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5. 5.1 5.1 5.2 5.2 5.2 6 6.1 6.2 6.3 6.4 6.5 6.5	Camera list synchronization	65 66 68 70 72 72 73 73 74 76
5. 5.1 5.1 5.2 5.2 5.2 6 6.1 6.2 6.3 6.4 6.5 6.4 6.5 6 6	Camera list synchronization	65 66 68 70 72 72 72 73 73 74 74 76 77
5. 5.1 5.1 5.2 5.2 5.2 6 6.1 6.2 6.3 6.4 6.5 6.4 6.5 6.4 6.5 6.5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Camera list synchronization	65 66 68 70 72 72 72 73 73 74 74 77 77
5. 5.1 5.1 5.2 5.2 6 6.1 6.2 6.3 6.4 6.5 6.4 6.5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Camera list synchronization	65 66 68 70 72 72 72 73 73 74 76 77 77 78



# 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)

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

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

*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.

ZKTeco	Live	Playbac	k File	Setup	Log	Alarm 💄	FaceFace		
Lists									
Setup Evidence									
LPR Main									
Audit									
Debug									
			Region/country	selection					
							_		
			Region:	Europe			· •		
			Country:	Europe					
			,	South America	a & Central				
		Show stat		North America	a & Central				
				Asia					
		29/02/2020		Africa					
				List Oceania					
						_			

### First select the Region:

Region/country selection								
Region:		Europe						
Country:		Europe						
		South America & Central						
		North America & Central						
		Asia						
	-	Africa						
23:59:59		Oceania						

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





Region/country sel	ection	
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).



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.

From date	28/02/2020 00:00:00	ä		Plate				
To date	28/02/2020 23:59:59	ä		List		all plates		
Search		First p	age	<< 8	Before	Next >>	Last page	Export
		Pag	g. 1/380	)		Q Search	ha	
ID	Time(ms)	Plate		Lane	Conf.	Country	Image	
47602	18:04:53.102 28/02/2020	6499BHW			79.03	Spain	6499	ВН₩
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

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:

From date	23/09/2019 00:00:00	Plate	From date 23/09/2	2019 00:00:00	Plate
To date			To date 23/09/2	2019 23:59:59	List all pla
Search	< SEPTEMBER 2019 >		Search	SEPTEMBER 2019	> 12
	SUN         MON         TUE         WED         THU         FRI         SAT           25         26         27         28         29         30         31	9 • 3	<b>su</b> 25		
ID Time	1 2 3 4 5 6 7 8 9 10 11 12 13 14		ID Time 1	1 2 3 4 5 6	7
ib fille	15 16 17 18 19 20 21 22 23 24 25 26 27 28	6 00 ^ ; 00 ^	8		
	22     23     24     23     20     21     23       29     30     1     2     3     4     5	00 ‡ : 00 ‡	22		10 v . 05 v
	Today	Done Cancel	То	oday	Done Cancel



Search		First pa	ge <<	Before	Next >>	Last page	Export
		Pag.	1/380		Q Search	ì	
ID	Time(ms)	Plate	Lane	Conf.	Country	Image	
47602	18:04:53.102 28/02/2020	6499BHW		79.03	Spain	6499	внж
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	ВН₩
47605	18:04:56.875 28/02/2020	6499BHW		81.39	Spain	6499	вн₩
47606	18:05:01.133 28/02/2020	6499BHW		81.24	Spain	6499	вн₩

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.

rom date	28/02/2020 00:00:00	Ċ.			Plate	64				
lo date	28/02/2020 23:59:59				List	all plates	all plates			
Search			Fi	irst par	<< Before	Next >>	Last pag	ge Export		
			P= 1/5	66		Q Sear	:h			
ID	Time(ms)	Plate	Lane	Conf.	Country	Image	Ir	nage		
47602	18:04:53.102 28/02/2020	6499BHW		79.03	Spain	6499 B	HW	PR		
47603	18:04:53.836 28/02/2020	6499BHW		79.19	Spain	6499 B	HW	PR		
47604	18:04:54.498 28/02/2020	6499BHW		79.76	Spain	6499 B	HW	PR		
47605	18:04:56.875 28/02/2020	6499BHW		81.39	Spain	6499 B	HW	PR		
47606	18:05:01.133 28/02/2020	6499BHW		81.24	Spain	6499 B		PR		

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

1503 11:21:43:254 28/02/2019	99.1	0 Spain	BLACKLIST
1504 11:22:20.612 28/02/2019	93.5	5 Spain	
1505 11:22:34.864 28/02/2019	99.9	0 Spain	
1506 11:23:27.830 28/02/2019	. 95.5	3 Spain	
1507 11:24:47.292 28/02/2019	86.3	4 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".



V L	ist types	
	🕂 🗈 🔍 Search	
ID	Name	
C	EMPLOYEES	Save Cancel
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete
3	BLACKLIST	Edit Delete
► A	ction for the list: not in list (0)	
▶ E	xports for the list: not in list (0)	
▶ Ir	nports for the list: not in list (0)	

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.

<b>T</b> I	ist types	
	+ Q Search	
ID	Name	
-2	all plates	Edit Delete
-1	not in list	Edit Delete
1	BLACKLIST	Edit Delete
2	WHITELIST	Edit Delete
4	EMPLOYEES	Edit Delete
Þ l	ist of the license plates: EMPLOYEES (0)	
	action for the list: EMPLOYEES (0)	
Þ	exports for the list: EMPLOYEES (0)	
	nports for the list: EMPLOYEES (0)	
	Copyright © 2019	

## List of the license plates: EMPLOYEES

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

				+ 🖻 Q 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	Save Cancel



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

				+ 🛛 Q 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.

💌 L	ist types								
						+ 2	Q Search		
ID	Name								
-2	all plates								Edit Delete
-1	not in list								Edit Delete
1	BLACKLIST								Edit Delete
2	WHITELIST								Edit Delete
3	BLACKLIST								Edit Delete
4	EMPLOYEES								Edit Delete
💌 L	ist of the lic	ense plates: E	MPLOYEES (0)	Socket client					
				Socket server		+	Q Search		
Plate		Description	Insert Date	FTP		End validity date			
				HTTP	ä			Ġ	Save Cancel
<b>•</b> A	ction for th	e list: EMPLOY	'EES (0)	MILESTONE Trigger server Meypar server					
				WIEGAND SOYAL FTP JPG MTT		+	Q Search		
ID		cription		EMAIL	Active				
	1			Select 👻	Select.			-	Save Cancel



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	Descrip	tion						Act	ion type	2						Active								
2	SEND X	ML MS	G					Soc	ket clie	nt						Enable	d						E	dit <u>Delete</u>
Action   Sc																								
AC	TIVA	FION	SCH	EDU	LER																			
	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	16:0	017:0	018:0	019:0	020:0	021:0	022:00	23:00
Sun																								
Mon																								
Wed																								
Thu																								
Fri																								
Sat																								
Action	Save s	chedule	er		-					?	9													
Host:										127.	0.0.1													
Port:										170	00												6	2
Forma	t:								0	• >	KML	XN	IL_IMG	0	JSON	0	JSON_	IMG						?

Set the scheduler as needed and click on "SAVE SCHEDULER".

Action Info: Click on Provide for more information.



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

Click on **e** for more information about format type.

×



#### Help

The posible 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



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

ACTIVATION SCHEDULER         0:00       1:00       2:00       3:00       4:00       5:00       7:00       8:00       9:00       10:00       11:00       12:00       13:00       19:00       20:00       2:00	ID	Descrip	tion						Acti	ion typ	e						Active								
ACTIVATION SCHEDULER         0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:0011:0012:0013:0014:0015:0016:0017:0018:0019:0020:0021:0022:002         Sun         Mon         Image: Stress Stre	Ļ	Receive	XML n	nsg					Soc	ket ser	ver						Enable	Ы						E	dit <u>Delete</u>
ACTIVATION SCHEDULER       0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:0011:0012:0013:0014:0015:0016:0017:0018:0019:0020:0021:0022:002         Sun       Image: Comparison of the co																									
ACTIVATION SCHEDULER         0:00       1:00       2:00       3:00       4:00       5:00       6:00       7:00       8:00       9:00       10:0011:0012:0013:0014:0015:0016:0017:0018:0019:002:0022:002       2:00	ction	prope	rties																						
ACTIVATION SCHEDULER       0:00       1:00       2:00       3:00       4:00       5:00       6:00       7:00       8:00       9:00       10:0011:0012:0013:0014:0015:0016:0017:0018:0019:0020:0021:0022:002       2:00       <	▼ S	chedul	er																						
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       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00       17:00       16:00 <td>· O</td> <td>Shead</td> <td></td>	· O	Shead																							
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       12:00       12:00       13:00       14:00       15:00       16:00       12:00       12:00       13:00       14:00       15:00       16:00       12:00       12:00       13:00       14:00       15:00       16:00       12:00       12:00       13:00       14:00       15:00       16:00       12:00       12:00       13:00       14:00       15:00       16:00 <td></td> <td>TIMA</td> <td>TION</td> <td></td> <td>E D U</td> <td></td>		TIMA	TION		E D U																				
Sun     Sun <td>AC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.00</td> <td>c.00</td> <td>7:00</td> <td>0.00</td> <td>0.00</td> <td>10.00</td> <td>11.00</td> <td>12.00</td> <td>12.00</td> <td>14:00</td> <td>15.00</td> <td>16.00</td> <td>17.00</td> <td>10.00</td> <td>10.0</td> <td>20.0</td> <td>0.21.00</td> <td>22.00</td> <td>22.00</td>	AC						5.00	c.00	7:00	0.00	0.00	10.00	11.00	12.00	12.00	14:00	15.00	16.00	17.00	10.00	10.0	20.0	0.21.00	22.00	22.00
Mon     Mon <td>Sun</td> <td></td> <td>1:00</td> <td>2:00</td> <td>3:00</td> <td>4:00</td> <td>5:00</td> <td>6:00</td> <td>7:00</td> <td>8:00</td> <td>9:00</td> <td>10:00</td> <td>11:00</td> <td>12:00</td> <td>13:00</td> <td>14:00</td> <td>15:00</td> <td>16:00</td> <td>17:00</td> <td>18:00</td> <td>19:00</td> <td>J 20:0</td> <td>021:00</td> <td>122:00</td> <td>23:00</td>	Sun		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	J 20:0	021:00	122:00	23:00
Wed     Wed     Image: Contract of the cont																									
Thu Charles Contraction Contra	Tue																								
Fri	Wed																								
	Thu																								
	Fri																								
Sat	Sat																								
												_													
V Save scheduler												1													
	Action	n Info									?,														
	Port:										8050	)												_	
Action Info	_															ICON		CON						2	
Action Info Port: 8050 2	Forma	at:									<b>``</b> ,	(ML	XN	IL_IMG		JSON	•	ISON_II	MG						

