SECUROS
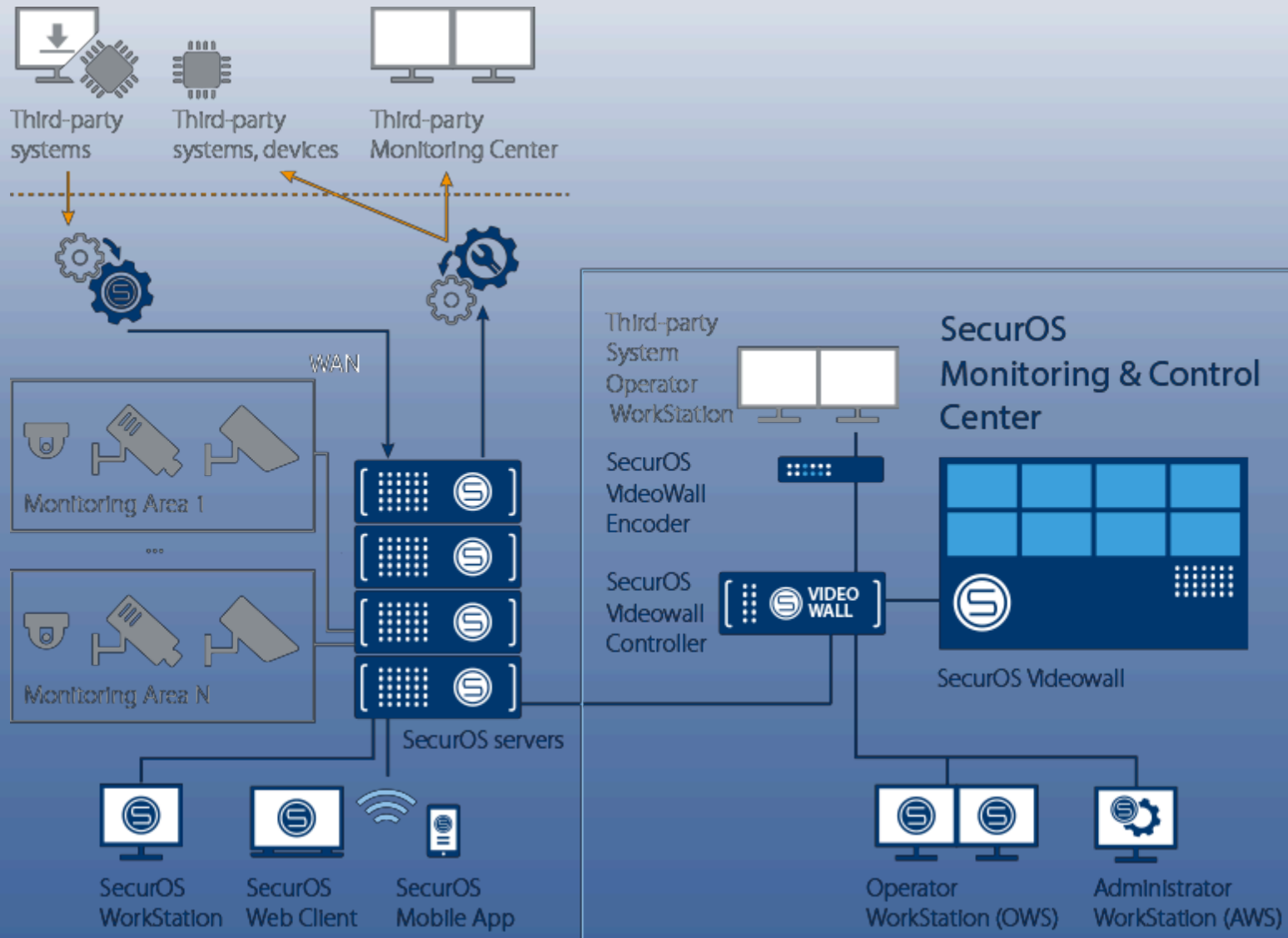# UNIDIED SECURITY & EXTENSIBULITY

By operating of both video management system and intelligent analytics modules and detectors, SecurOS™ is the most powerful framework in the world.

