

OperationsCommander - <https://opscom.wiki>

ANPR Setup Checklist -Tattile

Initial Setup

W	W	P
ir	ir	o
e	e	r
d	l	t
	e	
	s	
	s	

1	S	1
9	S	0
2	I	8
.	D	0
1	:	o
6	A	r
8	n	8
.	p	0
0	r-	8
.	#	1
2	#	
1	#	
2	#	
5	#	
5	#	
.	1	
2	9	
5	2	
5	.	
.	1	
0	6	
.	8	
0	.	
	1	
	5	
	0	
	.	
	1	

Initial Access to the Camera

<https://www.youtube.com/embed/rZHMVAMb7yk?wmode=opaque>

Yet another setup trick is to login to the device initially using WIFI.

The device will need to be plugged into a network hub that is connected to a DHCP server

- change the wired IP to Obtain Automatically
 - later in the process we do this anyways
- device will reboot
- reconnect using WIFI and record the wired IP that was assigned to the device
 - generally a device will be assigned the same IP each time it boots
 - you should now be able to connect to the listed wired IP
 - disconnect your wifi connection

This is useful since often your computer will become confused about where to send packets. Using the wifi connection is good for configuration, but accessing other online resources may be problematic with the second connection. Once the wifi is disconnected all configuration can be performed through the wired IP.

Connecting to PL8RDR from tablet or camera

```
WIFI: pl8rdr.opscom / T0maha3k [10.42.0.1]
```

System - Network Settings

Changes on this panel will reboot the device.

This work is usually done by OPSCOM support.

Details are here to help those clients that are doing initial configuration themselves.

* Suggested that WIFI settings be changed last unless you have a local DHCP server setup.

During setup the device reboots several times, any changes to WIFI settings may make it more difficult to connect to complete configuration.

- * connect wireless and setup wired connection first, then connection may be easier
 - device reboots numerous times during setup
 - DHCP server software: <http://www.dhcpserver.de> - [dhcpsrv2.5.2.zip](#) (extract to C:)
 - setup computer with LAN 192.168.8.1 and use that for IP assignment
 - camera will connect to computer to obtain IP address

- Hostname: Mobile-R | Mobile-L (that way we know which is the Right / Left camera)



ANPR MOBILE SYSTEM Advance

Network Settings

Plate Reader

System

NetBiosName

Hostname

Wi-Fi

Status

Obtain IP address automatically

IP Address

Netmask

Gateway

SSID

Passphrase

Mode

Channel

Ethernet

Obtain IP address automatically

IP Address

Netmask

Gateway

1
connect to factory SSID first and enable wired connection.
once able to connect wired, setup the WIFI to use pl8rdr.opscom

2
use DHCP server for direct wired connection to laptop once wired settings are supplied
<http://www.dhcpserver.de>

for mobiles use a prefix of "-R" or "-L" to signify right and left
R = driver side
L = passenger side

System - Time Sync

Changes on this panel will reboot the device.

- not terribly important as the PL8RDR records the time of the event not the values sent by the camera
- Time Server (use your own or one of these)
 - 0.us.pool.ntp.org
 - 1.us.pool.ntp.org
 - 2.us.pool.ntp.org
 - 3.us.pool.ntp.org

