



Protection of manufacturing critical infrastructure
and automation of technological and business
processes

TODAY'S CHALLENGES

Any modern enterprise requires the solution of a wide range of tasks to prevent situations that threaten business reputation, effective functioning and security.

Economic losses

Raw materials becomes the subject of a burglary and theft. It's leads to the violations of the formulations and/or technological procedures. This, in turn, negatively affects the quality of the product and increases the number of spoiled goods.

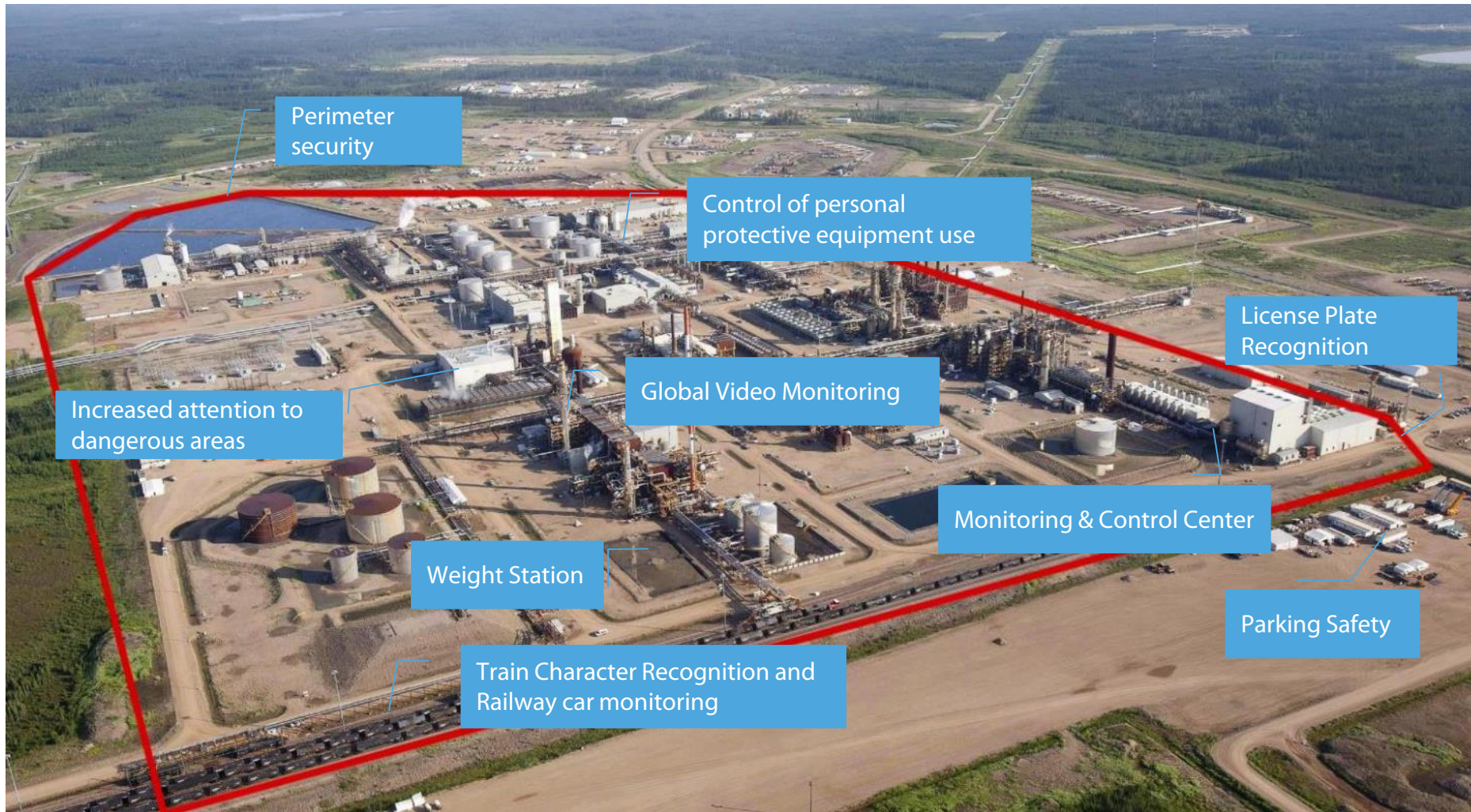
Many technological processes require constant supervision. Otherwise, the possibility of a defect or breakdown of equipment increases, which also leads to negative economic consequences.

Industrial traumatism

Failure to comply with safety regulations leads to injury.

