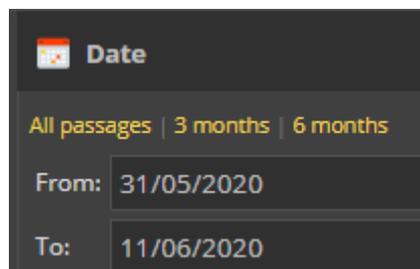
And select the Gates
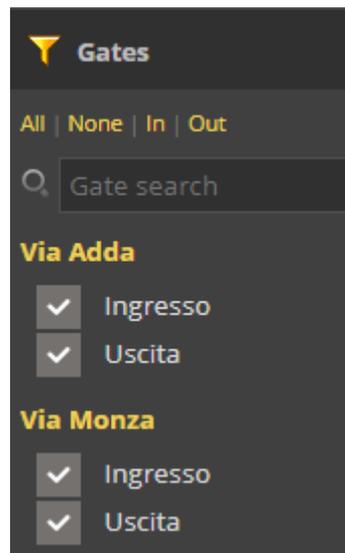
At the bottom of the screen you'll find the legend concerning the risk levels classification

	Code	Risk/danger
	2	Emission of gas due to pressure or chemical reaction
	3	Flammability of liquids (vapors) and gases or self-heating liquid
	4	Flammability of solids or self-heating solid
	5	Oxidizing (fire-intensifying) effect
	6	Toxicity or risk of infection
	7	Radioactivity
	8	Corrosivity
	9	Risk of spontaneous violent reaction

The chart in the main part of the screen will show the number of passages for each individual gate.

Each colored portion of the chart represents a single gate
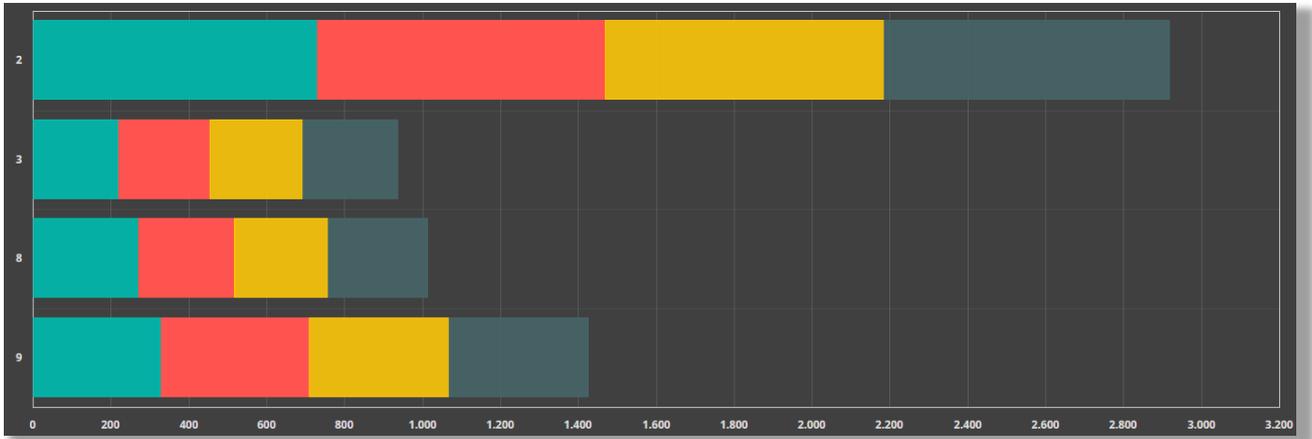
Risk analysis

Through the *Risk analysis* menu it is possible to have an indicative assessment of the risk calculated by Traffic Scanner divided by day
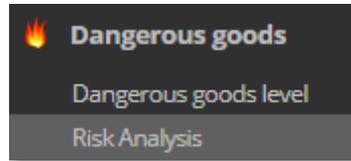
First of all let's select the time interval
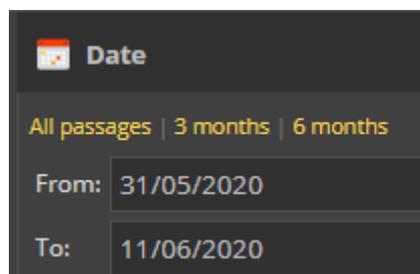
At this point the report will appear in the middle of the screen

The risk level is determined for each single day counting the number of vehicles passages transporting dangerous goods

The risk levels are splitted in 5 categories, from the least to the most severe, with progressive coloring from green to red

<u>Statistics and Flow Analysis</u>

Under the Vehicle Statistics and Flow Analysis menueus, it is possible to access a series of processes carried out on the transits detected by the Traffic Scanner for a desired period of time and for each individual passage.
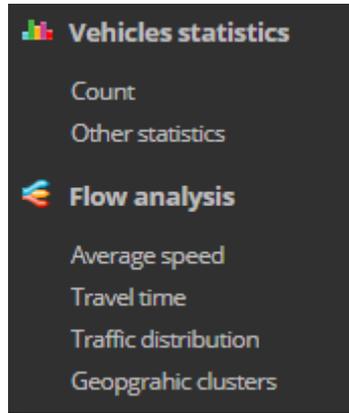
Vehicle Count

Under the item *Count* in the Vehicle Statistics menu you can view the number of passages filtering them by different categories.
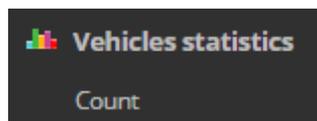
The time interval selection tool
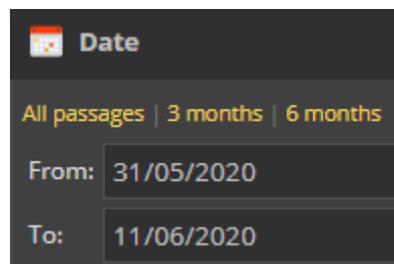
And the gate selection tool
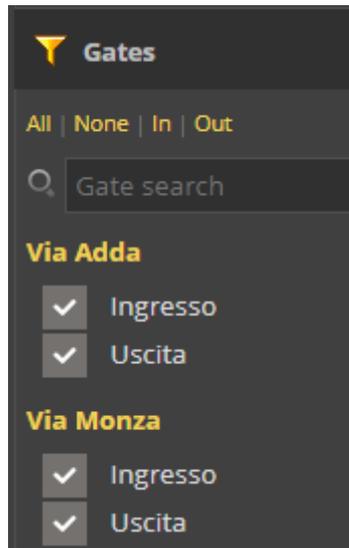
It is possible to choose whether to display the data of all vehicles or only the count relating to vehicles carrying dangerous goods
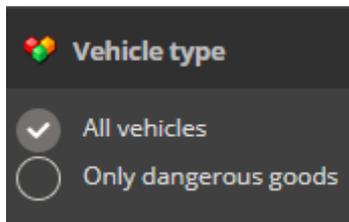
You can choose the time data grouping
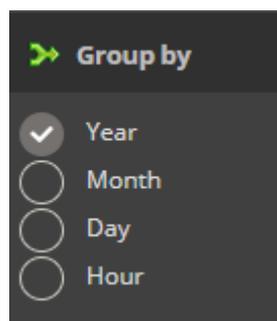
And the preferred chart type layout
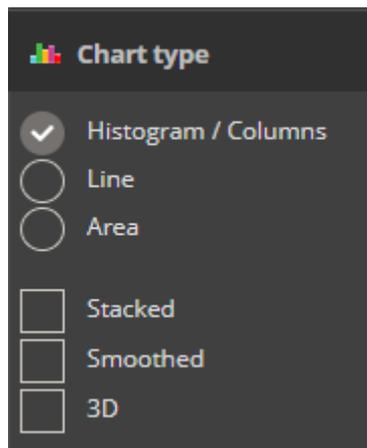
Once the parameters have been chosen, you will obtain the desired chart and a table with the corresponding numeric values