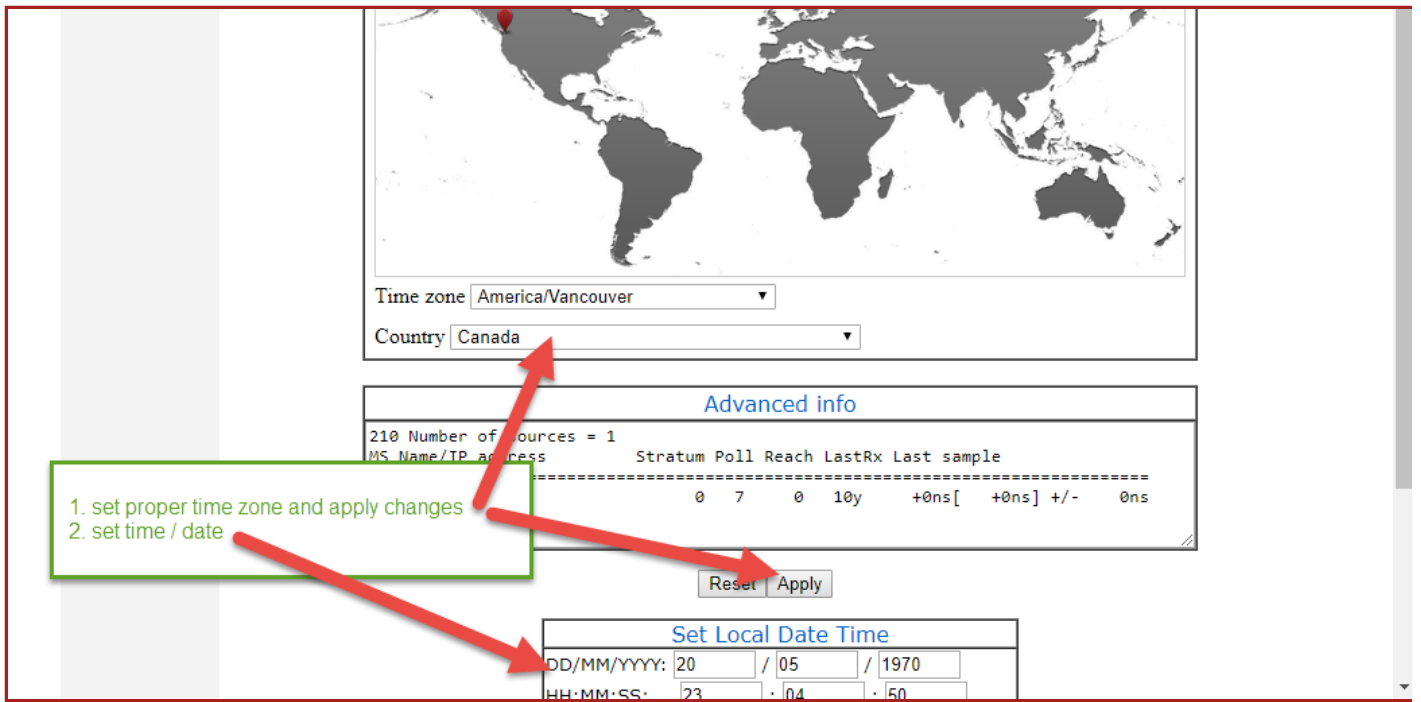


Plate Reader - General Settings

- should always be the **CLIENT_ID** (no spaces)

- eg. OC_TOMA

NOTE: This graphic shows an old implementation. The text in this sample should be only: OC_LIONS

General Settings

Plate Reader

System

Basic settings

Enable Engine YES ▾

Acquisition mode FREE_RUN ▾

Site Address lions

Advanced settings

Warning: system functionality may be affected if parameters below are changed

Multi-thread action execution NO ▾

TCP timeout (ms) 10000

Gateway Interface Auto ▾

Skip check if oldest then 5

Reset Apply

Site address should match client sub-domain plus client ID (colon delimited)

lions:OC_LIONS

On mobile client ID is not required, but for standardization it should be included.

Plate Reader - Plate Reader

Changes on this panel will reboot the device.