Set the scheduler as needed and click on "SAVE SCHEDULER".

Action Info: Click on 📌 for more information.



Click on einformation about format type.

Help	×
The posible formats are following: • XML: XML message without image <u>Download Sample</u> • XML_IMG: XML message with image <u>Download Sample</u> • JSON: JSON message without image <u>Download Sample</u> • JSON_IMG: JSON message with image <u>Download Sample</u>	



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"

Actio	n for the list: all plates (1)					
					+ Q Search	
	Description	Action type	Acti	ve		
	1	10	Ena	bled		Edit De
ion pro	perties					
Sche	duler					
	VATION SCHEDULER					
_	00 1:00 2:00 3:00 4:00 5:	00 6:00 7:00 8:00 9:00 10:0011:0	0 12:00 13:00 14:00 15:00	16:00 17:00 18:00 19:00	20:0021:0022:0023:00	
Sun						
Mon						
Tue						
Wed						
Thu						
Fri						
Fri Sat						
Sat						
Sat	ve scheduler					
Sat	ve scheduler					
Sat 🗸		2				
Sat 🗸		?				
Sat Sat		? • ZKTECO				
Sat Sat ction Info D type:		ZKTECO				
Sat			:			

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on for more information about how to configure.

Help	×
Enable output digital signals in the camera The parameters are the following	
<ul> <li>IO type:The type of output</li> <li>Output:The port that will be activated</li> <li>Activation time(sec):Time to keep the signal</li> </ul>	

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"

2 Ftp1	FTP	Enabled	Edit Delete
Action properties			
Scheduler			
Scheduler			
ACTIVATION SCHEDULER			
0:00 1:00 2:00 3:00 4:00 5:00	6:00 7:00 8:00 9:00 10:0011:0012:00	13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22	2:00 23:00
Sun			
Mon			
Wed			
Thu			
Fri			
Sat			_
✓ Save scheduler	1		
Action Info	?		
Host:	192.168.1.156		
Port:	21		
			2
Format:	XML XML_IMG ISON	JSON_IMG IMAGE	2
Folder:			
User:	vit-ni		
Password:	123		
103390107			
Confirmation file	<ul> <li>NONE</li> <li>,FLAG</li> <li>,CONF</li> </ul>		

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se



Select which message format you will use to send the information. Click on for more information about format type.

×



### Help

The posible 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

\*The name of the file is DATETIME(YYYYMMDDHHmmSS) \_ID\_TYPE\_LIST\_PLATE





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	НТТР	Enabled	Edit Delete
Action properti	es			
<ul> <li>Scheduler</li> </ul>				
Αςτινατι	ION SCHEDULER			
		0 7:00 8:00 9:00 10:0011:0012	2:00 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				
Fri				
Sat				
✓ Save sch	eduler			
		1		
Action Info		?		
Output format:		XML JSON		
Authentication:		NONE BASIC DIGEST		2
Format:		GET POST POST_IMG	POST_PARAM	?
Url:		http://127.0.0.1:80		
Post message:				
User:				
Password:				

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 p	arameters are the following:
	Output format: The format of the output with the plate information. Not used when POST_PARAM is selected in field Format. Authentication: The method of authentication for the HTTP protocol message. Format: The format of the HTTP protocol message. URL: URL where to send the request. Post message: Custom POST message to be sent when POST_PARAM is selected. Can be used JSON, XML or any other format including wherever required, the tags listed in the next list. User: Username to be used when authentication required. Password: Password to be used when authentication required.
The p	ossible tags to be used in field Post message are the following:
	{IDCOMP}Computed ID
	{IDCAM}Camera identifier {PLT}Plate
	{DTE}Date and time
	{CNF}Confidence
•	{IDLIST}List identifiers
	{IDNAME}List names
•	{IDLAN}Lane identifier

Click on  $2^{2}$  for more information about format type.

# Help × The posible formats are the following: • • GET:Send a get petition • • POST:Send a post petition, • • POST\_IMG:Send a post petition, including the image • • POST\_PARAM:Send a post petition, with the text included in the field Post message.



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
	n properties Scheduler			
A	CTIVATION SCHEDULER			
	0:00 1:00 2:00 3:00 4:00 5:00 6:00	7:00 8:00 9:00 10:0011:0012:0013:0014:0	0 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22	:0023:00
Su				
Mo				
Tu				
We				
Fr				
Sa				
	Save scheduler	2 1		
Host		127.0.0.1		
Port:		9090		2
Form	nat:	ANALYTIC_EVENT		?
Url:		http://127.0.0.1:9090		

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se

	Help	
	Send a request using this protocol to a server The parameters are the following	
Click on <b>2</b> for mor	<ul> <li>Host:Milestone server IP</li> <li>Port:Milestone server port</li> <li>Format:Petition format to send</li> <li>URL:URL to send the petition</li> <li>Event Type:Analytic event type</li> </ul>	
	Help	×
	The posible formats are following: • ANALITYC_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
	properties cheduler			
AC	TIVATION SCHEDULER			
		7:00 8:00 9:00 10:0011:0012:0013:0014:0	0 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22	:0023:00
Sur				
Moi				
We				
Thu				
Fri				
Sat				
	Save scheduler	9		
Host	11	7.0.0.1		
Port:	8			
Form	at:	MULTIFORMAT LENEL		2?
Read	er: •	A 🕒 B		

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se



Click on for more information about format type.

Help		
The pos	ible formats are following	
• N	IULTIFORMAT:Weigand with multiformat	



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 an 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

<ul> <li>Action for the</li> </ul>	list: EMPLOYEES (1)						
					+ (	Contemporation Search	
ID	Description	Action type		Active			
10	1	Trigger server		Enabled			Edit Delete
Action properties							
Scheduler							
ACTIVATION	SCHEDULER						
	2:00 3:00 4:00 5:00 6:00 7:00 8:	00 9:00 10:0011:0012:0013:001	4:00 15:00 16:00 17:00	18:00 19:00 20:00 21:00 22:00 23:0	0		
Sun							
Tue							
Wed							
Thu Fri							
Sat							
✓ Save schedul	er	-			-		
V Save Schedul		1					
Action Info		?					
Port:		8060 🗘					
Format response:		SIMPLE XML XML_IMG	ozl 🕘 nozl 🕘 i	N_IMG			
Trigger message:		\$					
Simple response init							
Simple response end	t:						

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se



Help ×
Enable a port that sends the read response when a trigger message arrives
The parameters are the following:
<ul> <li>Port: The port that will listen/respond to.</li> <li>Format: The message type and if need to send the image too. The posible formats are following:</li> </ul>
<ul> <li>SIMPLE: Return only the number plate</li> <li>XML: XML message without image Download Sample</li> <li>XML_IMG: XML message with image Download Sample</li> <li>JSON: JSON message without image Download Sample</li> <li>JSON_IMG: JSON message with image Download Sample</li> </ul>
Trigger message: Activation message for trigger
Simple response init: Message concatenated before plate (only for
simple format)
<ul> <li>Simple response init: Message concatenated after plate (only for simple format)</li> </ul>



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 propert	ies			
<ul> <li>Schedule</li> </ul>				
Scriedule	7			
Αςτινάτ	ION SCHEDULER			
		0 7:00 8:00 9:00 10:0011:00	12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:0	0 20:00 21:00 22:00 23:00
Sun				
Mon				
Tue				
Wed				
Fri				
Sat				
✓ Save sc	beduler			
Action Info		?		
Host:		192.168.1.173		
Port:		1601 🍦		2_
Output format		Bypass data bits	parity bits Odd/Even parity bits	?
Output bit leng	ith:	24 bits 32 bits		

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se



Click on for more information about format type.