Traffic count - Tabular data

Period	Via Adda - Ingresso	Via Adda - Uscita	Via Monza - Ingresso	Via Monza - Uscita	Total
2020	13.369	13.552	13.319	13.343	53.583
Total	13.369	13.552	13.319	13.343	53.583
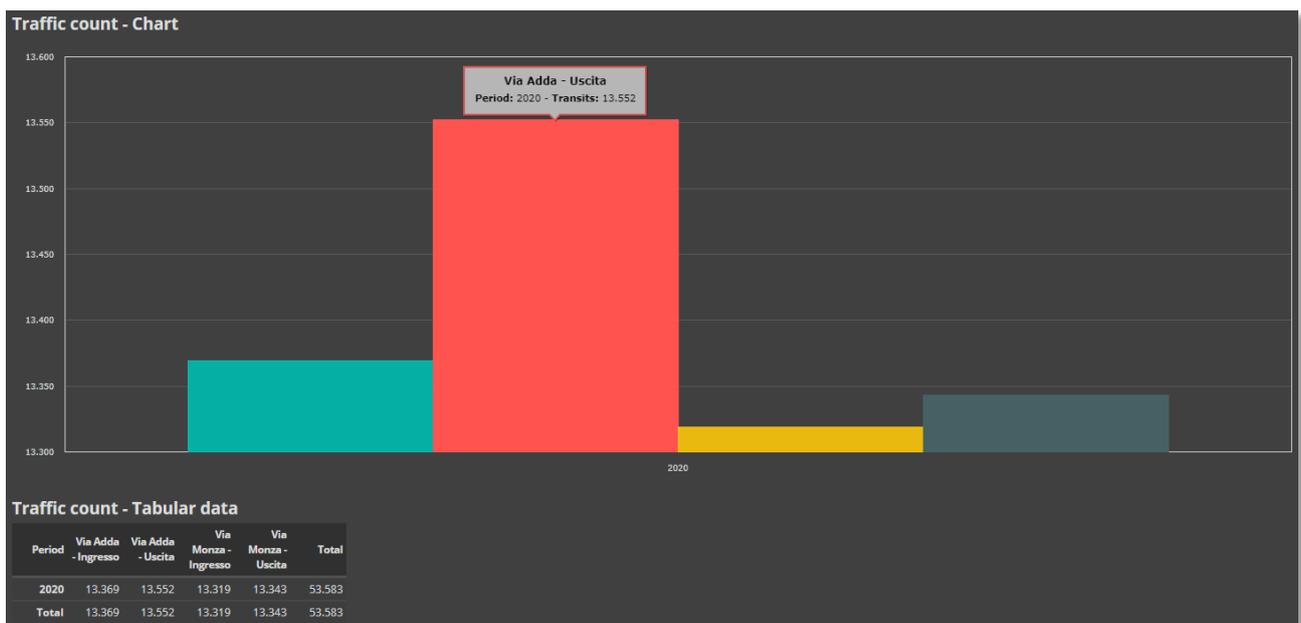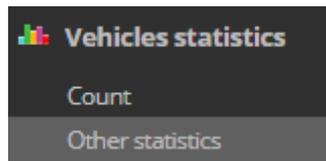
Other statistics

through the item *Other statistics*, under the Vehicle statistics menu, you will be able to view the analysis by **Country, vehicle type, Registration Year, Euro Class, Registration Province and plate ranking.**
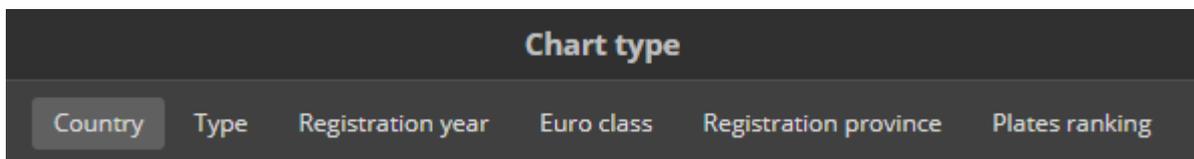
Regardless of the graph you are going to analyze, choose the Time period desired
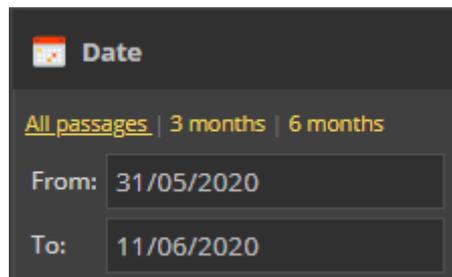
And the gates to consider
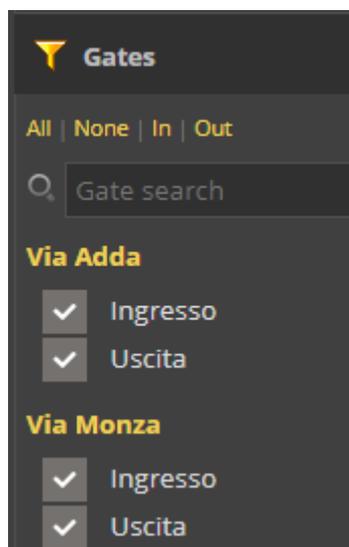
Country