ISS customized solutions take into account the specificity of the industry and the specific business processes and procedures, infrastructure of each industrial enterprise and existing IT-solutions.

TODAY'S CHALLENGES

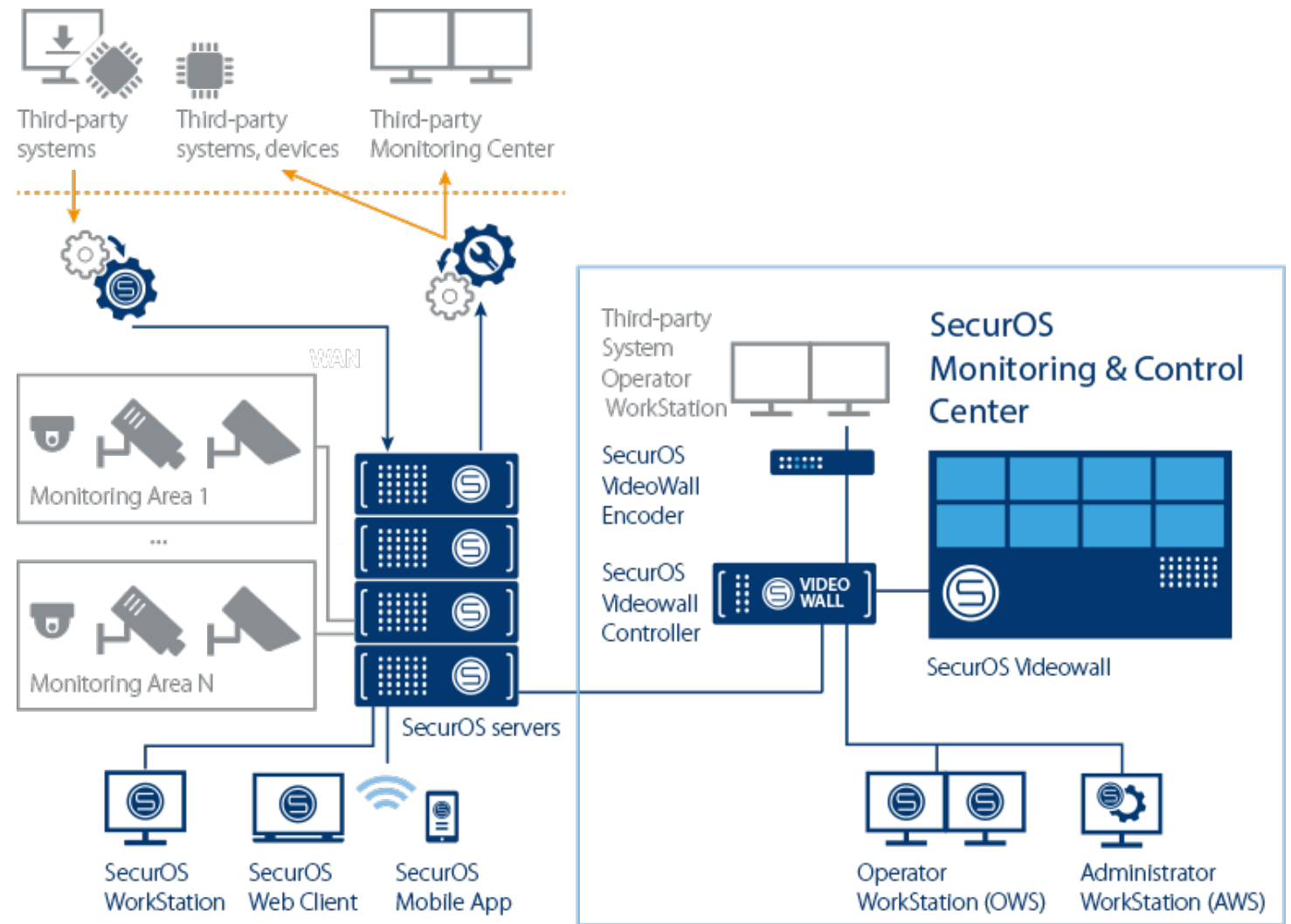


VIDEO SURVEILLANCE



SECUROS

SecurOS integrates a multitude of ISS and third party systems into one integrated network and creates a unified command and control capability.

