

ZKTeco

ZK-LPR Car ID User Manual

ZKTeco

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History:

Date	Creator	Details
11.03.2020	Luis Rodríguez	Initial Document
16.03.2020	Samuel Muñoz	Audit

1. Overview

ZKTeco is a powerful LPR application developed, embedded in the cameras.

ZKTeco is the all in one product to plug and play, ready to read plates just out of the box.

It Includes an interface web application that allows you to manage different scenarios, avoiding extra hardware and software installations.

2. Installation Requirements

2.1. Camera requirements

LPR ZK Camera support a 64GB Micro SD recommended quality Q10

The micro SD should be formatted in **EXT4 format**.

List of compatible cameras:

- BL-852Q38A – LP
- DL-852Q28B-LP

Minimum firmware **XXXX**

General compatibility: Cameras with processor Hisilicon Hi3519 and Linux System

2.2. Storage requirement

The preset values suppose a **40% of JPEG compression** (default system value)

In the following table we can find *estimation of size* requirements:

Size/Registers	1	1000	5000	10000	100000
640x480	13KB	12.7 MB	63.5 MB	127 MB	1.24 GB
800x600	20KB	19.5 MB	97.7 MB	195.3 MB	1.9 GB
1280x720	25KB	24.4 MB	122 MB	244.14 MB	2.38 GB
1600x904	70KB	68.35 MB	341.8 MB	683.6 MB	6.68 GB
1920x1080	110KB	107.4 MB	537,1 MB	1.05 GB	10.5 GB

Estimation with an affluence of 100 cars per day.

Size/GB	2	8	16	32	64
640x480	4.4 years	17.6 years	30.53 years	70 years	140 years
800x600	2.8 years	11.5 years	20.3 years	40.5 years	90 years
1280x720	2.27 years	9.1 years	10.8 years	30.7 years	70.3 years
1600x904	290 days	3.2 years	6.5 years	10.3 years	20.6 years
1920x1080	190 days	2 years	4.16 years	8.3 years	10.6 years

Estimation with an affluence of 1000 cars per day.

Size/GB	2	8	16	32	64
640x480	161 days	645 days	3.53 years	7 years	14 years
800x600	105 days	420 days	2.3 years	4.5 years	9 years
1280x720	83 days	335 days	1.8 years	3.7 years	7.3 years
1600x904	29 days	119 days	239 days	1.3 years	2.6 years
1920x1080	19 days	76 days	152 days	305 days	1.6 years

Estimation with an affluence of 10000 cars per day.

Size/GB	2	8	16	32	64
640x480	16 days	64 days	128 days	256 days	512 days
800x600	10 days	42 days	84 days	168 days	336 days
1280x720	8 days	33 days	66 days	132 days	264 days
1600x904	2 days	11 days	23 days	46 days	92 days
1920x1080	1 days	7 days	15 days	30 days	60 days

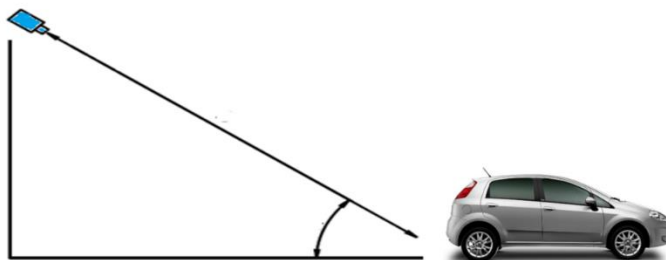
2.3. License Plate Character size

Characters in license plates must have an average height between 20 to 80 pixels, being 25 pixels a good reference value. Less resolution may lead character confusion in some countries. In addition, camera sensitivity affects too. For countries in which there are different character sizes on their license plates, this fact must be kept in mind, so the small characters are included in the detection range.



2.4. Camera Positioning

Recommended vertical angles are approximately 20°. The maximum recommended value is 35°.



Recommended horizontal angles are approximately 20°. The maximum recommended value is 35°.



The angle between the plates and the X axis of the scene must be inferior to 25°.



Recommended Parametrization

It should be mentioned that the following recommendations and specifications, are general and may vary depending on the brand and model of the selected camera and the country they are to be installed.

Common *Scenario*

Common scenario: 1 lane

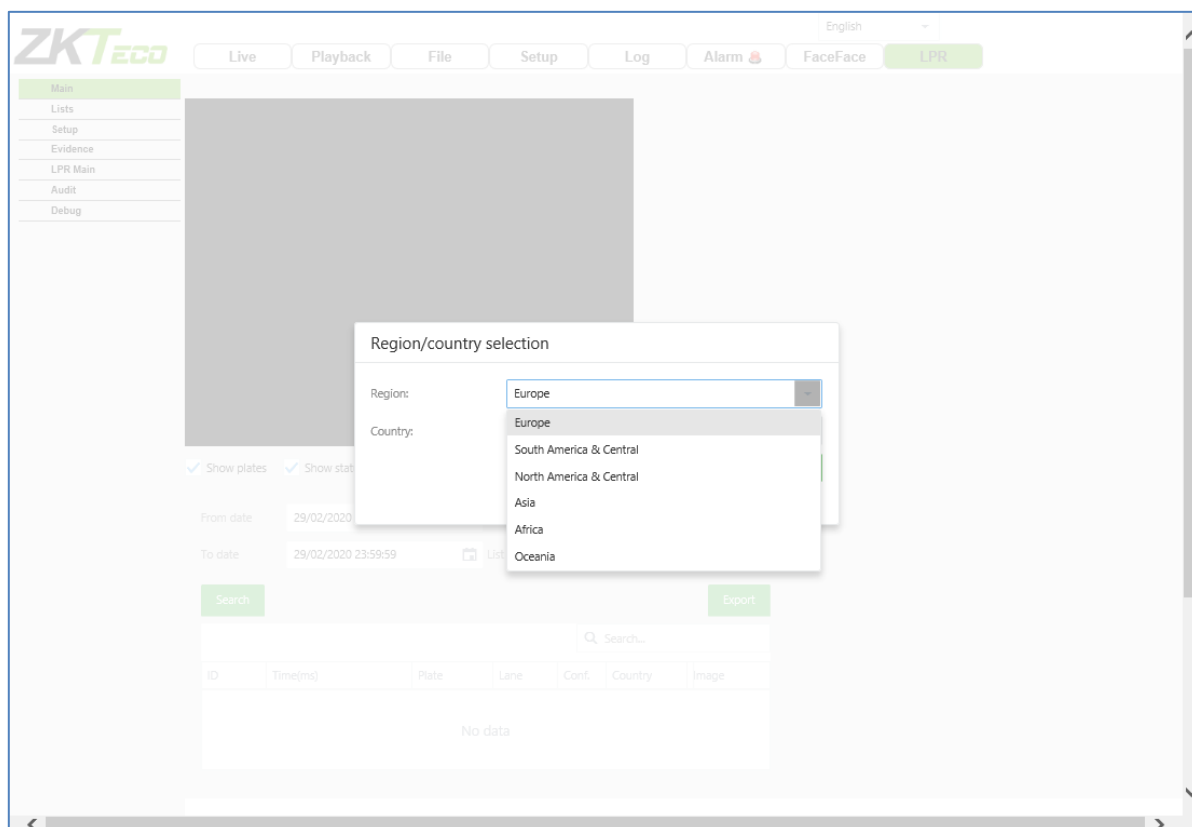
Sensor size: VGA o 1 MP

Height of camera on pole: 1 - 1.5 metros

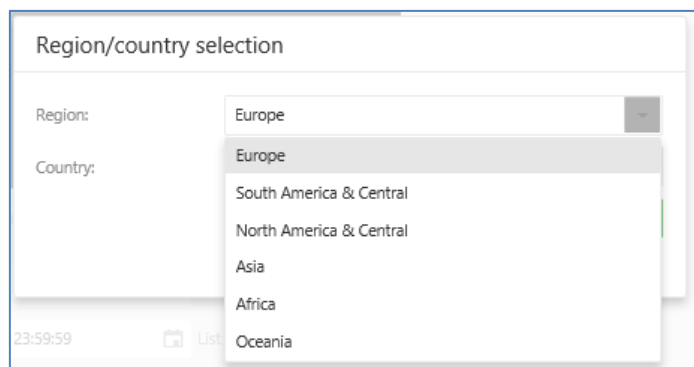
3. Access to ZKTeco

3.1. First access (selection country)

Upon the first access to the web ZKTeco the system will ask us for the region and country. The country selection is mandatory to define the country(s) of license plate to read.



First select the Region:



Now select the countries in the region. Multiple selection is available.

Region/country selection

Region:

Europe

Country:

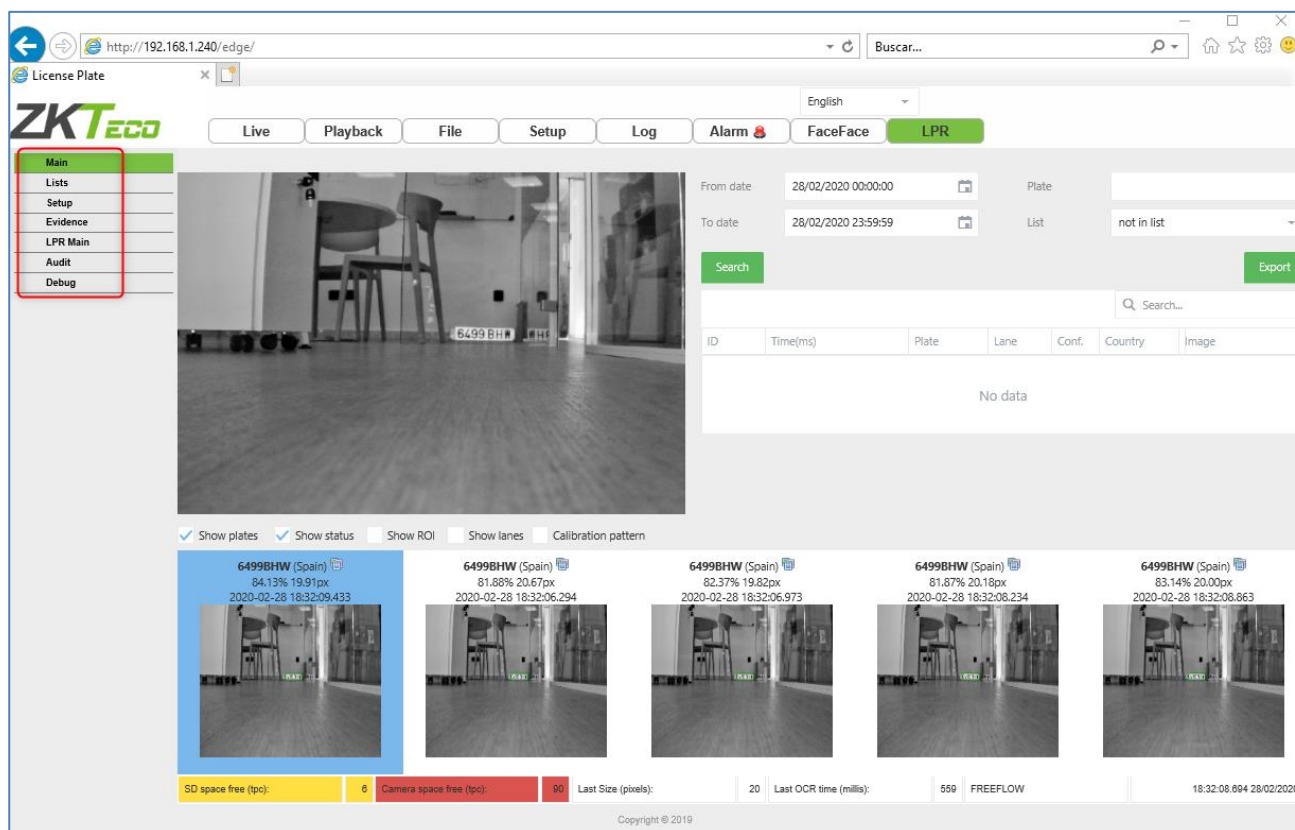
Spain ✕ France ✕ |

Save and close

4. Web View

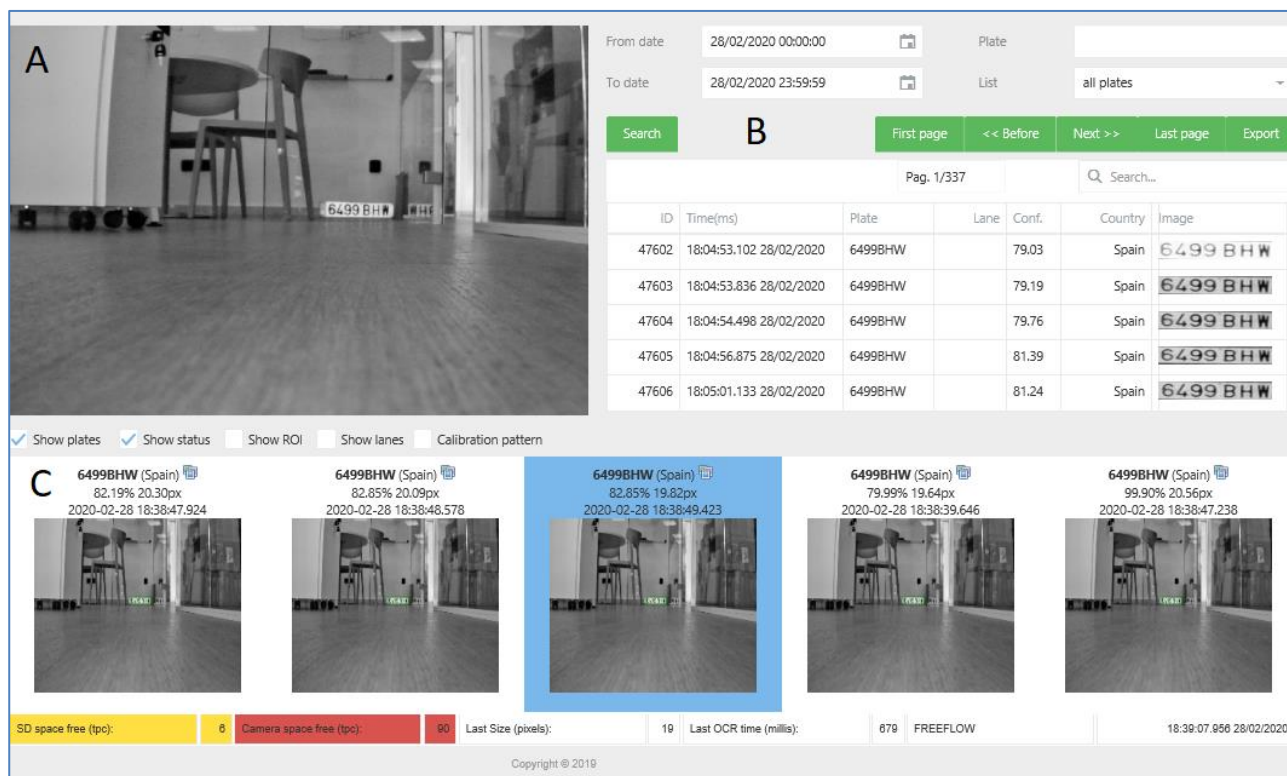
4.1. Tab

The top of the screen has a tab menu, it is marked with a red rectangle is the MENU toolbar with all the available options.



4.2. Live Tab

The live tab shows the cameras live view. (this tab is divided into 3 different areas) We have divided it into 3 parts: The Monitor Panel (labeled A), The Results Panel (labeled B) and the Info Panel (labeled C).



A

From date: 28/02/2020 00:00:00 To date: 28/02/2020 23:59:59 Plate: List: all plates

B

Search First page << Before Next >> Last page Export

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ID	Time(ms)	Plate	Lane	Conf.	Country	Image
47602	18:04:53.102 28/02/2020	6499BHW		79.03	Spain	6499 BHW
47603	18:04:53.836 28/02/2020	6499BHW		79.19	Spain	6499 BHW
47604	18:04:54.498 28/02/2020	6499BHW		79.76	Spain	6499 BHW
47605	18:04:56.875 28/02/2020	6499BHW		81.39	Spain	6499 BHW
47606	18:05:01.133 28/02/2020	6499BHW		81.24	Spain	6499 BHW

☒ Show plates ☒ Show status ☐ Show ROI ☐ Show lanes ☐ Calibration pattern

C

6499BHW (Spain) 82.19% 20.30px 2020-02-28 18:38:47.924

6499BHW (Spain) 82.85% 20.09px 2020-02-28 18:38:48.578

6499BHW (Spain) 82.85% 19.82px 2020-02-28 18:38:49.423

6499BHW (Spain) 79.99% 19.64px 2020-02-28 18:38:39.646

6499BHW (Spain) 99.90% 20.56px 2020-02-28 18:38:47.238

SD space free (tpc): 8 Camera space free (tpc): 90 Last Size (pixels): 19 Last OCR time (millis): 879 FREEFLOW 18:39:07.950 28/02/2020

Copyright © 2019

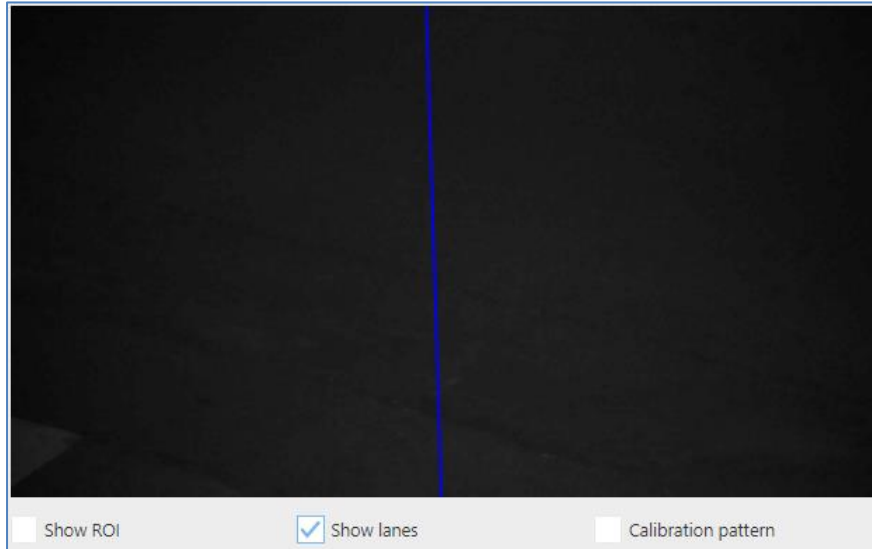
Monitor Panel: Live image what the camera is streaming.

Under the live there is three checks:

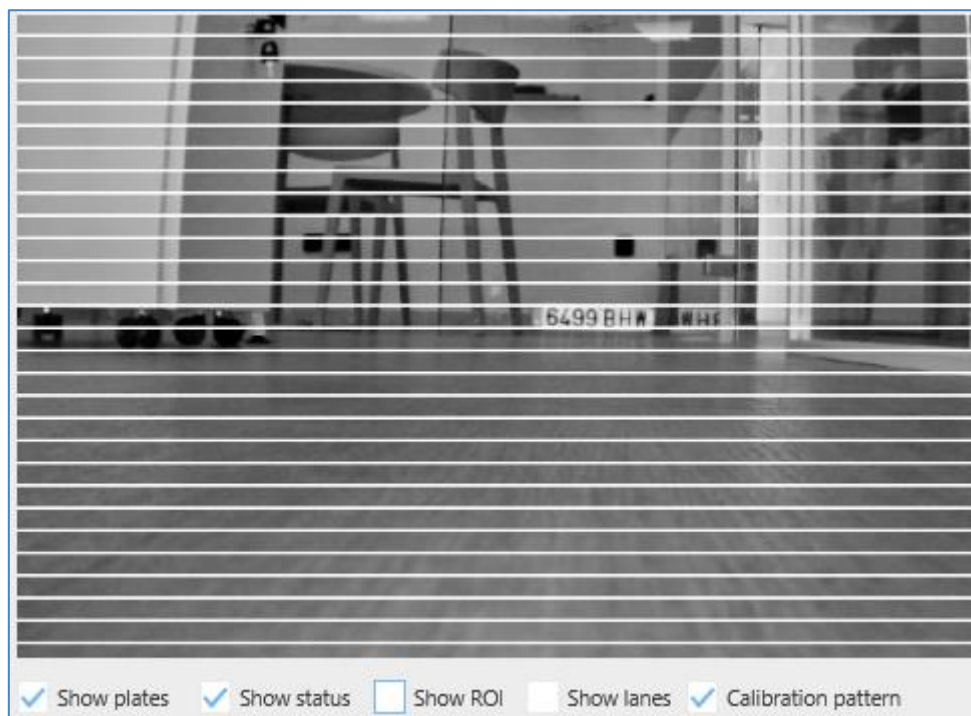
Show ROI: Checking you can see a red square indicating the ROI (Region of interest) defined in the parameters, this area is the only section of the image where engine will try to find plates.



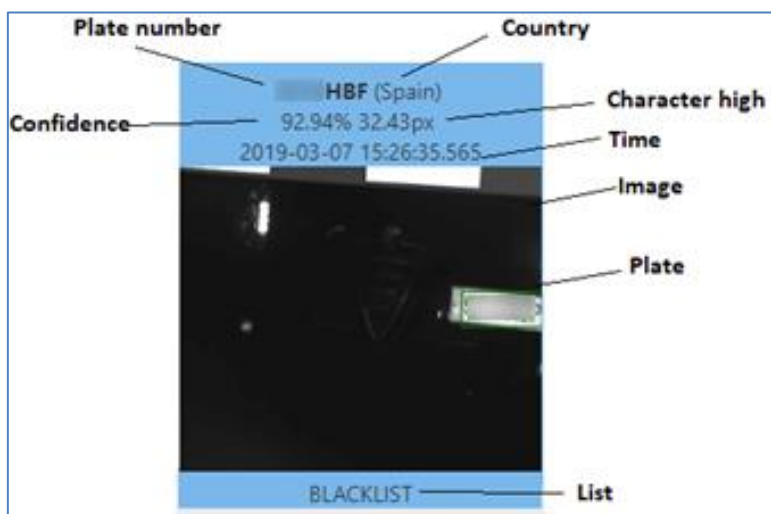
Show lanes: Checking you can see a blue line defining the lanes we have configured in the parameters, the plates in the left side of the screen are plates captured in lane 1, the plates in the right side of the screen in lane 2.



Calibration pattern: Checking you can see white lines indicating the minimum character size. The vertical space between lines is 25 pixels, the plate number must be higher this space.