- create a buffer around the capture area
- the listed settings are factory defaults (except Locator) and should work with minimal issues
- for mobile bounding region should be set to a lower area since plates will rarely be at the top of the image
 - leave a gutter around the bounding area of at least 30 pixels



ANPR MOBILE SYSTEM Advance

Plate Reader Settings

Plate Reader

System

Plate Locator		Char Size Pixel		Plate Format	
Win MinX Pixel	<input type="text" value="50"/>	Min Width	<input type="text" value="8"/>	Max Jolly Chars	<input type="text" value="0"/>
Win MinY Pixel	<input type="text" value="250"/>	Max Width	<input type="text" value="40"/>	Plate With Separator	<input type="text" value="NO"/>
Win MaxX Pixel	<input type="text" value="1229"/>	Min Height	<input type="text" value="15"/>	Enable UTF8 Encode(*)	<input type="text" value="NO"/>
Win MaxY Pixel	<input type="text" value="1000"/>	Max Height	<input type="text" value="60"/>	(*) : Plate string encoded with UTF8 for image and DB saving (À, ¸, →)	
Sensitivity	<input type="text" value="NORMAL"/>				

Add a buffer around the capture area.

Also note that top of the scan window is 250 pixels since most plates are lower in the frame.

This can be update but should always have a buffer.

On the context screen we can preview the bounding region.



Temporal Integration

Max Time Transit ms(*)	<input type="text" value="500"/>
Min Time Same Plate ms(*)	<input type="text" value="2000"/>
Max Plates in Image [1-4]	<input type="text" value="1"/>
Image Selection Mode	<input type="text" value="BEST LUMINANCE"/>
Plate Multi Out Same Plate(*)	<input type="text" value="0"/>
Num Plate Read [1-3](*)	<input type="text" value="2"/>
Min Num Read To(*)	<input type="text" value="READ_NOTREAD"/>
Plate Score for Num Read=1 [50-100](*)	<input type="text" value="65"/>
Num string distance [0-5]	<input type="text" value="2"/>

for the most part, standard default options are fine.

Used in Free Run Mode Only

Advanced Features

Advanced Settings

Plate Reader - Events Actions

- (Mobile) there are 4 options; 2 for wired and 2 for wireless
 - 1 each are READ results; 1 each are NO_READ results (vanity plates)
- %SITE_ADDRESS is not important for Mobile but listed here for standardization

Events/Actions Settings

Plate Reader

System

Actions / Events	Send Image FTP	Save DB FTP	TCP Message	Send Image FTP 2	Save DB FTP 2	TCP Message 2	SD Saving	Save DB SD
Ocr Read								
Ocr Not Read								
Ocr No								
List B								
No Match On List B								
System Alarm								

TCP Message = 192.168.8.1 wired
 TCP Message 2 = 10.42.0.1 wifi

This allows the camera to connect wired or through wifi to distribute image data.

Shared configuration

Add %SITE_ADDRESS to JPEG header

Other custom TAGS: %SITE_ADDRESS%FIRMWARE_VER%NETBI
 BOARD_CODE%BOARD_REV%BOOT_VER%DA
 ORE%JPEG_QUALITY%GAIN%SHUTTER%ST
 I LEVEL%OCR_CFG%PLATE_MIN_X%PLAT

JPEG header configuration Config

Event/Action monitor Config

SSL configuration Config

www.tattile.com

During configuration set **wired TCP Message** connection as **Enable=No**

Cameras leaving Tomahawk's office will be setup to use wireless only.

Configuring wired settings can help with troubleshooting in the future.

Events - Specific

- 2 x **READ** - wired (192.168.8.1) & wireless (10.42.0.1)
 - %PLATE_STRING%IMAGE_BW%IMAGE_COL%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
 - Server IP: 192.168.8.1 Server Port: 32000

%IMAGE_BW sends the thumbnail image (*required*)

%IMAGE_COL sends the context image (*not required*)

Plate Reader
System

Enable: YES
Message format: STANDARD
Message: %PLATE_STRING%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
Image Encryption: NO
Jpeg Quality: 75
Crop Image(*): DISABLED
Context Jpeg Quality: 75
Text Position: TOP_LEFT
Text Options: NONE
Text Value: %PLATE%DATE%TIME
Server IP: 192.168.8.1
Server Port: 32000
Reuse Connection: NO
Buffering on SD: NO