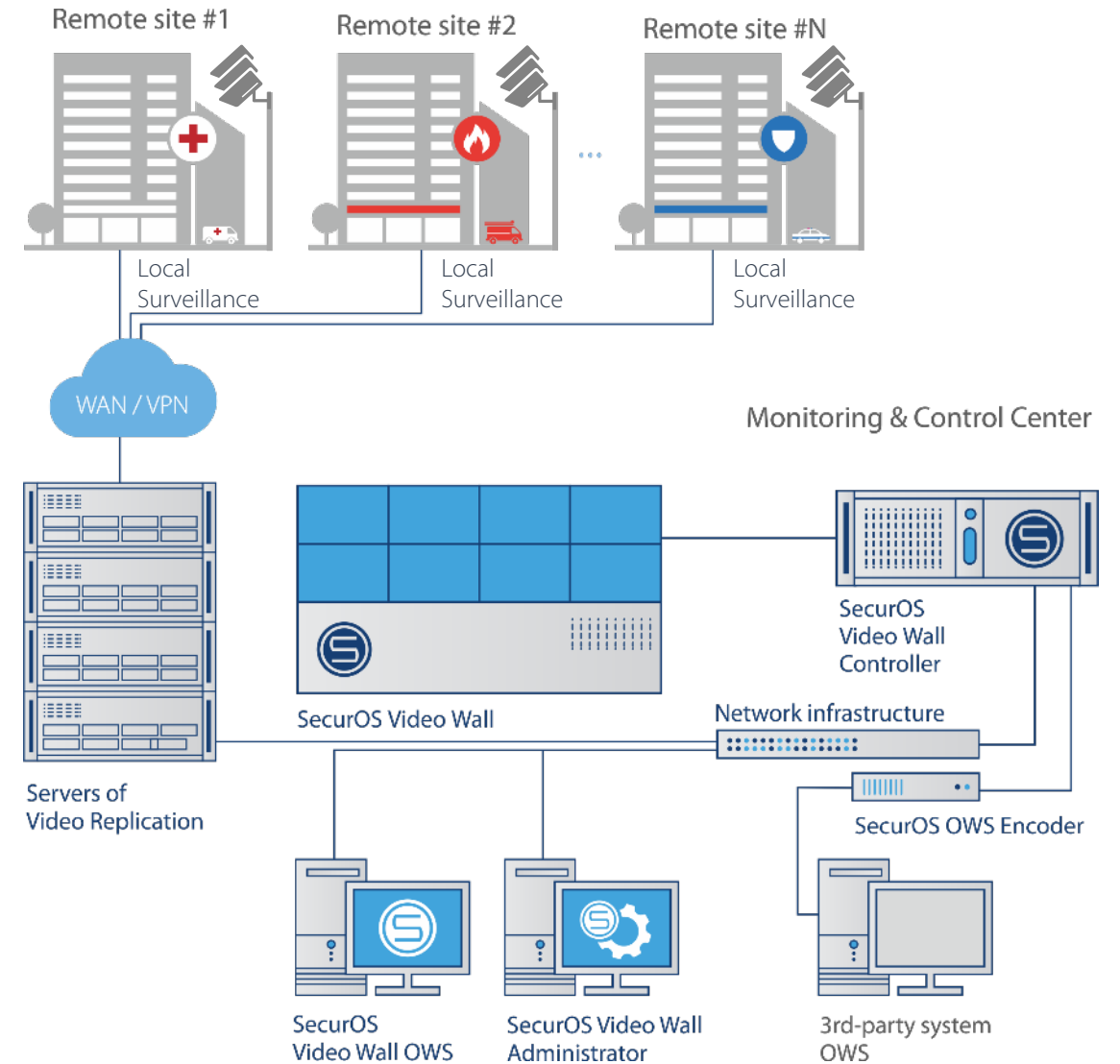


MONITORING & CONTROL CENTER

SecurOS MCC

SecurOS MCC provides the global monitoring and management of a complete remoted security infrastructure of all your local sites (as if they were part of a single virtual system) from a single command center. It is an excellent solution for customers with multiple geographical disparate sites or business facilities located at vast area.

SecurOS MCC allows for a much more streamlined workflow and globalizes security operations to make security personnel more productive and better informed.