ISS advanced software and hardware based products and solutions portfolio

SECUROS – UNIDIED SECURITY & EXTENSIBULITY

IKABADI

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

SECUROS - A COMPLETE SECURITY ECO-SYSTEM

KABADI

FEDERATION
Support of local or distributed security systems into a unified network with unlimited numbers of video servers, cameras, sensors, etc. Centralized monitoring and control of local sites.

INTEROPERABILITY
Integrate third party systems and devices into
one network

ADDITIVE / MODULAR ARCHITECTURE
Scalable system topology generates ready ROI
on the system - new functionalities and capabilities can generally be added with minimal software management

EVENT / SCENARIO MANAGEMENT
Program complex reactions to complex events
to intelligently and dynamically react to real world events

EXTENSIBILITY / CUSTOMIZATION
From multi-layer maps, custom user-based screens and permissions, to custom forms and
GUI, SecurOS allows for complete customization based on user need

BUSINESS INTELLIGENCE
Advanced native analytics and integration of surveillance platform with business process systems allows for proactive action

SECUROS - TECHNOLOGICAL DOMINANCE

All devices, objects, cameras, systems, and even users, macros, and scripts can be individually managed and have multilevel permissions based on login.

Each object can be controlled manually or automated using scripts and macros

Security system efficiency active monitoring

Security system resources optimization

Continuity and redundancy capability with failover

Operating under insufficient capacity of data channels

Resilient data storage

High level of cyber-security

Full compliance with standards and requirements

INTERGRATIONS & COMPATIBILITY

Video Cameras, incl. PTZ, fish-eye, ImmerVision, Computer Vision

ACS, Security & Fire Alarms, Perimeter / Intrusion, Building Automation, Weight Stations, etc.

Actuated equipment (sensors, beams, barriers, etc.)

Video Walls

Remote Storage / Data Centers (Virtualizations and NAS)

GIS, Interactive 2D/3D Maps

Emergency Service (911)