Wired connections send data to PL8RDR on the 192.168.8.1 address
WiFi connections send data to PL8RDR on 10.42.0.1 address.
So this is:
Event -> TCP Message

Enable: YES
Message format: STANDARD
Message: %PLATE_STRING%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
Image Encryption: NO
Jpeg Quality: 75
Crop Image(*): DISABLED
Context Jpeg Quality: 75
Text Position: TOP_LEFT
Text Options: NONE
Text Value: %PLATE%DATE%TIME
Server IP: 10.42.0.1
Server Port: 32000
Reuse Connection: NO
Buffering on SD: NO

TCP Message 2
sames as this one but with WIFI IP

- 2 x **NO_READ** - wired (192.168.8.1) & wireless (10.42.0.1)
 - %PLATE_NOT_READ%IMAGE_BW%IMAGE_COL%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
 - Server IP: 10.42.0.1 Server Port: 32000

Plate Reader
System

Enable: YES
Message format: STANDARD
Message: %PLATE_NOT_READ%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
Image Encryption: NO
Jpeg Quality: 75
Crop Image(*): DISABLED
Context Jpeg Quality: 75
Text Position: TOP_LEFT
Text Options: NONE
Text Value: %PLATE%DATE%TIME
Server IP: 192.168.8.1
Server Port: 32000
Reuse Connection: NO
Buffering on SD: NO

Almost exactly the same as TCP Message READ
Only difference is the Message
Same IP designations

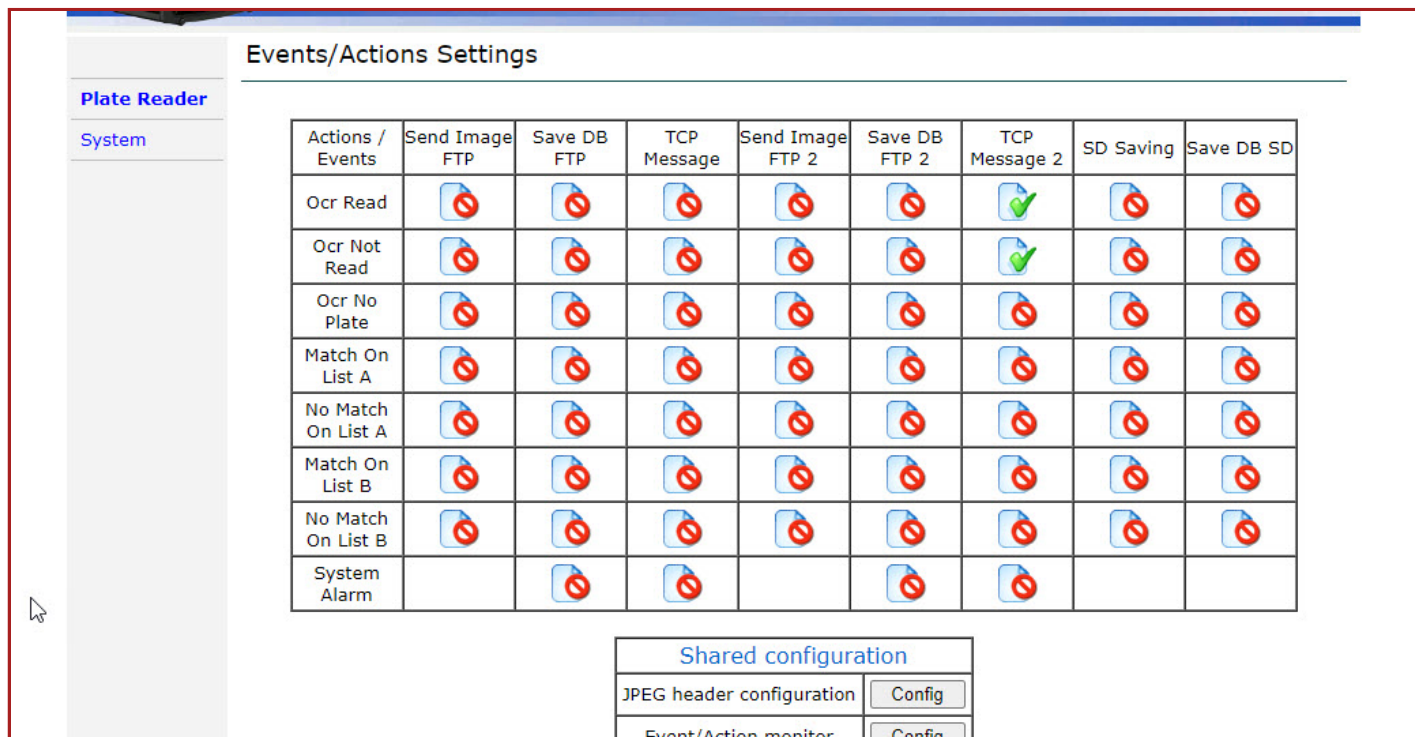
Enable: YES
Message format: STANDARD
Message: %PLATE_NOT_READ%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y
Image Encryption: NO
Jpeg Quality: 75
Crop Image(*): DISABLED
Context Jpeg Quality: 75
Text Position: TOP_LEFT
Text Options: NONE
Text Value: %PLATE%DATE%TIME
Server IP: 10.42.0.1
Server Port: 32000
Reuse Connection: NO
Buffering on SD: NO