GOALS AND OBJECTIVES

ISS solution aims to increase of industrial enterprise economic security level



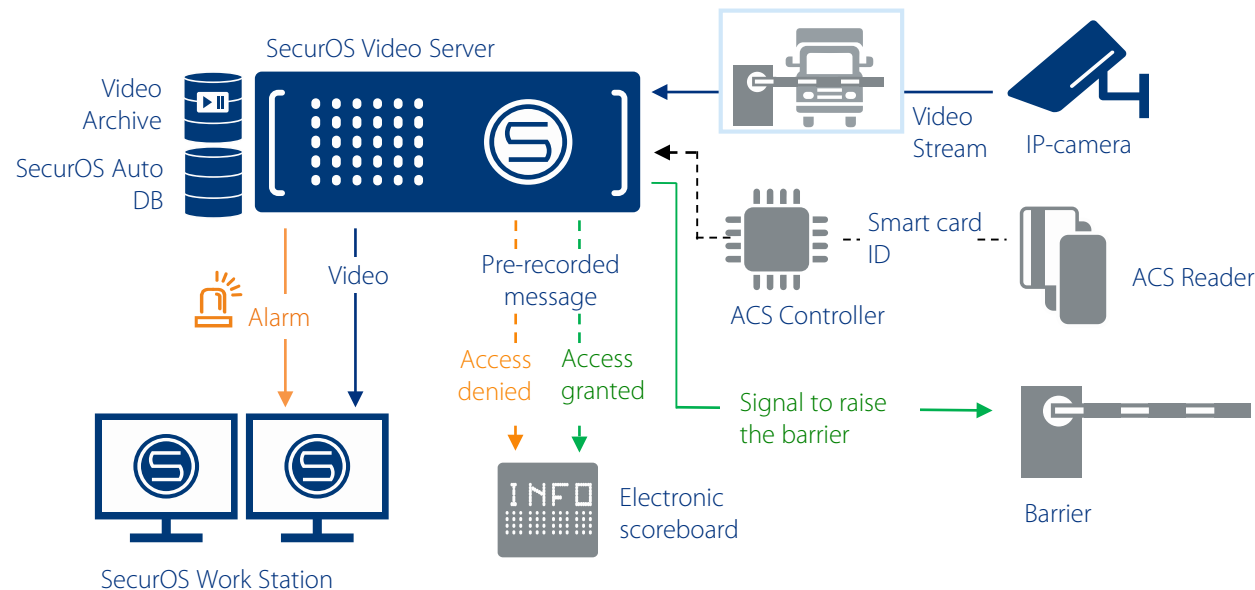
- > Technological processes control
- > Automation of commodities and materials control
- > Staff management
- > Vehicle registration and inspection



AUTOMATED REGISTRATION AND INSPECTION OF VEHICLE AT CHECK POINT

ISS solution provides

- automated authorized checkpoint pass ('white-list')
- allows to track vehicles at check-points on the premises, including entrance and exit check-points
- transfers essential data into the 3rd-party system for further analysis to improve logistics
- operates with controls barriers, electronic notice boards, etc.



The results of implementation:

- > Increased check-point capacity by automating vehicle admittance procedure ("white-list").
- > Increased check-point staff efficiency and to minimize mistakes (accidental and deliberate) in tracking vehicles entering and leaving checkpoints.
- > Raised the standard of drivers' discipline by vehicular movement control on the premises .
- > Received objective data to plan logistic process.

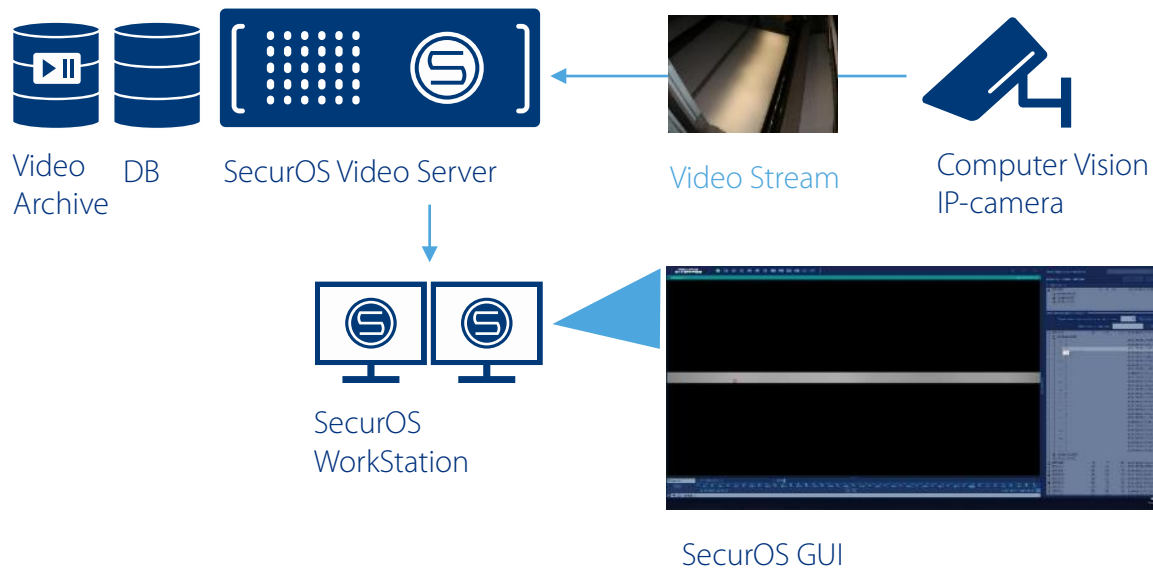
AUTOMATION OF TECHNOLOGICAL PROCESSES MONITORING

