



Integrated e-Challan/ e-Ticket Management Software



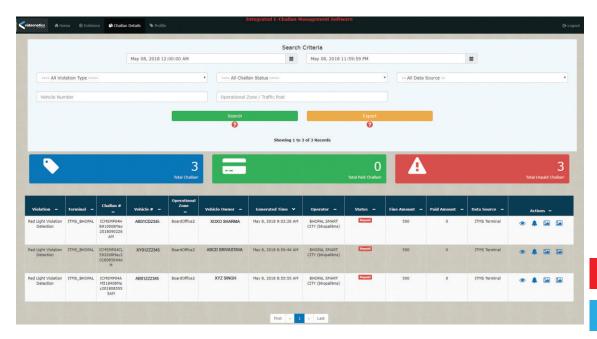


INTEGRATED E-CHALLAN/ E-TICKET MANAGEMENT SOFTWARE

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

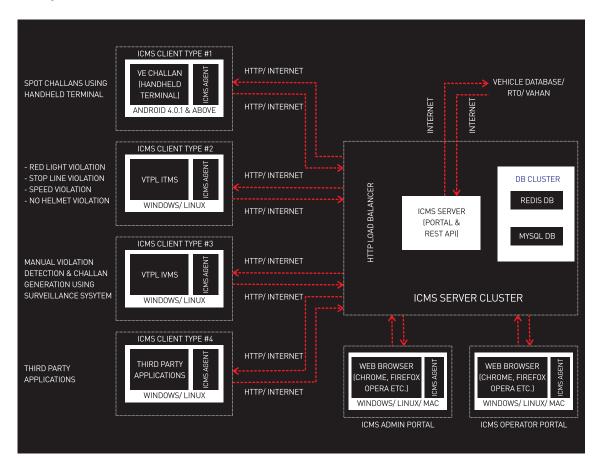


Different challan/ ticket search criteria



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

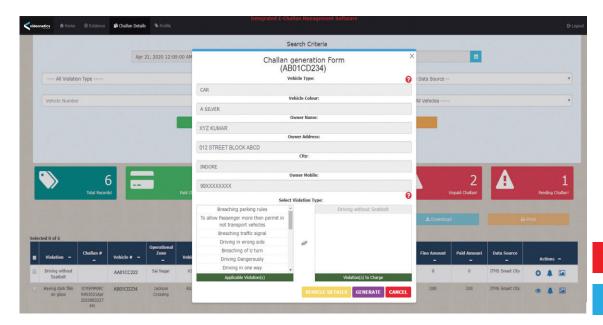
■ Challan/ ticket traceability

- 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



■ 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



- 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



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 (OMDIA Informa Tech 2021). 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











Technology leader across verticals, in different parts of the world









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