10.42.0.1 on second NOT_READ

Wireless Only with Wired Disabled

The final screen should look as shown below. "TCP Message" is setup (disabled) for 192.168.8.1 and "TCP Message 2" is setup (enabled) for 10.42.0.1

We are shipping cameras with wireless configured and wired ready to be enabled if needed; *as of spring 2020*



The screenshot displays the 'Events/Actions Settings' configuration page. On the left, a sidebar shows 'Plate Reader' and 'System' options. The main area contains a table with the following columns: 'Actions / Events', 'Send Image FTP', 'Save DB FTP', 'TCP Message', 'Send Image FTP 2', 'Save DB FTP 2', 'TCP Message 2', 'SD Saving', and 'Save DB SD'. The 'Ocr Read' and 'Ocr Not Read' rows have green checkmarks in the 'TCP Message 2' column, indicating they are enabled. All other cells in the table contain a red 'X' icon, indicating they are disabled. Below the table, there is a 'Shared configuration' section with 'JPEG header configuration' and 'Event/Action monitor' rows, each with a 'Config' button.

Actions / Events	Send Image FTP	Save DB FTP	TCP Message	Send Image FTP 2	Save DB FTP 2	TCP Message 2	SD Saving	Save DB SD
Ocr Read								
Ocr Not Read								
Ocr No Plate								
Match On List A								
No Match On List A								
Match On List B								
No Match On List B								
System Alarm								

Shared configuration

JPEG header configuration	Config
Event/Action monitor	Config

Camera Context

- likely not necessary to make changes in this area
 - adjust; iris, gain, shutter

Sample Device Info

Organizat
ion name

VERSION
Firmware
version

=

ANPR
Mobile
Ver.3.12.
19 CAN-ON
Dec 20

2019

13:41:34

OCR lib

version

=

Tattile
Plate
Reader
Ver.3.156

.000

Traffic
Interface

lib =

1.112

TOS

version

=

4.34.73

TatExt

OCR

lib

=

TatExt

2.8

TatExt

OCR

2.13.16 -

Pr 2.1 -

Lib

6.0.29805

- May 7

2020

BOOTLOADE

R

Plate Reading Quick Test

You should now be able to go to **Plate Reader - Text Result** and hold a plate in front of the camera to confirm operation.

Further testing is suggested with a PL8RDR system.

Take Command of Your Parking and Security - <https://OperationsCommander.com>

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