ISS solution designed for use in conveyor belts and aimed to identify defects, which cannot be detected by the human eye.

The complex in a continuous automatic mode detects, classifies and collects data about defects. Staff receives operational reports and has the ability to use them in accordance with established production schedules, without the need to monitor the process.

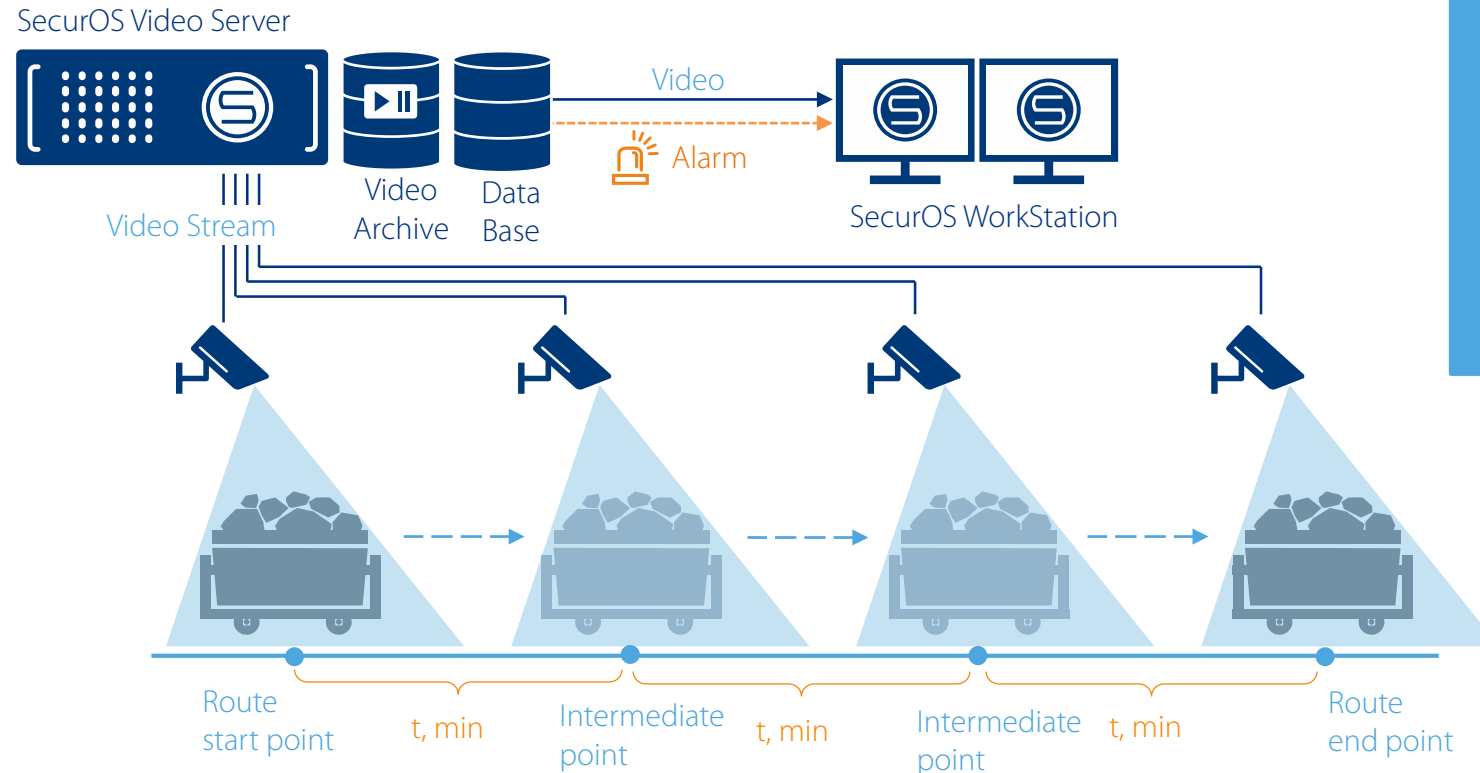
The results of implementation:

- > Significant improvements in the quality of the finished product (reducing the number of spoiled goods)
- > Minimization of cases of the production line abnormal stops



AUTOMATION OF COMMODITIES AND MATERIALS MONITORING

ISS solution enables to track the displacement of each pallet with raw materials from the warehouses to the production shops, recording the time required for the execution of all movements. Fixing inconsistencies in the transaction (which may mean the theft of raw materials), the system initiates sending the relevant notification to operator.