In the first part of the screen the difference between the Italian and foreign license plates is visually represented, while on the right appears the foreign countries detailed chart
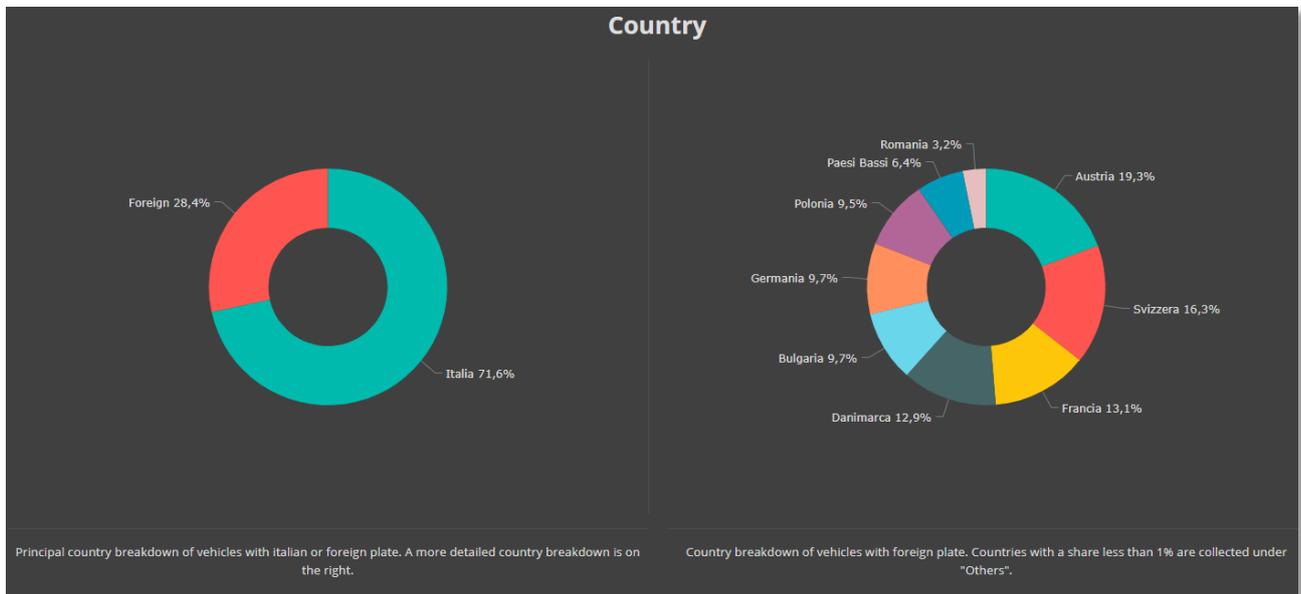
Scrolling down you can also view the numerical detail

Description	Transits count	Percentage
Italia	288.730	71,6%
Foreign	114.715	28,4%
Unrecognized	0	0,0%
Uncertain	0	0,0%

Description	Symbol	Transits count	Percentage
Austria	AT	22.195	19,3%
Svizzera	CH	18.691	16,3%
Francia	FR	14.998	13,1%
Danimarca	DK	14.764	12,9%
Bulgaria	BG	11.117	9,7%
Germania	DE	11.110	9,7%
Polonia	PL	10.886	9,5%
Paesi Bassi	NL	7.300	6,4%
Romania	RO	3.654	3,2%

With the ability to export data to a CSV file.

Classification

In the first part of the screen, the difference between cars and other types of vehicles is visually represented. On the right side the detail of the other vehicles
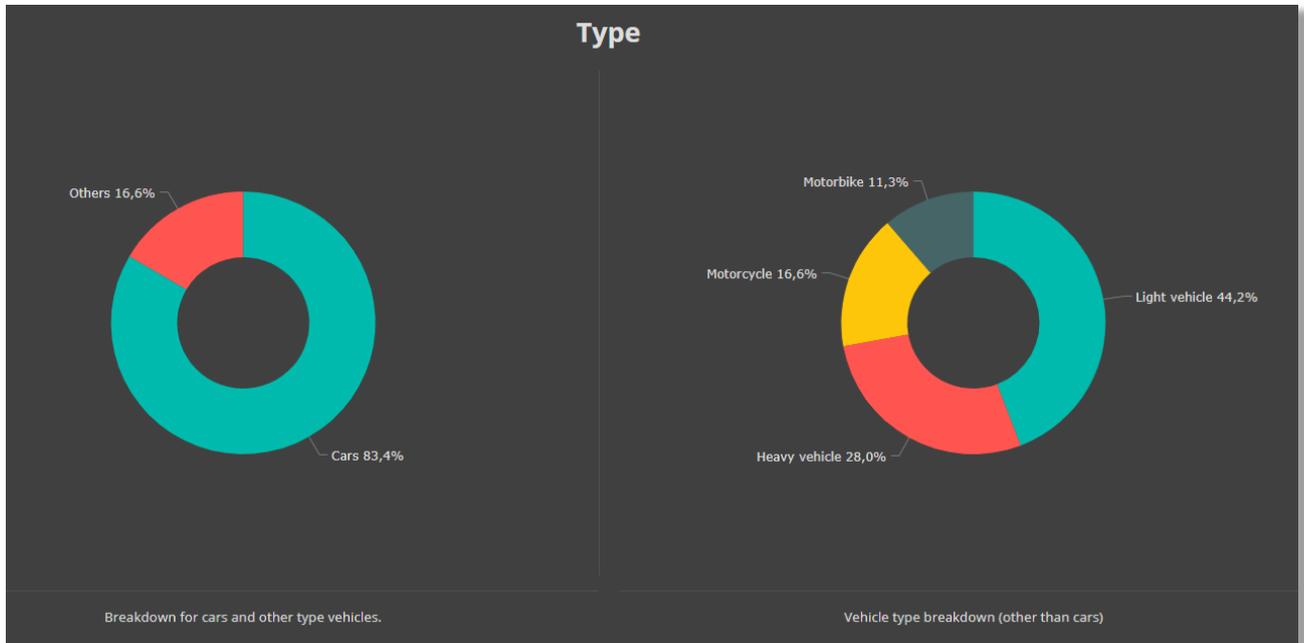
Scrolling down you can also view the numerical detail

Description	Transits count	Percentage
Cars	336.998	83,4%
Others	66.845	16,6%

Description	Transits count	Percentage
Light vehicle	29.528	44,2%
Heavy vehicle	18.698	28,0%
Motorcycle	11.098	16,6%
Motorbike	7.521	11,3%

With the ability to export data to a CSV file.