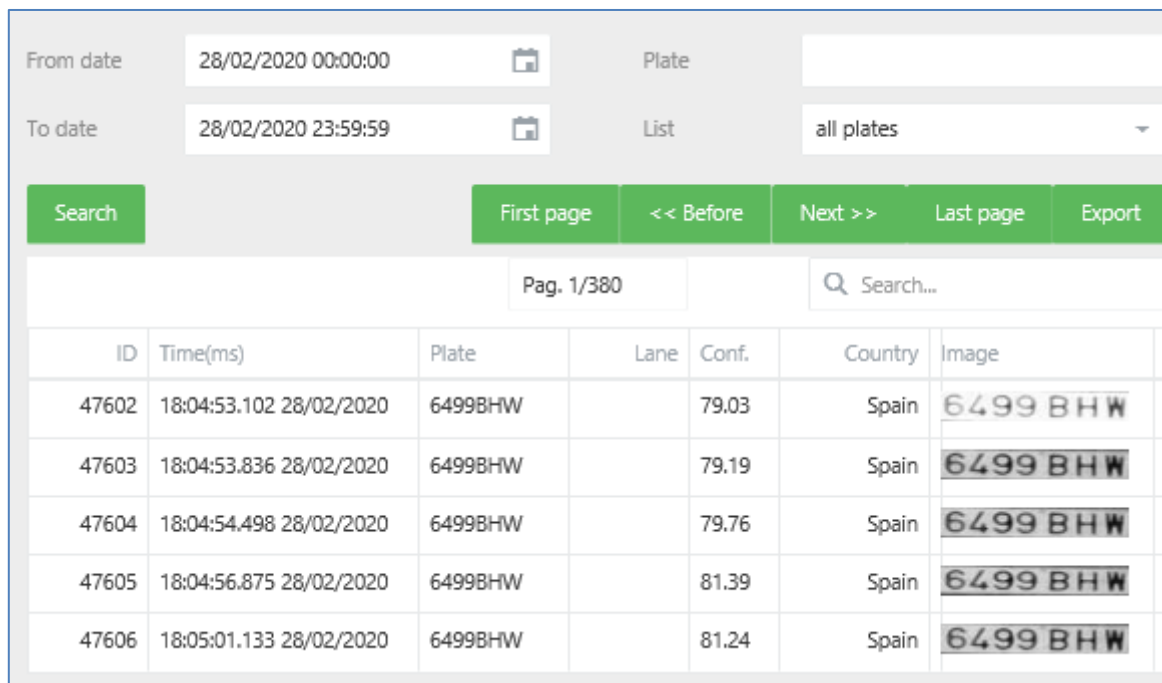
Results Panel: Shows the latest results, we highlight the last result with a Blue outline. The results will provide:



- ID
- TIME
- PLATE
- LANE
- CONFIDENCE
- COUNTRY
- IMAGE






4.3. Review Tab

The review tab allows us to search, filter and consult the results.



The screenshot shows the Review Tab interface with the following elements:

- Search Filters:**
 - From date:** 28/02/2020 00:00:00
 - To date:** 28/02/2020 23:59:59
 - Plate:** (empty input field)
 - List:** all plates
- Buttons:** Search, First page, << Before, Next >>, Last page, Export.
- Table:**

ID	Time(ms)	Plate	Lane	Conf.	Country	Image
47602	18:04:53.102 28/02/2020	6499BHW		79.03	Spain	
47603	18:04:53.836 28/02/2020	6499BHW		79.19	Spain	
47604	18:04:54.498 28/02/2020	6499BHW		79.76	Spain	
47605	18:04:56.875 28/02/2020	6499BHW		81.39	Spain	
47606	18:05:01.133 28/02/2020	6499BHW		81.24	Spain	

From Date: Select the date when do you want to initiate the search

To Date: Select the date until you wish to search.

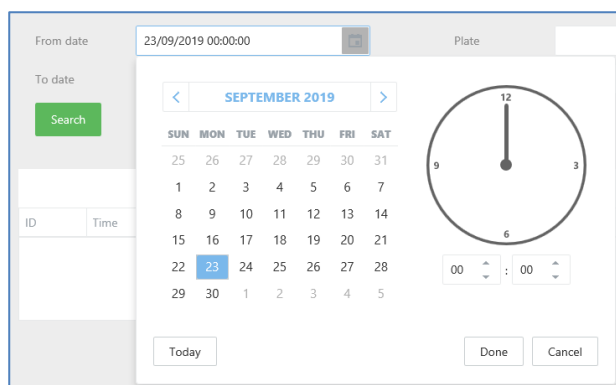
Plate: Allows you to search partially, entering a few numbers or letters of the license plate. This option will search all plates that coincide will the desired query.

List: Allows you to filter by lists, meaning it will show you all plates that belong to a list.

For example, if you wish to search for a specific plate by date, from 02/10 to 02/12.

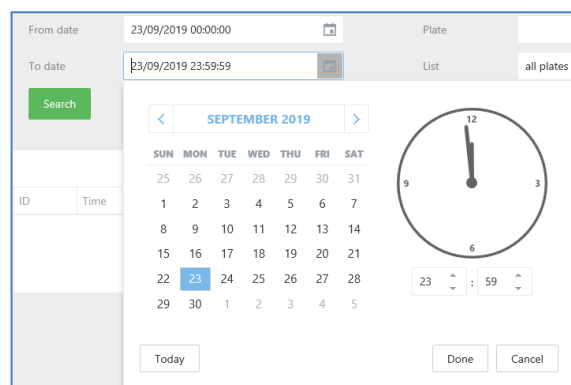
From Date:

To Date:



The screenshot shows the From Date date picker interface with the following elements:

- From date:** 23/09/2019 00:00:00
- To date:** (empty input field)
- Search:** (green button)
- Calendar:** A calendar for September 2019 with the 23rd selected.
- Time:** A circular clock interface showing 00:00.
- Buttons:** Today, Done, Cancel.



The screenshot shows the To Date date picker interface with the following elements:

- From date:** 23/09/2019 00:00:00
- To date:** 23/09/2019 23:59:59
- Search:** (green button)
- Calendar:** A calendar for September 2019 with the 23rd selected.
- Time:** A circular clock interface showing 23:59.
- Buttons:** Today, Done, Cancel.

Search

First page

<< Before

Next >>





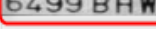
Last page

Export

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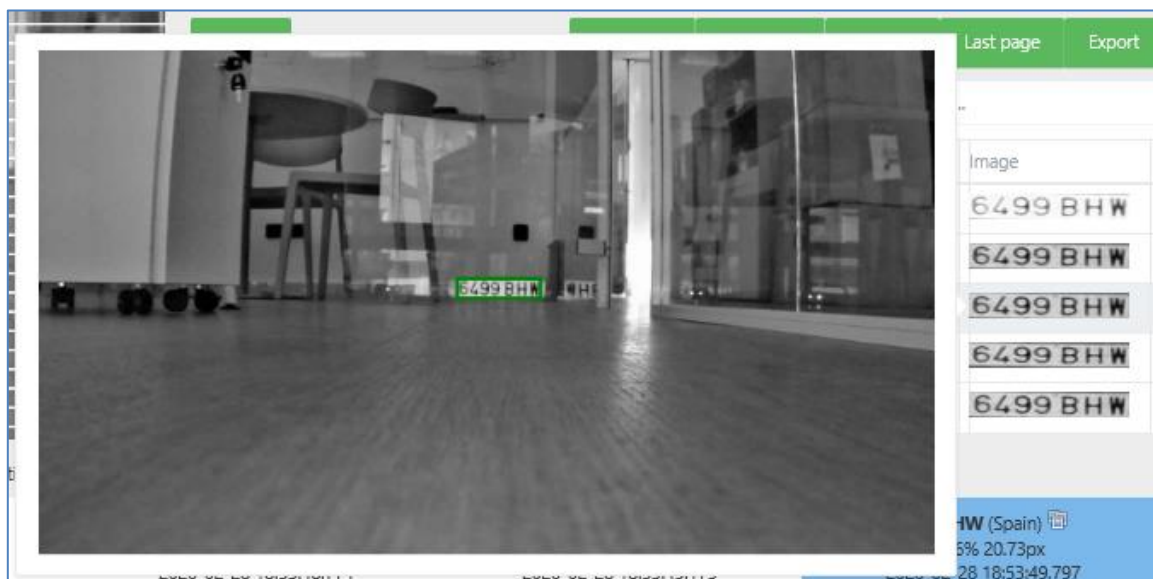
Q

Search...

ID	Time(ms)	Plate	Lane	Conf.	Country	image
47602	18:04:53.102 28/02/2020	6499BHW		79.03	Spain	
47603	18:04:53.836 28/02/2020	6499BHW		79.19	Spain	
47604	18:04:54.498 28/02/2020	6499BHW		79.76	Spain	
47605	18:04:56.875 28/02/2020	6499BHW		81.39	Spain	
47606	18:05:01.133 28/02/2020	6499BHW		81.24	Spain	

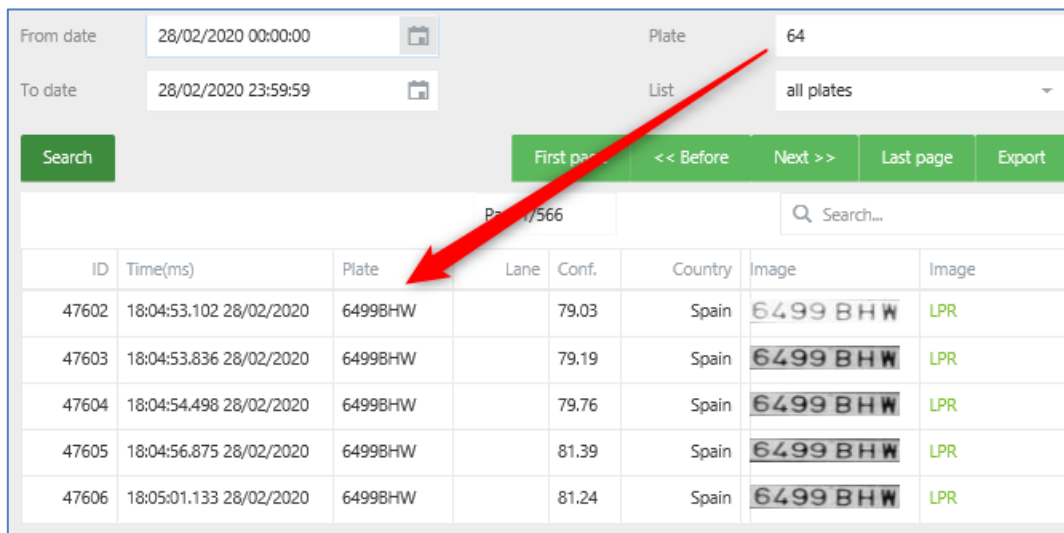
The green box corresponds to the amount of results do you want to view per page.

The Red Box shows the license plate number images. If you move the mouse cursor over any image you will obtain a larger image.



There is a download image option.

Searching for a license plate which we only remember a few letters or numbers. In this case, all you need to do is enter a part of the plate in the PLATE filter and search.



From date: 28/02/2020 00:00:00 To date: 28/02/2020 23:59:59 Plate: 64 List: all plates

Search First page << Before Next >> Last page Export

Page 1/566 Search...

ID	Time(ms)	Plate	Lane	Conf.	Country	Image	Image
47602	18:04:53.102 28/02/2020	64998HW		79.03	Spain	64998HW	LPR
47603	18:04:53.836 28/02/2020	64998HW		79.19	Spain	64998HW	LPR
47604	18:04:54.498 28/02/2020	64998HW		79.76	Spain	64998HW	LPR
47605	18:04:56.875 28/02/2020	64998HW		81.39	Spain	64998HW	LPR
47606	18:05:01.133 28/02/2020	64998HW		81.24	Spain	64998HW	LPR

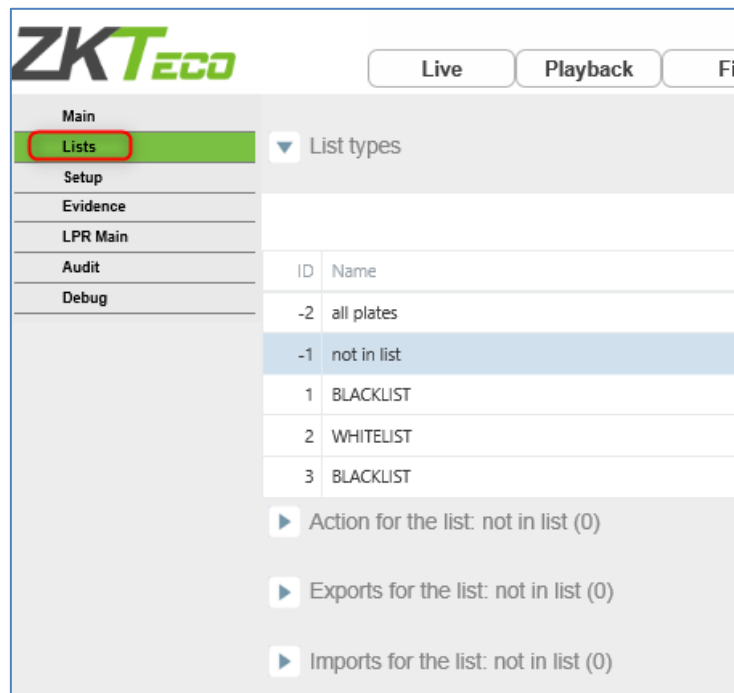
You also can search for license plates that are in a list.

1503	11:21:43.254 28/02/2019			99.10	Spain	BLACKLIST
1504	11:22:20.612 28/02/2019			93.55	Spain	
1505	11:22:34.864 28/02/2019			99.90	Spain	
1506	11:23:27.830 28/02/2019			95.53	Spain	
1507	11:24:47.292 28/02/2019			86.34	Spain	BLACKLIST

4.4. List Tab

In this tab you can create lists, a list is a group of license plates that will trigger an action, ZKTeco allows you perform different actions to any list.

By default, there are 4 lists created, ALL PLATES, NOT IN LIST, BLACKLIST, and WHITELIST. You can edit, delete or add more lists.



In the lists tab we have the following options:

List: Will show all the lists created

Action: Will show all the actions created by list.

Export: Allows you export a single list or if all plates are selected it will create a unique file with all the licenses plates that belong to that list.

Import: Allows you import a single list or if all plates are selected it will create a unique file with all the licenses plates that belong to that list.

Let's create a new list and call it "EMPLOYEES"

Click on the "+" button, text the list name and click on "Save".

Now we are going to configure an action for this list, in other words, what we expect to happen if we read a license plate.


Click on “EMPLOYEES” list to see the options.

List of the license plates: EMPLOYEES

Add a new license plate, click on the “+” button and fill in the grid.

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To edit or delete a license plate in that list, just click on the plate and then:

					+		<input type="text" value="Search..."/>
Plate	Description	Insert Date	Start validity date	End validity date			
005OCR	NAME LASTNBAME	01/04/2019 13:33:23	01/04/2019 13:33:23	01/01/3000 00:00:00			Edit Delete

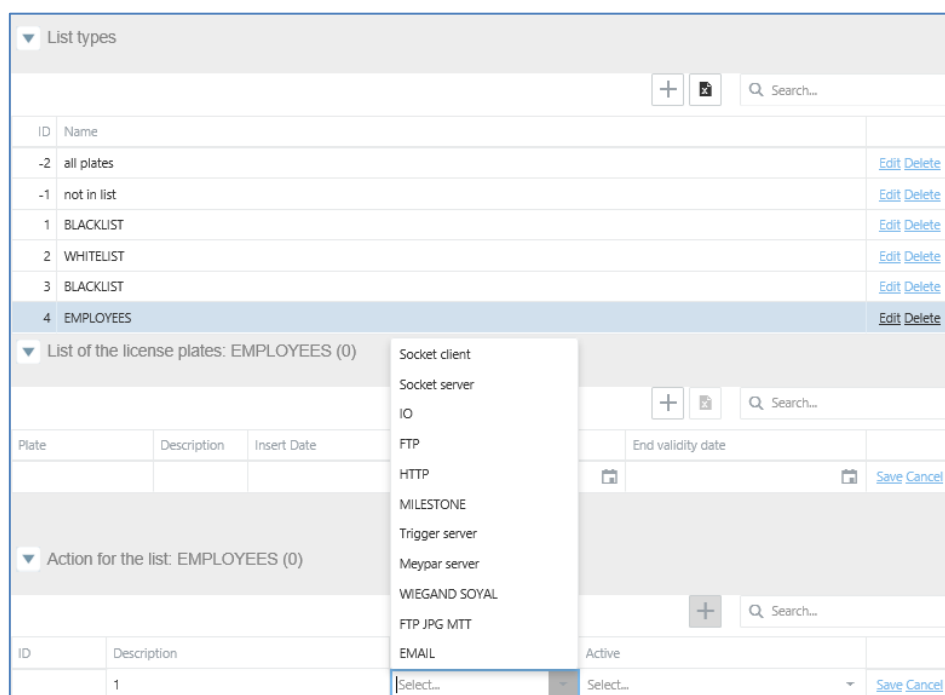
*In case if the system works in trigger mode and we want to execute a no plate action, we have to add NO_PLATE to the list.

Action for the list: Here are all the actions we can configure for each list.

- **Socket Client:** Enable a socket connection to send messages as XML or JSON
- **Socket Server:** Open a port in the camera to listen to hosts to send messages as XML or JSON.
- **IO:** Enable inbound and outbound digital signals in the camera.
- **FTP:** store the results in an FTP server.
- **HTTP:** send a request using this protocol to a server.
- **MILESTONE:** send an analytic event to Milestone VMS.
- **WIEGAND:** send a signal to Wiegand middleware board.
- **Trigger Server:** Enable a port that sends the read response when a trigger message arrives.
- **WIEGAND SOYAL:** send a signal to Wiegand middleware board (Same action than Wiegand).
- **FTP JPG MTT:** the functionality it's the same one realized with FTP, with a few differences because with this one you can create a structure of subfolders, contains information like camera, year, month and day.
- **EMAIL:** send an email.

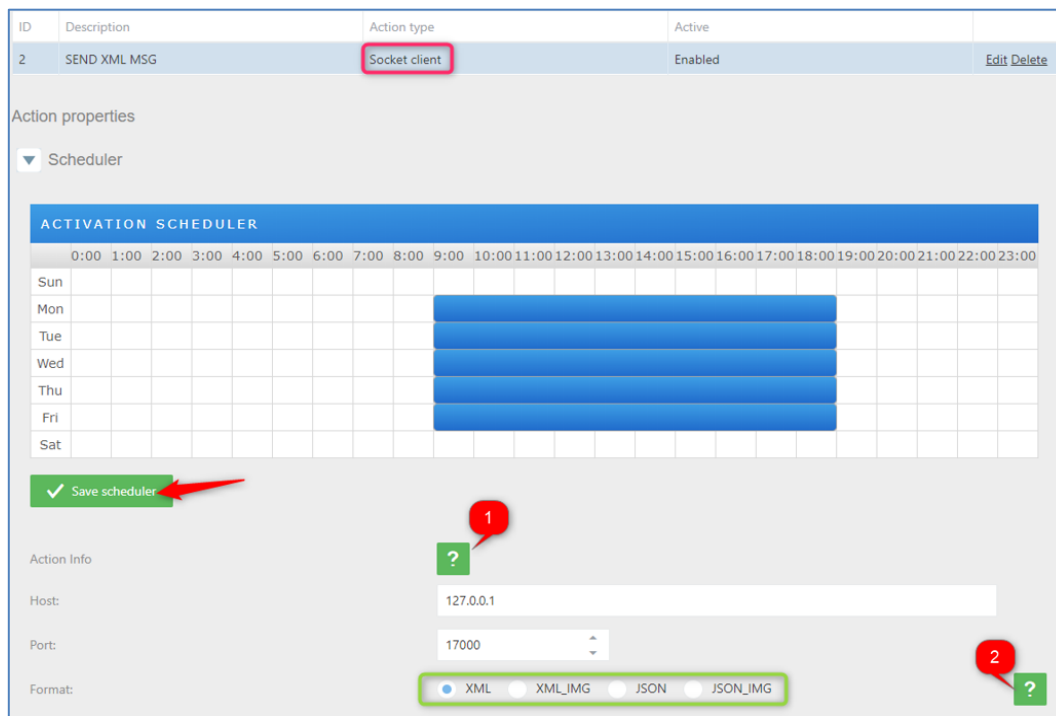
A list can perform several actions, depending on the scenario and needs.

Having the Employees list selected, click on “Action for the list” and then click on the + button.



The screenshot displays the 'List types' section of the software. A table lists various list types, with 'EMPLOYEES' (ID 4) selected. Below this, the 'List of the license plates: EMPLOYEES (0)' section is visible. The 'Action for the list: EMPLOYEES (0)' dropdown menu is open, showing a list of actions. The 'EMAIL' action is highlighted. The interface also includes search bars and buttons for adding, deleting, and saving configurations.

1. Configuring the action **Socket Client** because you want to send the results to another device, using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = Socket Client”.



ID	Description	Action type	Active	
2	SEND XML MSG	Socket client	Enabled	Edit Delete

Action properties

▼ Scheduler

ACTIVATION SCHEDULER

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

✓ Save scheduler

Action Info

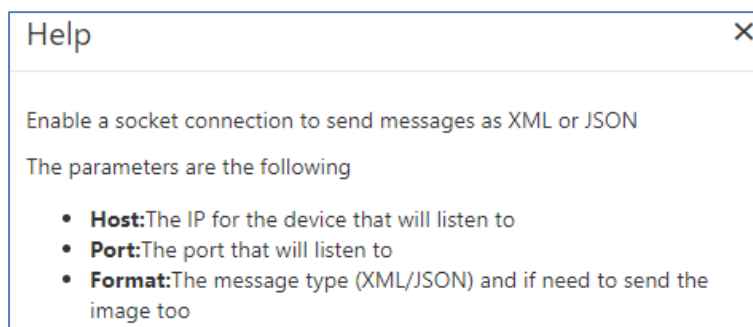
Host: 127.0.0.1

Port: 17000

Format: ☒ XML ☐ XML_IMG ☐ JSON ☐ JSON_IMG

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Action Info: Click on  for more information.



Help

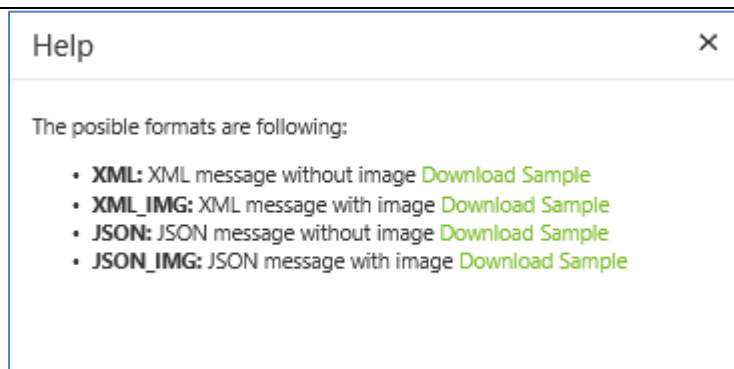
Enable a socket connection to send messages as XML or JSON

The parameters are the following

- **Host:**The IP for the device that will listen to
- **Port:**The port that will listen to
- **Format:**The message type (XML/JSON) and if need to send the image too

Select which message format you will use to send the information.