Help ×
The possible output formats are the following:
<ul> <li>Bypass data bits:No parity bits are added to the output</li> <li>Even/Odd parity bits:The leading parity bit is even, and the ending parity bit is odd</li> <li>Odd/Even parity bits:The leading parity bit is odd, and the ending parity bit is even</li> </ul>
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".

ID Desi	cription	Action type		Active	
11 1		FTP JPG MTT		Enabled	Edit Delete
Action properties					
<ul> <li>Scheduler</li> </ul>					
ACTIVATION	SCHEDIII ER				
		00 8:00 9:00 10:0011:	:00 12:00 13:00 14	4:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22	:0023:00
Sun					
Mon					
Tue					
Wed					
Thu					
Sat					
_					
✓ Save schedule	r	1			
Action Info	?				
Host:	127.0	0.0.1			
Port:	21	÷			2
Format:	•	PG			?
Folder:					
User:					
Password:					

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the second se

н	Help	×
m	tore the JPG image of the result in a FTP server by camera ID, year, nonth and day he parameters are the following	
	Host:Ftp server IP     Port:Ftp server port     Format:The image format (JPG)     Folder:Ftp folder where to save the image files     User:Ftp user     Password:Ftp password	
	e information about format type.	×
	he only supported format is JPG he image files will be stored in the following folders structure:	
ca	ameralD/year/month/day he image file name will follow the layout: YYYYMMDD-	

hhmmss\_cameralD\_plate.jpg


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			
<ul> <li>Scheduler</li> </ul>			
ACTIVATION SCHEDULER			
0:00 1:00 2:00 3:00 4:00 5:00 6: Sun	00 7:00 8:00 9:00 10:0011:0012:00	13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:0	022:0023:00
Mon			
Tue			
Wed			
Thu			
Fri			
Sat			
✓ Save scheduler			
	<b>1</b>		
Action Info	?		
Server:			
Port:	587		_
Porc			2
Server type and format:	SMTP/SSL SMTP		?
From:			
User:			_
Password:			
To:			
10.			
Subject:	plate {PLT} received		
Message:	Plate: {PLT}{ENDLN}Time: {DTE}{ENDLN}Globa	I Confidence: {CNF}ENDLN}List: {IDNAME}ENDLN}Lane: {IDL	AN}{EN

Set the scheduler as needed and click on "SAVE SCHEDULER".

Click on provide the 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 adress • User:Email user • Password:Email password • To:To email adress • 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	r



Click on for more information about format type.

Help	×
The posible formats are following:	
SMTP/SSL: SMTP server over SSL     SMTP: SMTP Server	



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	10 -	Select Save Cancel		
		Disabled			
E	exports for the list: EMPLOYEES (0)		Enabled		

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	10	Disabled	Edit Delete

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

<ul> <li>Action for</li> </ul>	r the list: EMPLOYEES (1)			
			+ Q 56	earch
ID	Description	Action type	Active	
2	Test	Trigger server	Enabled	<u>Edit Delete</u>

Are	you sure to delet	te 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.

	▼ Exports for the list: EMPLOYEES (0)						
Export to CSV file Export to XML file		Minute Hour	Interval time				
			Day Week	+ Q Search			
ID	Description 4	Export type	Month	Active			
	local result	FTP matches -	Select	✓ Enabled ✓ Save Cancel			



 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 4	Export type	Interval	Active	
1	local result	FTP matches	Hour	Enabled	Edit Delete
	t properties rt Info	2			
Host	:	127.0.0.1			
Port:		21			_
Form	nat:	• XML • XML_IMG	JSON JSON_IMG CSV		2 ?
Fold	er name:				
User	:				
Pass	word:				
Conf	irmation file:	NONE .FLAG	.CONF		

Click on provide the second se

×
o gle

## Click on **e** for more information about format type.

Help	×
The posible 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	
<ul> <li>JSON_IMG: JSON results with image Download Sample</li> <li>CSV: CSV results Download Sample</li> </ul>	
- Cov.Cov 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 4	Export type	Interval	Active	
1	local result	FTP list	Hour	Enabled	Edit Delete
	t properties	2			
Host	ta is	127.0.0.1			
Port		21	A v		•
Form	nat:	• XML CSV			2?
Fold	er name:				
User	:				
Pass	word:				
Con	firmation file:	.FLAG			

Click on provide the second se



Click on **4** for more information about format type.

The posible 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.

	+ Q Search						
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.

	+ Q Search							
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.

	+ Q Search						
ID	Description	Export type	Interval	Active			
2	11111	FTP list 👻	Minute	Enabled if change			

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

	+ Q Search						
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.



The format of the XML is the following:

</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 ""
  - o 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:
  - $\circ$  Id= Id of the element
  - Sendserver = Always 0
  - Dateserver= Always ""
  - o 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:

- nllist-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.
- 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
	r properties	?			
Host		127.0.0.1			
Port:		21			_
Form	iat:	XML XML_NOTDEL	ETE CSV CSV_NOTDELETE		2?
Folde	er name:				
User:					
Passv	word:				
Conf	irmation file:	• .FLAG			

Click on provide the second se





Click on for more information about format type.

Help	×
The posible formats are following  • XML:XML list Download Sample  • XML_NOTDELETE:XML list (Not delete the o Sample  • CSV:XML list Download Sample  • CSV_NOTDELETE:XML list (Not delete the o Sample	

 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".

				+ Q Search	
ID	Description	Import type	Interval	Active	
5	23232	SINCRO camera	Minute	Enabled	Edit Delete
	properties				
	rt Info	192.168.1.78			
Impo	et Info	_			

Click on provide the second se

Help	×
Import the lists from a Camera The parameters are the following	
<ul> <li>Host:Camera master IP</li> <li>User:Camera master user</li> <li>Password:Camera master password</li> </ul>	



## **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.

Options								
Mail Server	AVI Generation	Network	Audio Messages	Access Control Settings	Analytics Events			
Analytics ev Enabled Port: 9090								

- 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

Alarm Definitions 🛛 👻 🕂	Properties	
- 🧏 Alarm Definitions 🧏 Alarm Definition	Alam definition Enable: Name: Instructions:	LPR ALARM
	Trigger Triggering event:	Analytics Events



# 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.).

Restart service

All the options after modified requires a service reset.

7VT							English	-	
ZKTeco	Live	Playback	File	Setup	Log	Alarm 👃	FaceFace	LPR	
Main									
Lists									Restart service
Setup									
Evidence	Region:			Europe					-
LPR Main	-								
Audit	Countries:			Spain ×					
Debug									
	Function mode:			TRIGGER	FREEFLOW	MOTIONDETECTI	ON		?
	Resolution:			1280x720	1920x1080				
	Resolution:			1200x720	192021000				
	Show ROI (	(3930;3792;2555	5;1667)						
	Show lanes								
	, on one of the second								
	Expert Opti	ons							
	Expert opti	0113							
	Trigger enti	0.00							
	Trigger opti	OHS							
	► FreeFlow/IV	totion options							
									Restart default configuration
									Restarc default configuration
				Copy	right © 2019				

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

Region:	Europe & Morocco
Countries:	Europe & Morocco
	South America & Central
	North America & Central
	Asia
	Africa

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 onRestart servicebutton.Now you are ready to read license plates for these two countries.

		Restart service	
Region:	Asia	-	
Countries:	Singapore 🗶 Malaysia 🗶		

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

ZKTeco
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.

**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	* *
Minimun 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:	1
Trigger timeout (millis):	0
Trigger IO device:	✓ ZKTECO
Trigger IO port:	✓ 0 📃 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.

*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.

<ul> <li>FreeFlow/Motion options</li> </ul>		
Info:	?	
Free flow/Motion filter mode:	NONE CAPTURES TIME	
Free Flow/Motion filter captures:	5	*
Free Flow/Motion filter time (millis):	0	*
Minimum characters difference:	1	* *
Motion threshold:	15	* *
Motion queue:	10	* •
Motion type:	HISILICON 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"

FreeFlow/Motion options		
Info:	?	
Free flow/Motion filter mode:		
Free Flow/Motion filter captures:		÷
Free Flow/Motion filter time (millis):	0	*
Minimum characters difference:	$\bigcirc$	* *
Motion threshold:	15	÷
Motion queue:	10	*
Motion type:	HISILICON VPAR	

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.





## 4.6. Evidence

In this tab, configure the Evidence Camera:

71/7							
	ive	Playback	File	Setup	Log	Alarm 👃	)
Lists							Restart service
Setup							
Evidence	E E	vidence cameras					
LPR Main							
Audit					+	Q Search	
Debug							
	ID	Name					
				No data			
			Copyright	2019			

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

E	vidence cameras	
	+ Q Search	
ID	Name	
	Evidence 1	Save Cancel

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.