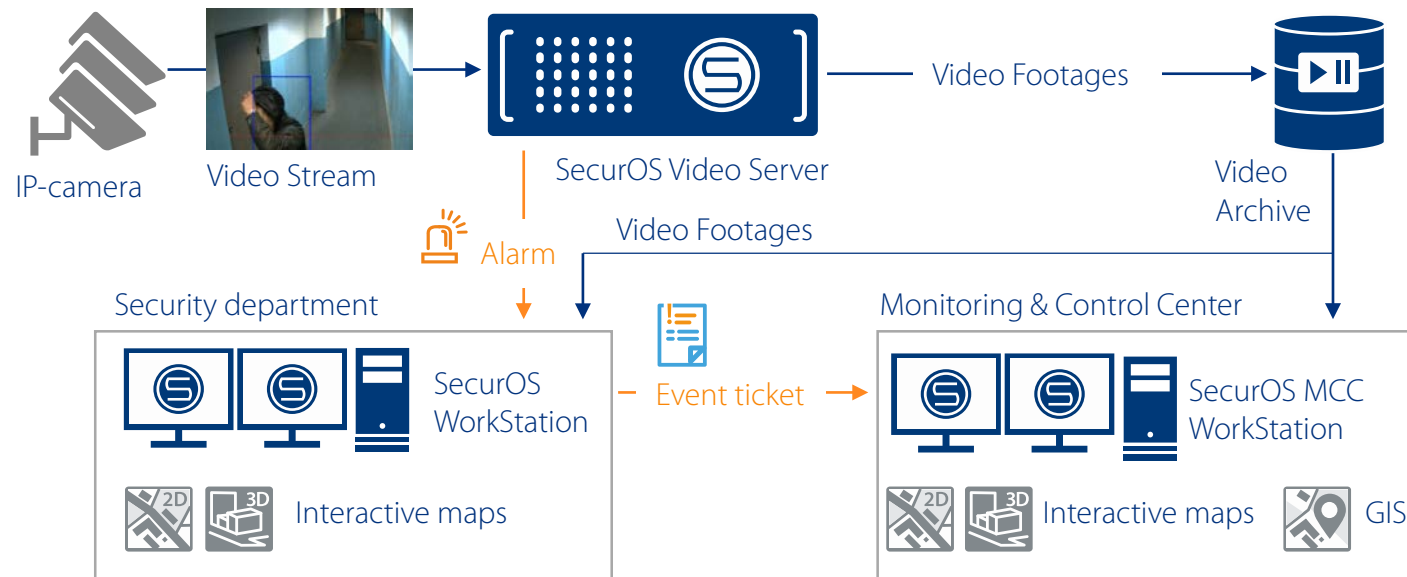


The results of implementation:

- > Compliance the technology of production employees
- > Significant improvements of the quality of the finished product (reducing the number of spoiled goods)
- > Increased production volumes and a significant thefts reduction

AUTOMATED MONITORING COMPLIANCE WITH PERSONNEL SAFETY

Detection the presence of people without personal protective equipment (helmet) in every hazardous area. Alarm messages are transmitted to security service. Security staff can meet the situation in accordance with internal protocols of enterprise.