PSIM, other 3rd-party software

NATIVE PRODUCTS

License Plate Recognition

Traffic Violations Detection Systems

Face Capture & Recognition

Train Character Recognition

Sea Container Character Recognition

Visual Inspection and Automation of Terminal Gates System

Under Vehicle Surveillance System

POS & ATM Transaction Monitoring

Situational Awareness Video Analvtics and Service Analytics

Access Control & Fire Alarm

Command & Control, Video Walls

MONITORING, FORENSICS AND MANAGEMENT

Remote Monitoring and Admin
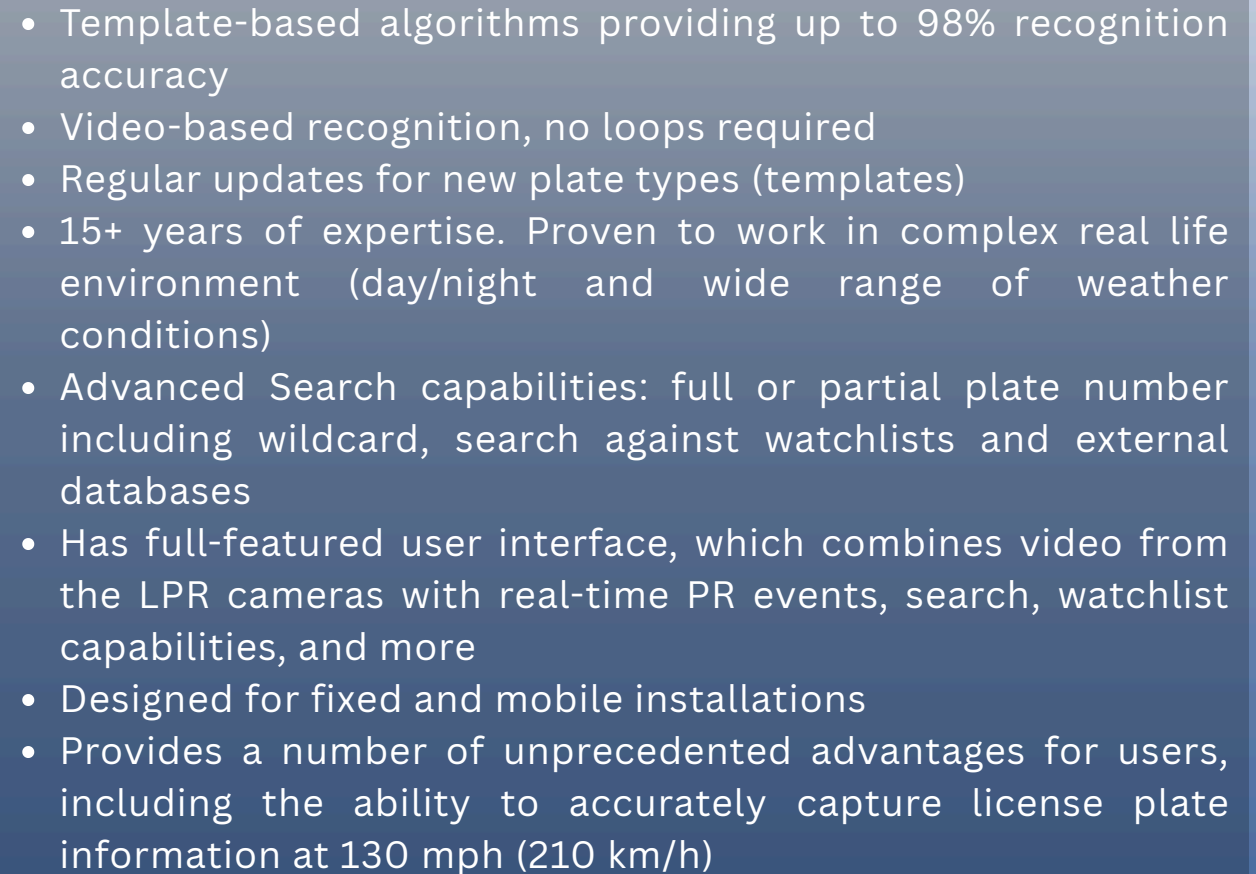
Mobile App and WEB-browser

Monitoring & Control Center

Data Processing and Event Management

SOL DB / XML

ONVIF, RTP/RTSP, video formats: H.263, H.264, H.265, MPEG-4, MUPEG, MXPEG

RestAPI / SDK/ IIDK / Active Media Kit (Video API)
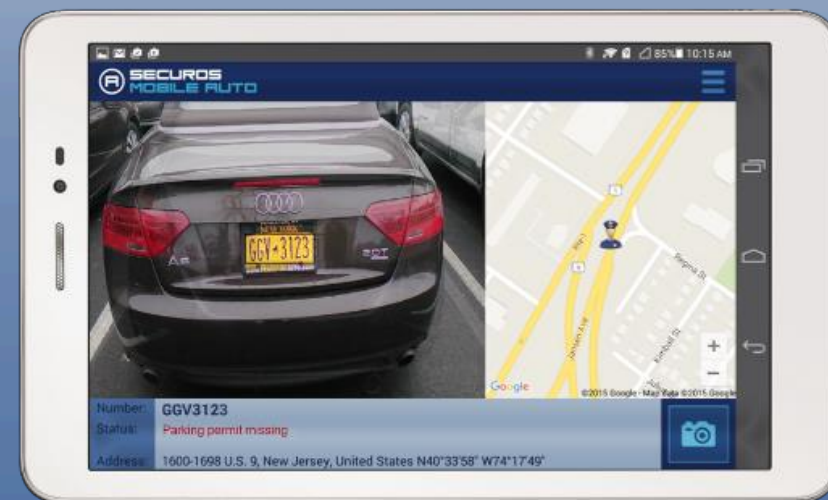
LICENSE PLATE RECOGNITION

KABADI

SecurOS Auto

Designed to effectively deal with different tasks related to control of parked/moving vehicles in law enforcement, commercial, and municipal organizations

- Template-based algorithms providing up to 98% recognition accuracy
- Video-based recognition, no loops required
- Regular updates for new plate types (templates)
- 15+ years of expertise. Proven to work in complex real life environment (day/night and wide range of weather conditions)
- Advanced Search capabilities: full or partial plate number including wildcard, search against watchlists and external databases
- Has full-featured user interface, which combines video from the LPR cameras with real-time PR events, search, watchlist capabilities, and more
- Designed for fixed and mobile installations
- Provides a number of unprecedented advantages for users, including the ability to accurately capture license plate information at 130 mph (210 km/h)

LICENSE PLATE RECOGNITION - RELATED SOFTWARE PRODUCTS

SecurOS EdgeAuto

A special integrated solution for LP/ANPR embedded on supported IP-cameras.
It is targeted for applications where the camera has a limited connection with the server, and it is necessary to perform real-time license plate recognition as well as have the corresponding video archive on the server for long-term storage.