Click on  for more information about format type.



2. Configuring the action **Socket Server** will use the camera to receive messages from other devices.

ID	Description	Action type	Active	
4	Receive XML msg	Socket server	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Save scheduler

Action Info

Port: 8050

Format: ☐ XML ☐ XML_IMG ☐ JSON ☒ JSON_IMG

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Action Info: Click on for more information.

Help

Open a port in the camera to listen to hosts to send messages as XML or JSON

The parameters are the following

- Port:**The port that will listen
- Format:**The message type (XML/JSON) and if need to send the image too

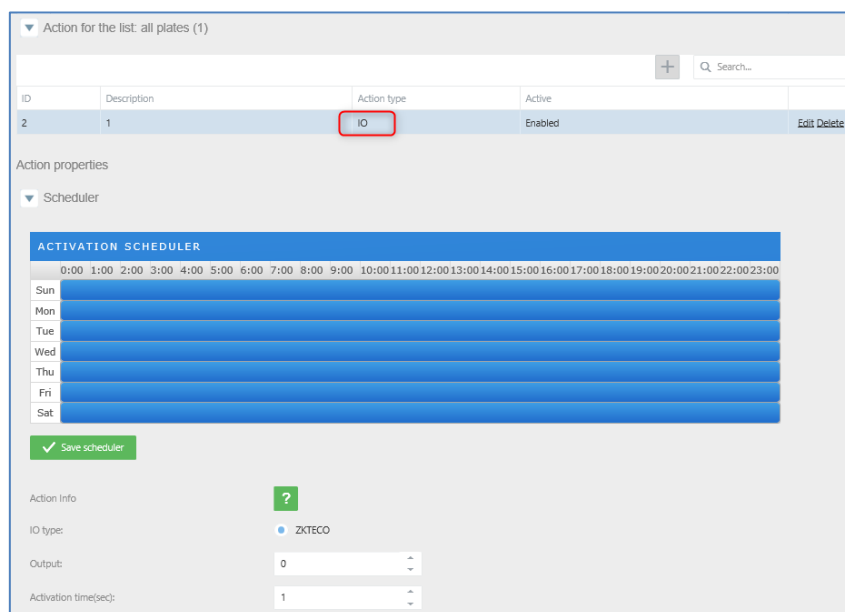
Click on for more information about format type.

Help

The possible formats are following:

- XML:** XML message without image [Download Sample](#)
- XML_IMG:** XML message with image [Download Sample](#)
- JSON:** JSON message without image [Download Sample](#)
- JSON_IMG:** JSON message with image [Download Sample](#)

3. Configuring the action **IO** to open a gate for those plates that belong to the list EMPLOYEES. Click on “Action for the list” and add a new action pressing “+” and then select in “Action type = IO”



ID	Description	Action type	Active	
2	1	IO	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun
Mon
Tue
Wed
Thu
Fri
Sat

Save scheduler

Action Info

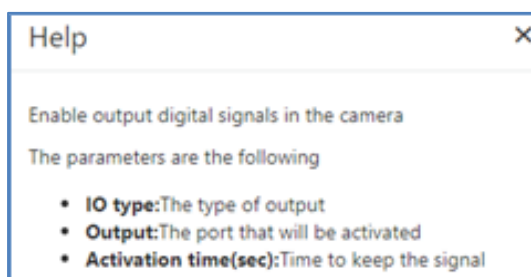
IO type: ZKTECO

Output: 0

Activation time(sec): 1

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.

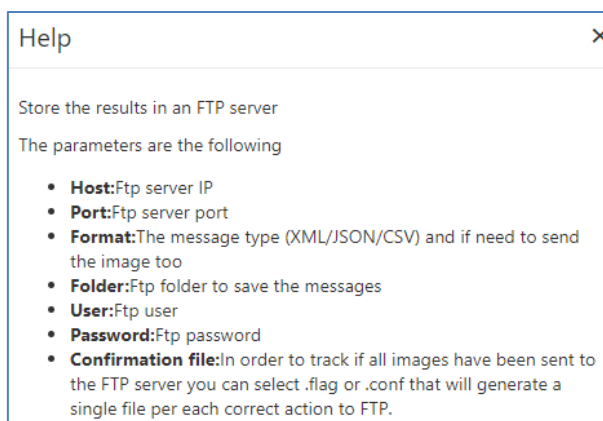


In this case, every time we read a license plate that is in the EMPLOYEES list, we send a signal to the camera I/O to open the gate.

4. Configuring the action **FTP** to send an XML, JSON or image to an FTP server. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = FTP”

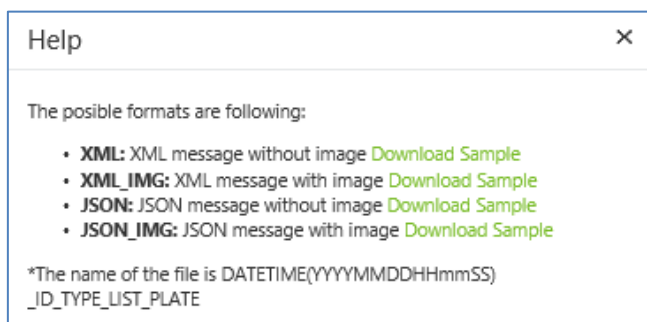
Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.



Select which message format you will use to send the information.

Click on  for more information about format type.



5. Configuring the action **HTTP** to send analytic events to a VMS. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = HTTP”

You can use wildcards in the “Url” param to include some information in the http petition:

#DTE# Time stamp of the image captured.

#IDCAM# Camera identifier

#PLT# Plate number

#CNF# Global confidence

#IDLAN# Lane identifier (1 or 2)

#IDLIST# List of list identifiers separated by []. [-1] not in list

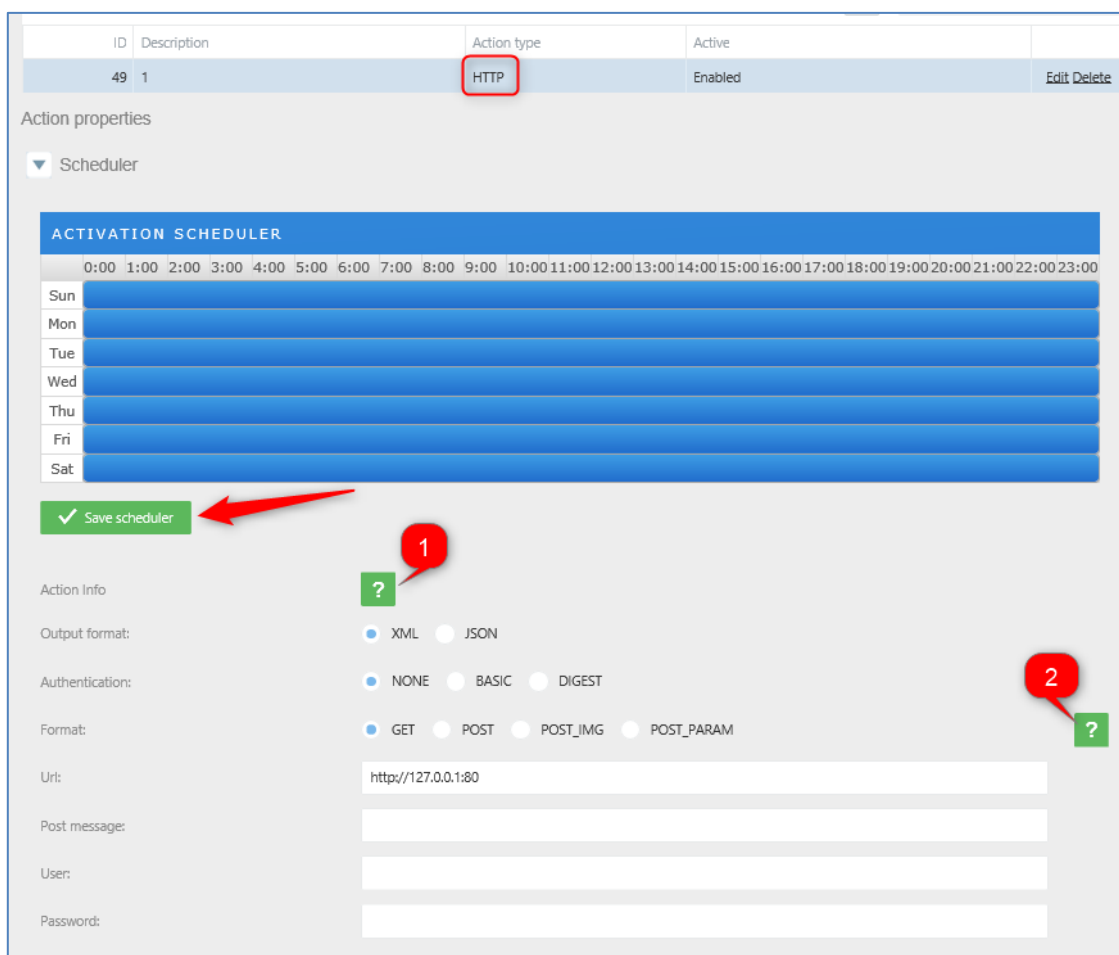
Examples:

`http://192.168.1.23:80?plate=#PLT#&time=#DTE#`

`http://192.168.1.23:80?plate=0715GYC&time=2019-09-27T18:49:19.912`

`http://192.168.1.34:8090?plate=#PLT#&cam=#IDCAM#&time=#DTE#&conf=#CNF#&lane=#IDLAN#&list=#IDLIST#`

`http://192.168.1.34:8090?plate=0715GYC&cam=1&time=2019-09-27T18:52:49.929&conf=99.90&lane=2&list=[-1]`



ID	Description	Action type	Active	
49	1	HTTP	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun
Mon
Tue
Wed
Thu
Fri
Sat

Save scheduler

Action Info

Output format: ☒ XML ☐ JSON

Authentication: ☒ NONE ☐ BASIC ☐ DIGEST

Format: ☒ GET ☐ POST ☐ POST_IMG ☐ POST_PARAM

Url:

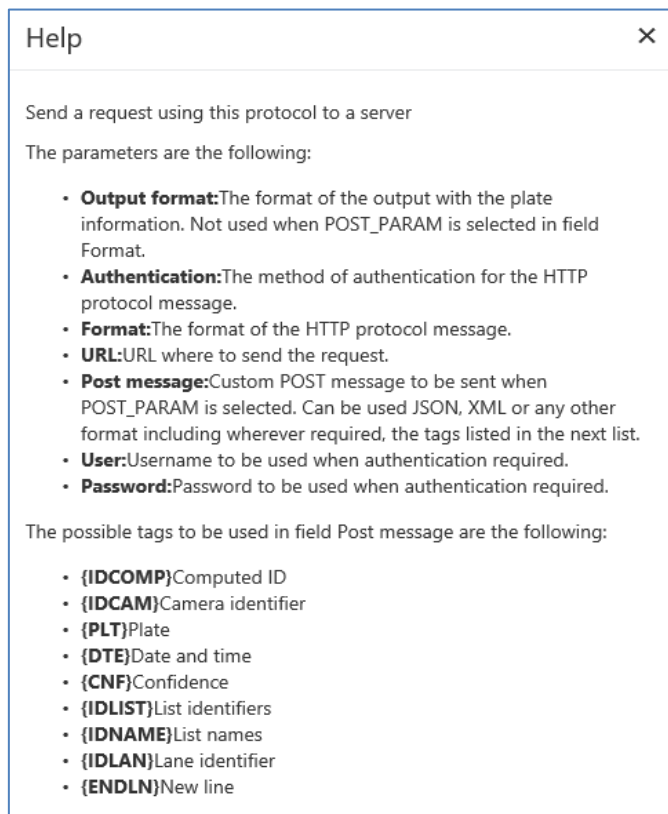
Post message:

User:

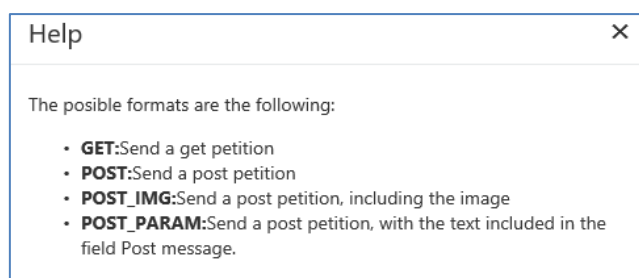
Password:

Set the scheduler as needed and click on “SAVE SCHEDULER”.

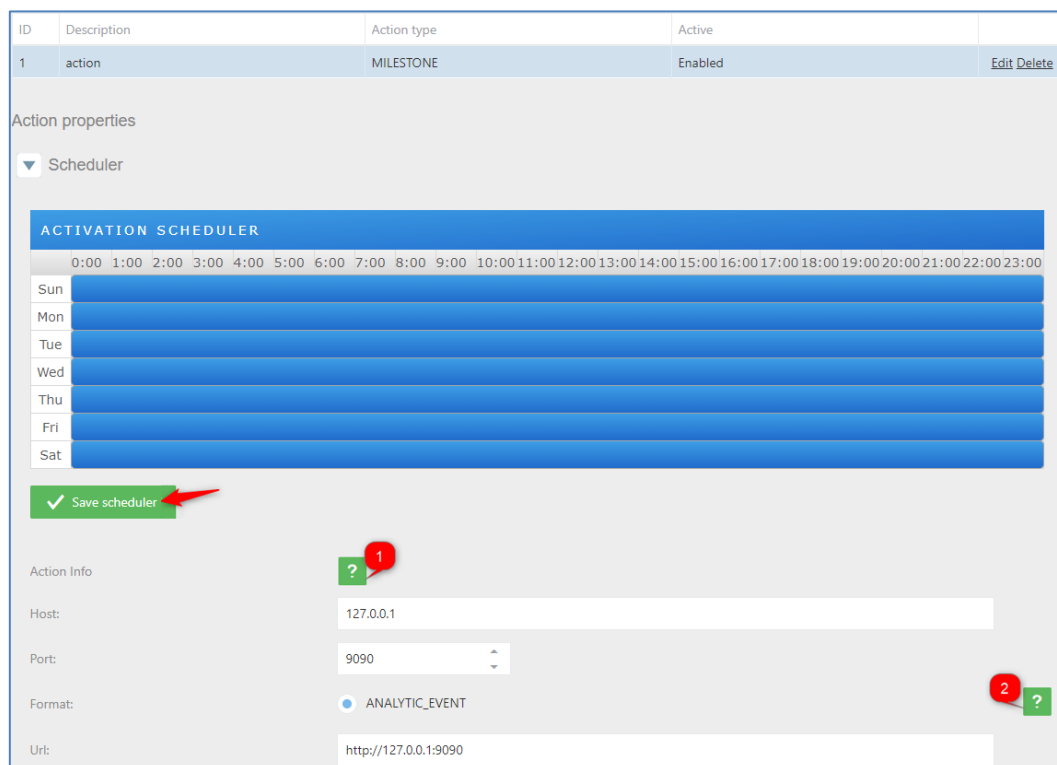
Click on  for more information about how to configure.



Click on  for more information about format type.



6. Configuring the action **MILESTONE** to send analytic events to a Milestone VMS. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = MILESTONE”.



ID	Description	Action type	Active	
1	action	MILESTONE	Enabled	Edit Delete

Action properties

▼ Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun

Mon

Tue

Wed

Thu

Fri

Sat

✓ Save scheduler

Action Info

Host: 127.0.0.1

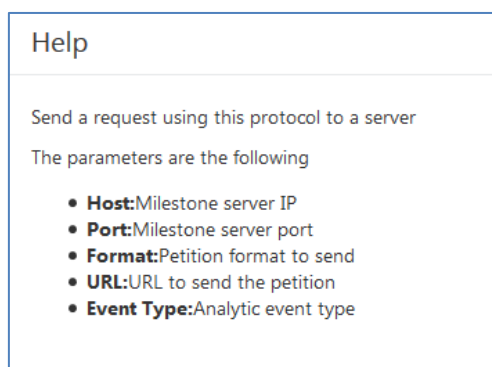
Port: 9090

Format: ANALYTIC_EVENT

Url: http://127.0.0.1:9090

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.



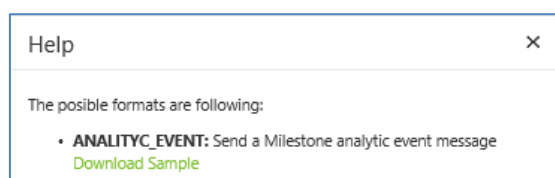
Help

Send a request using this protocol to a server

The parameters are the following

- **Host:** Milestone server IP
- **Port:** Milestone server port
- **Format:** Petition format to send
- **URL:** URL to send the petition
- **Event Type:** Analytic event type

Click on  for more information about format type.



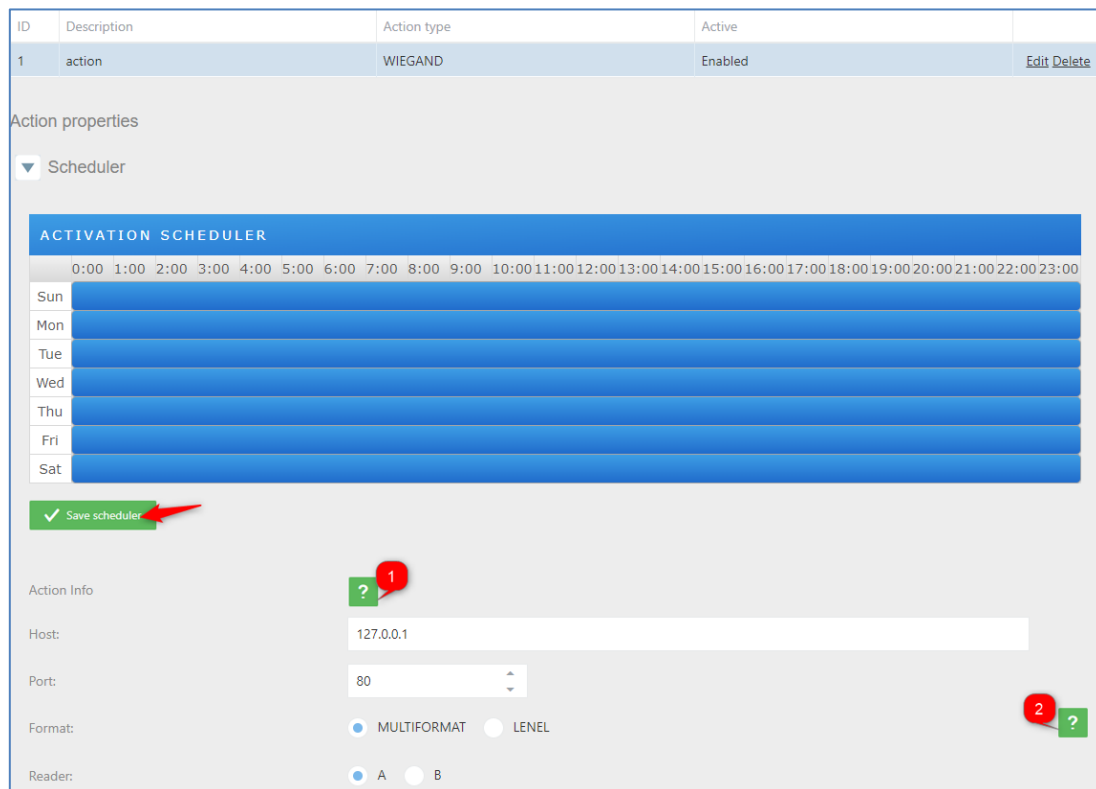
Help

The possible formats are following:

- **ANALYTIC_EVENT:** Send a Milestone analytic event message
[Download Sample](#)

See chapter 4.4.1 to know more information to how configure Milestone.

7. Configuring the action **WIEGAND** to send analytic events to a Wiegand middleware board. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = WIEGAND”



ID	Description	Action type	Active	
1	action	WIEGAND	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun Mon Tue Wed Thu Fri Sat

Save scheduler

Action Info

Host: 127.0.0.1

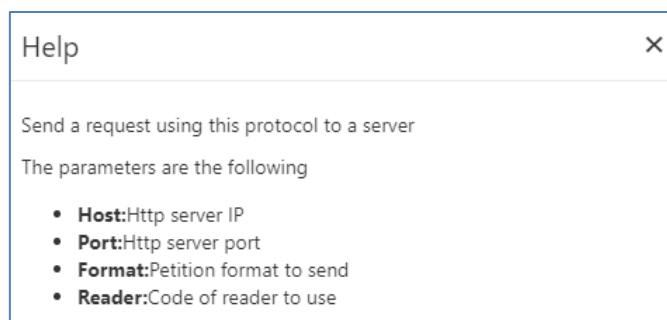
Port: 80

Format: ☒ MULTIFORMAT ☐ LENEL

Reader: ☒ A ☐ B

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.



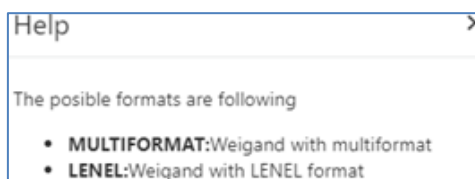
Help

Send a request using this protocol to a server

The parameters are the following

- **Host:**Http server IP
- **Port:**Http server port
- **Format:**Petition format to send
- **Reader:**Code of reader to use

Click on  for more information about format type.



Help

The posible formats are following

- **MULTIFORMAT:**Weigand with multiformat
- **LENEL:**Weigand with LENEL format

8. Configuring the action **Trigger Server** will use the camera to receive triggers from other devices and send a message. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = Trigger Server”.