Registration year

The first part of the screen shows the breakdown by year with the percentage compared to the total amount of transits
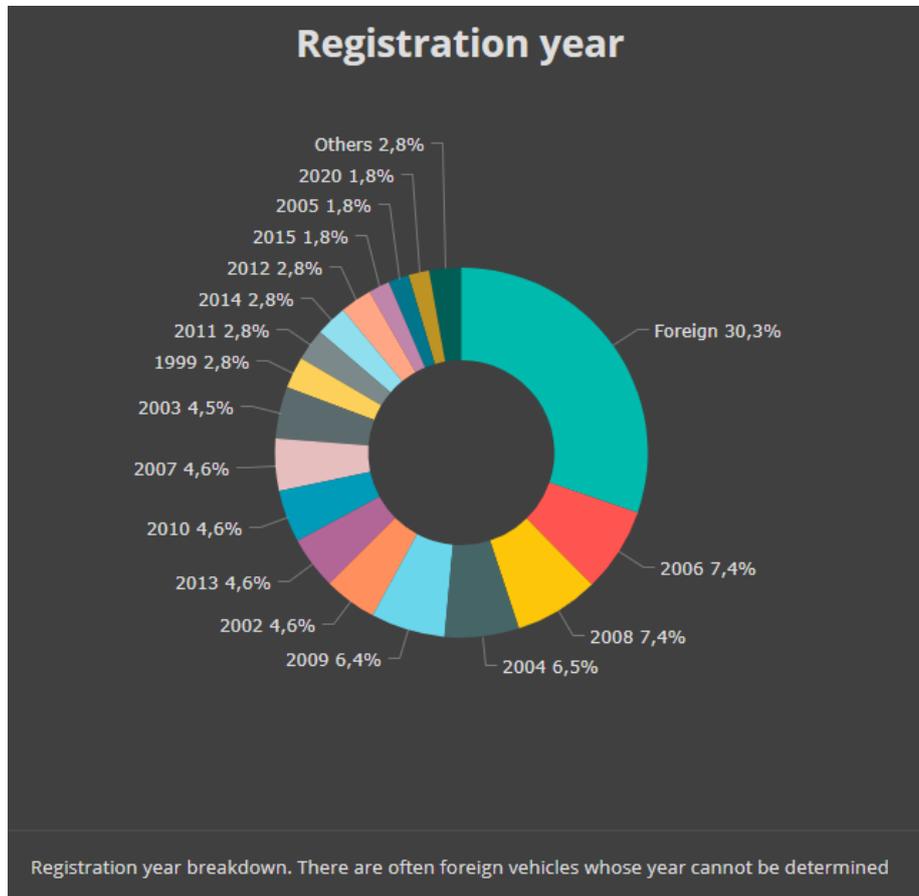
Scrolling down you can view the numeric details
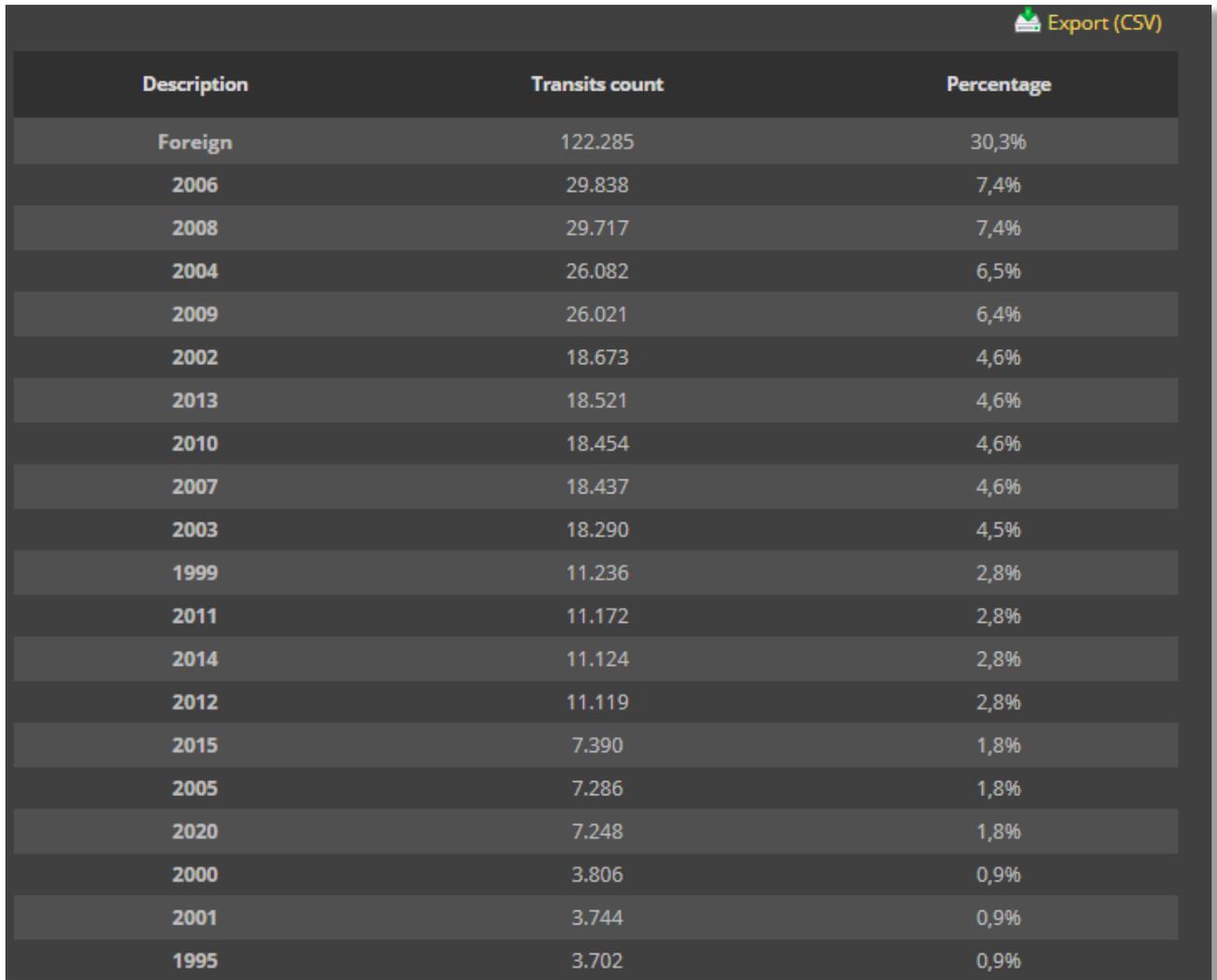
Description	Transits count	Percentage
Foreign	122.285	30,3%
2006	29.838	7,4%
2008	29.717	7,4%
2004	26.082	6,5%
2009	26.021	6,4%
2002	18.673	4,6%
2013	18.521	4,6%
2010	18.454	4,6%
2007	18.437	4,6%
2003	18.290	4,5%
1999	11.236	2,8%
2011	11.172	2,8%
2014	11.124	2,8%
2012	11.119	2,8%
2015	7.390	1,8%
2005	7.286	1,8%
2020	7.248	1,8%
2000	3.806	0,9%
2001	3.744	0,9%
1995	3.702	0,9%

Export (CSV)

With the ability to export data to a CSV file.

