



Integrated e-Challan/ e-Ticket Management Software





INTEGRATED E-CHALLAN/ E-TICKET MANAGEMENT SOFTWARE

Videonetics Integrated e-Challan/ e-Ticket Management Software (ICMS) is an open architecture software that integrates with the Intelligent ITMS application suite. It enables efficient management of e-challans/ e-tickets generated to penalise traffic violations like red light/ stop line jumping, overspeeding, driving without seat belt/ helmet, use of cell phone while driving, triple riding etc. Additionally, it allows the operator to include other violations such as having a broken or non-standard number plate, as and when visually detected during the validation of challans/ tickets. ICMS also integrates with handheld terminal/ PDA for spot challan generation.

Highlights

- National vehicle database (NIC VAHAN) integration
- Ready APIs for integration with regional and international vehicle database
- Automated, semi-automated and spot mode of operation
- Secure web access
- Mobile user authentication and mobile device authorisation for HHT/ PDA
- Challan/ ticket traceability
- Detailed MIS reports and statistics
- Multiple challan/ ticket printing options
- Integrated with payment collection system and third party web portals

The screenshot displays the ICMS web interface. At the top, there's a navigation bar with 'Home', 'Evidence', 'Challan Details', and 'Profile'. The main section is titled 'Search Criteria' and includes filters for date range (May 06, 2018 12:05:06 AM to May 08, 2018 11:59:59 PM), violation type, challan status, data source, vehicle number, and operational zone/traffic point. Below the filters are 'Search' and 'Export' buttons. A summary bar shows 3 Total Challans, 0 Total Paid Challans, and 3 Total Unpaid Challans. The main table lists violations with columns for Violation, Terminal, Challan #, Vehicle #, Operational Zone, Vehicle Owner, Generated Time, Operator, Status, Fine Amount, Paid Amount, Data Source, and Actions. Three records are shown, all with a status of 'Unpaid'.

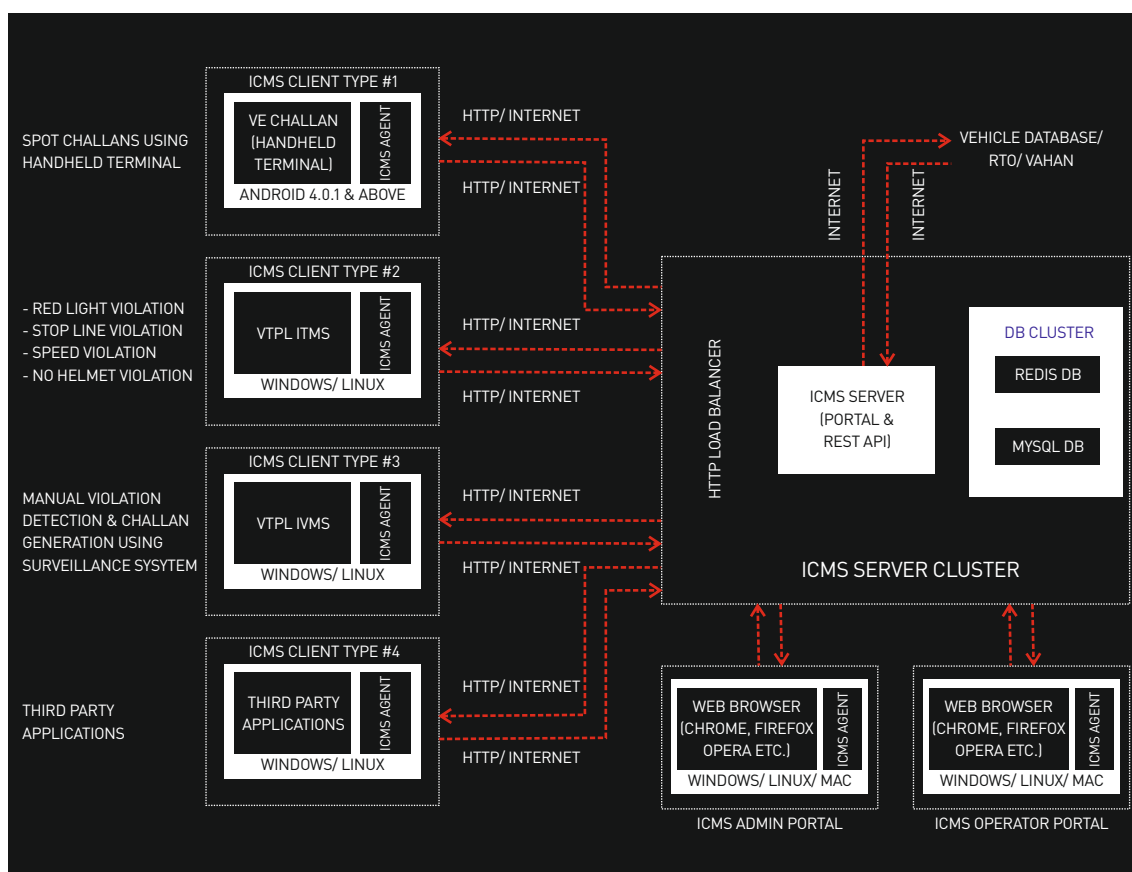
Violation	Terminal	Challan #	Vehicle #	Operational Zone	Vehicle Owner	Generated Time	Operator	Status	Fine Amount	Paid Amount	Data Source	Actions
Red light violation Detection	ITHS_BH0344	IC1509044-8910408May 2018090226 AM	AB01C02245	SecuroOffice2	XERO SHARMA	May 8, 2018 9:32:26 AM	BH0344 SHANTI CITY (Bhopal/IN)	Unpaid	300	0	ITHS Terminal	[Icons]
Red light violation Detection	ITHS_BH0344	IC1509044-893206May 2018090226 AM	XY01Z22345	SecuroOffice2	ABCD SRINASTRA	May 8, 2018 9:35:44 AM	BH0344 SHANTI CITY (Bhopal/IN)	Unpaid	300	0	ITHS Terminal	[Icons]
Red light violation Detection	ITHS_BH0344	IC1509044-893206May 2018090226 AM	AB01Z22345	SecuroOffice2	XYZ SINGH	May 8, 2018 9:35:55 AM	BH0344 SHANTI CITY (Bhopal/IN)	Unpaid	300	0	ITHS Terminal	[Icons]

