

VIGILANTE VDS DATA SERVER

DATA SERVER + ITS MIDDLEWARE



AGILE AND VERSATILE MODULAR SYSTEM FOR VARIOUS END-USER APPLICATIONS

VIGILANTE® Data Server, the intelligent traffic system in a combined data server and middleware, gathers information from different endpoints to make them available for various end-user applications. The operators of VIGILANTE® Data Server can manage the processes through a dedicated graphical interface.

KEY FEATURES

ITS Modules:

- Traffic Violation Module
- Variable Messaging Signage Module
- Access Control Module
- Centralization Module
- Journey Time Measurement Module
- Vehicle Tracking History

Internal Structure

- No data loss due to redundancy through high-availability data replication and with clustered storage software architecture
- Highly efficient image storage
- Dynamic hardware scalability without maximum limits

CONNECTION TO END-USER APPLICATIONS

- Simultaneous end-user applications management with standard interface and SDK

MAIN BENEFITS



VIGILANTE



TOLL
COLLECTION



TRAFFIC
SECURITY
MONITORING



JOURNEY TIME
MEASUREMENT



SPEED
ENFORCEMENT



CONGESTION
CHARGING



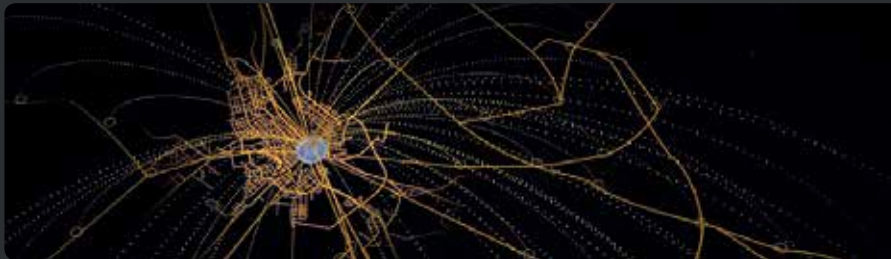
BUS LANE
AND RED LIGHT
ENFORCEMENT

SPECIFICATIONS

VIGILANTE® DATA SERVER

TECHNICAL DATA

Supported operating systems	Windows (64 bit) Linux (64 bit)
Supported Platforms	x86_64 PPC
Minimum system requirements	Project specific; contact ARH for more information
Licensing	Licensing based on CPU cores, core types, users, lanes, and number of devices. Contact ARH for a quote
User interface	HTML browser (GUI, web socket-based communication)
Development Tools	C#, .NET, Java
Supported programming languages for Windows	Visual Basic, .NET, Java
Supported programming languages for Linux	C/C++, C#, Java



Effective data processing

The standardized data package flow is rapidly managed through IP-based communication in binary and/or xml formats and simultaneously transmitted between multiple endpoints and the server.

Scalability

The dynamically scalable server is able to perform without maximum limitation and efficiently stores all image and numerical data through its high-availability data replication and clustered storage software architecture.



VMS

The user-friendly GUI provides easy to control VMS to display different messages across the city/premises.



Endpoints monitoring

All roadside sensors and cameras can be remotely operated or monitored (self-verification, periphery check), reflecting the detailed conditions of the system in real-time.

ROADSIDE MONITORING AND DATA PROCESSING