Euro Pollution Class

The first part of the screen shows the breakdown by EURO pollutant class visually
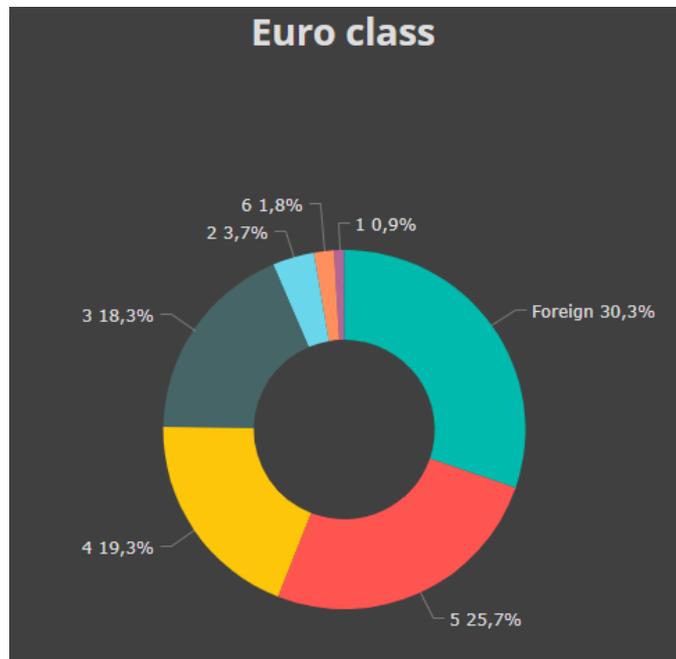
Scrolling down you can view the numeric details

Description	Transits count	Percentage
Foreign	122.317	30,3%
5	103.838	25,7%
4	78.013	19,3%
3	74.098	18,3%
2	15.047	3,7%
6	7.248	1,8%
1	3.703	0,9%

With the ability to export data to a CSV file.

Registration Province

In the first part of the screen, the difference between the system installation province and the other provinces is visually represented. On the right side the detail of the provinces with the percentage on the total of the passages.
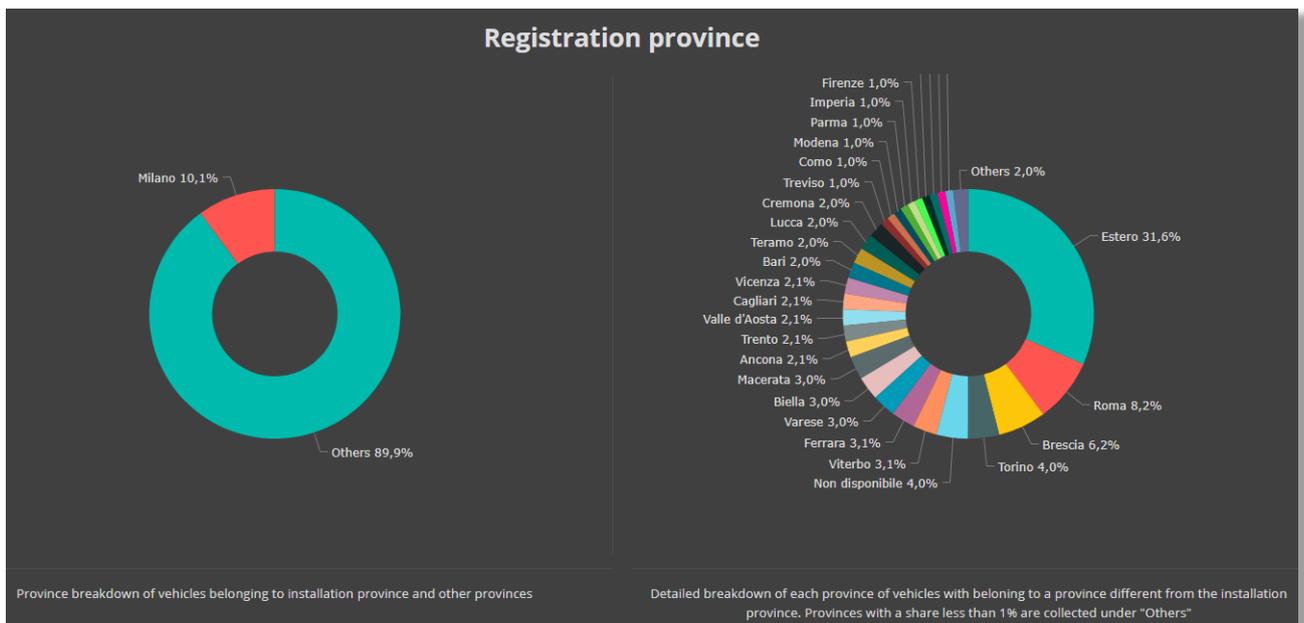
Scrolling down you can view the numeric details

Description	Symbol	Transits count	Percentage		Description	Symbol	Transits count	Percentage
Others	NN	363.455	89,9%		Estero	EE	114.948	31,6%
Milano	MI	40.869	10,1%		Roma	RM	29.885	8,2%
					Brescia	BS	22.500	6,2%
					Torino	TO	14.653	4,0%
					Non disponibile	NN	14.640	4,0%
					Viterbo	VT	11.201	3,1%
					Ferrara	FE	11.141	3,1%
					Varese	VA	11.081	3,0%
					Biella	BI	11.048	3,0%
					Macerata	MC	10.887	3,0%
					Ancona	AN	7.595	2,1%
					Trento	TN	7.583	2,1%
					Valle d'Aosta	AO	7.501	2,1%
					Cagliari	CA	7.476	2,1%
					Vicenza	VI	7.454	2,1%

With the ability to export data to a CSV file.

Flow Analysis

In this section you can find an analysis of the average speed detected, the transit time between entry and exit from the gates and an analysis of traffic distribution.

Regardless of the graph analyzed, you have to choose:

The time interval
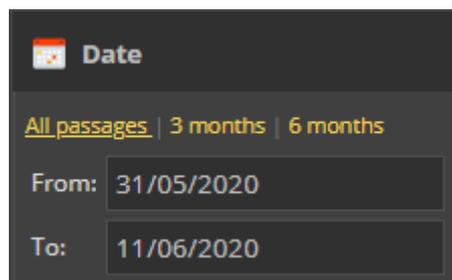
And the gate selection
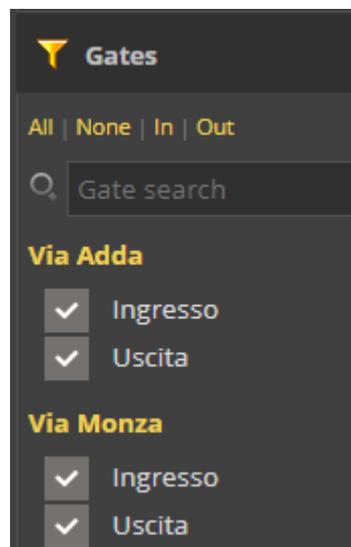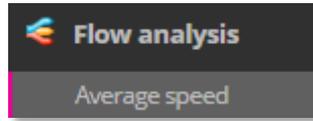
Average Speed