SecurOS MobileAuto

PR/ANPR mobile application designed for working in field conditions. The solution is intended for municipal and police authorities and the security services of commercial enterprises.

LICENSE PLATE RECOGNITION - SPECIALIZED TURNKEY SOLUTION

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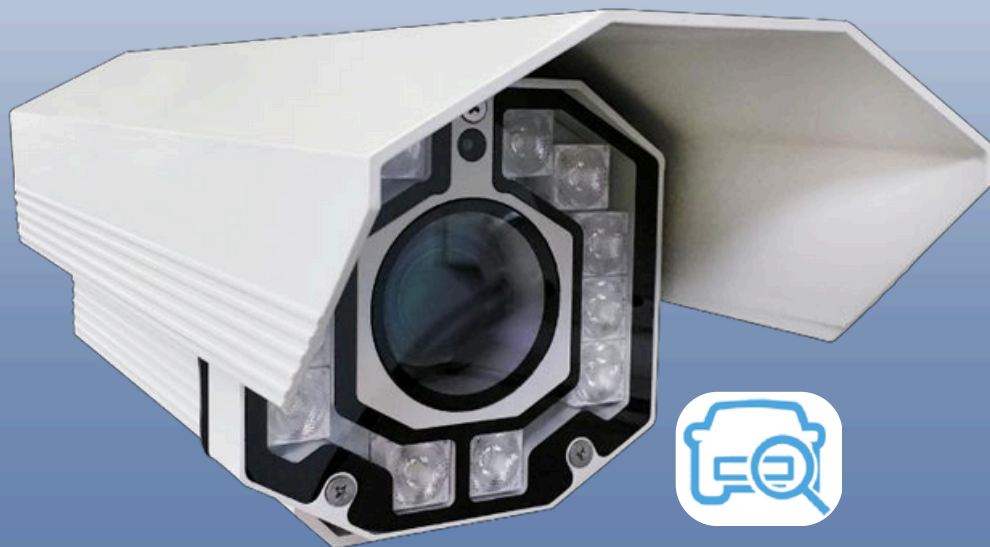
SecurOS Motus

SecurOS Motus 452 is an IP-based automatic license plate recognition camera designed for SecurOS Auto
- High-speed.
It provides unbeatable ANPR precision for commercial facilities and law enforcement applications.

- Ready-to-use all-in-one unit
- Specially designed for severe weather conditions
- Easy remote calibration and camera's configuration adjustments
- Built-in remotely configurable white-light or IR illuminator
- Superior image quality and NPR precision
- Recognize plates from two lanes of traffic
- IP67
- Adjustable wall-mount bracket is included
- Low power consumption
- FCC and CE certified
- 2 years warranty

ADVANCED SPEED LIMIT VIOLATIONS DETECTION

SecurOS Velox

SecurOS Velox is a ready-to-use all-in-one device designed for real-time traffic violations detection and automatic license plate recognition (ANPR) of all passing
vehicles - 24 hours a day under any weather conditions. SecurOS Velox provides automatic detection of traffic violations:

DETECTION OF COMPLEX TRAFFIC VIOLATIONS

SecurOS Crossroad

SecurOS Crossroad is an edge-to-edge solution for traffic violations detection. It combines specialized ruggedized hardware components and software for high precision detection and automatic license plate recognition (ANPR).

SecurOS Crossroad automatically detects a wide range of Traffic Violations at a crossroads including a violation failure to give way to pedestrians at zebra crosswalks.