This mode is designed to work with trigger mode, the client connect to the server socket and send the message specified in the “Trigger mode”, received this message (another message is discarded) make a trigger to the camera and take a picture to process the engine. After engine processed send a message with the format specified in the “Format response”

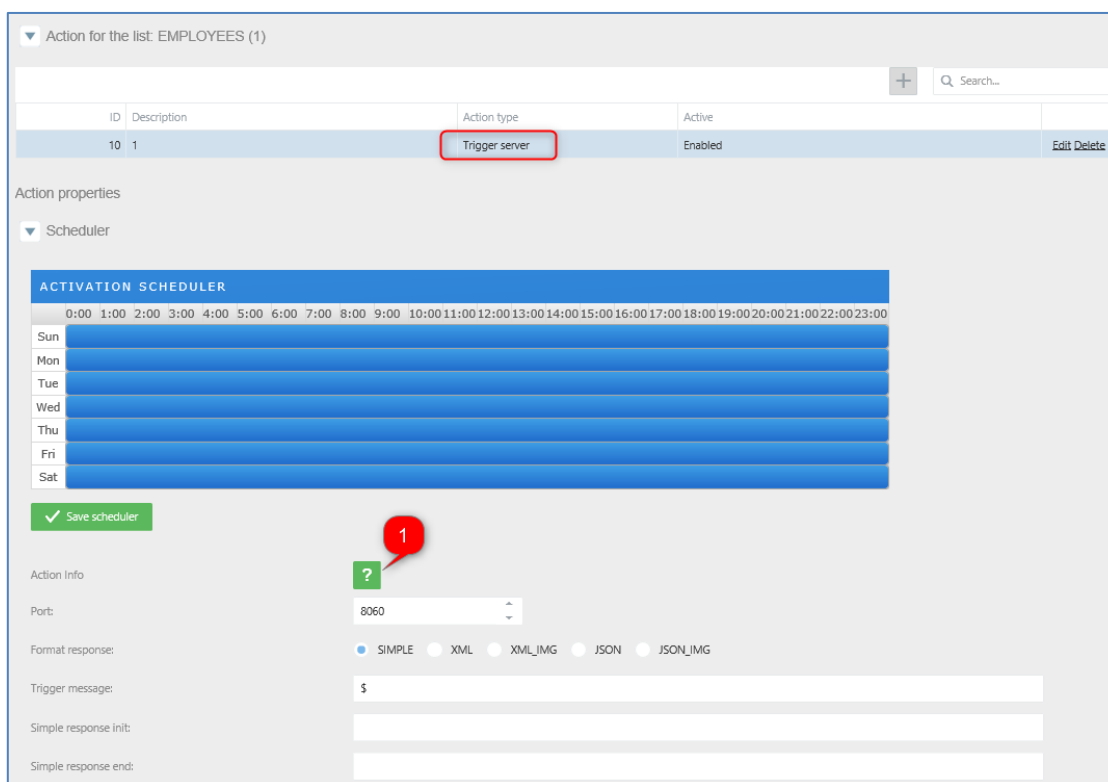
SIMPLE: Just the plate number

XML a message in format XML

XML_IMG a message in XML format including the image in base64 format

JSON a message in format JSON

JSON_IMG a message in JSON format including the image in base64 format



▼ Action for the list: EMPLOYEES (1)

ID	Description	Action type	Active	
10	1	Trigger server	Enabled	Edit Delete

Action properties

▼ Scheduler

ACTIVATION SCHEDULER

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

✓ Save scheduler

Action Info

Port: 8060

Format response: ☒ SIMPLE ☐ XML ☐ XML_IMG ☐ JSON ☐ JSON_IMG

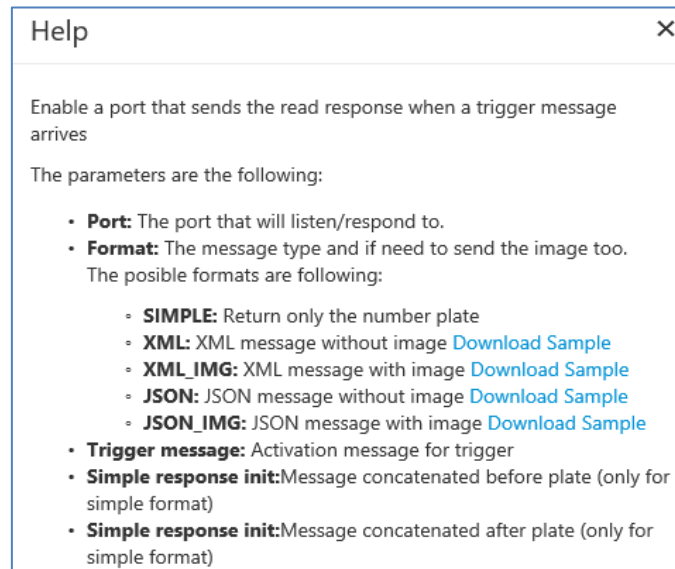
Trigger message: \$

Simple response init:

Simple response end:

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.



9. Configuring the action **WIEGAND SOYAL** to send analytic events to a Wiegand middleware board. Using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = WIEGAND”.

ID	Description	Action type	Active	
12	WS	WIEGAND SOYAL	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun
Mon
Tue
Wed
Thu
Fri
Sat

Save scheduler

Action Info

Host: 192.168.1.173

Port: 1601

Output format: ☐ Bypass data bits ☒ Even/Odd parity bits ☐ Odd/Even parity bits

Output bit length: ☒ 24 bits ☐ 32 bits

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on for more information about how to configure.

Help

Send a request using this protocol to a server

The parameters are the following:

- **Host:**Http server IP
- **Port:**Http server port
- **Output format:**Parity bits configuration of the output
- **Output bit length:**Number of bits of the output without parity bits

Click on for more information about format type.

Help


The possible output formats are the following:

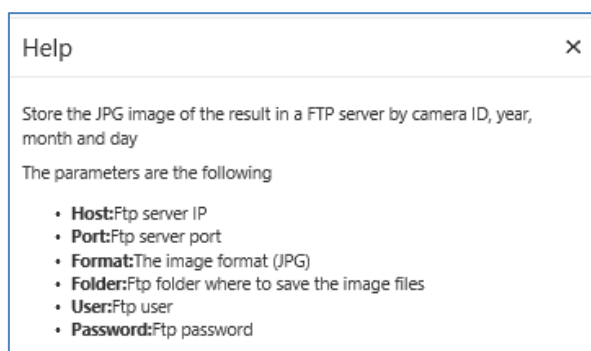
- **Bypass data bits:**No parity bits are added to the output
- **Even/Odd parity bits:**The leading parity bit is even, and the ending parity bit is odd
- **Odd/Even parity bits:**The leading parity bit is odd, and the ending parity bit is even

The output bit length without parity bits can be 24 or 32 bits

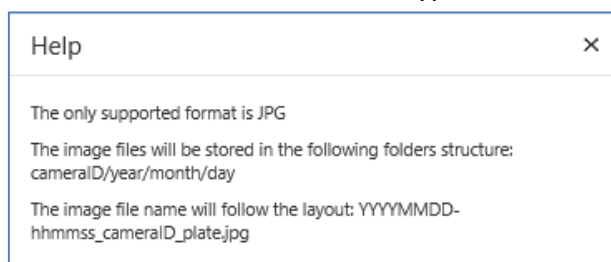
10. Configuring the action **FTP JPG MTT** using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = FTP JPG MTT”.

Set the scheduler as needed and click on “SAVE SCHEDULER”.

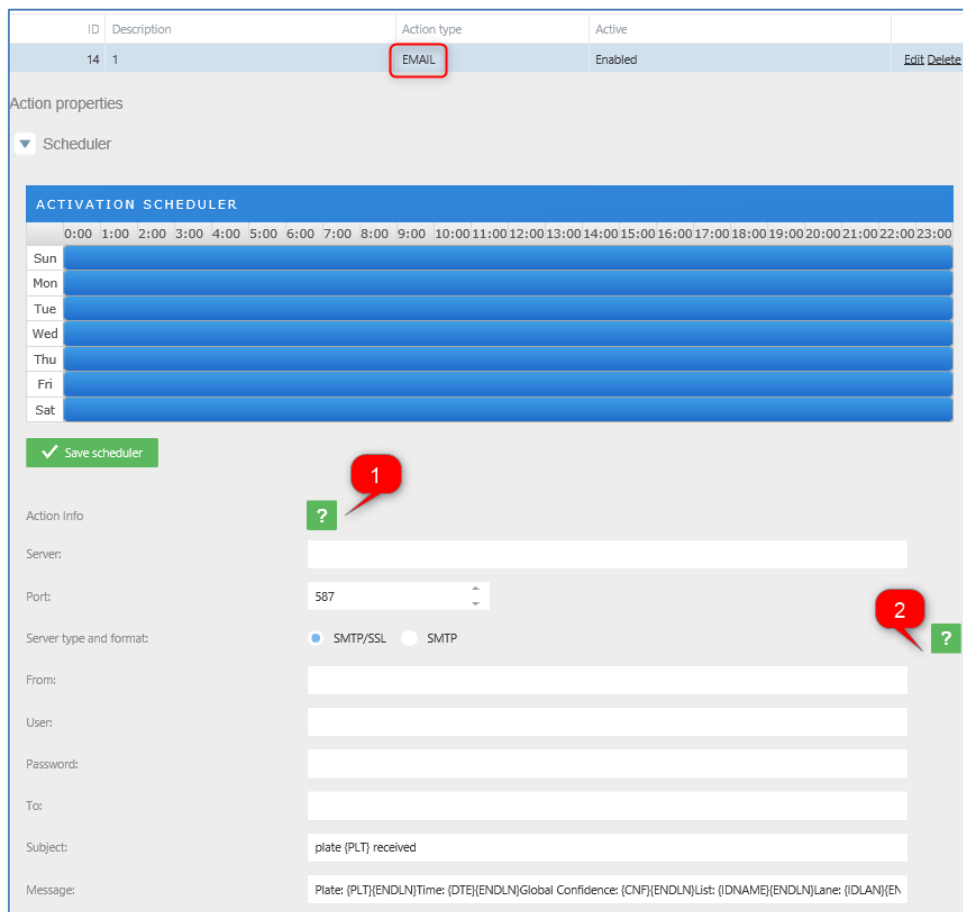
Click on  for more information about how to configure.



Click on  for more information about format type.



11. Configuring the action **EMAIL** to send messages, using the EMPLOYEES list, click on “Action for the list” and add a new action pressing “+” and then select in “Action type = EMAIL”.



ID	Description	Action type	Active	
14	1	EMAIL	Enabled	Edit Delete

Action properties

Scheduler

ACTIVATION SCHEDULER

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

Sun
Mon
Tue
Wed
Thu
Fri
Sat

Save scheduler

Action Info

Server:

Port: 587

Server type and format: ☒ SMTP/SSL ☐ SMTP

From:

User:

Password:

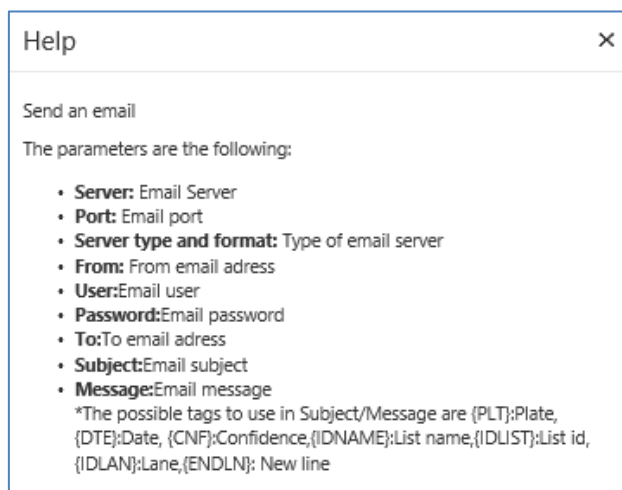
To:

Subject: plate (PLT) received

Message: Plate: {PLT}{ENDLN}Time: {DTE}{ENDLN}Global Confidence: {CNF}{ENDLN}List: {IDNAME}{ENDLN}Lane: {IDLAN}{EN

Set the scheduler as needed and click on “SAVE SCHEDULER”.

Click on  for more information about how to configure.




Help

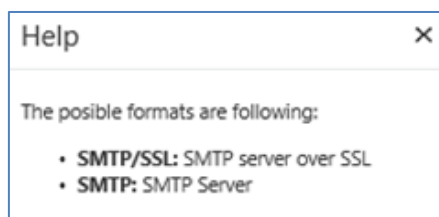
Send an email

The parameters are the following:

- **Server:** Email Server
- **Port:** Email port
- **Server type and format:** Type of email server
- **From:** From email address
- **User:** Email user
- **Password:** Email password
- **To:** To email address
- **Subject:** Email subject
- **Message:** Email message

*The possible tags to use in Subject/Message are {PLT};Plate, {DTE};Date, {CNF};Confidence,{IDNAME};List name,{IDLIST};List id, {IDLAN};Lane,{ENDLN}; New line

Click on  for more information about format type.



In case, you don't want to continue using an action in a list you can modify able to disable or delete the action.

To disable click on the list, select the action and then click on edit option.

In Active change to Disabled and then click on Save.

▼

Action for the list: EMPLOYEES (0)

+

Q Search...

ID	Description	Action type	Active	
	open gate	IO	<div>Select...</div> <div>Disabled</div> <div>Enabled</div>	<div>Save</div> <div>Cancel</div>

▶

Exports for the list: EMPLOYEES (0)

After this change, you will have the action disabled in case you need to use it later.

+

Q Search...

ID	Description	Action type	Active	
3	open gate	IO	Disabled	<div>Edit</div> <div>Delete</div>

To delete an action, click on the action and click on the DELETE button and then YES.

▼

Action for the list: EMPLOYEES (1)

+

Q Search...

ID	Description	Action type	Active	
2	Test	Trigger server	Enabled	<div>Edit</div> <div>Delete</div>

Are you sure to delete the action from list?

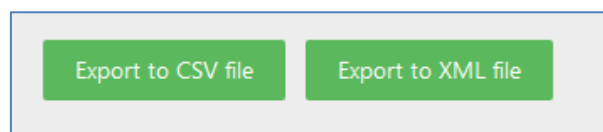
Yes

No

Exports for the list: Here are all the automatic exports we can configure for each list.

- Local matches: Exports the matches of the list locally
- FTP matches: Exports the matches of the to an FTP server
- Local list: Exports the list locally
- FTP list: Export the list to an FTP server

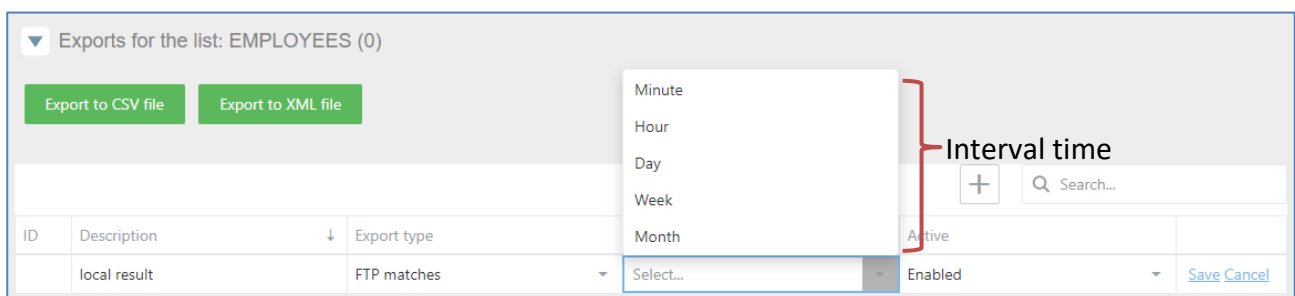
You can also download the selected list pressing the button “Export to XML file” or “Export to CSV file”



A list can perform several exports, depending on the scenario and needs.

Having the Employees list selected, click on “Exports for the list” and then click on the + button and define the type and interval. The interval can be set as:

- *Minute:* Will execute the task every minute.
- *Hour:* Will execute the task every hour.
- *Day:* Will execute the task once a day at 23:59:59.
- *Week:* Will execute the task once a week, every Monday at 00:00:00.
- *Month:* Will execute the task once a month, the first day of the month at 23:59:59.



1. Configuring the export **FTP matches** to export the results to an ftp result, using the EMPLOYEES list, click on “Export for the list” and add a new export pressing “+” and then select in “Export type = FTP matches”.

ID	Description	Export type	Interval	Active	
1	local result	FTP matches	Hour	Enabled	Edit Delete

Export properties

Export Info

Host: 127.0.0.1

Port: 21

Format: ☒ XML ☐ XML_IMG ☐ JSON ☐ JSON_IMG ☐ CSV

Folder name:

User:

Password:

Confirmation file: ☒ NONE ☐ .FLAG ☐ .CONF

Click on for more information about how to configure.

Help

Export the results in an FTP server

The parameters are the following

- **Host:**Ftp server IP
- **Port:**Ftp server port
- **Format:**The message type (XML/JSON)
- **Folder:**Ftp folder to save the messages
- **User:**Ftp user
- **Password:**Ftp password
- **Confirmation file:**In order to track if all images have been sent to the FTP server you can select .flag or .conf that will generate a single file per each correct action to FTP.

Click on for more information about format type.

Help

The possible formats are following

- **XML:**XML results without image [Download Sample](#)
- **XML_IMG:**XML results with image [Download Sample](#)
- **JSON:**JSON results without image [Download Sample](#)
- **JSON_IMG:**JSON results with image [Download Sample](#)
- **CSV:**CSV results [Download Sample](#)

2. Configuring the export **FTP lists** to export the list locally, using the EMPLOYEES list, click on “Export for the list” and add a new export pressing “+” and then select in “Export type = FTP list”.

ID	Description	Export type	Interval	Active	
1	local result	FTP list	Hour	Enabled	Edit Delete

Export properties

Export Info

Host:

Port:

Format: ☒ XML ☐ CSV

Folder name:

User:

Password:

Confirmation file: ☐ .FLAG

Click on for more information about how to configure.

Help

Export the lists in an FTP server

The parameters are the following

- **Host:**Ftp server IP
- **Port:**Ftp server port
- **Format:**The message type (XML)
- **Folder:**Ftp folder to save the lists
- **User:**Ftp user
- **Password:**Ftp password
- **Confirmation file:**In order to track if all files have been sent to the FTP server, it will generate a single file per each correct action to FTP.

Click on for more information about format type.

Help

The possible formats are following

- **XML:**XML list [Download Sample](#)
- **CSV:**CSV list [Download Sample](#)

In case, you don't want to continue to use export in a list you are able to disable or delete the action.

To delete click on the list, select the export and then click on delete option.

ID	Description	Export type	Interval	Active	
2	11111	FTP list	Minute	Enabled	Edit Delete

To disable click on the list, select the action and then click on edit option.

In *Active* change to *Disabled* and then click on Save.

ID	Description	Export type	Interval	Active	
2	11111	FTP list	Minute	Disabled	Save Cancel

After this change, the action disabled in case you need to use it later.

The "Enable if change" state, only do the export if the export type is "Local list" or "FTP list" and export the list only if exits any change.

ID	Description	Export type	Interval	Active	
2	11111	FTP list	Minute	Enabled if change	Save Cancel

To delete an action, click on the action and click on the DELETE button and then YES.

ID	Description	Export type	Interval	Active	
2	11111	FTP list	Minute	Enabled	Edit Delete

Import for the list: Here are all the automatic imports we can configure for each list.

- FTP list: Import the list to an FTP server
- SINCRO camera: Import the list from another camera

You can also import the list manually uploading an xml list file.

Select import XML/CSV file

or Drop import XML/CSV file here

☐ Delete the list elements at import

The format of the XML is the following:

```
<?xml version = "1.0" encoding = "utf-8" ?>
<grouplist>
<nllists>
    <nllist id="3" sendserver="0" dateserver="" reserve="" description="EMPLOYEES" color=""/>
</nllists>
<nlelemlists>
<nlelemlist id="1" sendserver="0" dateserver="" reserve="" numberplate="AAA123" listid="3" timestamp=""
description="EMP 1" startvaliditydate="2000-01-01T00:00:00.000" endvaliditydate="3000-01-01T00:00:00.000"/>

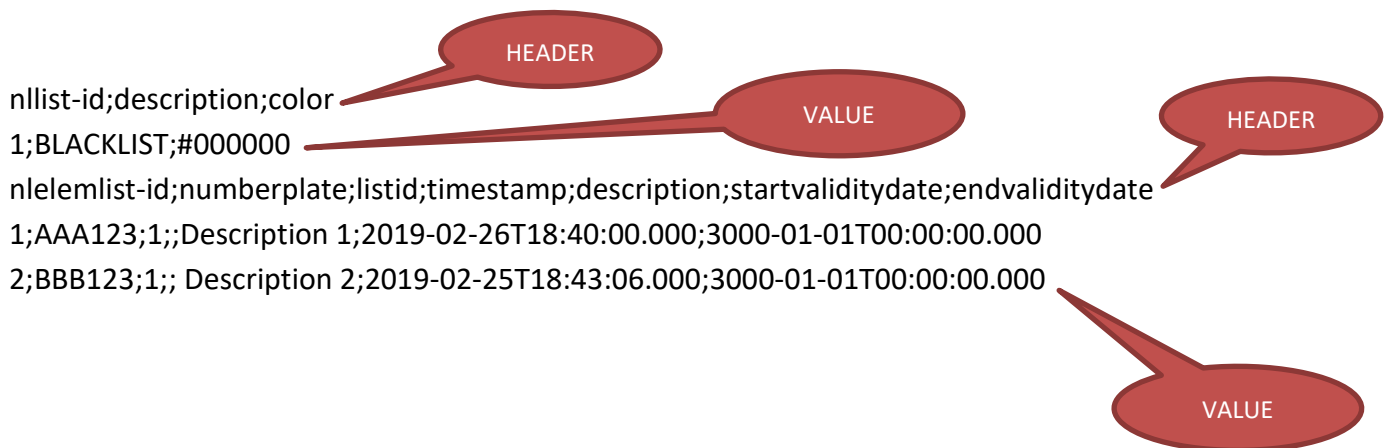
<nlelemlist id="2" sendserver="0" dateserver="" reserve="" numberplate="BBB321" listid="3" timestamp=""
description="EMP 2" startvaliditydate="2000-01-01T00:00:00.000" endvaliditydate="3000-01-01T00:00:00.000"/>

</nlelemlists>
</grouplist>
```

- Grouplist: the main element of the xml
- Nllists: The group of type of lists
- Nlist: The list type element, on:
 - Id= Id of the list
 - Sendserver = Always 0
 - Dateserver= Always ""
 - Reserve = Always ""
 - Description= The name of the list
 - Color = Always ""
- Nlelemlists: the group of the elements of the list

- Nlelemlist: the element in list, on:
 - Id= Id of the element
 - Sendserver = Always 0
 - Dateserver= Always ""
 - Reserve = Always ""
 - Numberplate= Plate number of the element
 - Listid= Id of the list
 - Timestamp= Always ""
 - Description= Description of the plate number
 - Startvaliditydate= Start date of validity period
 - Endvaliditydate= End date of validity period

The format of CSV is the following:



The first block of HEADER-VALUE is the type of list which values are:

- nlist-id: Id of the list
- description: Description of the list
- color: Color of the list (NOT IN USE)

The second block of HEADER-VALUE are the elements of list which values are:

- nlelemlist-id: Id of the list element
- numberplate: Plate number
- listid: Id of list type
- timestamp: Always ""
- description: Description of the number plate.
- Startvaliditydate: Start validity date of the number plate.
- Endvaliditydate: End validity date of the number plate.