Evidence cameras								
		-	ł	Q Search				
ID	Name							
2	Evidence 1					Edit Delete		
•	Details							
Conr	nection type:	HTTP						
Logi	n	root						
Pass	word:	neural002						
Url:		http://192.168.1.60/cgi-bin/viewer/video.jp	g					



## 4.7. LPR MAIN

In this tab, configure general parameters:

ZKTeco	Live	Playback	File	Setup	Log	Alarm 👃	
Main Lists Setup	_					I	Restart service
Evidence LPR Main Audit	E E	xpert Options					
Debug		og options					
		urge options laintenance Optio	20				
			113			Restart defa	ult configuration
			Copyright @	2019			

### **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:



<ul> <li>Expert Options</li> </ul>	
Info:	?
View type:	UST • SQUARE
Save the image:	×
Save the plate image:	⊻
Image quality:	40 _
Store image on:	• SD
Trigger Socket port:	8040 🗘
Action time:	INMEDIATE     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.

<ul> <li>Log options</li> </ul>		
Info:	?	
Log level service:	3	* *
Enable engine log:		
Log level manager:	3	* *



Purge options	
Purge Interval:	MINUTE • HOUR DAY WEEK MONTH
Type of purge:	DISABLED O 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 Options: Here we will determine how many days or register of data we need to keep.

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.



Maintenance Options	
Upload file or Drop import files here	
Revert last files	
Show info	

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.

Information Version 1.02 Mac address 00:02:D1:6A:58:22

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.

ZKTeco	Live	layback File	Setup	Log	larm 🛔 🛛 FaceFace	LPR
Main						
Lists	From date:	28/02/2020 00:00:00	l	Type:	export	
Setup Evidence	To deter	28/02/2020 23:59:59				
LPR Main	To date:	20/02/2020 25:59:59	l			
Audit	Show num registers:	10		-		
Debug	Search					Export
						Q. Search
	ID Time(ms)	Status	Type Res.	List	Description	Num. File
				No data		
			Copyrig	ht © 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:



## Actions example:

From date	94 -9	28/02/2020	00:00:00		Ċ.	Type:	import			-
To date:		28/02/2020	23:59:59		Ċ.					
Show num	n registers:	10			-					
Search									Ex	port
								Q, Se	earch	
ID	Time(ms)		Status	Туре	Res.	List	Description		File	
187971	19:54:18.921 2	8/02/2020	DONE	HTTP	51004	all plates	Action [Http2] plate [6499BHW		Get file	
187972	19:54:18.921 2	8/02/2020	DONE	HTTP	51004	all plates			C.1.61	
187973	19:54:19.211 2	8/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [6499BH	a q	Search	
187978	19:54:19.211 2	8/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [6499BHW		Get file	
187979	19:54:19.211 2	8/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [6499BHW		Get file	
187984	19:54:19.211 2	8/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [6499BHW		Get file	
187985	19:54:19.529 2	8/02/2020	DONE	HTTP	51006	all plates	Action [Http1] plate [6499BHW		Get file	
187990	19:54:19.529 2	8/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [6499BHW		Get file	
187991	19:54:19.529 2	8/02/2020	DONE	HTTP	51006	all plates	Action [Http2] plate [6499BHW		Get file	
187996	19:54:19.529 2	8/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [6499BHW		Get file	
First page	<< Be	fore	Next >>	Last page						Pag. 1/164
		_								

## Imports example:

From date	19 - 1	28/02/2020	00:00:00			Type:	export		-
To date:		28/02/2020	23:59:59						
Show num	n registers:	10			-				
Search									Export
								Q, Se	arch
ID	Time(ms)		Status	Туре	Res.	List	Description		File
187971	19:54:18.921 2	28/02/2020	DONE	нттр	51004	all plates	Action [Http2] plate [6499BHW	r.	Get file
187972	19:54:18.921 2	28/02/2020	DONE	HTTP	51004	all plates	Action [Http4] plate [6499		Catifia
187973	19:54:19.211	28/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [6499	Q Sea	irch
187978	19:54:19.211 2	28/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [6499BHW	ſ	Get file
187979	19:54:19.211 2	28/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [6499BHW	ſ	Get file
187984	19:54:19.211 2	28/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [6499BHW	ſ	Get file
187985	19:54:19.529	28/02/2020	DONE	нттр	51006	all plates	Action [Http1] plate [6499BHW	ſ	Get file
187990	19:54:19.529 2	28/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [6499BHW	1	Get file
187991	19:54:19.529	28/02/2020	DONE	нттр	51006	all plates	Action [Http2] plate [6499BHW	ſ	Get file
187996	19:54:19.529 2	28/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [6499BHW	I	Get file
									Pag. 1/164
First page	< < Be	etore	Next >>	Last page					
					Copyright © 2019				



## User Manual - ZK-LPR Car ID



From date	51 -1	28/02/2020	00:00:00		ā	Type:	action		-	
To date:		28/02/2020	23:59:59		ä					
Show num	n registers:	10			-					
Search									Export	
								Q, s	earch	
ID	Time(ms)		Status	Туре	Res.	List	Description	🕅 Q Sea	Eila	
187971	19:54:18.921	28/02/2020	DONE	HTTP	51004	all plates	Action [Http2] plate [6499B		occine .	
187972	19:54:18.921	28/02/2020	DONE	HTTP	51004	all plates	Action [Http4] plate [6499B	HW	Get file	
187973	19:54:19.211	28/02/2020	DONE	HTTP	51005	all plates	Action [Http1] plate [6499B	HW	Get file	
187978	19:54:19.211	28/02/2020	DONE	HTTP	51005	all plates	Action [Http3] plate [6499B	HW	Get file	
187979	19:54:19.211	28/02/2020	DONE	HTTP	51005	all plates	Action [Http2] plate [6499B	HW	Get file	
187984	19:54:19.211	28/02/2020	DONE	HTTP	51005	all plates	Action [Http4] plate [6499B	HW	Get file	
187985	19:54:19.529	28/02/2020	DONE	HTTP	51006	all plates	Action [Http1] plate [6499B	HW	Get file	
187990	19:54:19.529	28/02/2020	DONE	HTTP	51006	all plates	Action [Http3] plate [6499B	HW	Get file	
187991	19:54:19.529	28/02/2020	DONE	HTTP	51006	all plates	Action [Http2] plate [6499B	HW	Get file	
187996	19:54:19.529	28/02/2020	DONE	HTTP	51006	all plates	Action [Http4] plate [6499B	HW	Get file	
									Pag. 1/	164





## 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.

Main			
Lists			Restart ser
Setup			
Evidence	Show log type;	Manager Service Engine	
LPR Main		na ngan a sa na sa gina	
Audit	Autorefresh:	Chabled	
Debug			
	28/02/2020 20:49/20.471 (ERROD 28/02/2020 20:49/20.461 (ERROD 28/02/2020 20:49/20.461 (ERROD 28/02/2020 20:49/20.461 (ERROD 28/02/2020 20:49/20.465) (ERROD 28/02/2020 20:49/20.465) (ERROD 28/02/2020 20:49/20.465) (ERROD 28/02/2020 20:49/20.465) (ERROD 28/02/2020 20:49/20.167) (ERROD 28/02/2020 20:49/20.168) (ERROD 28/02/2020 20:49/20.140) (ERROD 28/02/2020 20:49/20.140) (ERROD 28/02/2020 20:49/20.140) (ERROD 28/02/2020 20:49/20.140) (ERROD 28/02/2020 20:49/20.140) (ERROD 28/02/2020 20:49/20.144) (ERROD	Text-6899HW.Date=2020-02-28120A92.0180.Conf=78.65.Height=19.89.Coord=597#324#716#354.Country=101.Angle=-1.65.Info=1.Time=361         RQ-ueue of action worker thread 5 full         RQ-ueue of action worker thread	

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 of the page.

in the bottom

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 downloads 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.

				+ 🛛 Q Search	
ID	Name				
-2	all plates				Edit Delete
-1	not in list				Edit Delete
1	BLACKLIST				Edit Delete
2	WHITELIST				Edit Delete
ÞL	ist of the license plates: BLACK	LIST (0)			
► E	action for the list: BLACKLIST (C Exports for the list: BLACKLIST ( mports for the list: BLACKLIST ( ect import XML/CSV file or Drop imp elete the list elements at import	(1)			
				+ Q Search	
ID	Description	Import type	Interval	Active	
			No data		

To configure all the list selects all plates.

				+	Q Search							
ID	Name											
-2	-2 all plates											
-1	-1 not in list											
1	1 BLACKLIST											
2	2 WHITELIST											
► A	action for the list: all plates (1)											
▼ II Sel												
				+	Q Search							
ID	Description	Import type	Interval	Active								
	No data											



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

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

## Configure the master camera credentials.

				+ Q Search	
ID	Description	Import type	Interval	Active	
2	import	SINCRO camera	Minute	Enabled if change	Edit Delete
	properties				
Impo	rt Info	?			
Host:		192.168.1.78			
User:		root			
Passv	vord:	neural001			

Host: Camera master IP User: <empty> Password: <empty>

Can be checked in the Audit Tab.

Fr	om date	: 08/04/2019 13:25	:00		Туре:	import		-		
Тс	date:	08/04/2019 23:59	59							
	Search									
						X	Q Search			
						×	C Search			
¥	ID	Time	Status	Туре	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.