The graph shows the curve relating to the average transit speed of vehicles under the gates, calculated by averaging the measurements acquired in the selected time interval and projected in 24 hours
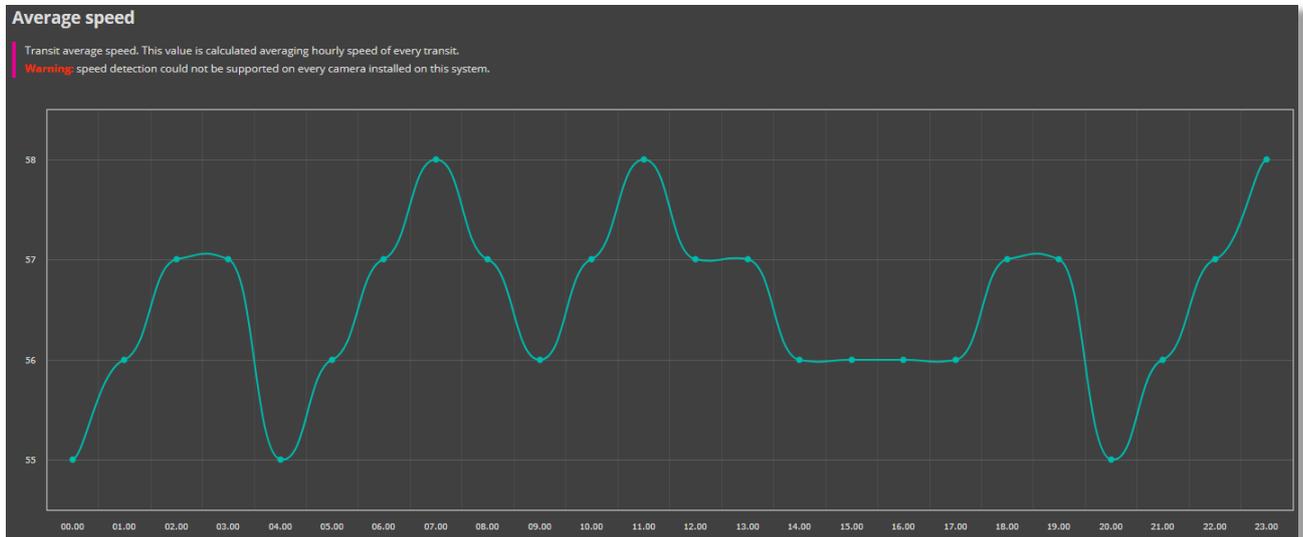
Travel Time

The screen displays graphically and numerically the timing spent by the vehicles to cross the Municipality, calculated between the time detected by the entrance gate and the time detected on the exit gate .

For example analyzing the commuters traffic which enters in the morning and exits in the evening from any detection gate.
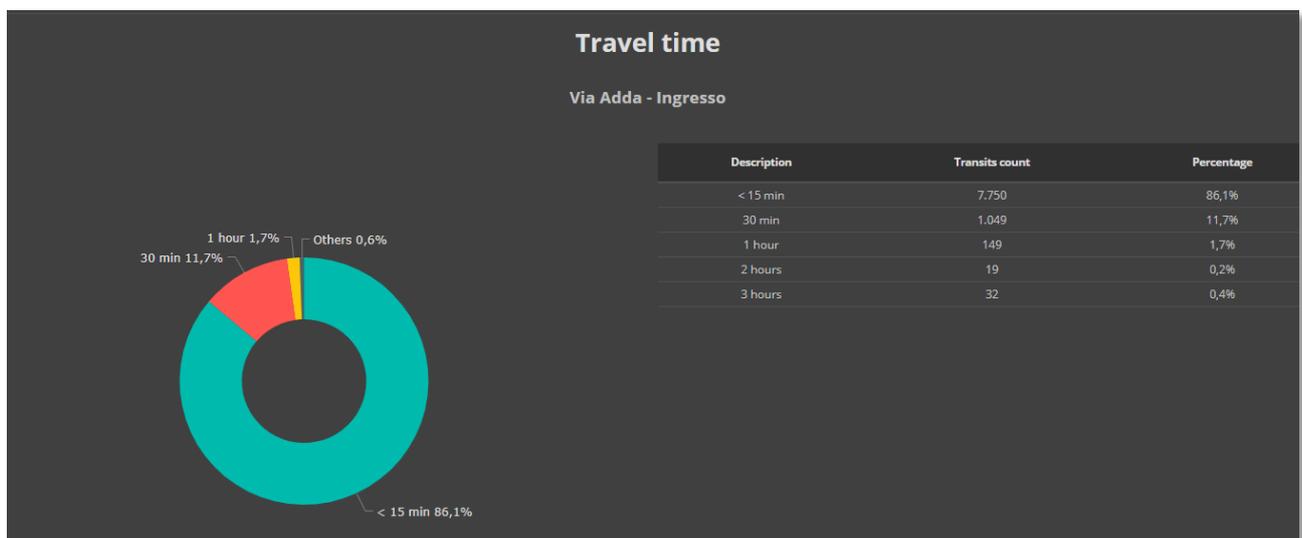
This analysis is useful to get an idea of how much of the traffic detected is attributable to residents and how much to external commuters

Traffic Distribution

In this section the so-called "origin / destination" matrix is represented, that is the synthesis of the cross counting calculated between entry and exit gates. The values can also be represented by individual vehicle class. This report is useful for determining how traffic propagates within the territory monitored by the gates
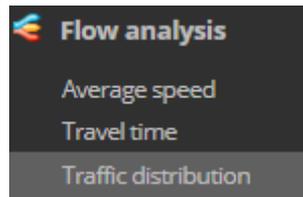
First of all select the filters:

- Value type between *Numeric* and *Percentage*
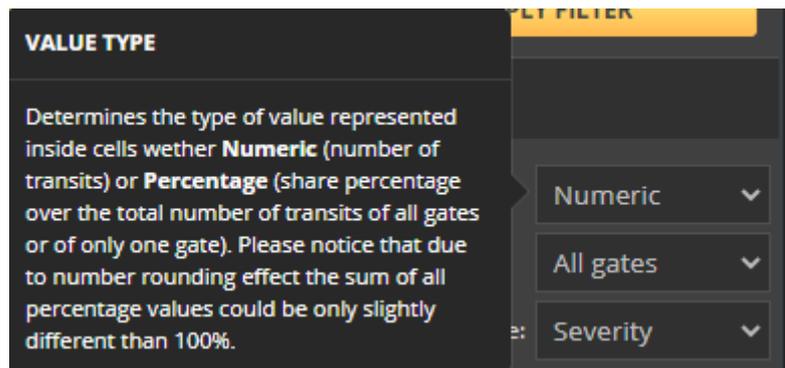
- Reference between *all gates* and *only one gate*