A list can perform several imports, depending on the scenario and needs.

Having the Employees list selected, click on “Imports for the list” and then click on the + button and define the type and interval. The interval can be set as:

- *Minute*: Will execute the task every minute.
- *Hour*: Will execute the task every hour.
- *Day*: Will execute the task once a day at 23:59:59.
- *Week*: Will execute the task once a week, every Monday at 00:00:00.
- *Month*: Will execute the task once a month, the first day of the month at 23:59:59.

1. Configuring the import **FTP list** to import the list from an ftp result, using the EMPLOYEES list, click on “Import for the list” and add a new import pressing “+” and then select in “Import type = FTP list”.

ID	Description	Import type	Interval	Active	
1	import	FTP list	Day	Enabled	Edit Delete

Import properties

Import Info

?

1

Host:
127.0.0.1
Port:
21
Format:
☒ XML
☐ XML_NOTDELETE
☐ CSV
☐ CSV_NOTDELETE

2

?


Folder name:
User:
Password:
Confirmation file:
☒ .FLAG

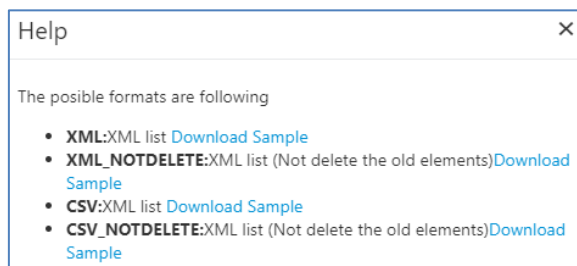
Click on  for more information about how to configure.

Help

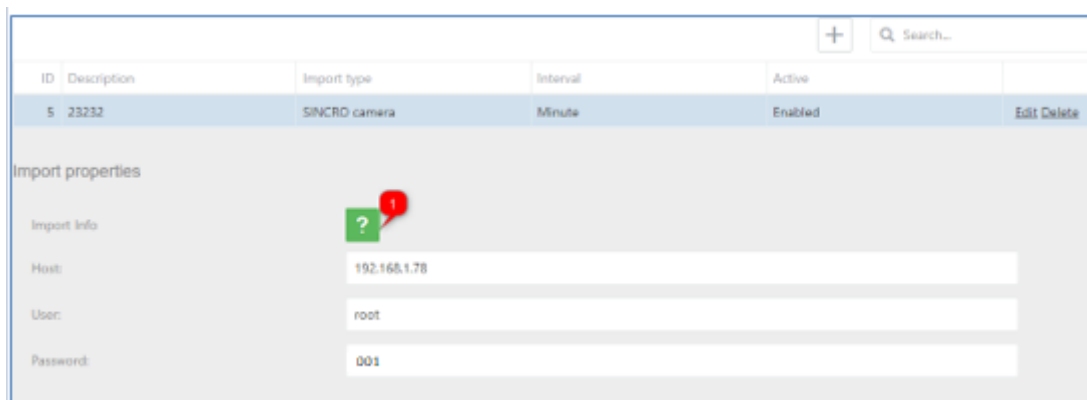
Import the lists from an FTP server
The parameters are the following

- **Host**:Ftp server IP
- **Port**:Ftp server port
- **Format**:The message type (XML)
- **Folder**:Ftp folder to save the lists
- **User**:Ftp user
- **Password**:Ftp password
- **Confirmation file**:In order to track if list have been recieve from the FTP server.

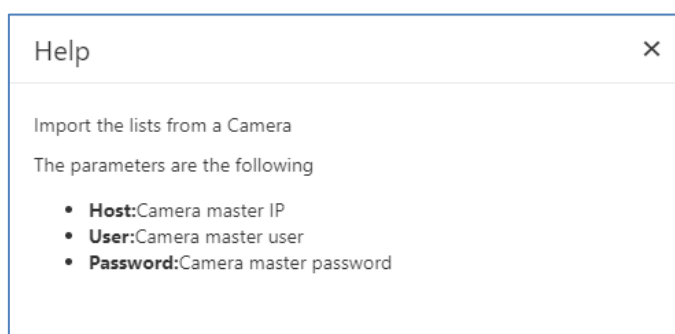
Click on  for more information about format type.



2. Configuring the import **SINCRO camera** to import the list from another camera, using the EMPLOYEES list, click on “Import for the list” and add a new import pressing “+” and then select in “Import type = SINCRO Camera”.



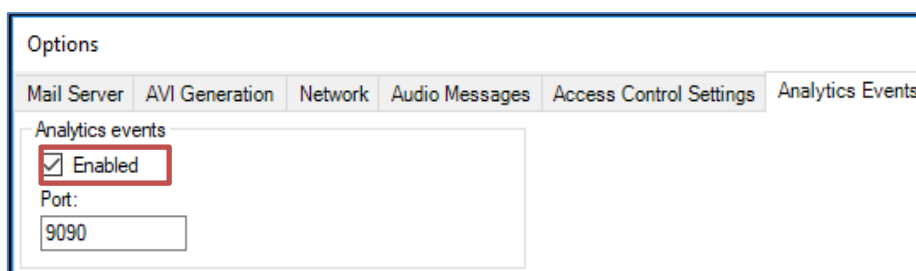
Click on  for more information about how to configure.



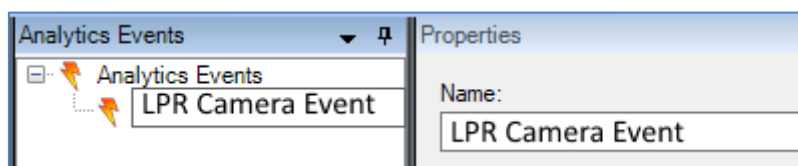
4.4.1 Configure Milestone

Once the Milestone action is configured, we need set up Milestone server to process our action. To do this, we follow the next steps:

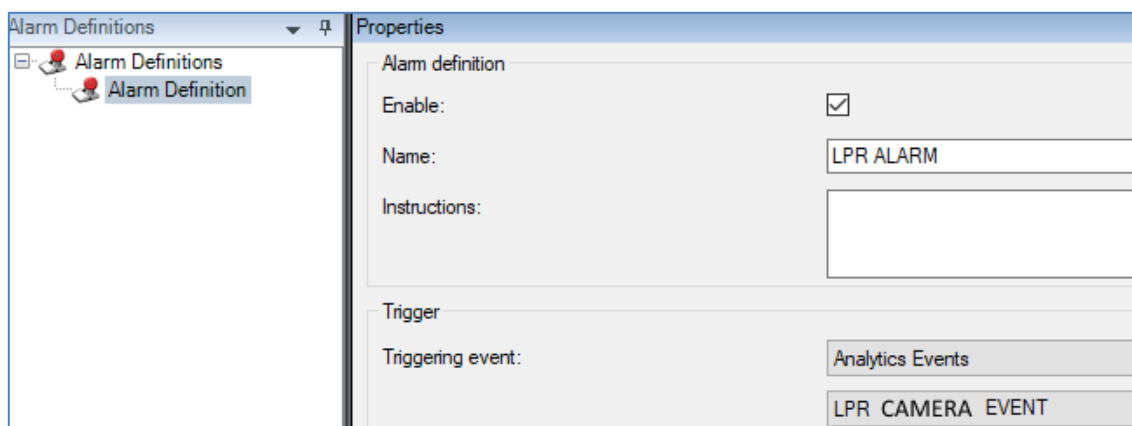
- 1- Enable analytic events.
 - a. We click to Tool -> Options and select the “Analytics Event” tab. At this tab we will active the Analytics events.



- 2- Create the analytic event.
 - a. We do a click at Rules and Events -> Analytics Events. And then right button to create a new analytic event. The name must be the same that defined at Event type of action.



- 3- Create an alarm definition.
 - a. We do a right click at Alarm definition and we create a new alarm definition on:
 - i. Enable: This alarm is enabled at system
 - ii. Name: The alarm name
 - iii. Triggering event: We must select Analytic Events
 - iv. Triggering event source: We must select the before created analytic event
 - v. Source: We must select the camera at milestone system

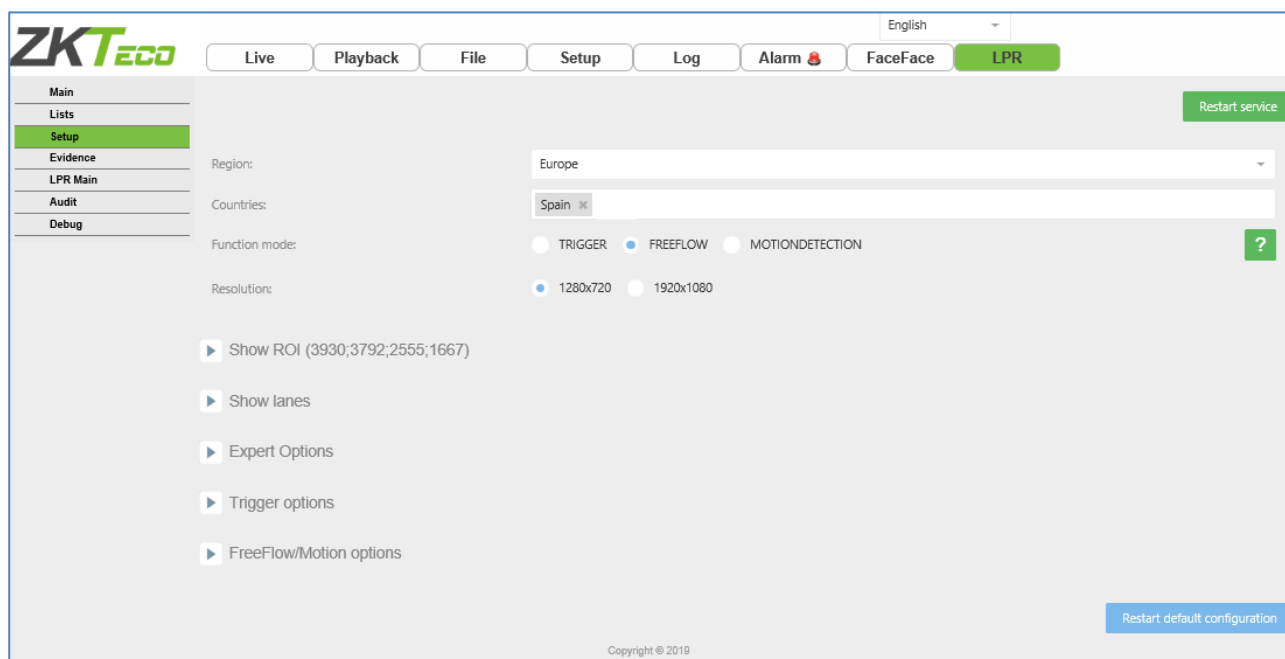


4.5. SETUP

In this tab, we will set the proper configuration for the camera depending on the scenario where will be located (indoor, outdoor) and the necessity (parking, control of access points, security, tolls, road offenses, etc.).

All the options after modified requires a service reset.

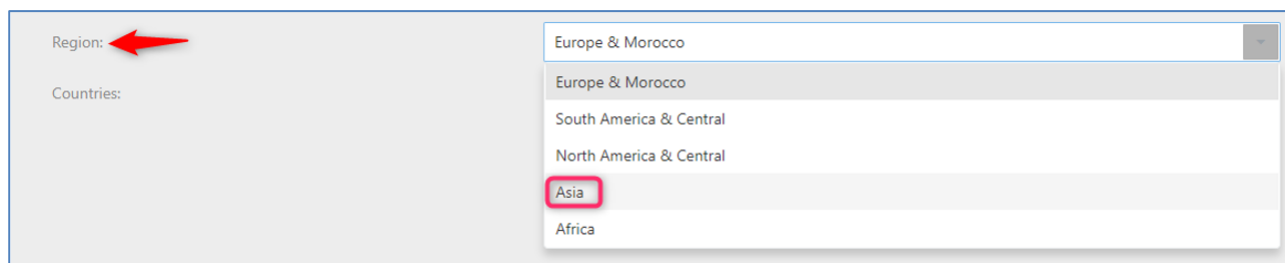
Restart service



Depending on which region you select it will list the countries in that region. In case the country you are searching for isn't listed please contact to the manufacturer.

Let's configure ZKTeco to read plates from Malaysia and Singapore.

In Region, list and select ASIA



In countries, search and select one by one the countries.

Countries:

Select...

Russia
Turkey
Vietnam
Indonesia
Philippines
Malaysia
Singapore
Israel
Lebanon
Hong Kong
Macau
India
Taiwan
Bahrain
Abu Dhabi

After selecting the countries, restart service clicking on Restart service button.
Now you are ready to read license plates for these two countries.

Region:

Asia

Countries:

Singapore ✕ Malaysia ✕

Restart service

Next you need to select the camera function mode:


Trigger: The camera will read if a trigger is active such as induction loop, laser, etc.

Free Flow: The camera is continuously processing all the images, is not recommended unless there is a constant flow of vehicles.

Motion Detection (Set by default): The camera will read if detect any change in the image.

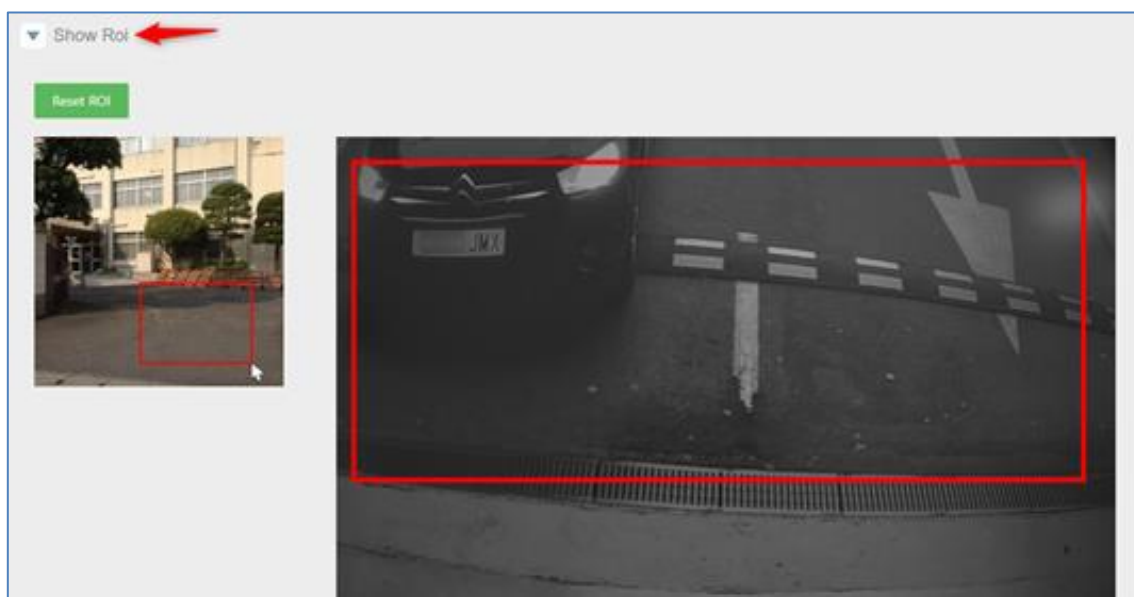
You also need to configure the camera resolution, which image size do you need to process, this will depend on the distance where you will read the license plate. This set up doesn't affect the camera resolution configuration because are independent one from each other.

Camera resolution set by default is: 1280*720



Main
Lists
Setup
Evidence
LPR Main
Audit
Debug

Show ROI: Let you draw a *region of interest* in the image, which part of the image do you want to process and read.



Click on “Show ROI”, the wizard will guide you on how to draw it.

Draw 2 points into the road following the steps:

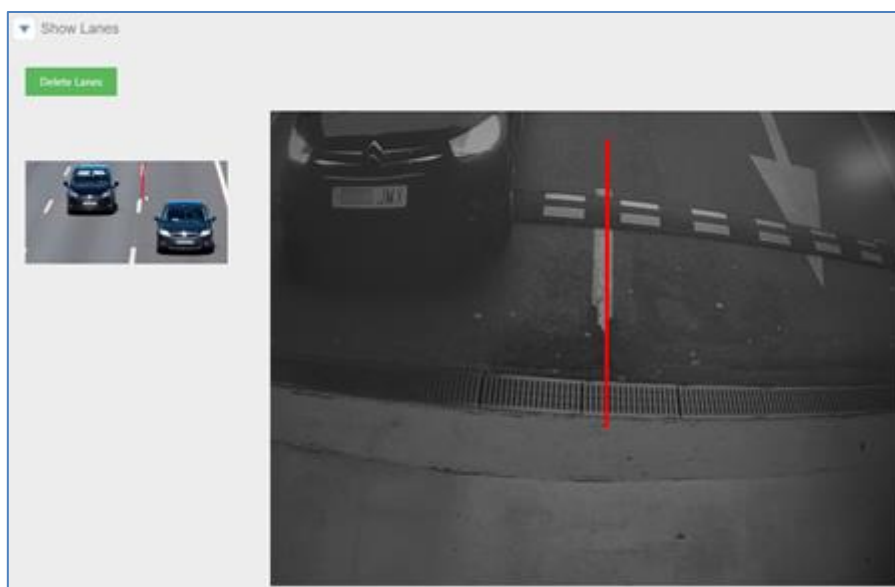
- 1.- Draw top left point.
- 2.- Draw bottom right point.

To reset ROI, click on “RESET ROI” button.

Click on the “RESTART SERVICE” button to take effect.

Restart service

Show Lanes: Let you draw a line to configure 2 lanes, depending on how you draw the line ZKTeco will consider which lanes are going to be.



Click on “Show Lanes”, the wizard will guide you on how to draw it.

Draw 2 points into the road following the steps:

- 1.- Draw top point.
- 2.- Draw bottom point.

To reset ROI, click on “Delete Lanes” button.

Click on the “RESTART SERVICE” button to take effect.

Restart service



ZKTeco will read the license plate and indicate on which lane they were detected.

Expert Options: Here is the recommended configuration for best performance if Motion Detection (default configuration) is selected.

Minimum character height: Minimum character size. Very useful for cases where you want to ensure a minimum character size. 25 being the recommendation

Maximum character height: Maximum character size. Very useful for cases where you want to ensure a maximum character size.

Minimum Confidence (%): Minimum reliability in the reading of a license plate to consider it valid. Reliability is a parameter returned by the engine for recognizing license plates (value of 1-100, where 100 is the most reliable). 80 being the recommendation

FPS: Maximum frames per second to process. 5 being the recommendation

Connection Type: You need to select the option, how you will get the image to process

ZKTeco: Camera streaming.

Timeout LPR (millis): This value is the maximum time for the LPR recognition, the default value 0 is not limited. When the process is upper the time stop and send the best result found until this moment.

▼ Expert Options

Info:

?

Minimum character height:

10

▲▼

Maximum character height:

80

▲▼

Minimum confidence (tpc):

50

▲▼

Fps:

4

▲▼

Connection type:

☒ ZKTECO

?

Timeout LPR (millis):

500

▲▼

Click on the “RESTART SERVICE” button to take effect.

Restart service

Trigger Mode: ZKTeco is normally in an idle state. When a trigger command is received, it performs a variable number of captures, depending on configuration, and returns a result. Results from different triggering events are independent of one another, that is, if the same vehicle, is still present on a second trigger command, the same license plate will be returned a second time. On every trigger, it performs captures until the number exceeds NCaptures, or the time exceeds Timeout.

Info:	?
Trigger captures:	<input type="text" value="1"/>
Trigger timeout (millis):	<input type="text" value="0"/>
Trigger IO device:	<input checked="" type="checkbox"/> ZKTECO
Trigger IO port:	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1

Trigger Captures: How many images do you want to process and read license plates to stop. In case to use the capture option, the trigger timeout must be 0.

Trigger Timeout: How many seconds do you want to process and read license plates to stop. In case to use the timeout option, the trigger captures must be 50.

Trigger IO Device: If selected, the Digital Input ports will activate.

Trigger IO Port: Choose which digital input port you will use.

Click on the “RESTART SERVICE” button to take effect.

Restart service

FreeFlow/Motion options: ZKTeco continuously runs OCR on the receiving frames. Whenever a new vehicle enters the scene, a new result is sent through the notification socket.

▼

FreeFlow/Motion options

Info:	?
Free flow/Motion filter mode:	<input type="radio"/> NONE <input checked="" type="radio"/> CAPTURES <input type="radio"/> TIME
Free Flow/Motion filter captures:	<input type="text" value="5"/>
Free Flow/Motion filter time (millis):	<input type="text" value="0"/>
Minimum characters difference:	<input type="text" value="1"/>
Motion threshold:	<input type="text" value="15"/>
Motion queue:	<input type="text" value="10"/>
Motion type:	<input checked="" type="radio"/> HISILICON <input type="radio"/> VPAR

In the FreeFlow/Motion option you can define repetition filters.

Free Flow/Motion filter captures: For a result to be considered valid, the last license plate read must not be among the last N recognized as valid. This filter is useful for traffic jams, where the cameras may be reading N license plates continually in a closed cycle.

Free Flow/Motion filter time (millis): Minimum time elapsed from the detection of the same license plate to it being accepted again in the system.

Minimum characters difference: Is the number of characters between two plates to consider a plate different (AAAA to AAAB is 1 character different)

Motion threshold: Is the sensibility value for the VPAR motion.

Motion queue: Is the number of images stored in a queue to process in MOTION mode.

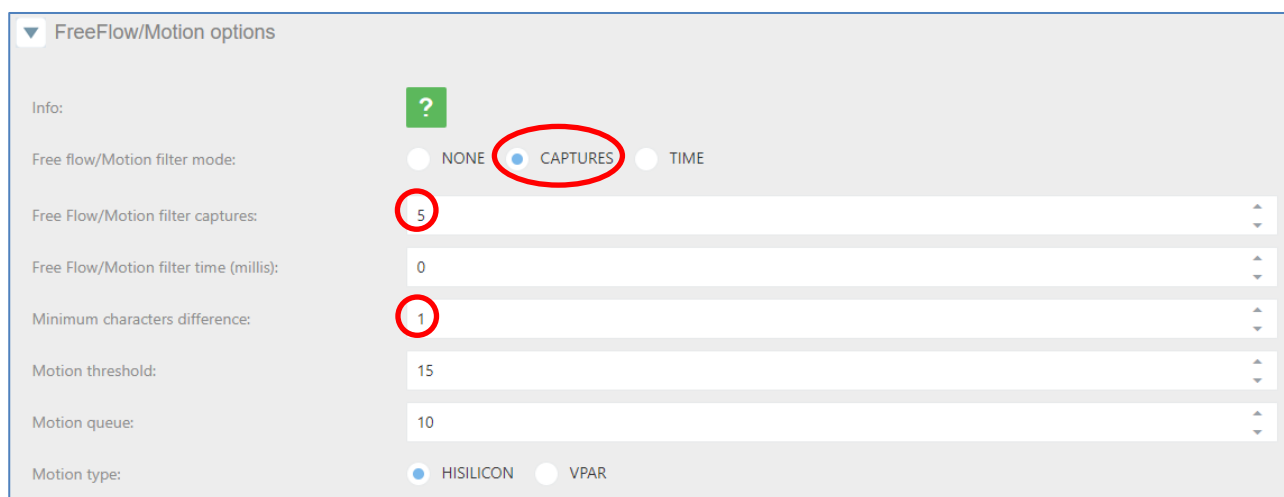
Motion type: The type of imagen comparison in MOTION mode.