Different challan/ ticket search criteria



Unified Systems Architecture

The figure below shows overall systems architecture explaining the working of the software. It shows how the unified system takes inputs from handheld devices in the field, Intelligent Traffic Management System, as well as manual inputs from other surveillance systems to generate and manage challans.



■ Features

- Ease of operation
 - Intuitive UI for ease of operation
 - Central web-based interface for administration, user management, challan/ ticket management and payment status management
- Ease of installation
 - Web-based central application which can be easily installed in any web server
 - Android-based mobile app which can be installed in any compatible mobile device – smart phone, handheld device/ PDA
- Vehicle database integration
 - Integrated with NIC VAHAN database
 - Web API based framework available to integrate with local, regional and international vehicle databases
- Scalability
 - Web service based architecture to support receipt of data from different system
 - Client-server architecture is useful for parallel operation of multiple field devices
 - Central software for challan/ ticket management is scalable with IT infrastructure



■ Security/ Cyber security

- All the communication to and from the server is fully secured and protected to eliminate possibility of eavesdropping

■ User management

- Pre-defined user roles like admin, supervisor and operator available
- Role-based device user authentication

■ Challan/ ticket management

- Each challan/ ticket is identified by unique identifier assigned to it when challan/ ticket is generated
- Very large number of challans/ tickets can be uniquely identified and searched
- Authorised users can search the history of offences – by device, location, offender, device user, generation type

■ Challan/ ticket traceability

- Each challan/ ticket is identified by unique identifier for future references
- Challan/ ticket tagged to issuing officer's details
- Challan/ ticket with accurate time stamp
- Challan/ ticket generated using handheld device can be tagged with GPS location to accurately trace the location of offence

ITMS SYSTEM

पुलिस महानगर
उपमहानगर
मोबा - 962008 (म.प्र.)
फोन : 2443850, 267734

नोटिस

सर / मैम,

Video Analytic System से क्लिपिंग पुलिस जलदियार ने पहचान की है कि आप / ड्राइवर द्वारा वाहन नंबर AB01CD2345 को क्लिपिंग दुरु, गलत स्थान / स्थिति / समय पर वाहनवाले के भेजने का उल्लंघन किया गया है जो किन प्रकार से गलत बात अधिनियम 1988 के अनुसार सजाय अर्हक है।

Challan Number	Vehicle Number	Vehicle Class	Date & Time of Detection	Date & Time of Generation
ICMSMPOAM31 BENMAY200855 55AM	AB01CD2345	MCY	May 08, 2018 07:20:02 AM	May 08, 2018 08:55:55 AM

चित्रों का प्रदर्शन :-

1. सड़क का दृश्यमानता 119/177 समान शुल्क 500 रुपये
2. ड्राइवर का दृश्यमानता 129/177 समान शुल्क 250 रुपये
3. सड़क का दृश्यमानता 113(1)/177 समान शुल्क 100 रुपये
4. अपराधिक चित्र में वाहन वाहन 112-183 समान शुल्क 1000 रुपये

कुल शुल्क आप शुल्क 500 रुपये वाहन वाहनवाले जलदियार भेजने से, वाहनवाले शुल्क से 15 दिनों के अन्दर जमा करवाकर, नहीं देकर, जलदियार आप के विरुद्ध अधिनियम अधिनियम अर्हक है।