				+ 🖬 Q Search					
ID	Name								
-2	all plates				Edit Delete				
-1	not in list				Edit Delete				
1 BLACKLIST									
2	WHITELIST				Edit Delete				
► L	► List of the license plates: BLACKLIST (0)								
<b>N</b> A	ction for the list: BLACKLIST (0	))							
E	exports for the list: BLACKLIST (	(0)							
Ехр	ort to CSV file Export to XML file			_					
				+ Q Search					
ID	Description	Export type	Interval	Active					
	No data								

To configure all the list selects all plates.

				+ 🛛 Q Search	
ID	Name				
-2	all plates				Edit Delete
-1	not in list				Edit Delete
1	BLACKLIST				Edit Delete
2	WHITELIST				Edit Delete
Ехр	oort to CSV file Export to XML file			+ Q Search	
ID	Description	Export type	Interval	Active	
			No data		

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

				+ Q Search	
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.

				+ Q Search	
ID	Description 1	Export type	Interval	Active	
1	export master	FTP list	Minute	Enabled if change	Edit Delete
Export	properties	_			
Ехро	rt Info	?			
Host		192.168.1.21			
Port:		21	)		
Form	at:	• XML CSV			?
Folde	er name:	EXPORT			
User		user			
Passv	vord:	password			
Conf	irmation file:	• .FLAG			

## Can be checked in the Audit Tab.

1 12:55:0	0.010 08/04/2019	DONE	FTP list	BLACKLIST	Export [export master] time [from	n:2000010	1	Get file
ID Time		Status	Туре	List	Description		Num.	File
						Search		
Search								
o date.	00/04/2015 25.55							
o date:	08/04/2019 23:59:	-59						
rom date:	08/04/2019 00:00:	:00		Type:	export		-	



# 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.

				+ 🛛 Q Search					
ID	Name								
-2	all plates				Edit Delete				
-1	not in list				Edit Delete				
1 BLACKLIST									
2	WHITELIST				Edit Delete				
🕨 Li	List of the license plates: BLACKLIST (0)								
	Action for the list: BLACKLIST (0)								
<b>E</b>	xports for the list: BLACKLIST (	(1)							
	nports for the list: BLACKLIST (								
Sele	ct import XML/CSV file or Drop imp	ort XML/CSV file here							
Del	lete the list elements at import			_					
				+ Q Search					
ID	Description	Import type	Interval	Active					
			No data						

To configure all the list selects all plates.

				+ 🖬 🤇	Search				
ID	Name								
-2	all plates					Edit Delete			
-1	not in list					Edit Delete			
1 BLACKLIST									
2	2 WHITELIST								
▼ II Sel	<ul> <li>Action for the list: all plates (1)</li> <li>Exports for the list: all plates (0)</li> <li>Imports for the list: all plates (0)</li> <li>Select import XML/CSV file or Drop import XML/CSV file here</li> <li>Delete the list elements at import</li> </ul>								
					<b>ኢ</b> Search				
ID	Description	Import type	Interval	Active					
	No data								

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

	+ Q Search					
ID	Description	Import type	Interval	Active		
	import slave	FTP list 💌	Minute 👻	Enabled if change		



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

				+ Q Search	
ID	Description	Import type	Interval	Active	
1	import slave	FTP list	Minute	Enabled if change	Edit Delete
Import	properties				
Impo	ort Info	?			
Host	:	192.168.1.21			
Port:		21			
Form	at:	• XML XML_NOTDEL	ete 💿 CSV 💿 CSV_NOTDELETE		?
Folde	er name:	EXPORT			
User:		user			
Passv	word:	password			
Conf	irmation 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.

Fr	om date	e: 08/04/2019 13:25	:00		Type:	import	-		
То	date:	08/04/2019 23:59	:59						
	Search								
						Q Search			
Ļ	ID	Time	Status	Туре	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.



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:

			Restart service
Show log type:	Manager Service	e Engine	
2 31	-	2	
Autorefresh:	Enabled		
	Show log type: Autorefresh:	5	



# 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 <u>LPR configuration</u>.
- 2. The license plate has a minimum size of 25 pixels. The user can use the <u>calibration pattern</u> 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 <u>ROI area</u>.
- 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 (<u>LPR CONFIGURATION</u>):

Function mode:	•	TRIGGER	
----------------	---	---------	--

b. Check the trigger socket port (GENERAL CONFIGURATION):

Trigger Socket port:	8040	* *



- 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				
	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.

▼ So	hedule	er									
AC	TIVA	TION	SCH	IEDU	LER						
	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 so	chedule	er								



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

Debug Searc	Image: market state         Image: market state	28/02/2020 28/02/2020 10 70 28/02/2020 27 28/02/2020 84 28/02/2020		Type FIP	C) C) C) C) C) C) C) C) C) C)	Type: List all plates all plates		Q. Search File	Export
Evidence To date: LPR Main Show nu Debug Searce 190077 190077 19008 19008	<ul> <li>Time(ms)</li> <li>21:02:05.32</li> <li>21:02:05.32</li> <li>21:02:05.32</li> </ul>	10 10 70 28/02/2020 27 28/02/2020	Status FAILED FAILED	FTP FTP	• Res. 58098	all plates	Action [21] plate [6499BHW]		Export
LPR Main Audit Debug Score	<ul> <li>Time(ms)</li> <li>21:02:05.32</li> <li>21:02:05.32</li> <li>21:02:05.32</li> </ul>	10 10 70 28/02/2020 27 28/02/2020	Status FAILED FAILED	FTP FTP	• Res. 58098	all plates	Action [21] plate [6499BHW]		Export
Audit         Show nu           Debug         Search           III         III           190074         190074           190075         190075           19008         19008	Time(ms)           21:02:04.82           21:02:05.32           32:02:05.32	70 28/02/2020 27 28/02/2020	FAILED	FTP FTP	Res.	all plates	Action [21] plate [6499BHW]		Export
IE 19007/ 19007/ 19007/ 19007/ 19008/ 19008/ 19008/	<ul> <li>Time(ms)</li> <li>21:02:04.8:</li> <li>21:02:05.3:</li> <li>21:02:05.7:</li> </ul>	27 28/02/2020	FAILED	FTP FTP	58098	all plates	Action [21] plate [6499BHW]		Export
19007/ 19007/ 19007/ 19007/ 19008/ 19008/	5 21:02:04.8 7 21:02:05.32 8 21:02:05.76	27 28/02/2020	FAILED	FTP FTP	58098	all plates	Action [21] plate [6499BHW]		
19007/ 19007/ 19007/ 19007/ 19008/ 19008/	5 21:02:04.8 7 21:02:05.32 8 21:02:05.76	27 28/02/2020	FAILED	FTP FTP	58098	all plates	Action [21] plate [6499BHW]	File	
190077 190077 190076 190067 190067	7 21:02:05.32 8 21:02:05.76	27 28/02/2020	FAILED	FTP					
190078 190079 190088 190088	8 21:02:05.78				58099	all plates	Action [21] plate [6499BHW]		
190079 190080 190080		84 28/02/2020	FAILED				Action [21] place [045551114]		
190080	21:02:06:10			FTP	58100	all plates	Action [21] plate [6499BHW]		
190081	21.02.00.1	97 28/02/2020	FAILED	FTP	58101	all plates	Action [21] plate [6499BHW]		
	21:02:06.73	29 28/02/2020	FAILED	FTP	58102	all plates	Action [21] plate [6499BHW]		
190082	1 21:02:07.10	02 28/02/2020	FAILED	FTP	58103	all plates	Action [21] plate [6499BHW]		
	2 21:02:07.5	31 28/02/2020	FAILED	FTP	58104	all plates	Action [21] plate [6499BHW]		
190083	3 21:02:07.92	21 28/02/2020	FAILED	FTP	58105	all plates	Action [21] plate [6499BHW]		
190084	4 21:02:08.32	20 28/02/2020	FAILED	FTP	58106	all plates	Action [21] plate [6499BHW]		
190086	5 21:02:08.74	44 28/02/2020	FAILED	FTP	58107	all plates	Action [21] plate [6499BHW]		
		_							Pag. 8/8
First pag	)e <-	< Before	Next >>	Last page					
					Copyright @	0 2019			

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 18:28:40.025 [ERRC	1) OK Execute action (1)(IO_ACTION) for result (15748)(6499BHW) NR ERROR Execute action (2)(SOCKET_CLIENT_ACTION) for result (15748)(6499BHW) 17 #xc=649BHW Date=2019-03-27T1828A0386 conf=97.18 Height=23.50 Coord=441#552#622#597.Country=101.Angle=4.72 Info=1.Time=519	•
27/03/2019 18:28:41.192 [ERRO	) OK Execute action (1)(IO_ACTION) for result (15749)(6499BHW)1 NJ ERKOR Execute action (2)(SOCKET_CLENT_ACTION) for result (15749)(6499BHW)1 Twi-F640BHW Tota=20100A;27TIB2841 302 conf=97 32 Height=23.38 (Coord=441#552#624#597, Country=101, Angle=4.71, Info=1, Time=444	
27/05/2019 18:28:42:059 [ERRO	] OK Execute action (1)(IO_ACTION) for result (15750)(6499BHW) אין האראעה באבעוב action (2)(SOCKET_CLENT_ACTION) for result (15750)(6499BHW)) 17 <del>צר ב690BHW</del> Date_20190-32771128242360 (conf_92.11 Haipint=23.50 Coord=441#552#622#597 Country=101 Angle=4.72 Info=1.Time=434	
27/03/2019 18:28:43.033 [INFC 27/03/2019 18:28:43.044 [ERRC	) OK Execute action (1)(IO_ACTION) for result (15751)(6499BHW) NY ENROK Execute action (2)(SOCKE1_CLENT_ACTION) for result (15751)(6499BHW) 17 Ext=6499BHW Date=2019-03-271182843403 conf=9749 Heioht=2338 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.

