

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

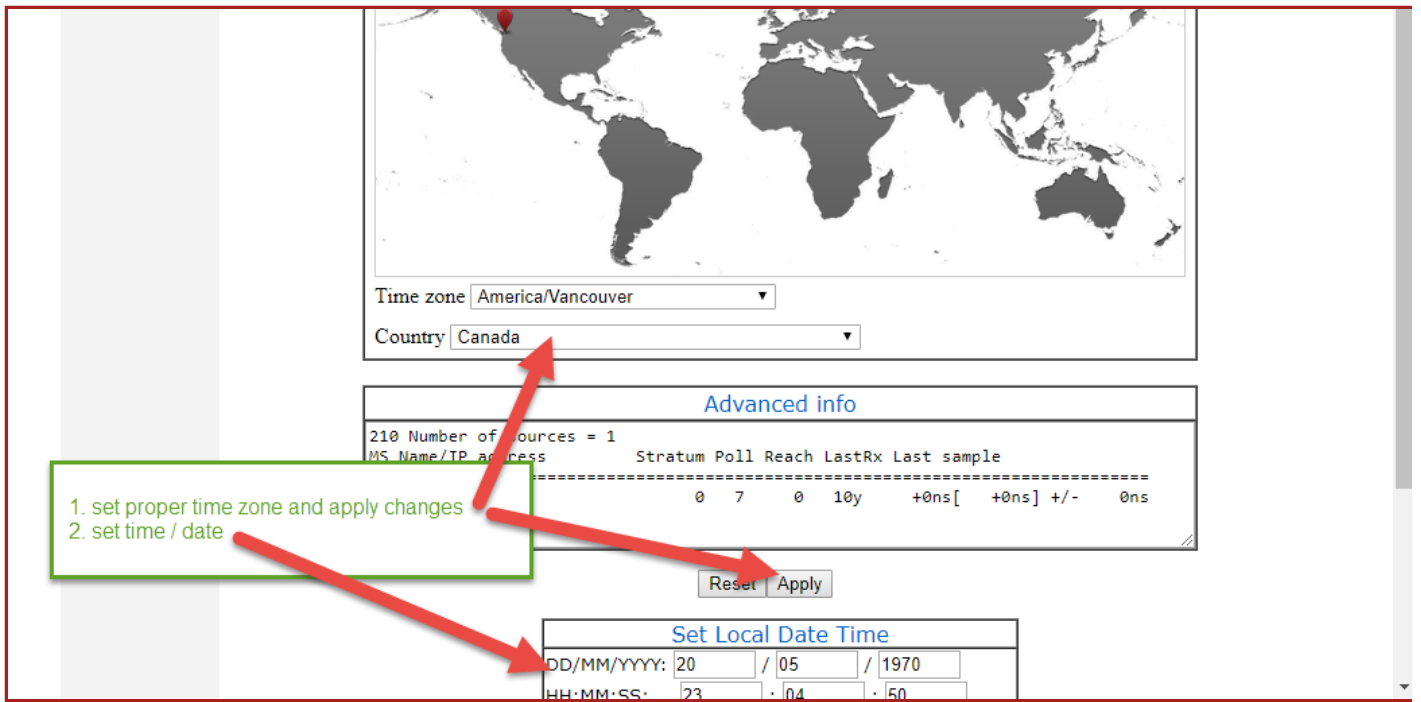


Plate Reader - General Settings

- 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

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.



for the most part, standard default options are fine.

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"/>
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*)

The screenshot shows the configuration for 'TCP Message on Ocr Read'. The 'Message' field contains the format string: `%PLATE_STRING%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y`. A red arrow points from this field to a green box containing the same string. The 'Server IP' is set to 192.168.8.1 and the 'Server Port' is 32000. A second configuration window, 'TCP Message 2', is shown to the right, which is identical but has the 'Server IP' set to 10.42.0.1. A red arrow points from the 'Message' field of the first window to the 'Message' field of the second window. A green box next to it says 'same as this one but with WIFI IP'. On the left, a green box explains that wired connections use 192.168.8.1 and WiFi connections use 10.42.0.1, and that the event is a TCP Message.

- 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

The screenshot shows the configuration for 'TCP Message on Ocr Not Read'. The 'Message' field contains the format string: `%PLATE_NOT_READ%IMAGE_COL%IMAGE_BW%PLATE_MIN_X%PLATE_MIN_Y%PLATE_MAX_X%PLATE_MAX_Y`. A red arrow points from this field to a green box containing the same string. The 'Server IP' is set to 192.168.8.1 and the 'Server Port' is 32000. A green box next to the 'Server Port' field says '10.42.0.1 on second NOT_READ'. On the left, a green box explains that this is almost exactly the same as the 'TCP Message READ' configuration, with the only difference being the message string and the IP designations.

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' interface. On the left, a sidebar shows 'Plate Reader' and 'System'. 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, while all other rows have red 'no' icons. Below the table is a 'Shared configuration' section with 'Config' buttons for 'JPEG header configuration' and 'Event/Action monitor'.

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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