VPAR: Using the LPR library.

HISILICON: (default) New process using the HISILICON processor.

For example, you have the camera in a Parking and there is a traffic jam, you don't want to read the same license plate over and over, in that case, the best filter is for captures, please do the following.

Having selected, Free Flow mode, click on "Free Flow options", click on "Free Flow filter mode" and select the filter "captures"



With this configuration, once a license plate is read, won't be read again until another 5 different license plates have been read. The difference between plate has to be more than 1.

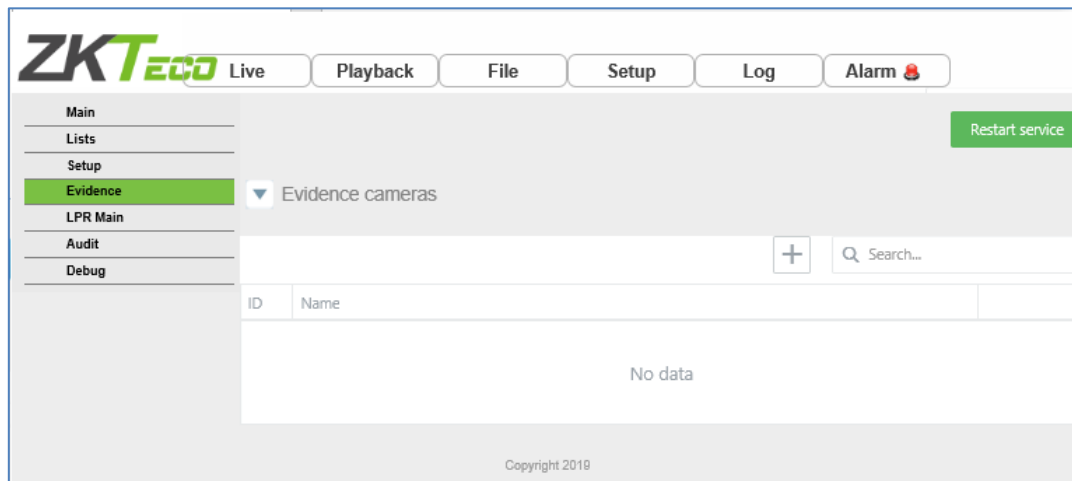
The motion threshold is the threshold to consider an image different from other image, for the motion mode. Value from 0 to 100.

After all, changes are done, remember always to restart service, clicking on [Restart service](#) button.

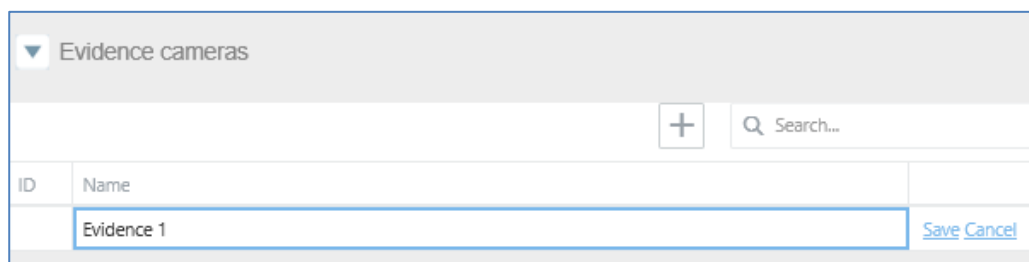
If you need to restart all configuration for this section, click on [Restart default configuration](#) button.

4.6. Evidence

In this tab, configure the Evidence Camera:



To add a new evidence camera: Click on the “+” button, text the evidence camera name and click on “Save”.



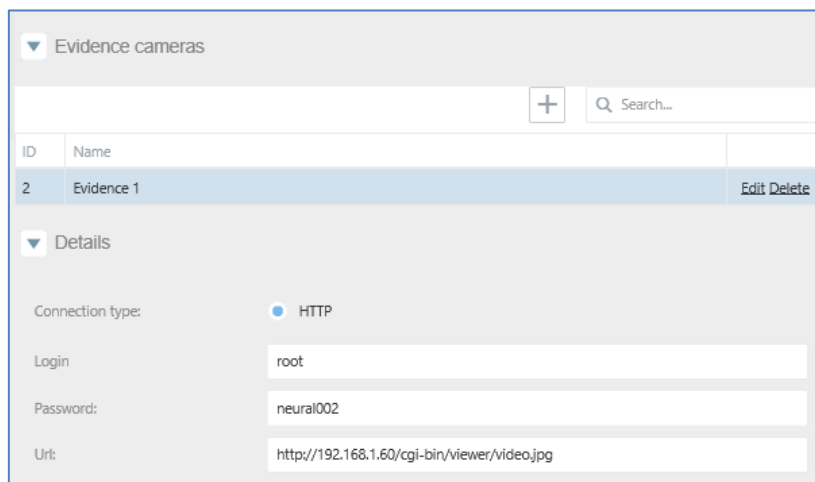
Details: here we set up the connection parameters to the evidence camera

FPS: Maximum frames per second to process. 5 being the recommendation.

Connection type: for the moment only HTTP connection.

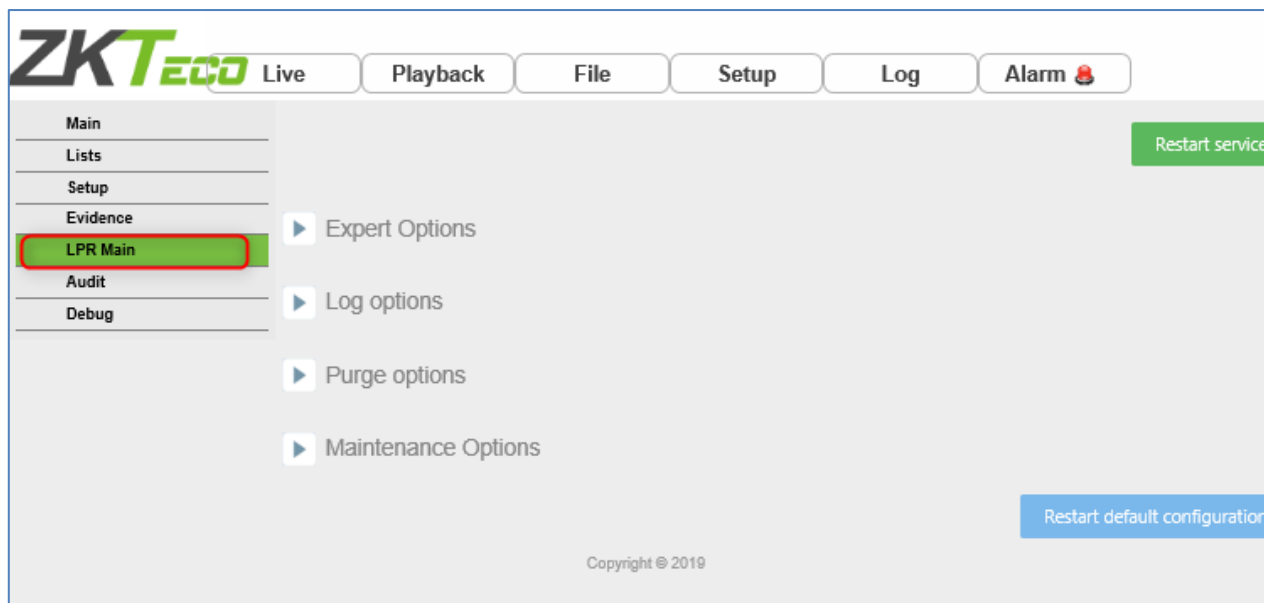
Login: login user of camera. Password: Password of camera.

URL: URL in jpg format of the camera.



4.7. LPR MAIN

In this tab, configure general parameters:



Expert Options:

View type: you can select how you prefer to see in main tab, in list or square.

Save the image: If selected, will store in a folder the complete image.

Save the plate image: If selected, will store in a folder only the license plate image.

Image quality: will store the image with the compression configured here.

Store image on: will store data on an SD or in the camera. We strongly recommend adding an SD card in the camera.

Trigger Socket Port: Will enter the port we want to use for sending XML/JSON messages.

Action time:

- Immediate: The action will enqueue in memory and will be execute it
- Persistent: The action will save in DB and will be execute it.

Retry period for failed actions:

▼ Expert Options

Info:

?

View type:

☐ LIST ☒ SQUARE

Save the image:

☒

Save the plate image:

☒

Image quality:

40

Store image on:

☒ SD

Trigger Socket port:

8040

Action time:

☒ IMMEDIATE ☐ PERSISTENT

Retry period for failed actions (h...

168

Log Options:

Log Level: Let you determine the log level to register what is going on with ZKTeco. By default, is set to 3. Level 4 and 5 are for experts and debugging team.

Activate log engine: Select only if debugging mode is necessary, only for expert technicians.

Log Level CGI (manager): Let you determine the log level to register what is going on with the CGI. By default, is set to 3. Level 4 and 5 are for experts and debugging team.

▼ Log options

Info:

?

Log level service:

3

Enable engine log:

☐

Log level manager:

3

Purge Options: Here we will determine how many days or register of data we need to keep.

▼

Purge options

Purge Interval:

☐ MINUTE
☒ HOUR
☐ DAY
☐ WEEK
☐ MONTH

Type of purge:

☐ DISABLED
☒ DAYS
☐ FREESPACE

Days to preserve in storage:

60

Minimum percentage of free space on SD:

20

Minimum percentage of free space on CAMERA:

20

?

?

Purge Interval: Schedule when do you want to execute the purge.

Hour: Will execute the task every hour.

Day: Will execute the task once a day at 23:59:59.

Week: Will execute the task once a week, every Monday at 00:00:00.

Month: Will execute the task once a month, the first day of the month at 23:59:59.

Type of purge in database: Set how and what do you want to purge.

Disabled: Won't execute any purge.

Days: Will purge by days, keeping data for the last days.

Freespace: Will purge depending on the free space in the SD or in the camera.

Once you have defined when and what do you want to purge, you need to set the variables to execute the task.

Purge by days:

Delete database before (days): Will keep data of the last (XX) days and purge the rest.

Delete files before (days): Will keep files of the last (XX) days and purge the rest.

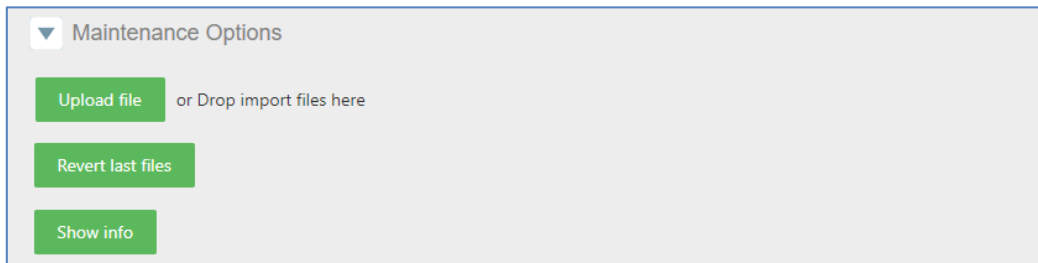
Purge by Free Space:

Delete files and database on SD below (percent): Will delete data in database and files stored until free space on the SD is lower than configured.

Delete files and database on CAMERA below (percent): Will delete data in database and files stored until free space in the camera is lower than configured.

Maintenance Options:

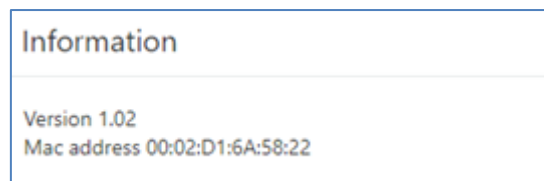
In this section you can upload files for camera configuration, licensing, update ZKTeco version, change the logo and upload images for the path option showed in the Camera Configuration tab.



Upload File: Let you upload a file.

Revert last files: If after applying changes with the uploaded files, it doesn't work correctly you can revert changes.

Show Info: Show you information about the version and camera MAC ADDRESS.

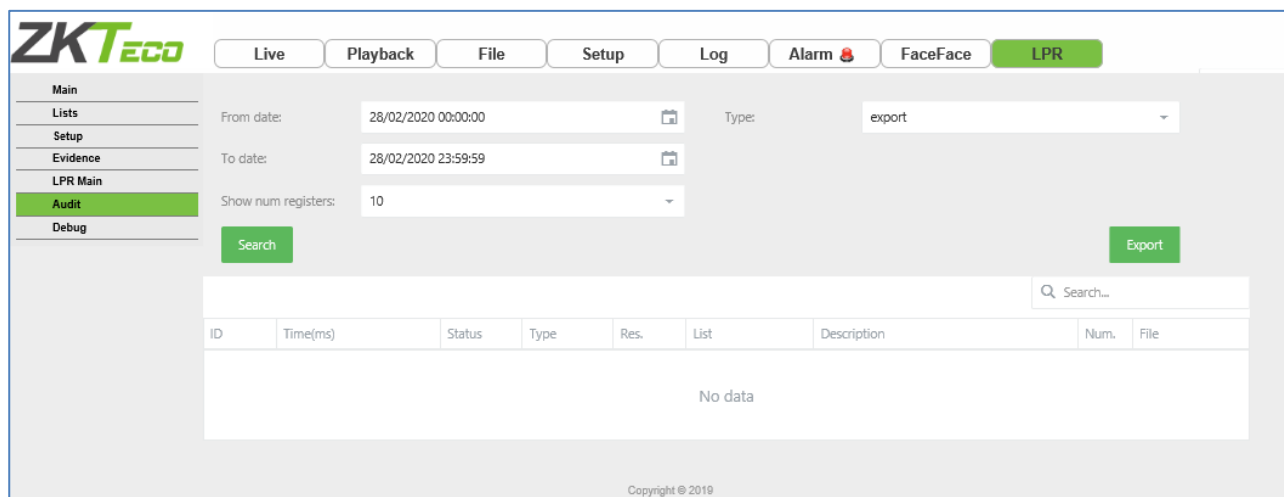


In case you want to revert, all changes done and want to get back to the default configuration, click on **Restart default configuration** button.

4.8. Audit Tab

The camera registers actions like export and import lists and actions executed depending on the list configurations.

In the Audit tab, you can search by dates information related to these actions.



The screenshot shows the ZKTeco software interface with the 'Audit' tab selected. The interface includes a sidebar with navigation options: Main, Lists, Setup, Evidence, LPR Main, Audit (highlighted), and Debug. The main area contains search filters: 'From date' (28/02/2020 00:00:00), 'To date' (28/02/2020 23:59:59), 'Type' (export), and 'Show num registers' (10). There are 'Search' and 'Export' buttons. Below the filters is a table with columns: ID, Time(ms), Status, Type, Res., List, Description, Num., and File. The table currently displays 'No data'. A search bar is also present above the table. The footer indicates 'Copyright © 2019'.

You can search in the stored actions by dates and by type of action.

Export: Will show you automatic exports done

Import: Will show you automatic imports done.

Action: Will show you automatic actions triggered on the lists.

The result of the search can be exported and downloaded.

Exports example:

From date: 28/02/2020 00:00:00
To date: 28/02/2020 23:59:59
Show num registers: 10

Type: export

Search

Export

Search...

ID	Time(ms)	Status	Type	Res.	List	Description	File
187971	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http2] plate [64998HW	Get file
187972	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http4] plate [64998HW	Get file
187973	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [64998HW	Get file
187978	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [64998HW	Get file
187979	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [64998HW	Get file
187984	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [64998HW	Get file
187985	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http1] plate [64998HW	Get file
187990	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [64998HW	Get file
187991	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http2] plate [64998HW	Get file
187996	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [64998HW	Get file

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Copyright © 2019

Imports example:

From date: 28/02/2020 00:00:00
To date: 28/02/2020 23:59:59
Show num registers: 10

Type: import

Search

Export

Search...

ID	Time(ms)	Status	Type	Res.	List	Description	File
187971	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http2] plate [64998HW	Get file
187972	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http4] plate [64998HW	Get file
187973	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [64998HW	Get file
187978	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [64998HW	Get file
187979	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [64998HW	Get file
187984	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [64998HW	Get file
187985	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http1] plate [64998HW	Get file
187990	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [64998HW	Get file
187991	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http2] plate [64998HW	Get file
187996	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [64998HW	Get file

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Actions example:

From date:

28/02/2020 00:00:00

Type:

action

To date:

28/02/2020 23:59:59

Show num registers:

10

Search

Export

Q Search...

ID	Time(ms)	Status	Type	Res.	List	Description	
187971	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http2] plate [64998HW	Get file
187972	19:54:18.921 28/02/2020	DONE	HTTP	51004	all plates	Action [Http4] plate [64998HW	Get file
187973	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [64998HW	Get file
187978	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [64998HW	Get file
187979	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [64998HW	Get file
187984	19:54:19.211 28/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [64998HW	Get file
187985	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http1] plate [64998HW	Get file
187990	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [64998HW	Get file
187991	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http2] plate [64998HW	Get file
187996	19:54:19.529 28/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [64998HW	Get file

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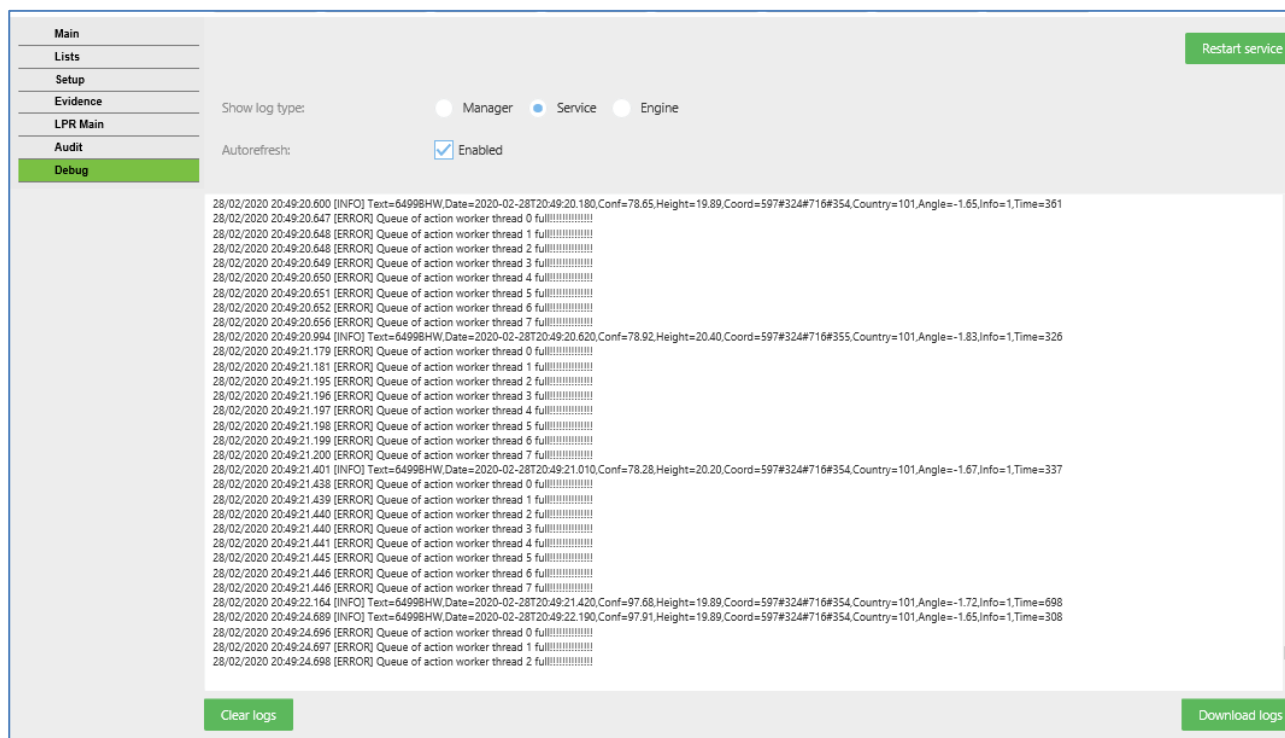
Last page

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4.9. DEBUG

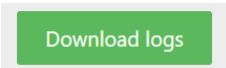
In this TAB the user can see /download different logs. Logs are activated and setup in General Configuration TAB.

These logs can be useful to help our technical team to diagnose and solve application problems.



The screenshot shows the 'Debug' tab in the ZKTeco LPR Main interface. The sidebar on the left contains navigation links: Main, Lists, Setup, Evidence, LPR Main, Audit, and Debug (highlighted). The main content area has a 'Show log type:' section with radio buttons for Manager, Service, and Engine. Below this is an 'Autorefresh:' section with a checked checkbox labeled 'Enabled'. A large text area displays a list of log entries, each starting with a timestamp (e.g., 28/02/2020 20:49:20.600) followed by a log level (INFO or ERROR) and a detailed message. At the bottom of the interface, there are three buttons: 'Clear logs' on the left, 'Download logs' on the right, and a 'Restart service' button in the top right corner.

The type of the log that the user wants to see must be selected by either manager, Service or Engine. Checking auto update the application will refresh the selected log type.

Sending logs to technical support may be needed. To do that click  in the bottom of the page.

Selected logs will be downloaded in compressed txt format.

5. Camera list synchronization

The ZKTeco system allows a list system synchronized.

One of the cameras works like a master and the other cameras works like a slave.

The master camera uploads the file with the list content and the slave cameras download the file.

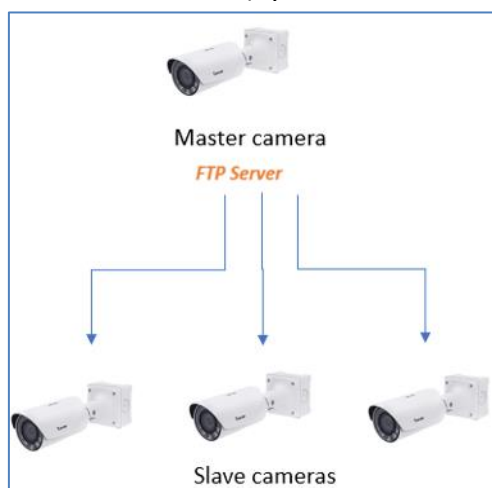
All the list and elements must be modified in the master camera, the changes will be updated automatically in the slave following the next instructions to configure the master and the slaves.