- Color and Theme

THEME/PALETTE

Determines the color gradient applied to the grid's cells

All gates ⌄

Severity ⌄

- Type of vechicles to include

▼ **Vehicle type**
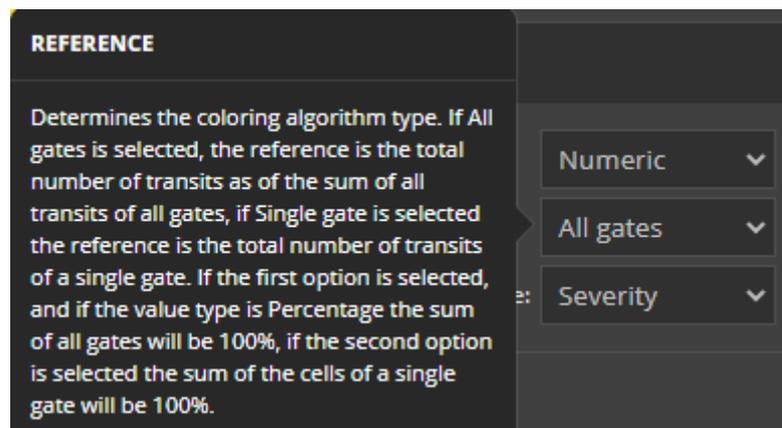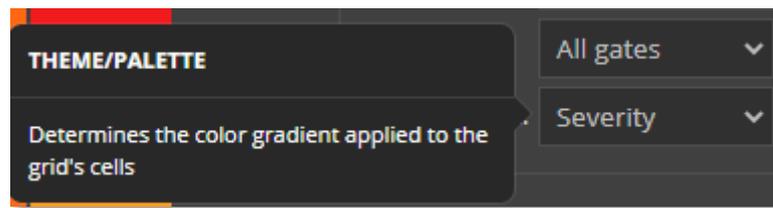
✓ Car
✓ Light vehicle
✓ Heavy vehicle
✓ Motorcycle
✓ Motorbike
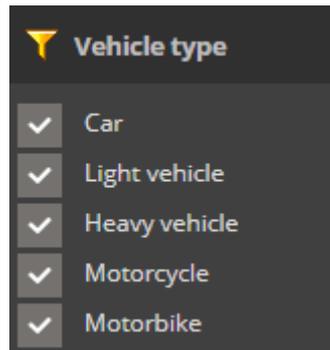
In the main part of the screen, the table will show how many vehicles have passed between the vertical gate and the horizontal gate

For example

-	Via Adda	Via Monza
Via Adda	31	29
Via Monza	21	24

It means that:

31 vehicles passed through the Via Adda gate and exited the same gate.

29 vehicles passed through the Via Adda gate and exited the Via Monza gate

21 vehicles passed through the Via Monza gate and exited the Via Adda gate

24 vehicles passed through the Via Monza gate and exited the same gate

Control panel
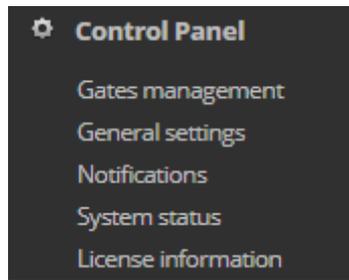
In the Control Panel it is possible to configure the program for the operation of each section.

Gate Management
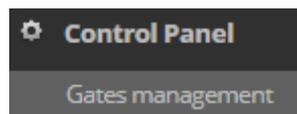
In the upper part of the screen you can see the name of the gate with the geographical

coordinates, the green check under the enabled column will indicate that the gate is

active. It is possible to edit the gate setup or delete the gate

Gates list					
ID	**Gate name [+ Add]**	**Latitudine**	**Longitudine**	**Enabled**	
1	Via Adda	45,627450	9,400021	✔ 🖉 ✖	
2	Via Monza	45,634408	9,396235	✔ 🖉 ✖	
3	Via San Maurizio	45,618837	9,401722	✔ 🖉 ✖	
4	Viale Lombardia	45,635712	9,363707	✔ 🖉 ✖	

The camera list uis visible in the lower part of the screen

Legenda features

(OCR) (CTX/CTX REMOTE) (IR/IR REMOTE) (INTERTRAFF) (RABBITMQ) (PARKING) (CPS) (VELOCAR) (RELAY) (SCNTT) (HYPER) (SILENT) (ADRONLY)

ID	Model	Gate [+ Add]	Features	IP	Status		
1	Demo	Via Adda - Ingresso	CTX IR	127.0.0.1 (0)	✓	✎	✗
2	Demo	Via Adda - Uscita	CTX IR	192.168.4.73 (0)	✓	✎	✗
3	Demo	Via Monza - Ingresso	CTX IR	192.168.4.67 (0)	✓	✎	✗
4	Demo	Via Monza - Uscita	CTX IR	192.168.4.69 (0)	✓	✎	✗

Camera parameters:

- Camera ID

- Model

- Gate and direction (IN/OUT)

- Image setup (CTX = context camera - IR = infrared camera)

- IP address and port used

- Status, if the camera is active

- Edit information

- Camera deletion

System status

By the System Status item in the Control Panel menu, it is possible to check the operation status of the cameras and Traffic Scanner services
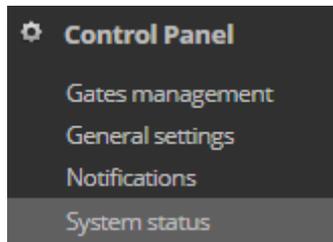
System diagnostic

At the top of the screen is the Camera diagnostics

That report the following informations:

- Camera ID
- Associated gate
- Last scan time
- Camera date&time
- NTP drift or the difference between the time indicated in the passage from the camera and the time of the Traffic Scanner server. It is important that it is always at 0 because otherwise it means that the transits received by the camera will be stored as if they had occurred in the past or in the future compared to the real time.
- Transit drift or how long the camera has not detected a passage, it could be due to low vehicle traffic or a possible anomaly.
- Mac address and IP address of the camera
- Status: it will be **OK** if the camera is reachable via the network or **DOWN** if it is not..
- Passages: the number of transits recorded in the last 5 minutes
- Camera model, firmware and statistical data on temperature etc.

OCR algorythm efficiency

analyzing this report it is possible to check with which scoring the OCR of the cameras are reading the license plates no.

System status

Cam list	OCR algorithms efficiency	Services	Notifications	Database

In this report you can see statistics about OCR algorithms efficiency for each camera.
Please notice that the following data is of the current day (today). Data is calulated only when there are at least 100 transits for the camera examined.

ID	Brand	Gate	Transits	Unread/Unrecog.	Type	Italian	Foreign	Unrecog. country	Speed	Color	Brand	Drift +	Dritf -	% +	% -
1	Demo	Via Adda Ingresso	677	0,00	100,00	73,12	26,88	0,00	100,00	79,32	77,25	0	0	34,27	0,00
2	Demo	Via Adda Uscita	696	0,00	100,00	70,69	29,31	0,00	100,00	82,04	80,46	0	0	37,93	0,00
3	Demo	Via Monza Ingresso	729	0,00	100,00	74,76	25,24	0,00	100,00	81,76	79,15	0	0	38,96	0,00
4	Demo	Via Monza Uscita	645	0,00	100,00	70,23	29,77	0,00	100,00	81,09	78,14	0	0	41,55	0,00
5	Demo	Via San Maurizio Ingresso	697	0,00	100,00	72,17	27,83	0,00	100,00	80,20	76,90	0	0	37,73	0,00
6	Demo	Via San Maurizio Uscita	669	0,00	100,00	71,75	28,25	0,00	100,00	80,87	78,03	0	0	37,67	0,00
7	Demo	Viale Lombardia Ingresso	673	0,00	100,00	74,00	26,00	0,00	100,00	78,60	76,23	0	0	39,23	0,00
8	Demo	Viale Lombardia Uscita	688	0,00	100,00	71,95	28,05	0,00	100,00	82,12	79,80	0	0	36,48	0,00
9	Demo	Via Guzzina Ingresso	716	0,00	100,00	69,41	30,59	0,00	100,00	78,91	76,26	0	0	35,06	0,00
10	Demo	Via Guzzina Uscita	725	0,00	100,00	71,86	28,14	0,00	100,00	78,76	75,86	0	0	42,62	0,00
11	Demo	Via Quarto Ingresso	631	0,00	100,00	71,95	28,05	0,00	100,00	80,67	76,39	0	0	39,46	0,00
12	Demo	Via Quarto Uscita	691	0,00	100,00	71,78	28,22	0,00	100,00	84,66	80,46	0	0	35,89	0,00