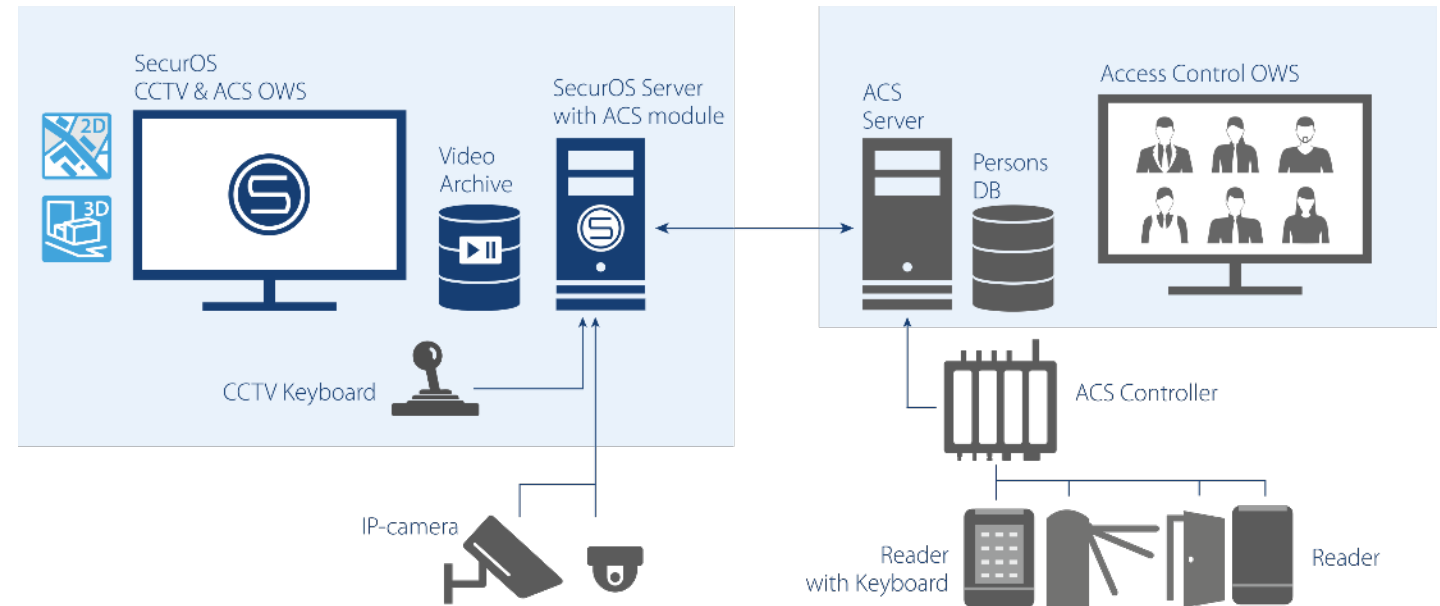
The results of implementation:

- > Significant increase of workplace discipline and reduce the number of accidents owing to physical injury
- > Labour law compliance in ensuring employees safe work environment
- > Video evidence, fixing the disciplinary violations that led to the injury

ACCESS CONTROL SYSTEM

SecurOS ACS

ISS introduces a comprehensive solution to enhance access control in high-security installations. By combining SecurOS VMS with an integrated access control system, you can create a modern, flexible and scalable system to effectively monitor staff and visitors.



- > SecurOS GUI Operator Workstation (OWS) is expanded with the ACS / Fire alarms operator's functionality
- > ACS / Fire alarms operator's functionality can be expanded with automated multi-factor authentication with video analytics: LPR/ANPR (SecurOS Auto) and face capture and recognition (SecurOS Face)
- > Scripting (operating scenarios) in accordance with the objectives of a particular site and ACS / Fire alarms system

PROTECTION OF SITES AND COMPANY PROPERTY

Situational Awareness Video Analytics - SecurOS Tracking Kit III

SecurOS Tracking Kit III detectors provide significant reduction of operator's load: no need for constant monitoring of all control areas and exclusion of human factor influence



