



# Violation Management System

April 2024



- VMS is Truvelo's cloud-based / on-premise solution for offence processing
- VMS can be deployed in the cloud globally
- VMS is “camera agnostic” – meaning it will work with offence output from any camera type
  - 4D Radar speed / red light camera
  - ANPR
    - Bus lane
    - Box junctions
    - Banned turns
  - Photo / video LIDAR speedmeters
  - Seatbelt / mobile phones / distracted driving
  - Acoustic Camera System



ANPR with edge-based Artificial Intelligence for

- Bus Lane
- Box Junctions
- Banned Turns
- Clean air zone



Acoustic Camera



Speed  
Seatbelt  
Mobile Phone  
Clean air-zone



ANPR for motorcycle  
ID with LASERcam 4  
and D-CAM)



Speed  
Red Light

# VMS Web Interface



## Violation Management System

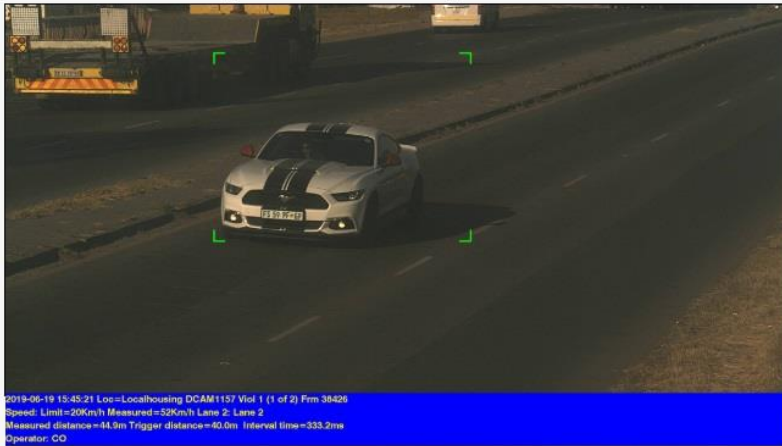
- Introduction
- Administrator
- Adjudicator
- Supervisor
- Observer
- Reporter



Time	File Name	Plate
15:45...	DCAM1157_TBOS102...	
15:45...	DCAM1157_TBOS102...	
15:45...		YRP285GP
15:45...		JB12TMGP
15:45...		J812TM
15:45...		NRP285GP



94% [1022 / 1081]



Date/Time: 19-06-19 15:45:21 Location: 25°57'20.88" S 28°08'19.88" E  
Site: Localhousing Description: Truvelo test site  
Violation: 3551 Reference: DCAM1157\_TBOS1025\_Localhousing\_20190819154521\_109\_38426\_S\_2.jpg  
Satellite: SPDRL Unit: DCAM1157  
Speed: 32.31 mph Limits: 0.00 mph - 12.43 mph

Date/Time: 19-06-19 15:45:21 Location: 25°57'20.88" S 28°08'19.88" E  
Site: Localhousing Description: Truvelo test site  
File Size: 298087 File Name: DCAM1157\_TBOS1025\_Localhousing\_20190819154521\_109\_38426\_S\_2.jpg  
MIME: image/jpeg UUID: 5a8fb0cd-b1e5-4079-b17f-293831732dd

Date/Time: 19-06-19 16:45:15  
Ruling: Accepted  
Adjudicator: davidd  
Supervisor: davidd

Overruled

Confirmed



Glen Austin ↑  
Midrand ↗  
Pretoria

573 GP







Location:Truvelo Lane No.:01 Plate No.:DD23LBGP Red Light On:2017-05-12 17:06:53 Red Light On Duration:041s Violation Type:Running the Red Light Direction:West Capture Time:2017-05-12 17:07:34



Location:Truvelo Lane No.:01 Plate No.:DD23LBGP Red Light On:2017-05-12 17:06:53 Red Light On Duration:049s Violation Type:Running the Red Light Direction:West Capture Time:2017-05-12 17:07:42



Location:Truvelo Lane No.:01 Plate No.:DD23LBGP Red Light On:2017-05-12 17:06:53 Red Light On Duration:050s Violation Type:Running the Red Light Direction:West Capture Time:2017-05-12 17:07:43



Truvelo Lane No.:01 Plate No.:DD23LBGP Red Light On:2017-05-12 17:06:53 Red Light On Duration:041s Violation Type:Running the Red Light Direction:West Capture Time:2017-05-12 17:07:34