🛤 Administrador: Símbolo del sistema
Microsoft Windows [Versión 10.0.17134.648] (c) 2018 Microsoft Corporation. Todos los derechos reservados.
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.
  - o <a>www.neurallabs.net/SendReceiveEvents/SendReceiveEvents\_x64.zip</a>
  - www.neurallabs.net/SendReceiveEvents/SendReceiveEvents\_x86.zip
- 4) Check the IP from client computer, set port 17000 and read a plate.

Send Event					
IP 127.0.0	0.1 Port	8040		🔄 Include ID Event	
Camera	h A			Type of event 0	
	h 🗧				
Path				Ev Path	
					Send E
Recieved Event	LPR	Analytics			
Engine	LPR	Speed	0.0	e	
Plate/ ContainerID	Construction of the local data	Direction	0	and the second se	
Extra code	1	Make	0	the second se	
Confidence	99,9	Color	0		
Country cod	le 101	Class	0		
Image	/mnt/auto/CF/vpar/	Lane			
Date hour	2019-03-26 02:08:	RL State	0	-	
Feedback	ок	RL PTime	0	A CONTRACTOR OF THE OWNER OF THE	
ID cam	1	ID Locatio	on 1		
ID event	0			A DESCRIPTION OF	
Events Rec	ieved 5			and the second second	
Process Tin	ne 392			Plante and a second	
GPS					
Path	/mnt/auto/CF/vpar/i	mages/2019	0326/20190326020		
Ev Path					
	[-1]				
	1.3				





# 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.

Administrador: Símbolo del sistema C:\>telnet 192.168.1.79 805	0 0
Telnet 192.168.1.79	
26 17:13:13.699 <f /Container&gt;<extrainfo>Country&gt;<countryid>101rHeight&gt;<camid>1</camid><cam geTop&gt;577<imagewi th&gt;/mnt/auto/CF/vpar/images/ rectionVector&gt;0omputerID&gt;<feedback>OKnceID&gt;<nframe>0</nframe><avi ed&gt;<gpslat></gpslat><gpslon> idence&gt;<vehic1emake>0<td><pre>0" encoding = "utf-8" ?&gt;<infoplate><datehour>2019-03- Engine&gt;LPR<plate></plate></datehour></infoplate></pre></td></vehic1emake></gpslon></avi </feedback></imagewi </cam </countryid></extrainfo></f 	<pre>0" encoding = "utf-8" ?&gt;<infoplate><datehour>2019-03- Engine&gt;LPR<plate></plate></datehour></infoplate></pre>

## 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
  - o <u>https://filezilla-project.org/download.php?type=client</u>
- 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=Fjvi4wvvZmA-MDcp3K9v0Q&x=1553712290