There is no limit for the number of the cameras slave, the limit is on the FTP server, depends of the number of connections.

Can be synchronized all the lists or only one list.

5.1. Architecture 1

The camera is the FTP server. Must be activated (by default is disable the FTP server)



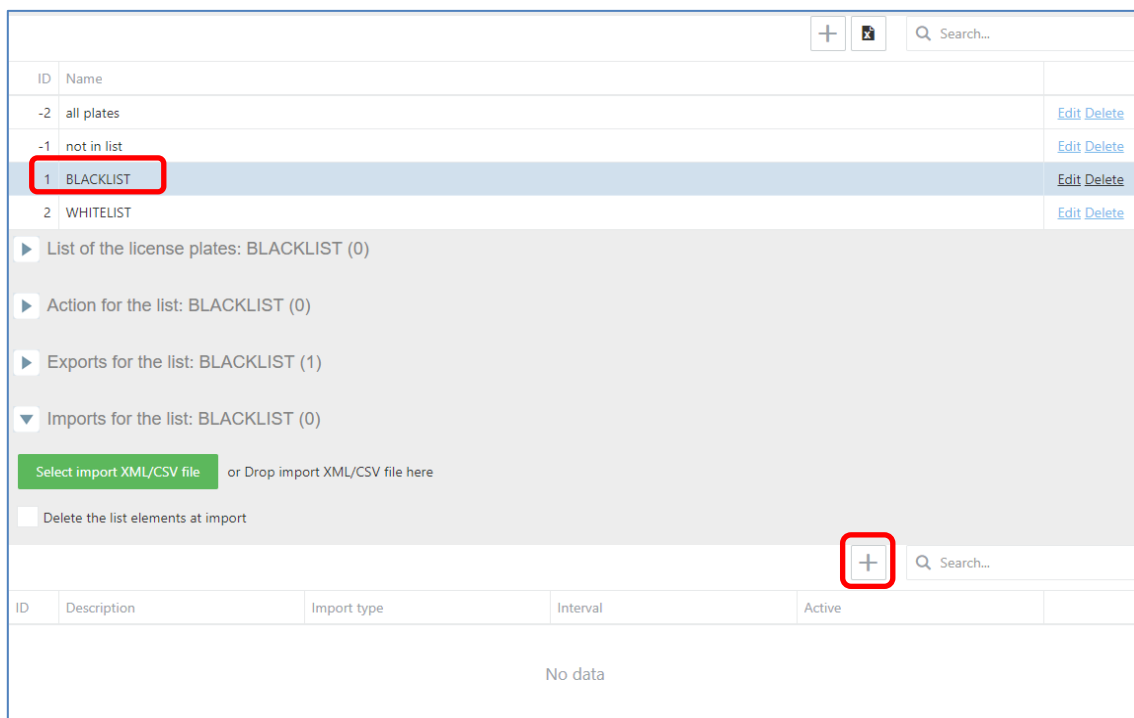
5.1.1. Master configuration

Activation FTP server will do by script.

5.1.2. Slave configuration

Access to the List Tab.

To configure only one list selects the list and make the import in the list.



The screenshot shows the 'List Tab' configuration interface. At the top, there are buttons for adding (+) and deleting (X) lists, and a search bar. Below this is a table of lists:

ID	Name	
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete

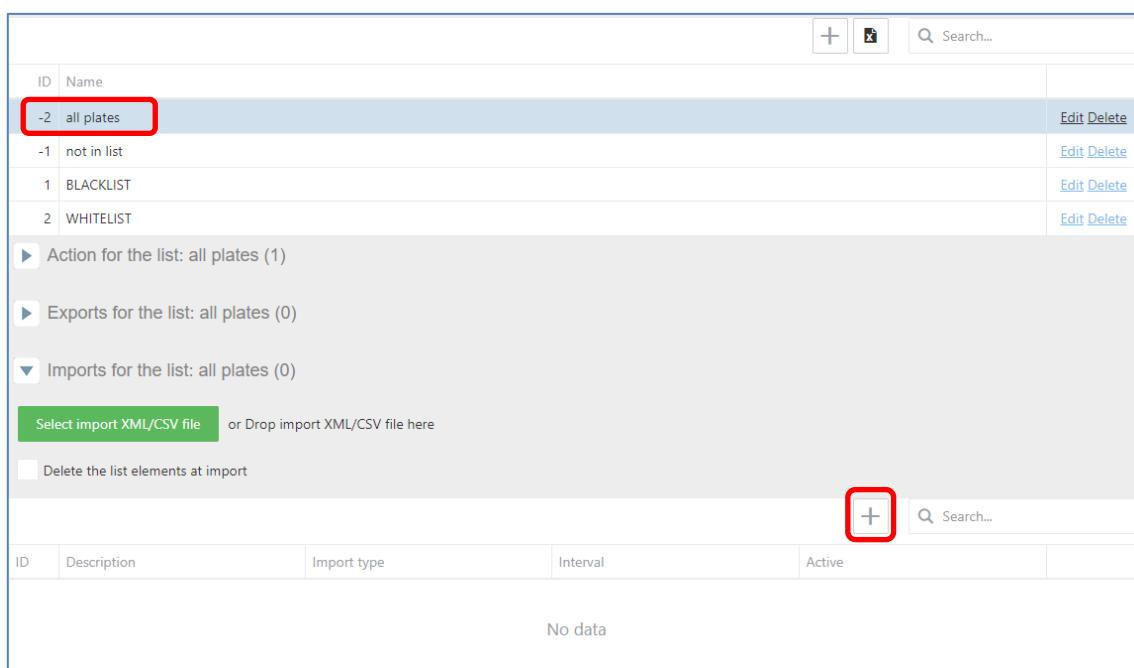
Below the table, the configuration for the selected 'BLACKLIST' is shown:

- List of the license plates: BLACKLIST (0)
- Action for the list: BLACKLIST (0)
- Exports for the list: BLACKLIST (1)
- Imports for the list: BLACKLIST (0)

There is a green button 'Select import XML/CSV file' and a text 'or Drop import XML/CSV file here'. A checkbox 'Delete the list elements at import' is also present. At the bottom right, there is a red box around a '+' button and a search bar.

At the bottom, there is a table with columns: ID, Description, Import type, Interval, Active. It shows 'No data'.

To configure all the list selects all plates.



The screenshot shows the 'List Tab' configuration interface. At the top, there are buttons for adding (+) and deleting (X) lists, and a search bar. Below this is a table of lists:

ID	Name	
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete

Below the table, the configuration for the selected 'all plates' is shown:

- Action for the list: all plates (1)
- Exports for the list: all plates (0)
- Imports for the list: all plates (0)

There is a green button 'Select import XML/CSV file' and a text 'or Drop import XML/CSV file here'. A checkbox 'Delete the list elements at import' is also present. At the bottom right, there is a red box around a '+' button and a search bar.

At the bottom, there is a table with columns: ID, Description, Import type, Interval, Active. It shows 'No data'.

Create an import each minute (or desirable time) the time enabled if change with the type SINCRO Camera and click Save.

ID	Description	Import type	Interval	Active	
2	import	SINCRO camera	Minute	Enabled if change	Edit Delete

Configure the master camera credentials.

ID	Description	Import type	Interval	Active	
2	import	SINCRO camera	Minute	Enabled if change	Edit Delete

Import properties

Import Info

Host:

User:

Password:

Host: Camera master IP

User: <empty>

Password: <empty>

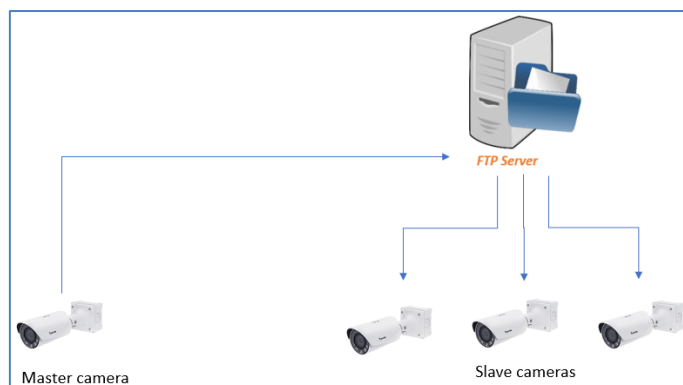
Can be checked in the Audit Tab.

From date:	<input type="text" value="08/04/2019 13:25:00"/>	Type:	<input type="text" value="import"/>
To date:	<input type="text" value="08/04/2019 23:59:59"/>		
Search			

ID	Time	Status	Type	List	Description	Num.	File
21	13:25:00.136 08/04/2019	DONE			Import [import slave] time [f	1	Get file

5.2. Architecture 2

Using FTP server where store the list.



5.2.1. Master configuration

Access to the List Tab.

To configure only one list selects the list and make the export in the list.

ID	Name	
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete

▶ List of the license plates: BLACKLIST (0)

▶ Action for the list: BLACKLIST (0)

▼ Exports for the list: BLACKLIST (0)

[Export to CSV file](#) [Export to XML file](#)

[+](#)

ID	Description	Export type	Interval	Active
No data				

To configure all the list selects all plates.

ID	Name	
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete

▶ Action for the list: all plates (1)

▼ Exports for the list: all plates (0)

[Export to CSV file](#) [Export to XML file](#)

[+](#)

ID	Description	Export type	Interval	Active
No data				

Create an export each minute enabled if change with the type FTP list and click Save.

ID	Description	Export type	Interval	Active	
1	export master	FTP list	Minute	Enabled if change	Save Cancel

Configure the credentials of the FTP server and the format CSV or XML, can be the booth but must be the same in the slaves.

Just configured the camera master is sending the file to the FTP server.

ID	Description	Export type	Interval	Active	
1	export master	FTP list	Minute	Enabled if change	Edit Delete

Export properties

Export Info

Host: 192.168.1.21

Port: 21

Format: ☒ XML ☐ CSV

Folder name: EXPORT

User: user


Password: password

Confirmation file: ☒ .FLAG

Can be checked in the Audit Tab.


From date:

08/04/2019 00:00:00



To date:


08/04/2019 23:59:59





Search

Type:

export





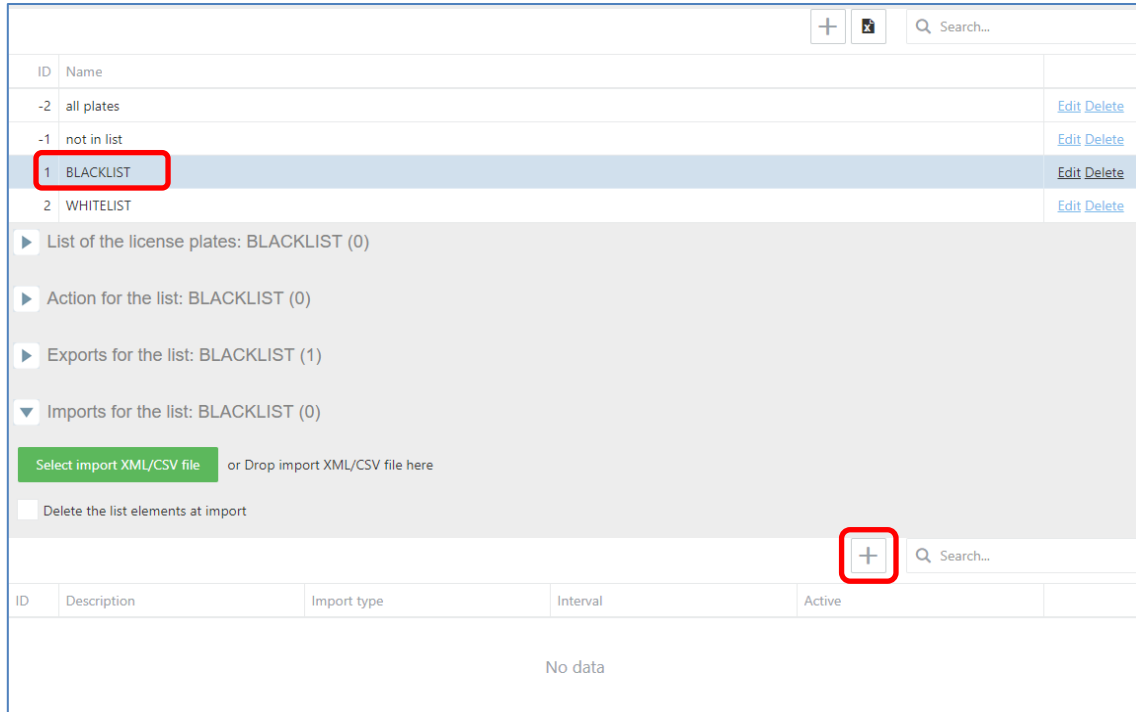
 Search...

ID	Time	Status	Type	List	Description	Num.	File
1	12:55:00.010 08/04/2019	DONE	FTP list	BLACKLIST	Export [export master] time [from:2000010...	1	Get file

5.2.2. Slave configuration

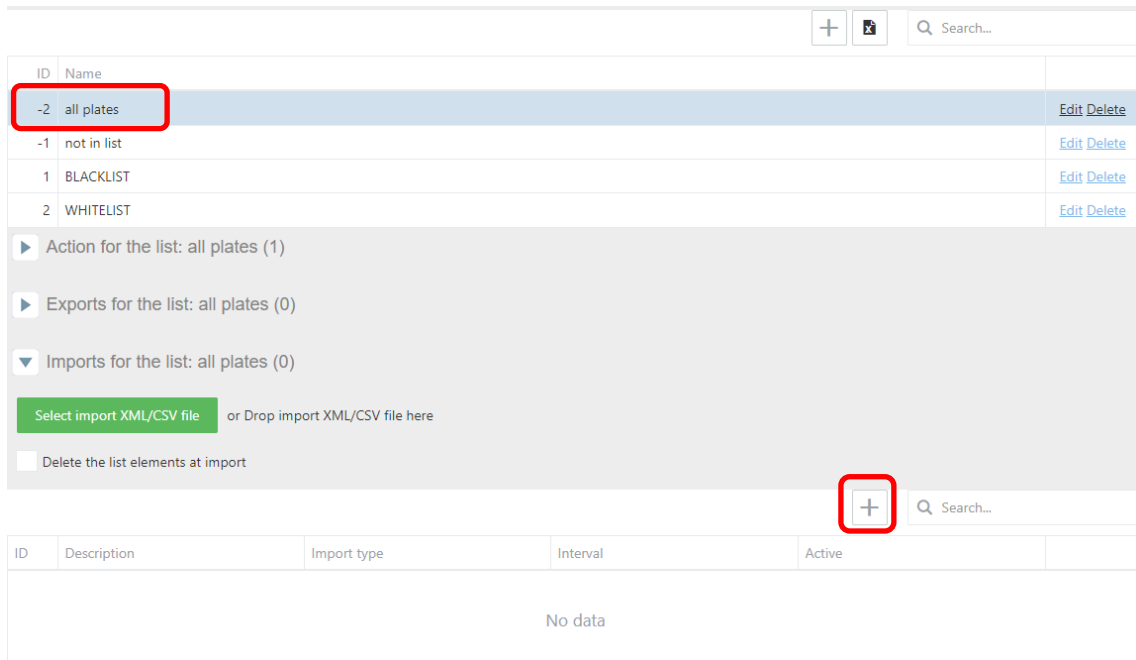
Access to the List Tab.

To configure only one list selects the list and make the import in the list.



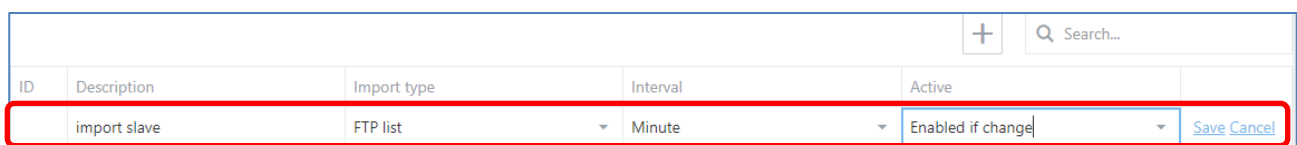
The screenshot shows the 'List Tab' configuration interface. At the top, there is a search bar and a '+ Add' button. Below this is a table with columns 'ID' and 'Name'. The table contains four rows: '-2 all plates', '-1 not in list', '1 BLACKLIST', and '2 WHITELIST'. The '1 BLACKLIST' row is highlighted with a red box. To the right of each row are 'Edit' and 'Delete' links. Below the table, there is a section for the selected list, 'List of the license plates: BLACKLIST (0)'. This section contains expandable sections for 'Action for the list: BLACKLIST (0)', 'Exports for the list: BLACKLIST (1)', and 'Imports for the list: BLACKLIST (0)'. Under the 'Imports' section, there is a green button 'Select import XML/CSV file' and a text input field 'or Drop import XML/CSV file here'. Below this is a checkbox 'Delete the list elements at import'. At the bottom right of this section is a '+ Add' button, which is highlighted with a red box. Below this section is another table with columns 'ID', 'Description', 'Import type', 'Interval', 'Active', and an empty column. The table is currently empty, showing 'No data'.

To configure all the list selects all plates.



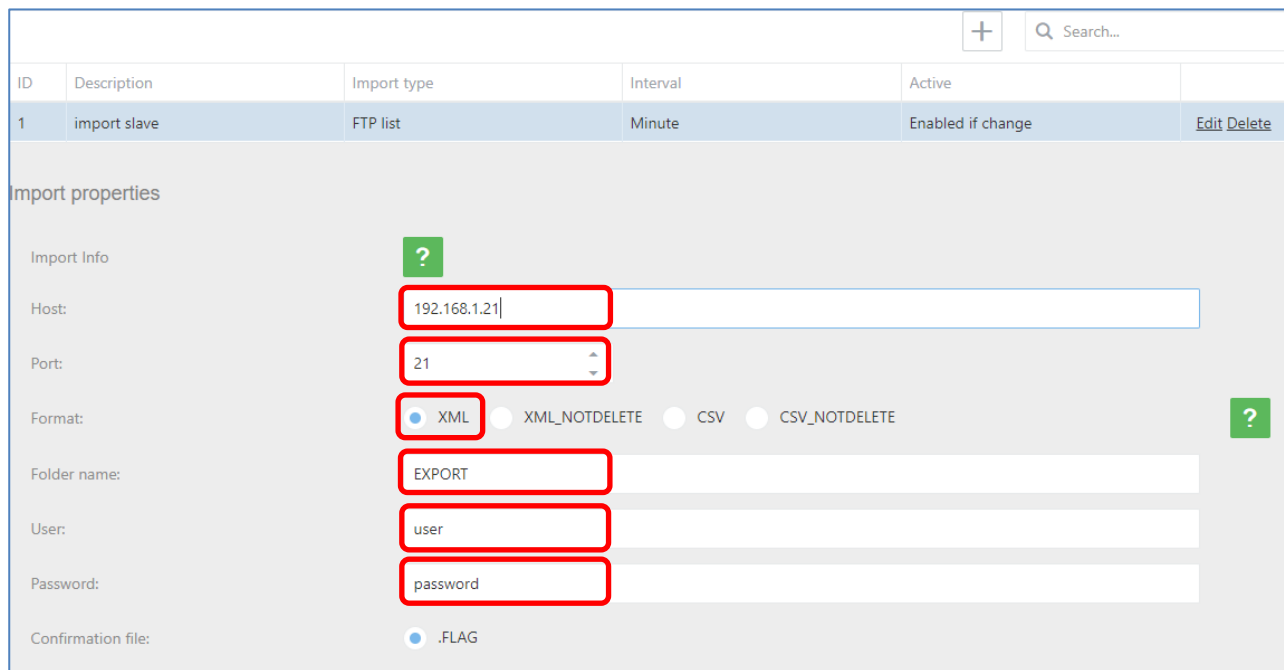
The screenshot shows the 'List Tab' configuration interface. At the top, there is a search bar and a '+ Add' button. Below this is a table with columns 'ID' and 'Name'. The table contains four rows: '-2 all plates', '-1 not in list', '1 BLACKLIST', and '2 WHITELIST'. The '-2 all plates' row is highlighted with a red box. To the right of each row are 'Edit' and 'Delete' links. Below the table, there is a section for the selected list, 'List of the license plates: all plates (1)'. This section contains expandable sections for 'Action for the list: all plates (1)', 'Exports for the list: all plates (0)', and 'Imports for the list: all plates (0)'. Under the 'Imports' section, there is a green button 'Select import XML/CSV file' and a text input field 'or Drop import XML/CSV file here'. Below this is a checkbox 'Delete the list elements at import'. At the bottom right of this section is a '+ Add' button, which is highlighted with a red box. Below this section is another table with columns 'ID', 'Description', 'Import type', 'Interval', 'Active', and an empty column. The table is currently empty, showing 'No data'.

Create an import each minute (or desirable time) the time enabled if change with the type FTP list and click Save.



The screenshot shows the 'List Tab' configuration interface. At the top, there is a search bar and a '+ Add' button. Below this is a table with columns 'ID', 'Description', 'Import type', 'Interval', 'Active', and an empty column. The table contains one row: 'import slave', 'FTP list', 'Minute', 'Enabled if change', and an empty cell. This row is highlighted with a red box. To the right of the 'Active' column are 'Save' and 'Cancel' buttons.

Configure the same credentials of the FTP server and the same format CSV or XML than the master configuration.



ID	Description	Import type	Interval	Active	
1	import slave	FTP list	Minute	Enabled if change	Edit Delete

Import properties

Import Info

Host: 192.168.1.21

Port: 21

Format: ☒ XML ☐ XML_NOTDELETE ☐ CSV ☐ CSV_NOTDELETE

Folder name: EXPORT

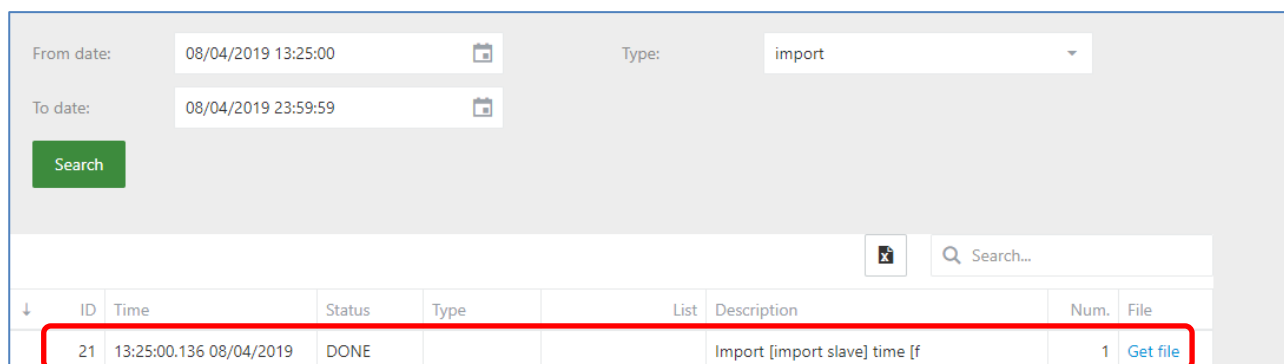
User: user

Password: password

Confirmation file: ☒ .FLAG

If the master selection type format is XML can be selected XML or XML_NOTDELETE, if your selection is XML all the elements not included in each file downloaded will be deleted. Just configured the camera master is downloading the file from the FTP server.