this report is very convenient for checking if the camera's frame and geometry are correctly set without having to jump over each camera to check it.
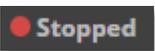
System services

Scrolling down you can check the status of the Traffic Scanner services. The services are necessary for the correct operation of the system and therefore the following must be found in the status:

● Running

Except for services not present in the system indicated with:

● N.D.

Nel caso dovesse esserci un servizio premere sul pulsante per avviarlo.

If there is a service ● Stopped , press the START button to start it.

System status

Cam list	OCR algorithms efficiency	Services	Notifications	Database

Using this panel you can handle all the services. You can start or stop services and, in some specific cases, reset them.
Reset button kills the service and tries to restart it.
If you're unable to solve your issues, please contact your vendor.

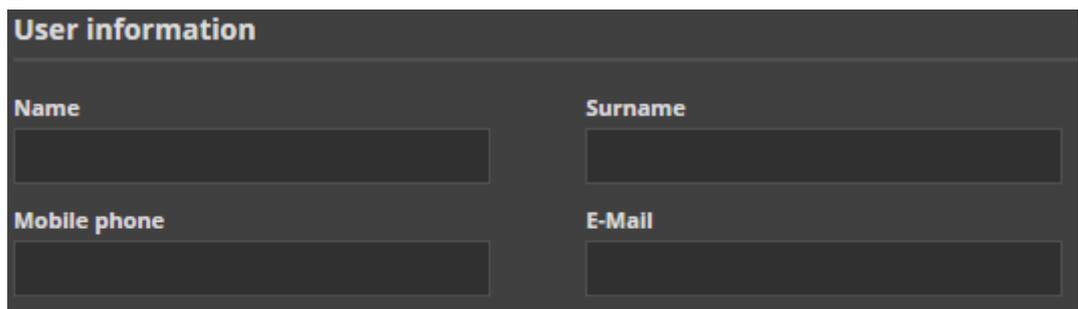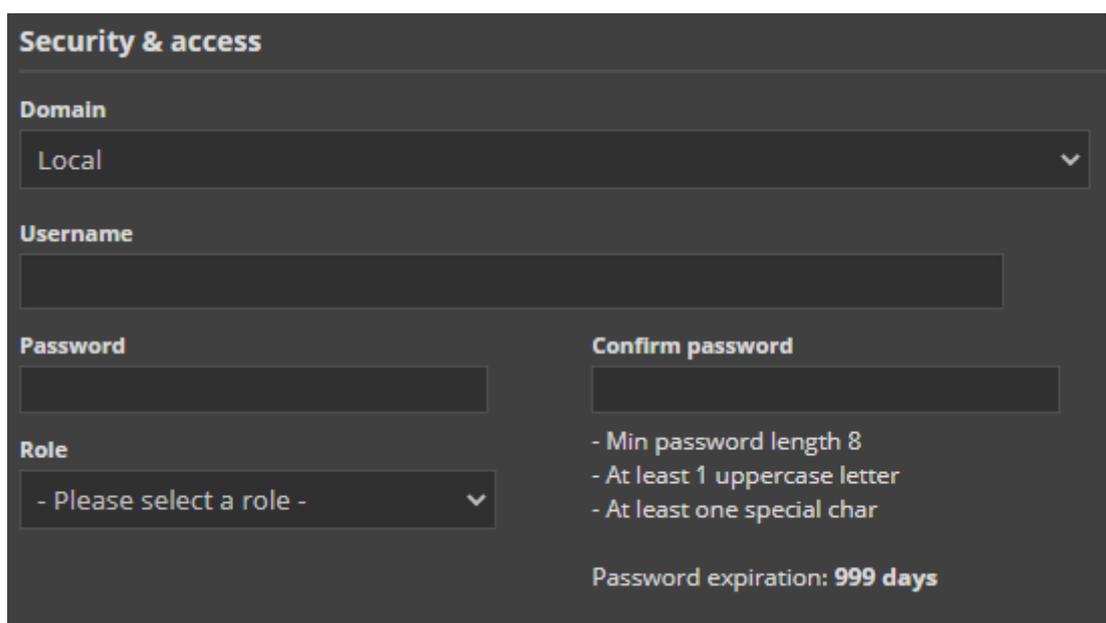|	Name	Status	Options		Description
⚙	MSSQL$LPR	● Running	START	STOP	SQL Server (LPR)
⚙	vpnagent	● N.D.	START	STOP	Service not installed
⚙	RabbitMQ	● N.D.	START	STOP	Service not installed
⚙	LPRUniversalAgent	● Running	START	STOP	LPR Universal Agent
⚙	LPRNotifierAgent	● Running	START	STOP	LPR Notifier Agent
⚙	LPRInsuranceAgent	● N.D.	START	STOP	Service not installed
⚙	LPRSpoolerAgent	● N.D.	START	STOP	Service not installed
⚙	LPRVpnLauncher	● N.D.	START	STOP	Service not installed
⚙	LPRMessengerAgent	● N.D.	START	STOP	Service not installed
⚙	LPRHealthAgent	● N.D.	START	STOP	Service not installed
⚙	LPRTelegramAgent	● N.D.	START	STOP	Service not installed
⚙	LPRMotGovAgent	● N.D.	START	STOP	Service not installed

Users Management

Through the Users item in the Users and security menu, it is possible to create new users or modify an existing one.

New user creation

1) Enter the User's personal data


2) Fill in the access data

The User Code is the login name that must be entered for access to the Traffic Scanner

The Role identifies the permissions and menus that the user has access to. There are different types of roles based on privileges and are the following:

- Viewer
- User
- Power User
- Superuser
- Admin
- Power Admin

To find out which role to associate a user with, always refer to the System Administrator.

3) Select the language that Traffic Scanner should show to the user
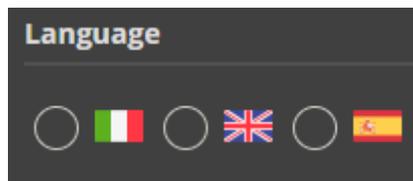
4) Confirm the user creation by clicking the button