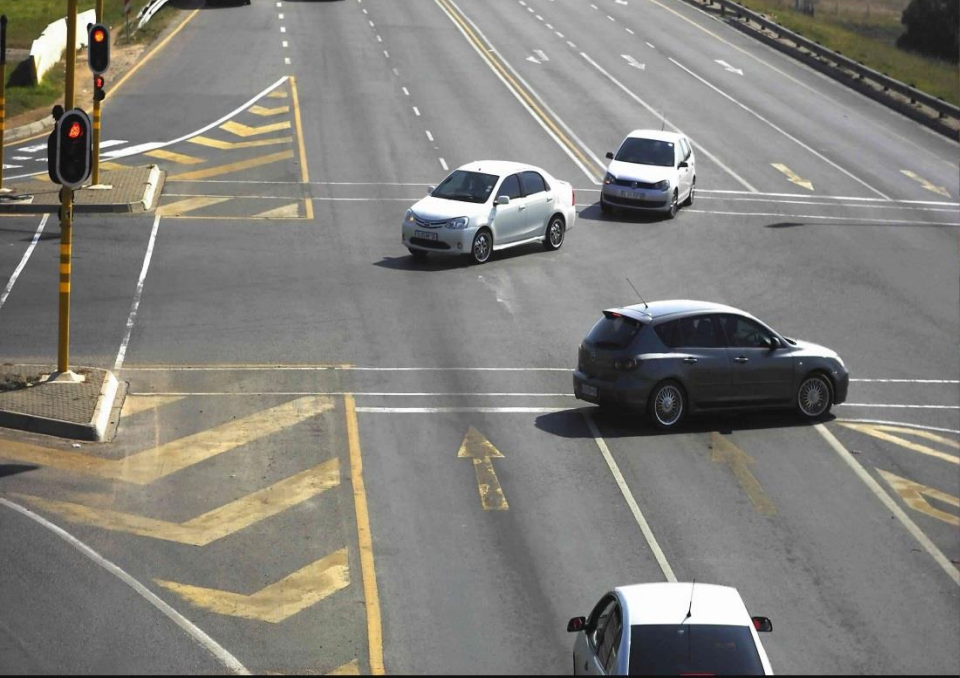




Location:Truvelo Lane No.:01 Plate No.:WLR838GP Red Light On:0000-00-00 00:00:00 Red Light On Duration:000s Violation TYP:IllicSal-Lane-Chan  
e1 Direction:West Capture Time:2017-05-21 13:17:07



Location:Truvelo Lane No.:01 Plate No.:WLR838GP Red Light On:0000-00-00 00:00:00 Red Light On Duration:000s Violation TYP:IllicSal-Lane-Chan  
e2 Direction:West Capture Time:2017-05-21 13:17:08

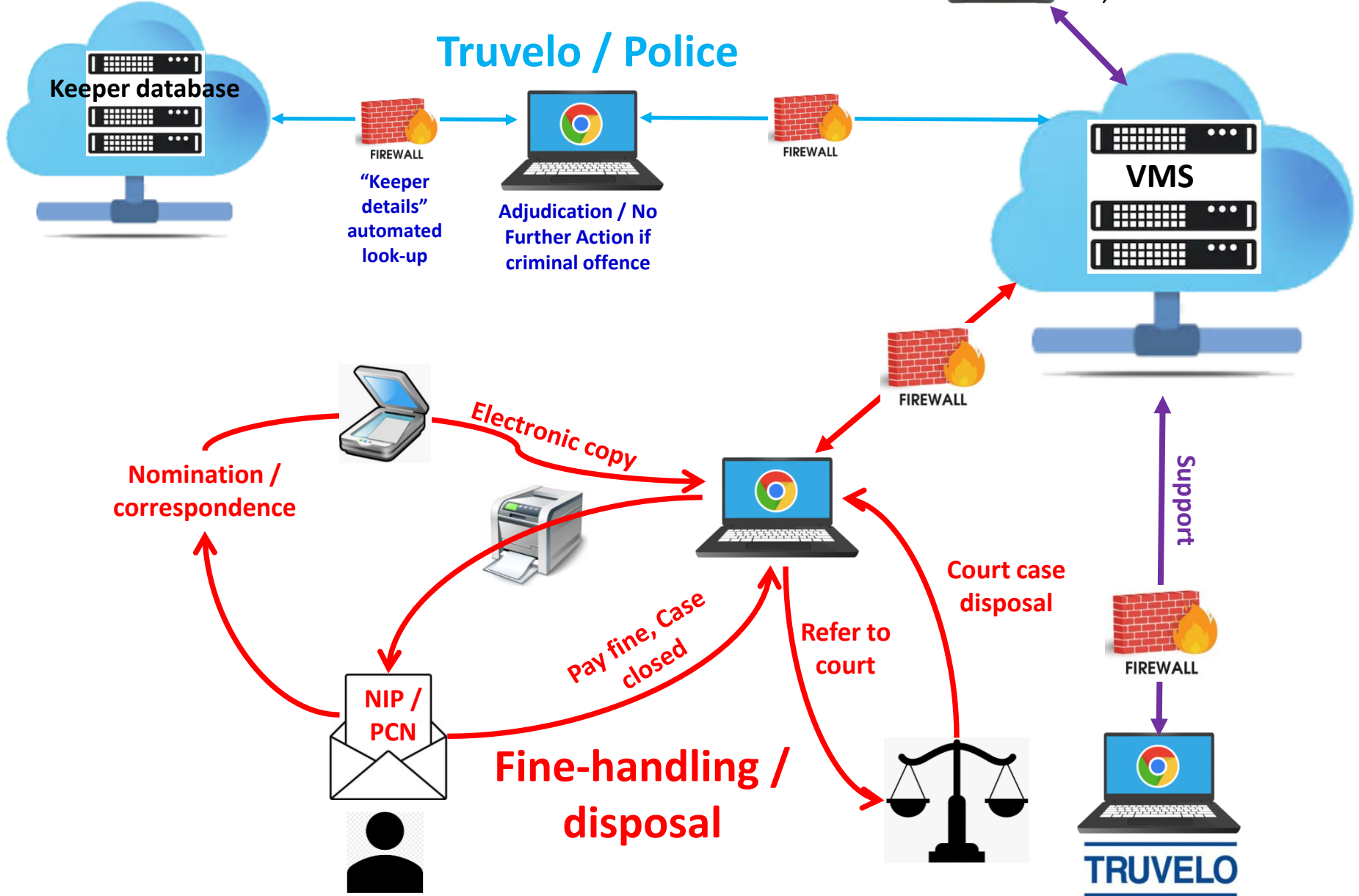


Location:Truvelo Lane No.:01 Plate No.:WLR838GP Red Light On:0000-00-00 00:00:00 Red Light On Duration:000s Violation TYP:IllicSal-Lane-Chan  
e3 Direction:West Capture Time:2017-05-21 13:17:09



Location:Truvelo Lane No.:01 Plate No.:WLR838GP Capture Time:2017-05-21 13:17:07

# Proposed cloud-based solution for fine processing







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