Image: Solution         Image: Solution         Image: Solution           Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution           Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution           Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Image: Solution         Imag	51 0 512 3	
Operation         Operating Status         Status         Status           07682/702011         1646         17682         17	<u>File Server Edit ?</u>	
07542/072.011     11.64 45		
075402702019         18.46-5		
07486/27/301211144         File to toget in (12): 181.186; 22: 22: File to toget in (12): 181.186; 22: 22: File toget in (12): 181.186; 22: 22: File toget in (12): 181.186; 22: 22: File toget in (12): 181.186; 22: 22: 22: 22: 22: 22: 22: 22: 22: 22		
0738277302191         184.45         ret logged in (152:161:16): 220-wtten by Tim Kosee thm Kosee Efficient expect ong)           07382777302191         184.45         ret logged in (152:161:16): 231 Fassi meaning           07382777302191         184.45         ret logged in (152:161:16): 231 Fassi meaning           07382777302191         184.45         ret logged in (152:161:16): 231 Fassi meaning           07382777302191         184.45         ret logged in (152:161:16): TPF E1           073827777302191         184.4	(007505)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> Connected on port 21, sending welcome message
07180277302191       184.44       > not logged in (192: 108: 16b): 201 Peace with thru: //fields.npged.org/         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 201 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 501 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 501 DEFRodt         071802777302191       184.44       > not logged in (192: 108: 16b): 501 DEFRodt         071802777302191       184.45       > not logged in (192: 108: 16b): 502 DEFRodt         071802777302191       184.45       > not logged in (192: 108: 16b): 502 DEFRodt         071802777302191       184.45       > not logged in (192: 108: 16b): 502 DEFRodt         0718027		
07760777020191194645       resk bigged ni (192: 108: 105: 1071 Haawood and and a second a secon	(007505)27/03/2019 18:46:45 - (not logged in) (	132.100.100/220-Willen Dy Tim Rosse (un Rosselen lezia project.org) 192.108.188/>220 Piesae visit https://file.aniect.org/
073692702019       184-84 - not logged in (192: 10: 160): 201 cogen in (192: 10: 160): 201 c	(007505)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> USER root
0730927030219118445       not (122 168 168)       200 CPORTS         073092703021918445       not (122 168 168)       200 CPORTS         073092703021918445       not (122 168 168)       200 CPORTS         073092703021918445       not (122 168 168)       200 CPORTS	(007505)27/03/2019 18:46:45 - (not logged in) ( (007505)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> 331 Password required for root
07369270320191184464-root (12:168.168);       20:0000         0736927032019184464-root (12:168.168);       20:0000         0736927032019184464-root (12:168.168);       20:0000         0736927032019184464-root (12:168.168);       20:0000         0736927032019184464-root (12:168.168);       20:00000         0736927032019184464-root (12:168.168);       20:000000         0736927032019184464-root (12:168.168);       20:0000000         0736927032019184464-root (12:168.168);       20:00000000000000000000000000000000000	(007505)27/03/2019 18:46:45 - (not logged in) (	132.100.1.00/2 FAS3 6812 330 Logaed on
07369270320191184645-root (1221681.6B)       PTPE I         07369270320191184645-root (1221681.6B)       PASY         0736927032019184645-root (12221681.6B)       PASY         0736927032019184645-root (12221681.6B)       PASY         0736927032019184645-root (12221681.6B)       PASY         0736927032019184645-root (12221681.6B)       PASY         0736927032019184645-root (1221681.6B)       PASY	(007505)27/03/2019 18:46:45 - root (192.168.1.	.68)>CWD EXPORTS
07369270320191       84.64-sort (12:163.168)       200 Type set tol         07369270320191       84.64-sort (12:163.168)       22:0 Cooctestily transferred "/EXPORTS/20190327184442_2_FTP_ACTION_XML_ALLIST_54988HW.xm"         07369270320191       84.64-sort (12:163.168)       22:0 Cooctestily transferred "/EXPORTS/20190327184442_2_FTP_ACTION_XML_ALLIST_54988HW.xm"         07369270320191       84.64-sort (12:163.168)       22:0 Cooctestily transferred "/EXPORTS/20190327184442_2_FTP_ACTION_XML_ALLIST_54988HW.xm"         07369270320191       84.64-sort (12:163.168)       22:0 Cooctestily transferred transferred "/EXPORTS/20190327184442_2_FTP_ACTION_XML_ALLIST_5498HW.xm"         07369270320191       84.64-sort (12:163.168)       22:0 Fear that the top		
0730927030219       1844.55       red (12): 163.155       PASY         0730927020219       184.45       red (12): 163.155       PASY       PASY         0730927020219       184.45       red (12): 163.155       PASY       PASY       PASY         0730927020219       184.45       red (12): 163.155       PASY       <		
07309270932019     184445 - root (122, 163, 165): 5100, 2019032718442, 2, FTP_ACTION_VML_ALLIST_64998HW.xml       073092771021719     184445 - root (122, 163, 165): 5205 Successfully transferred "/EXPORTS/20190327184442, 2, FTP_ACTION_VML_ALLIST_64998HW.xml       073092771021719     184445 - root (122, 163, 165): 5205 Successfully transferred "/EXPORTS/20190327184442, 2, FTP_ACTION_VML_ALLIST_64998HW.xml       073092771021719     184445 - root (122, 163, 165): 2205 Condreted       073092771021719     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       073092771021719     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       073092771021719     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message       07309277020179     184445 - root (122, 163, 165): 220-1620; a condition opt 21, ending velocine message		
0730927032019       184454       red: 12163165       150 Opening data channel for fle uplaad to server of "/EXPORTS/20190327184442_2,FTP_ACTION_XML_ALLIST_6498HHW.sml"         0730927020219       184454       red: 151 163 165 20       221 Socket         0730927020219       184454       red: 151 163 165 20       221 Socket         0730927020219       184454       red: 151 163 165 20       221 Socket         0730927020219       184454       red: 152 163 165 20       221 Socket         0730927020219       184454       red: 152 163 165 20       220 Pease veith Hiss/Healisopricet org         0730927020219       184454       red: 152 163 165 120       220 Pease veith Hiss/Healisopricet org         0730927020219       184454       red: 152 163 165 120 20 Pease veith Hiss/Healisopricet org       1570567702019         0730927020219       184454       red: 152 163 165 120 20 Pease veith Hiss/Healisopricet org       1570567702019         0730927020219       184454       red: 152 163 165 120 Pease veith Hiss/Healisopricet org       1570567702019         07309270219       184454       red: 151 165 120 Pease veith Hiss/Healisopricet org       1570567702019         07309270219       184454       red: 151 165 120 Pease veith Hiss/Healisopricet org       1570567702019         07309270219       184454       red: 151 165 120 Pease veith Hiss/Healisopricet or	(007505)27/03/2019 18:46:45 - root (192.168.1.	.68)> 227 Entering Passive Mode (192,168,1,54,206,32)
0730527020219184455 - not (12:168:168): 225 Successfully transfered "/EXPORTS/20190327184442_2_FTP_ACTION_XML_ALLUST_64998HW xml" 0730527002019184455 - not (12:168:168): 221 Globadys 0730527002019184455 - not (12:168:168): 221 Globadys 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The Sate funk Asse@filealle.project.org) 0730527002019184455 - not (12:168:168): 220 HiteD by The I 0730527002019184455 - not (12:168:168): 220 HiteD by The I 0730527002019184455 - not (12:168:168): 200 Dy Testet D 0730527002019184455 - not (12:168:168): 200 Dy Tester D 0730527002019184455 - not (12:168:168): 200 Dy Testet D 073072702019184455 - not (12:16	(00/505)2//03/2019 18:46:45 - root (192.168.1. (007505)27/03/2019 18:46:45 - root (192.168.1	.68)> STOR 2019032/184642_Z_FTF_ACTION_XML_ALLELST_64998HWXml 68)> ISD Depring data channel for file unlead to server of "/CZPOETS/20190327194642_2_ETP_ACTION_XML_ALLELST_64998HW/vml"
0756527022019 184455 -rod (192168.168): 2021 Goodbye 0756577022019 184455 -rod (192168.168): 220 Goodbye 0756577022019 184455 - rod (192168.168): 220 Goodbye 0756577022019 184455 - rod (192168.168): 220 Goodbye 0756577022019 184455 - rod (192168.168): 220 Facet with this::/fields.orgect.org/ 0756577022019 184455 - rod (192168.168): 220 Facet with this::/fields.orgect.org/ 0756577022019 184455 - rod (192168.168): 200 Facet rod 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577022019 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 0756577020219 184455 - rod (192168.168): 200 Type set to 1 075777020219 184455 - rod (192168.168): 200 Type set to 1 075777702019 184455 - rod (192168.168): 200 Type set to 1 075777702019 184455 - rod (192168.168): 200 Type set to 1 075777702019 184455 - rod (192168.168): 200 Type set to 1 075777702019 184455 - rod (192168.168): 200 Type set to 1 075777702019 184455 -		
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075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZOPRead Server 0.56 Deta         075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZZPWItten by Tim Kosse@fiteallexpricet.org)         075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZZPWItten by Tim Kosse@fiteallexpricet.org)         075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZZPWItten by Tim Kosse@fiteallexpricet.org)         075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl boged In (192: 168.1.68): ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZZP Head Kittps://fiteallexpricet.org)         075062702/2019 1184-64 - Incl fite3: 168.1.580: TSP Density dista channel for fite upload to server of / ZPPORTS Z01302718464.2_2 FTP_ACTION_XML_ALLIST_6499BHW xml         075062702/2019 1184-64 - Incl fite3: 168.1.580: TSP Density dista channel for fite upload to server of / ZPPORTS Z01302718464.2_2 FTP_ACTION_XML_ALLIST_6499BHW xml         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZCP Constitut Intermed / ZPPORTS Z013032718464.2_2 FTP_ACTION_XML_ALLIST_6499BHW xml         075062702/2019 1184-64 - Incl fite3: 168.1.580: ZCP Constitut Inspressed	(00/505)2//03/2019 18:46:45 - root (192.168.1. (007505)27/02/2019 19:46:45 - root (192.169.1	68)> 221 Goodbye
073062702/02101184454 - Ind logged In (192:168:168) 220/Without Thin Kosse (Hite alla project.org) 073062702/02101184454 - Ind logged In (192:168:168) 220/Without Thin Kosse (Hite alla project.org) 073062702/02101184454 - Ind logged In (192:168:168) 200/Without Second Environment of the second Environme		
0750627/03/2019       18.46.45 - fort togged in (192:168.1.68): 22D Please viat Https://ficella.project.org/         0750627/03/2019       18.46.45 - fort togged in (192:168.1.68): 231 Password required for not         0750627/03/2019       18.46.45 - fort togged in (192:168.1.68): 231 Password required for not         0750627/03/2019       18.46.45 - fort togged in (192:168.1.68): 230 Logged on         0750627/03/2019       18.46.45 - fort (192:168.1.68): 230 Logged on         0750627/03/2019       18.46.45 - fort (192:168.1.68): 250 CWD EXPORTS         0750627/03/2019       18.46.45 - fort (192:168.1.68): 250 CWD ExPORTS         0750627/03/2019       18.46.45 - fort (192:168.1.68): 257 Entering Passive Mode (192.168.1.54, 202.20)         0750627/03/2019       18.46.45 - fort (192:168.1.68): STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW xml         0750627/03/2019       18.46.45 - fort (192:168.1.68): STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW xml         0750627/03/2019       18.46.45 - fort (192:168.1.68): C20 Generated on pot 21, sending welcome message         0750627/03/2019       18.46.45 - fort (192:168.1.68): C20 Generated on pot 21, sending welcome message         07507/03/2019       18.46.45 - fort (192:168.1.68): C20 FileZla Server 0.3 60 beta         07507/03/2019       18.46.45 - fort (192:168.1.68): C20 FileZla Server 0.3 60 beta         07507/03/2019       18.46.45 - fort (192:168.1.68): C20 FileZla Server 0.1 (192:168.1.68): C20 FileZla Server 0.1 (192	(007506)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> 220-FileZilla Server 0.9.60 beta
07506/27/03/2019 18:4645 - forct togged in (192:168:1.560) 331 Password required for roat         07506/27/03/2019 18:4645 - forct togged in (192:168:1.560) 321 Password required for roat         07506/27/03/2019 18:4645 - forct togged in (192:168:1.560) 321 Password required for roat         07506/27/03/2019 18:4645 - forct 192:168:168) PCVUD EXPORTS' is current directory.         07506/27/03/2019 18:4645 - forct 192:168:168) PCVUP successful. //EXPORTS' is current directory.         07506/27/03/2019 18:4645 - forct 192:168:168) PCVUP successful. //EXPORTS/201903/2718/4642_2 FTF_ACTION_XML_ALLIST_6499BHW xml         07506/27/03/2019 18:4645 - forct 192:168:168) PCVUP         07506/27/03/2019 18:4645 - forct 192:168:168) PCUP R01903/2718/4642_2 PTF_ACTION_XML_ALLIST_6499BHW xml*         07506/27/03/2019 18:4645 - forct 192:168:168) PCUP         07507/27/03/2019 18:4645 - forct 192:168:168) PCUP      <		
