



- Mechanisms for the screening and the processing of data recorded by the surveillance equipment.
- Mechanisms for the validation of traffic violations by the transit authority.
- Possibility of customization of the processing workflow, with the definition of steps according to the needs of the customer and the transit authority.
- Control of processing tasks, control of stage deadlines and operator productivity.
- Possibility of adapting the processes for integration of surveillance data with partner and customer systems.
- Creation of specific reports to meet the operational needs of the contract.

CentralPK

Image Processing Center

CentralPK encompasses several back-office steps for electronic traffic surveillance management, performing image processing and enabling high level data integration.

Features

- Information security and control by access groups and permissions.
- Integration with the radar and surveillance equipment park.
- Equipment parameterization and operation control. Screening, Processing, and Record Validation sub-processes.
- Subprocesses resulting from violations, such as violation notification and imposition of penalties.
- Processing dashboard with task distribution view.
- Process integration with the customization of communication rules with customers and partners.
- Tools to support traffic surveillance and public safety, through surveillance and irregularities panels.
- Management and operational reporting module.

Application

CentralPK tracks vehicular flow, issuing alerts for vehicles in an irregular situation, as well as the status of traffic flow and travel time in a georeferenced map.

Characteristics

- Centralization of operations, allowing the control, parameterization and visualization of the status of the equipment park.

Overview

The electronic traffic surveillance processes, by means of autonomous surveillance equipment, encompass some steps in its operation. From the installation of electronic equipment on the monitored roads, to the issuance of violation notifications or the imposition of penalties to drivers, there are several tasks performed and technical teams involved.

One of the stages of this operation is the processing of traffic surveillance data. At this stage, all checks and validations necessary to ensure the origin, integrity and consistency of the information recorded are performed.

The records captured by the surveillance equipment in operation on the monitored roads are all transferred to data processing centers, in which these checks and validations are carried out, some automatically, others by technical teams trained for these activities, but all through data processing systems. These systems also ensure the traceability of data and the smoothness of operations.

CentralPK incorporates all the necessary features for this purpose, adapting itself to the processes of the customer and the transit authority, in addition to allowing data integration according to these needs.

Information Management

Maintenance of general records related to the process resulting from traffic surveillance, whether this information comes from the traffic authority, required for operations, or from the customer.



Access control and permissions

Security mechanisms for access control by means of user name and password, biometrics, and digital certificate. Options for creating user groups and linking specific permissions.



Image processing

Tools for screening, processing and validating surveillance data recorded by the contract's equipment park, allowing the segregation of non-useable records with the assignment of the appropriate reasons. In these functionalities, all editing tools and information from the records received from the surveillance equipment are provided to assist the interpretation and the assessment by part of the operators.

The workflow from the different stages, or sub-processes, can be configured in accordance with the needs of the customer's process, allowing to suppress or aggregate stages, data validations, and adaptive rules for complementary validations and data integration with customer and partner systems.



Operation management

Ability to manage the surveillance equipment park, through a radar registration environment, setting of operating parameters and maintenance of operating parameter history, with editing and approval controls.

Synchronization of operating parameters for the equipment installed in the park, in addition to the different records relative to the functions of violation inspection and registration irregularities. This information relates to vehicle information, irregularity information and traffic restrictions, wherein these are manually informed in the registration interfaces, or imported from relationships provided by the customer or the transit authority.

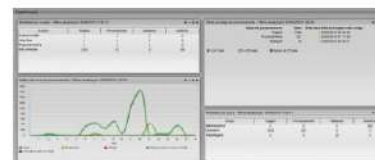


Contract administration

Module for issuing management reports to monitor the results of the operation. It allows the creation of new reports according to the customer's needs, providing some options common to the different realities of the operation.

Operation control

Dashboard of processing operations, allowing the control of activities, productivity analysis, and distribution of tasks in the teams of operators, whether from the client or partner companies.



Support for surveillance and monitoring

The monitoring and irregularities panels allow the monitoring of vehicle traffic in the equipment park, as well as of inspection results by the traffic authority and customer teams, indicating the existence of irregular vehicles or vehicles with traffic restrictions, through visual indications and audible warnings.



Analytical queries

On CentralPK, information on the traffic flow of vehicles and possible irregularities can also be queried for behavioral analysis of traffic, through a query interface with filters by period, license plate, vehicle characteristics, equipment and types of irregularities.