नाम, XYZ KUMAR SINGH
0123, ABCD LANE,
EFG STREET
मो : 99XXXXXX

वाहन वाहनवाले
वाहन वाहनवाले जलदियार

वाहन :
श्रीर :
वाहनवाले का नाम :
वक्त : 10.30 - वक्त 07.00
Lunch Time : 02.00 - 3.00
वक्त जलदियार

■ Digital signature

- Challans/ tickets are signed digitally by the responsible authority

■ Detailed MIS reports

- Detailed MIS reports available from central location
- Standard reports readily available based on type of offence, location, officer, offender

VIDEONETICS Home Evidence Challan Details Profile

Integrated T. Challan Management Software

Apr 21, 2020 12:00:00 AM

Search Criteria

Challan generation Form (AB01CD234)

Vehicle Type: CAR

Vehicle Colour: A SOLVER

Owner Name: XYZ KUMAR

Owner Address: 012 STREET BLOCK ABCD

City: INDORE

Owner Mobile: 99XXXXXX

Select Violation Type:

Breaching parking rules
To allow Passenger more than permit in not transport vehicles
Breaching traffic signal
Driving in wrong side
Breaching of U turn
Driving dangerously
Driving in one way

Applicable Violation(s)

Driving without Seatbelt

Violation(s) to Charge

VEHICLE DETAILS GENERATE CANCEL

Data Source: All Vehicles

6 Total Records

2 Unpaid Challan

1 Pending Challan

Violation	Challan #	Vehicle #	Operational Zone	Vehicle	File Amount	Paid Amount	Data Source	Actions
Driving without Seatbelt	AB01CD234	AB01CD234	Sai Nagar	XYZ KUMAR	200	200	ITMS Smart City	

- Pictorial evidence
 - Each challan/ ticket is embedded with event images as evidence of the offence in central mode of operation
- Manual challan/ ticket generation
 - Upload images and text to generate challans/ tickets in semi-automated mode

- Web-based data entry for manual challan/ ticket generation
- Control room officers can generate e-challans/ e-tickets for the violations observed in Videonetics IVMS footage. Event image and video clip from Videonetics IVMS is used as evidence

■ Additional features in spot operation using handheld devices

- Device management
 - Device is pre-registered and managed centrally
- Security
 - OTP (one-time password) based user authentication
- Device hot listing
 - Hot listing and black listing of devices by IMEI from central location by authorised personnel
- Spot challan/ ticket
 - Spot challan/ ticket is generated by traffic officer at point of violation

- Offence history
 - For an offender, display of detailed history of previous offences, if any
- Frequent offence detection
 - Displays frequent offence types in handheld devices
- Contextual help
 - Full context-based help is available to the officer for easy operation of the software
- Offline operation
 - Offline session per user is maintained in the handheld device. Once authenticated, the user can continue to work even if connectivity is lost



Making the world
a safer, smarter, happier place.

Videonetics's Unified Video Computing Platform™ helps you make sense of surveillance, by providing you with an end-to-end solution for a wide range of applications. The platform is powered by our Artificial Intelligence and Deep Learning engine, which is trained on humongous data sets, making our solutions incredibly robust and smart. All our products and solutions are integrated yet modular, ONVIF compliant, OS and hardware agnostic, scalable and interoperable.

Videonetics has been ranked #1 Video Management Software provider in India, and among the top 5 in Asia (IHS/Informa Tech Research). We remain driven by innovation, and committed to making the world a safer, smarter, happier place.

Providing an end-to-end solution for a wide range of applications



Intelligent
VMS



AI Enabled
Video Analytics



Facial
Recognition



Intelligent Traffic
Management System



Video Command &
Control Centre



VCPaaS™
Video Computing
Platform as a Service

Technology leader across verticals, in different parts of the world



CITIES &
NATION



AVIATION &
TRANSPORTATION



COMMERCIAL
BUILDINGS



INDUSTRIAL



FINANCIAL
& LEGAL



EDUCATION



CRITICAL
INFRASTRUCTURE



VIDEONETICS TECHNOLOGY PVT LTD
India | Singapore

Corporate Office
Plot No. AI/154/1, Action Area-1A
4th Floor, Utility Building
New Town
Kolkata 700156, India
T: +91 90380 10300

Sales & Marketing Office
1124-1125, 11th Floor
JMD Megapolis, Sector 48
Sohna Road
Gurgaon 122018, India
T: +91 124 4279995

Singapore Representation Office
24, Upper Serangoon View
#05-28
Singapore 534205
T: +65 9836 9496
E: anand.s@videonetics.com

Write to us at
marcom@videonetics.com



W: www.videonetics.com

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