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07306/27/03/2019       184.645 - root (192:168.168): 200 Dpx Sonrts         07306/27/03/2019       184.645 - root (192:168.168): 250 CVD Buccessful. "/EXPORTS" is current directory.         07306/27/03/2019       184.645 - root (192:168.168): 250 CVD Buccessful. "/EXPORTS" is current directory.         07306/27/03/2019       184.645 - root (192:168.168): 250 CVD Buccessful. "/EXPORTS" is current directory.         07306/27/03/2019       184.645 - root (192:168.168): 271 Entering Passive Mode (192:168.154,202.30)         07306/27/03/2019       184.645 - root (192:168.168): D10 CPUINg data channel for file upload to server of "/EXPORTS/201903/27184642.2, FTP_ACTION_XML_ALLIST_6499BHW xml"         07306/27/03/2019       184.645 - root (192:168.168): D10 CPUINg data channel for file upload to server of "/EXPORTS/201903/27184642.2, FTP_ACTION_XML_ALLIST_6499BHW xml"         07306/27/03/2019       184.645 - root (192:168.168): D10 CPUINg data channel for file upload to server of "/EXPORTS/201903/27184642.2, FTP_ACTION_XML_ALLIST_6499BHW xml"         07306/27/03/2019       184.645 - root (192:168.168): D10 CPUINg data channel for file upload to server of "/EXPORTS/201903/27184642.2, FTP_ACTION_XML_ALLIST_6499BHW xml"         07306/27/03/2019       184.645 - root (192:168.168): D10 CPUINg data channel for file upload to server of "/EXPORTS/201903/27184642.2, FTP_ACTION_XML_ALLIST_6499BHW xml"         07307/03/2019       184.645 - root (192:168.168): D20 Entering the server of the core option option (192:168.168): D20 Entering the server of the core option option (192:168.168): D20 Entering the server of the core option (192:168.168): D2	(007506)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> 331 Password required for root
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07506[27/03/2019 18:46 45 - rock (192:168:1.68)> CUIT 07506[27/03/2019 18:46 45 - rock (192:168:1.68)> CUIT 07506[27/03/2019 18:46 45 - rock (192:168:1.68)> CUIT 07507[27/03/2019 18:46 45 - rock (192:168:1.68)> Connected on pot 21, sending welcome message 07507[27/03/2019 18:46 45 - rock (192:168:1.68)> 220-Witten by Tim Kosse (file zilla sproject.org) 07507[27/03/2019 18:46 45 - rock logged in (192:168:1.58)> 220-Witten by Tim Kosse (file zilla sproject.org) 07507[27/03/2019 18:46 45 - rock logged in (192:168:1.58)> 220-Witten by Tim Kosse (file zilla sproject.org) 07507[27/03/2019 18:46 45 - rock logged in (192:168:1.58)> 220-Witten by Tim Kosse (file zilla sproject.org) 07507[27/03/2019 18:46 45 - rock logged in (192:168:1.58)> 220 Please visit https://filezilla-project.org/ 07507[27/03/2019 18:46 45 - rock logged in (192:168:1.58)> 310 Password required for root 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Logged on 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Logged on 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 207 Tretienting Passive Mode (192.168:1.54,199.209) 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 200 Type set to 1 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 201 Tretienting data channel for le upload to server of "LEXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 201 Freeing data channel for le upload to server of "LEXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507[27/03/2019 18:46 45 - rock (192:168:1.58)> 201 Freeing data channel for le upload to server of "LEXPORTS/201	(007506)27/03/2019 18:46:45 - root (192.168.1.	68) STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW xml
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07506[27/03/2019] 18:46:45 - root (192:168:1.68)> class) Connected on port 21. sending welcome message       075072703/2019         075072703/2019] 18:46:45 - inot logged in (192:168:1.68)> 220-FileZilla Server 0.9.60 beta       075072703/2019         075072703/2019] 18:46:45 - inot logged in (192:168:1.68)> 220-FileZilla Server 0.9.60 beta       075072703/2019         075072703/2019] 18:46:45 - inot logged in (192:168:1.68)> 220 FileZilla Server 0.9.60 beta       075072703/2019         075072703/2019] 18:46:45 - inot logged in (192:168:1.68)> 231 Password required for root       075072703/2019         075072703/2019] 18:46:45 - inot (192:168:168)> 231 Password required for root       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 250 CWD Successful. "/EXPORTS" is current directory.       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 227 Entering Passive Mode (192:168:1.54, 199:209)       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 227 Entering Passive Mode (192:168:1.54, 199:209)       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 227 Entering Passive Mode (192:168:1.54, 199:209)       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 220 Possive Mode (192:168:1.54, 199:209)       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> 221 Condupy       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)> QUIT       075072703/2019         075072703/2019] 18:46:45 - root (192:168:168)>		
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07507/27/03/2019 18:46:45 - inot logged in) (192.168.1.68) > 331 Password required for root 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 230 Logged on 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 230 CUD EXPORTS 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 250 CWD EXPORTS 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 250 CWD ExPORTS'' is current directory. 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 250 CWD Exports'' is current directory. 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > TYPE I 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > PASV 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > ASV 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 202 Tentering Passive Mode (192.168.1.54.199.209) 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 500 Poining data channel for file upload to server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > 221 Goodbye 07507/27/03/2019 18:46:45 - inot (192.168.1.68) > Connected on port 21, sending welcome message D / Account IP Transfer Progress Speed		
07507/27/03/2019       18:46:45 - not logged in) (192.168.1.68)> 230 Logged on         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 200 DEXPORTS         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 200 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 200 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 200 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 202 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 202 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 202 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 202 Type set to 1         07507/27/03/2019       18:46:45 - not (192.168.1.68)> 202 Tentering Passive Mode (192.168.1.54.199.209)         07507/27/03/2019       18:46:45 - not (192.168.1.68)> Z27 Entering Passive Mode (192.168.1.54.199.209)         07507/27/03/2019       18:46:45 - not (192.168.1.68)> Z20 Encoessfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml"         07507/27/03/2019       18:46:45 - not (192.168.1.68)> Z26 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml"         07507/27/03/2019       18:46:45 - not (192.168.1.68)> C26 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml"         07507/27/03/2019       18:46:45 - not (192.168.1.68)> C26 Successfully transferred "/EXPORTS/20190327184642_2	(007507)27/03/2019 18:46:45 - (not logged in) (	192,168,1,68)> 331 Password required for root
07507/27/03/2019 18:46:45 - root (192.168.1.68) > 250 CWD successful. "/EXPORTS" is current directory. 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 200 Type set to 1 07507/27/03/2019 18:46:45 - root (192.168.1.68) > PASV 07507/27/03/2019 18:46:45 - root (192.168.1.68) > PASV 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 227 Entering Passive Mode (192.168.1.54.199.209) 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 500 Poing data channel for file upload to server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml 07507/27/03/2019 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" 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 226 Successfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 21G Souccessfully transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507/27/03/2019 18:46:45 - root (192.168.1.68) > 21G Soudoye 07507/27/03/2019 18:46:46 - (not logged in) (192.168.1.68) > Connected on port 21, sending welcome message D / Account IP Transfer Progress Speed	(007507)27/03/2019 18:46:45 - (not logged in) (	192.168.1.68)> PASS
07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z00 Type set to 1 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z00 Type set to 1 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z07 Entering Passive Mode (192.168.1,54,199.209) 07507/27/03/2019 18:46:45 - root (192.168.1.68)> STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml 07507/27/03/2019 18:46:45 - root (192.168.1.68)> STOR 20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z05 Luccessfull transferred "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml" 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z01 Goodbye 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Z21 Goodbye 07507/27/03/2019 18:46:45 - root (192.168.1.68)> Connected. 07508/27/03/2019 18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message D / Account IP Transfer Progress Speed	(007507)27/03/2019 18:46:45 - root (192.168.1. (007507)27/02/2019 19:46:45 - root (192.168.1.	68)> 230 Logged on construction construction
07507/27/03/2019       18:46:45 - root (192.168.1.68)> TYPE I         07507/27/03/2019       18:46:45 - root (192.168.1.68)> PASV         07507/27/03/2019       18:46:45 - root (192.168.1.68)> PASV         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOT Entering Passive Mode (192.168.1.54,199.209)         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOT Entering Passive Mode (192.168.1.54,199.209)         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOT Partering Passive Mode (192.168.1.54,199.209)         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOT Partering Passive Mode (192.168.1.54,199.209)         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOT Partering Passive Mode (192.168.1.58)         07507/27/03/2019       18:46:45 - root (192.168.1.68)> QUIT         07507/27/03/2019       18:46:45 - root (192.168.1.68)> QUIT         07507/27/03/2019       18:46:45 - root (192.168.1.68)> ZOI Goodbye         07507/27/03/2019       18:46:45 - root (192.168.1.68)> Connected.         07507/27/03/2019       18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message         D       /       Account       IP       Transfer       Progress       Speed	(007507)27/03/2019 18:46:45 - root (192.168.1.	68) > 250 CWD successful, "/EXPORTS" is current directory.
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07507/27/03/2019         18:46:45 - root (192.168.1.68)> 221 Goodbye           07507/27/03/2019         18:46:45 - root (192.168.1.68)> 221 Goodbye           07507/27/03/2019         18:46:45 - root (192.168.1.68)> 201 Goodbye           07507/27/03/2019         18:46:45 - root (192.168.1.68)> 201 Goodbye           07507/27/03/2019         18:46:45 - root (192.168.1.68)> Connected           07508/27/03/2019         18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message           D         /         Account         IP         Transfer         Progress         Speed	(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" 69)> 206 Supconstructurent for different and a server of "/EXPORTS/20190327184642_2_FTP_ACTION_XML_ALLLIST_6499BHW.xml"
07507/27/03/2019 18:46:45 - root (192.168.1.68)> 221 Goodbye 07507/27/03/2019 18:46:45 - root (192.168.1.68)> connected. 07508/27/03/2019 18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message D / Account IP Transfer Progress Speed	(007507)27/03/2019 18:46:45 - root (192.168.1.	.oo)> 220 Subcessiumy itanisiened / EAFOR 15/2019032/104042_2_FTF_ACTION_AMIL_ALLEIS1_04336HW XIIII 68)> QUIT
07508)27/03/2019 18:46:46 - (not logged in) (192.168.1.68)> Connected on port 21, sending welcome message D / Account IP Transfer Progress Speed	(007507)27/03/2019 18:46:45 - root (192.168.1.	68)> 221 Goodbye
D / Account IP Transfer Progress Speed	(007507)27/03/2019 18:46:45 - root (192.168.1.	68)> disconnected. 192 169 1 69\> Connected on port 21 centing welcome meanage
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## 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.