Can be checked in the Audit Tab.



From date: 08/04/2019 13:25:00

To date: 08/04/2019 23:59:59

Type: import

Search

ID	Time	Status	Type	List	Description	Num.	File
21	13:25:00.136 08/04/2019	DONE			Import [import slave] time [f	1	Get file

6 Troubleshooting

6.1 Mode: NO LICENSE

If the camera is not licensed, we find that the mode will be “NO LICENSE” in live page.

Mode:	NO LICENSE	11:43:42.081 25/03/2019
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To solve this problem, please get in touch with support.

6.2 Mode: STOPPED

If the LPR service is stopped, we find that the mode will be “STOPPED” in live page.

Mode:	STOPPED	11:43:42.081 25/03/2019
-------	---------	-------------------------

To solve this problem, we will have to reboot the service. You can reboot the service at:

- Logs page:

The screenshot shows the 'Logs' page interface. On the left is a sidebar menu with the following items: Main, Lists, Setup, Evidence, LPR Main, Audit, and Debug (which is highlighted in green). The main content area has a light gray background. It contains two sections: 'Show log type:' with three radio buttons labeled 'Manager', 'Service', and 'Engine' (all are unselected); and 'Autorefresh:' with a checkbox labeled 'Enabled' (which is checked). In the top right corner of the main content area, there is a green button with the text 'Restart service', which is highlighted with a red rectangular border.

6.3 Not enough space at Camera or SD

If the camera or SD card has not enough space, the system could fail.

SD space free (%):	0	00:00:00.000 01/01/2018
Camera space free (%):	0	00:00:00.000 01/01/2018

If the space is below 20%, please review the [purge option section](#)

6.4 The system does not recognize license plates

If the system does not recognize license plate, please verify the following steps:

1. The region and country are the right ones. You can check this configuration at [LPR configuration](#).
2. The license plate has a minimum size of 25 pixels. The user can use the [calibration pattern](#) at live page to adjust the size of the license plate. The license plate must be between 2 lines.
3. If you the system has a defined ROI, verify that license plate is inside [ROI area](#).
4. If the system is configurated at motion detection mode, please be sure have a movement inside the image.
5. If the system has read a license plate and it do not read anymore, check [the filters](#).
6. If the system is configurated at trigger mode, please check the following points:
 - a. Check the mode of in camera ([LPR CONFIGURATION](#)):

Function mode:
☒ TRIGGER

- b. Check the trigger socket port ([GENERAL CONFIGURATION](#)):

Trigger Socket port:

- c. Check that the sender device has connection TCP/IP to the camera at defined port. It can be checked via telnet.
- d. If the message is received correctly, the system log must show the line:

Show log type:
☐ Manager
☒ Service
☐ Engine

6.5 Problem with ACTIONS

If the action does not execute, verify the following points:

- 1) The action is enabled.

ID	Description	Action type	Active
1	Action 1	Socket client	Enabled

- 2) The detected plate is in the list that is defined the action.
- 3) There is a defined action to “all plate” list.
- 4) The detected plate is not in any list, there is an action defined in “not in list” list.
- 5) The date of the detection corresponds on a valid time defined in the scheduler.

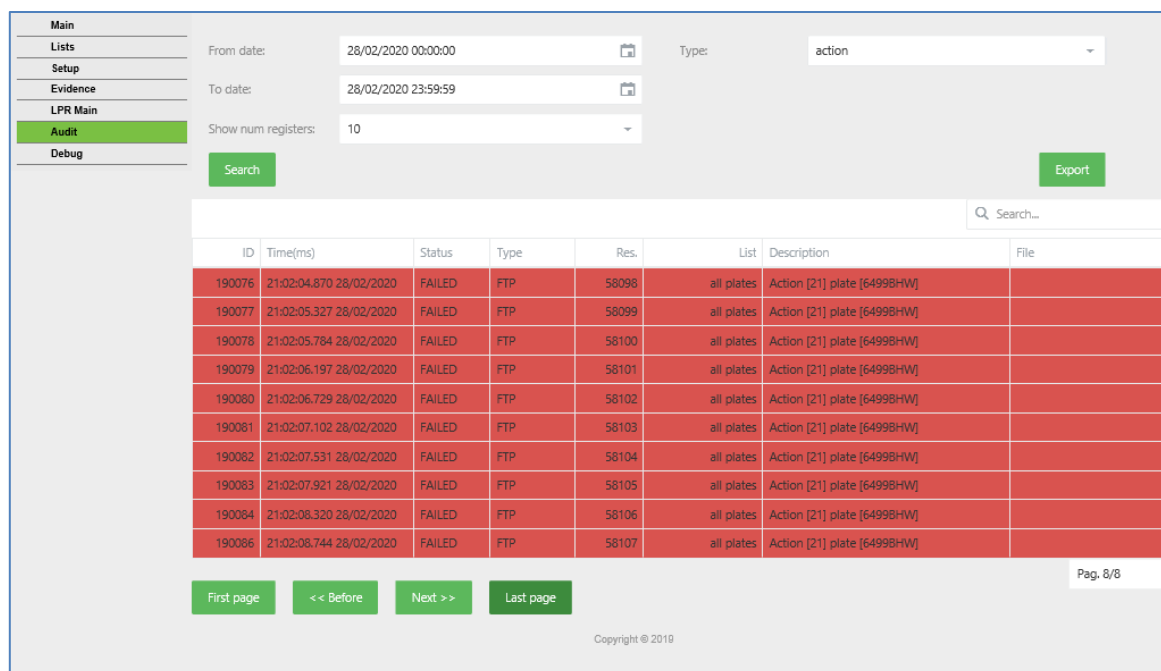
Scheduler

ACTIVATION SCHEDULER

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

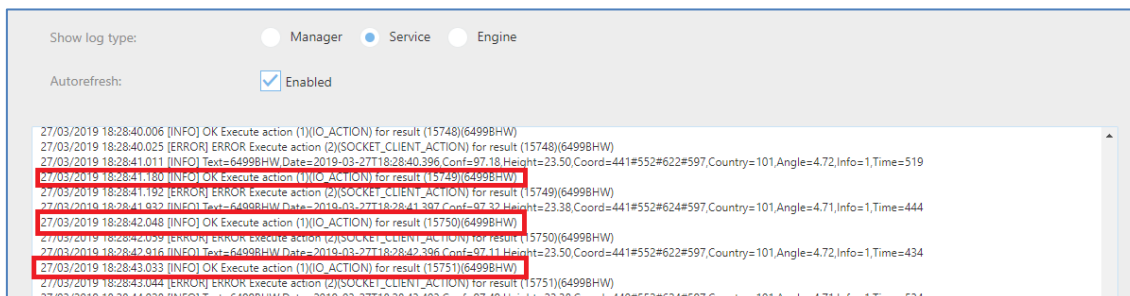
☒ Save scheduler

- 6) Check in Tab Audit if the action has been executed. In red error sent.



ID	Time(ms)	Status	Type	Res.	List	Description	File
190076	21:02:04.670 28/02/2020	FAILED	FTP	58098	all plates	Action [21] plate [64998HW]	
190077	21:02:05.327 28/02/2020	FAILED	FTP	58099	all plates	Action [21] plate [64998HW]	
190078	21:02:05.764 28/02/2020	FAILED	FTP	58100	all plates	Action [21] plate [64998HW]	
190079	21:02:06.197 28/02/2020	FAILED	FTP	58101	all plates	Action [21] plate [64998HW]	
190080	21:02:06.729 28/02/2020	FAILED	FTP	58102	all plates	Action [21] plate [64998HW]	
190081	21:02:07.102 28/02/2020	FAILED	FTP	58103	all plates	Action [21] plate [64998HW]	
190082	21:02:07.531 28/02/2020	FAILED	FTP	58104	all plates	Action [21] plate [64998HW]	
190083	21:02:07.921 28/02/2020	FAILED	FTP	58105	all plates	Action [21] plate [64998HW]	
190084	21:02:08.320 28/02/2020	FAILED	FTP	58106	all plates	Action [21] plate [64998HW]	
190086	21:02:08.744 28/02/2020	FAILED	FTP	58107	all plates	Action [21] plate [64998HW]	

- 7) Check in the logs if the action has been executed. Active Service and Enabled.



Show log type: ☐ Manager ☒ Service ☐ Engine

Autorefresh: ☒ Enabled

```

27/03/2019 18:28:40.006 [INFO] OK Execute action (1)(IO_ACTION) for result (15748)(64998HW)
27/03/2019 18:28:40.025 [ERROR] ERROR Execute action (2)(SOCKET_CLIENT_ACTION) for result (15748)(64998HW)
27/03/2019 18:28:41.011 [INFO] Text=64998HW Date=2019-03-27T18:28:40.396 Conf=97.18 Height=23.50 Coord=441#552#622#597 Country=101 Angle=4.72 Info=1 Time=519
27/03/2019 18:28:41.180 [INFO] OK Execute action (1)(IO_ACTION) for result (15749)(64998HW)
27/03/2019 18:28:41.192 [ERROR] ERROR Execute action (2)(SOCKET_CLIENT_ACTION) for result (15749)(64998HW)
27/03/2019 18:28:41.932 [INFO] Text=64998HW Date=2019-03-27T18:28:41.397 Conf=97.32 Height=23.38 Coord=441#552#624#597 Country=101 Angle=4.71 Info=1 Time=444
27/03/2019 18:28:42.048 [INFO] OK Execute action (1)(IO_ACTION) for result (15750)(64998HW)
27/03/2019 18:28:42.059 [ERROR] ERROR Execute action (2)(SOCKET_CLIENT_ACTION) for result (15750)(64998HW)
27/03/2019 18:28:42.916 [INFO] Text=64998HW Date=2019-03-27T18:28:42.396 Conf=97.11 Height=23.50 Coord=441#552#622#597 Country=101 Angle=4.72 Info=1 Time=434
27/03/2019 18:28:43.033 [INFO] OK Execute action (1)(IO_ACTION) for result (15751)(64998HW)
27/03/2019 18:28:43.044 [ERROR] ERROR Execute action (2)(SOCKET_CLIENT_ACTION) for result (15751)(64998HW)
27/03/2019 18:28:44.028 [INFO] Text=64998HW Date=2019-03-27T18:28:43.403 Conf=97.49 Height=23.38 Coord=440#552#624#597 Country=101 Angle=4.71 Info=1 Time=534
  
```

- 8) Check the connection with the host with a ping command.

```

C:\Users\Administrador>ping 192.168.1.1

Haciendo ping a 192.168.1.1 con 32 bytes de datos:
Respuesta desde 192.168.1.1: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.1.1: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.1.1: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.1.1: bytes=32 tiempo<1m TTL=64

Estadísticas de ping para 192.168.1.1:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
              (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 0ms, Máximo = 0ms, Media = 0ms

C:\Users\Administrador>
  
```

6.5.1 Socket client

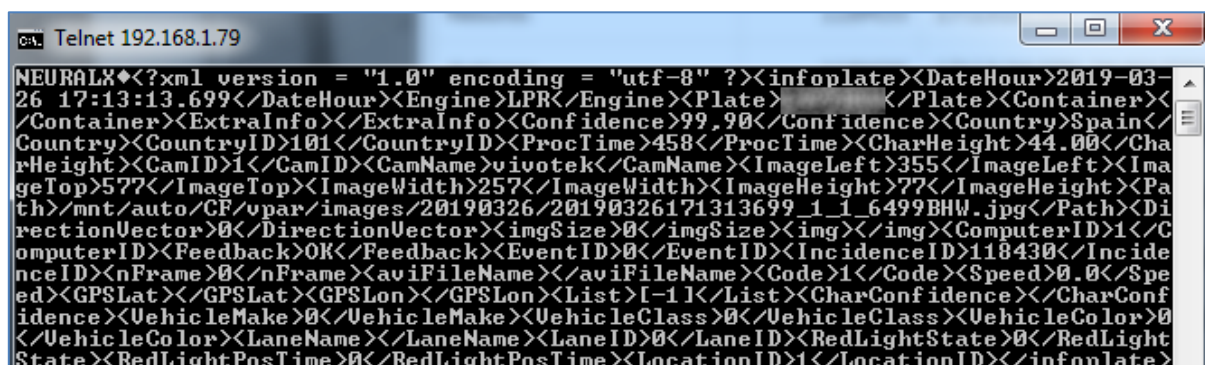
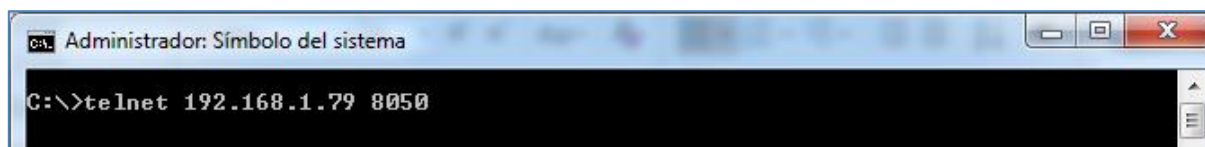
If the socket client action does not send the message, please check the following points:

- 1) Check HOST and Port of defined action.
- 2) Check the connection that the camera has connection to the HOST/PORT.
- 3) Download, install and open the sample test program on client computer.
 - www.neurallabs.net/SendReceiveEvents/SendReceiveEvents_x64.zip
 - www.neurallabs.net/SendReceiveEvents/SendReceiveEvents_x86.zip
- 4) Check the IP from client computer, set port 17000 and read a plate.

6.5.2 Socket server / Trigger server

If the socket server action does not send the message, please check the following points:

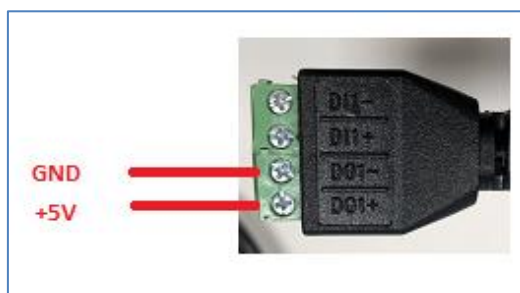
- 1) Check the defined port
- 2) Reboot the service if you have defined a new socket server action
- 3) Open a telnet client to Camera IP and defined port and check that the message is received.



6.5.3 IO

If the IO action does not send the message, please check the following points:

- 1) Check the defined port
- 2) Check the defined time
- 3) With a multimeter, connect to selected port and check that the voltage changes from 0 to 5 V.



6.5.4 FTP

If the FTP action does not send the message, please check the following points:

- 1) Check the defined parameter
- 2) Check the credentials and access with FTP client
 - <https://filezilla-project.org/download.php?type=client>
- 3) Install FTP server like the FileZilla server and check the logs
 - https://dl2.cdn.filezilla-project.org/server/FileZilla_Server-0_9_60_2.exe?h=Fjvi4wvZmA-MDcp3K9v0Q&x=1553712290

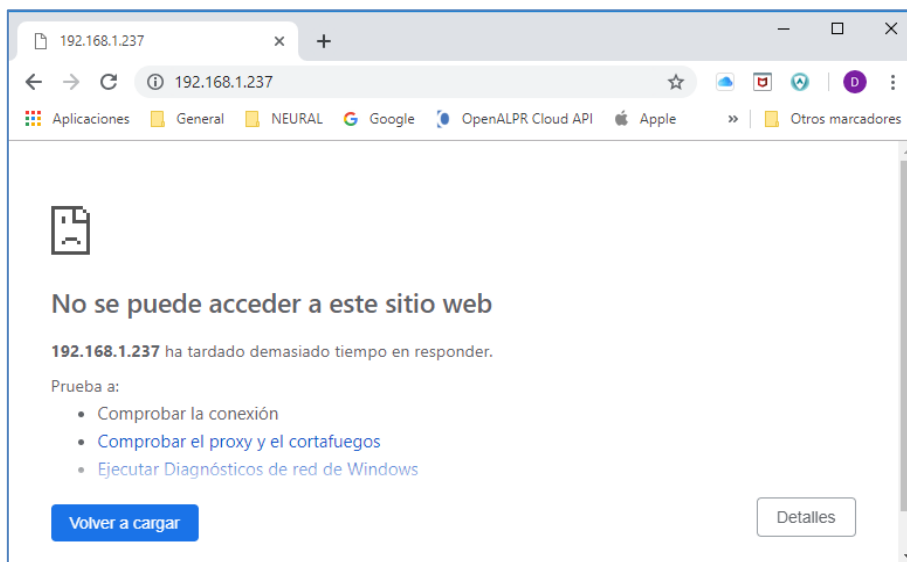
File Server Edit ?						
/C:/ C:\						
<pre> (007504)27/03/2019 18:46:45 - root (192.168.1.68)> QUIT (007504)27/03/2019 18:46:45 - root (192.168.1.68)> 221 Goodbye (007504)27/03/2019 18:46:45 - root (192.168.1.68)> disconnected. (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message... (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-FileZilla Server 0.9.60 beta (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-written by Tim Kosse (tim.kosse@filezilla-project.org) (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220 Please visit https://filezilla-project.org/ (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> USER root (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 331 Password required for root (007505)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> PASS ***** (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 230 Logged on (007505)27/03/2019 18:46:45 - root (192.168.1.68)> CWD EXPORTS (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 250 CWD successful. "/EXPORTS" is current directory. (007505)27/03/2019 18:46:45 - root (192.168.1.68)> TYPE I (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 200 Type set to I (007505)27/03/2019 18:46:45 - root (192.168.1.68)> PASV (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 227 Entering Passive Mode (192.168.1.54,206,32) (007505)27/03/2019 18:46:45 - root (192.168.1.68)> STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 150 Opening data channel for file upload to server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 226 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007505)27/03/2019 18:46:45 - root (192.168.1.68)> QUIT (007505)27/03/2019 18:46:45 - root (192.168.1.68)> 221 Goodbye (007505)27/03/2019 18:46:45 - root (192.168.1.68)> disconnected. (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message... (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-FileZilla Server 0.9.60 beta (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-written by Tim Kosse (tim.kosse@filezilla-project.org) (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220 Please visit https://filezilla-project.org/ (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> USER root (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 331 Password required for root (007506)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> PASS ***** (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 230 Logged on (007506)27/03/2019 18:46:45 - root (192.168.1.68)> CWD EXPORTS (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 250 CWD successful. "/EXPORTS" is current directory. (007506)27/03/2019 18:46:45 - root (192.168.1.68)> TYPE I (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 200 Type set to I (007506)27/03/2019 18:46:45 - root (192.168.1.68)> PASV (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 227 Entering Passive Mode (192.168.1.54,202,30) (007506)27/03/2019 18:46:45 - root (192.168.1.68)> STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 150 Opening data channel for file upload to server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 226 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007506)27/03/2019 18:46:45 - root (192.168.1.68)> QUIT (007506)27/03/2019 18:46:45 - root (192.168.1.68)> 221 Goodbye (007506)27/03/2019 18:46:45 - root (192.168.1.68)> disconnected. (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message... (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-FileZilla Server 0.9.60 beta (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220-written by Tim Kosse (tim.kosse@filezilla-project.org) (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 220 Please visit https://filezilla-project.org/ (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> USER root (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> 331 Password required for root (007507)27/03/2019 18:46:45 - (not logged in) (192.168.1.68)> PASS ***** (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 230 Logged on (007507)27/03/2019 18:46:45 - root (192.168.1.68)> CWD EXPORTS (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 250 CWD successful. "/EXPORTS" is current directory. (007507)27/03/2019 18:46:45 - root (192.168.1.68)> TYPE I (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 200 Type set to I (007507)27/03/2019 18:46:45 - root (192.168.1.68)> PASV (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 227 Entering Passive Mode (192.168.1.54,199,209) (007507)27/03/2019 18:46:45 - root (192.168.1.68)> STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 150 Opening data channel for file upload to server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 226 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" (007507)27/03/2019 18:46:45 - root (192.168.1.68)> QUIT (007507)27/03/2019 18:46:45 - root (192.168.1.68)> 221 Goodbye (007507)27/03/2019 18:46:45 - root (192.168.1.68)> disconnected. (007508)27/03/2019 18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message... </pre>						
ID	Account	IP	Transfer	Progress	Speed	
Ready						

6.5.5 HTTP/MILESTONE/WIEGAND

If the HTTP action does not send the message, please check the following points:

- 1) Check the defined parameter
- 2) With an explorer (Internet explorer, Firefox, Chrome) do a request to defined URL and check that the URL respond.

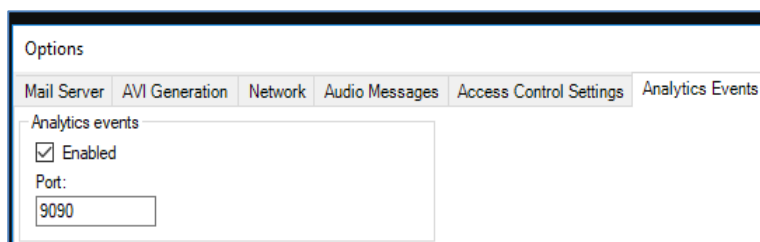
In this case not responds



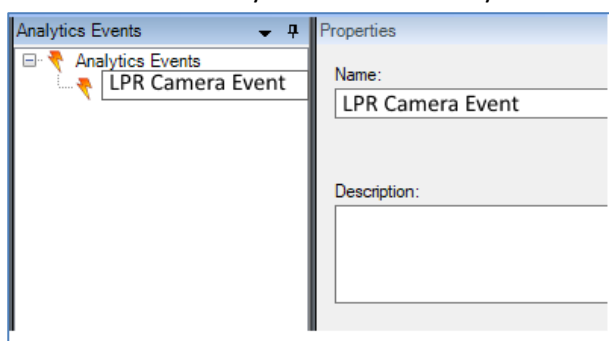
6.5.5 MILESTONE

If the MILESTONE action does not send the message, please check the following points:

- 3) Check the defined parameter
- 4) Check in Milestone system that the analytics events are enabled.



- 5) Check in Milestone system that the analytic event name is "LPR Camera Event"



- 6) Check in Milestone system that the created alarm uses the before analytic event and related camera.