Crowd
Detector



Loitering
Detector



Object Left
Behind
Detector



Running
Detector



Dwell Time
Detector



Intrusion
Detector



Object
Counter



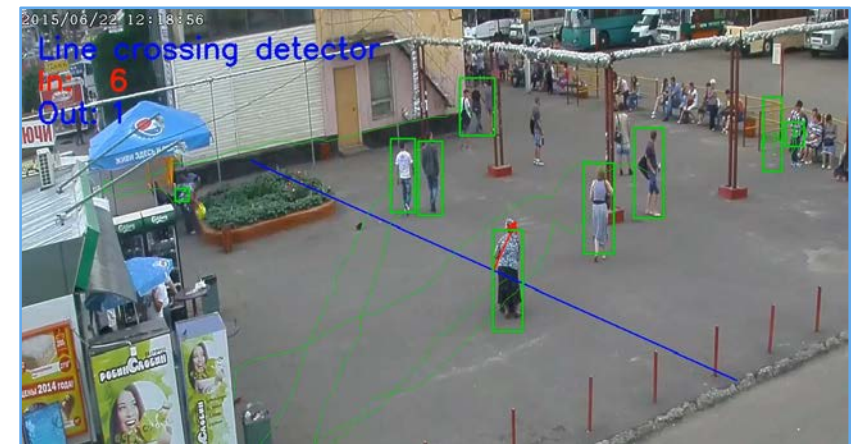
Line Crossing
Detector



Wrong
Direction
Detector



Smoke
Detector



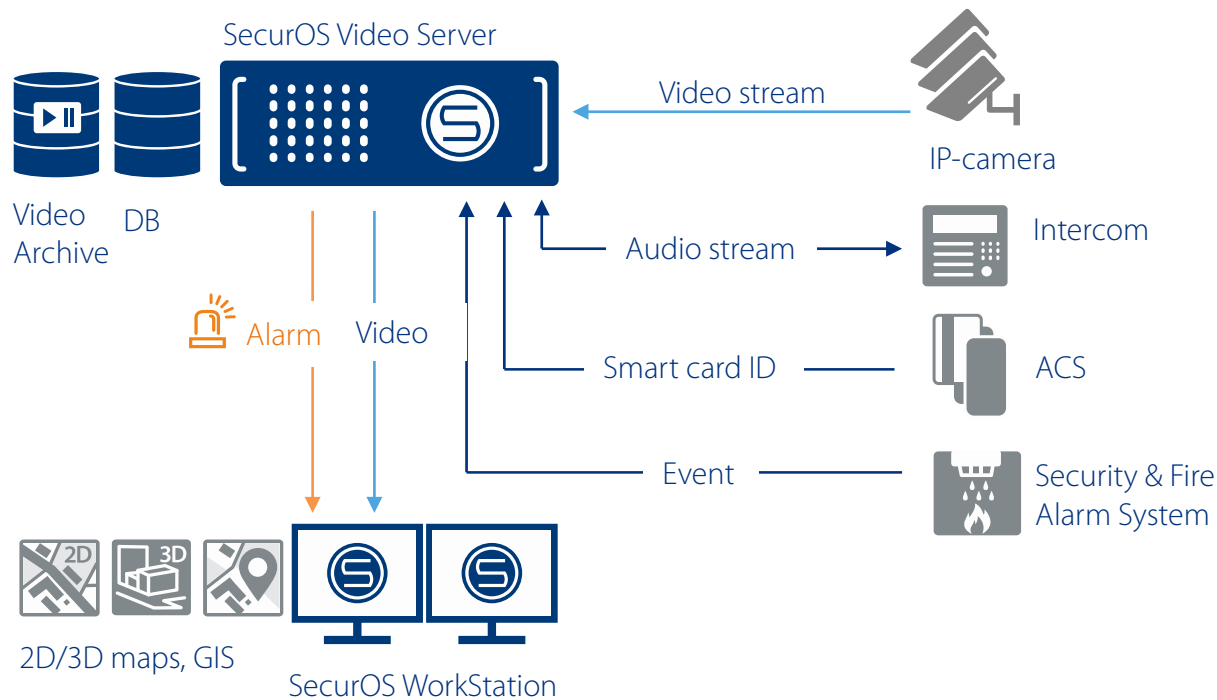
PROTECTION OF SITES AND COMPANY PROPERTY

Interoperability with 3rd-party systems and devices

SecurOS enables to harvest data from native and 3rd-party systems into the unified security system.

The results of implementation:

- > Significant increase of workplace discipline and reduce the number of accidents
- > Enhanced efficiency and staff performance
- > Prompt response of security personnel to emergencies



REFERENCES | SUEK, Russian Federation



4 terminals in the cities: Kemerovo, Leninsk - Kuznetsky, Novokuznetsk, Krasnoyarsk

- Train Carriage Recognition (29 channels)
- System of formation cards where shipping coal weight subject to car weight is automatically entered
- Integration with Federal Railways system of the centralized preparation and issuance of transport documents

SUEK is RF's largest coal producer and one of the leading coal companies in the world

REFERENCES | Cargill, Ephremov, Russian Federation



- SecurOS Enterprise video management system
- Video analytics: License Plate Recognition , Train Carriage Recognition
- Integration with ERP-system to accelerate and improve the efficiency of logistics processes
- Integration with Access Control system and Fire Alarm

Cargill is an international producer and marketer of food, agricultural, financial and industrial products and services

REFERENCES | Severstal-metiz, Cherepovets, Russian Federation



- Video surveillance of the industrial facility
- Work-time control
- License Plate Recognition
- Train Carriage and Cargo Recognition
- Weight-control station
- Detection of safety measures violations

Severstal-metiz is a group of companies which unites the metalware assets of the Severstal company. It is among the Top-5 European producers of wire and wire products in its segment.



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