SEA CONTAINER CHARACTERS RECOGNITION

SecurOS Cargo

SecurOS Cargo provides the ability to recognize characters on cargo containers from above, below, and from the side. It has an automated ISO code recognition system, so that the country of origin can be known right away. The advanced algorithms mean that such information can be read in any kind of weather, and can also read container characters on trucks as well as cranes.

By developing a container character recognition solution that integrates with cargo management processes at port, intermodal, and logistics centers, SecurOS Cargo can dramatically improve throughput and turnaround time, reduce liability, and be utilized to better locate and track containers in large facilities.

VISUAL INSPECTION AND AUTOMATION OF TERMINAK GATES SYSTEM

SecurOS Cargo Terminal

SecurOS Cargo Terminal facilitates data flow processing and seamless integration with Terminal Operation System.

This software-hardware based solution automatically collects and provides to TOS full set of Gate metadata:

- ISO Container images for visual inspection
- ISO container number, Size and type code, Kemler, IMDG, ILU
- License plate of a truck
- RTSP video stream and ASF/AVI video clips
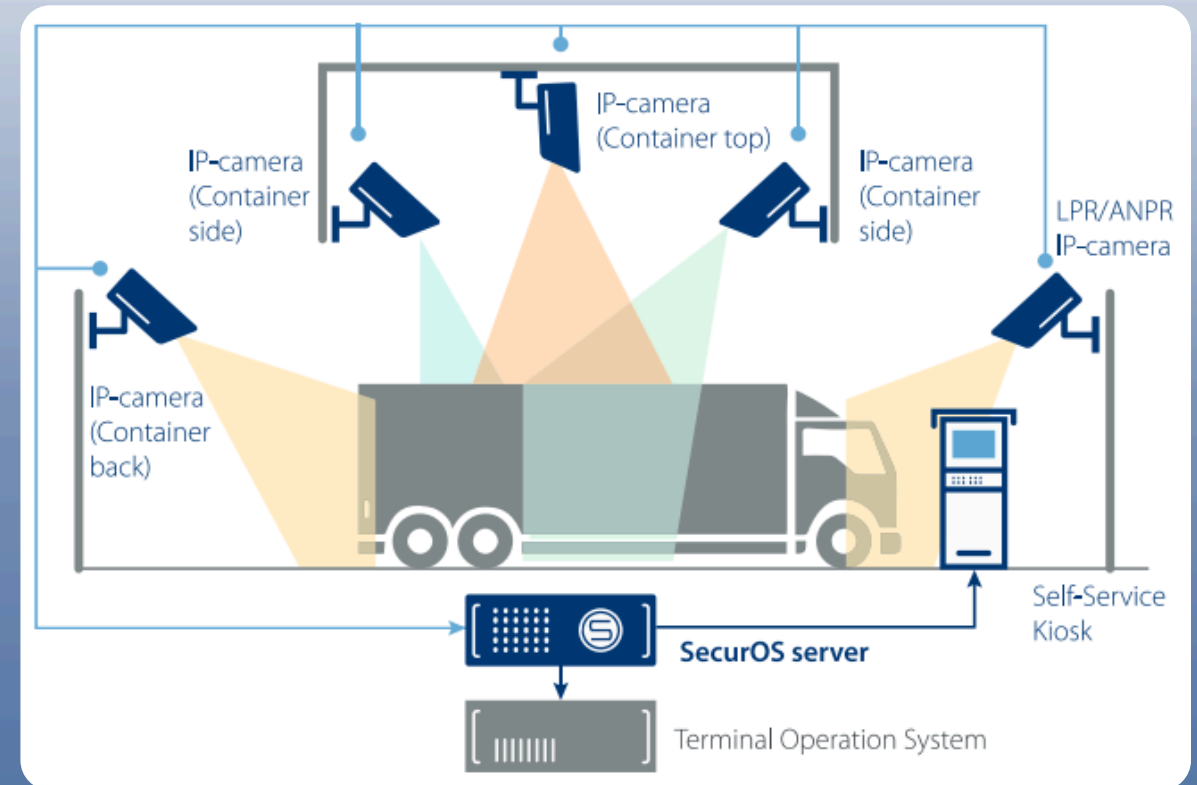
UNDER VEHICLE SURVEILLIANCE SYSTEM

SecurOS Flatimus

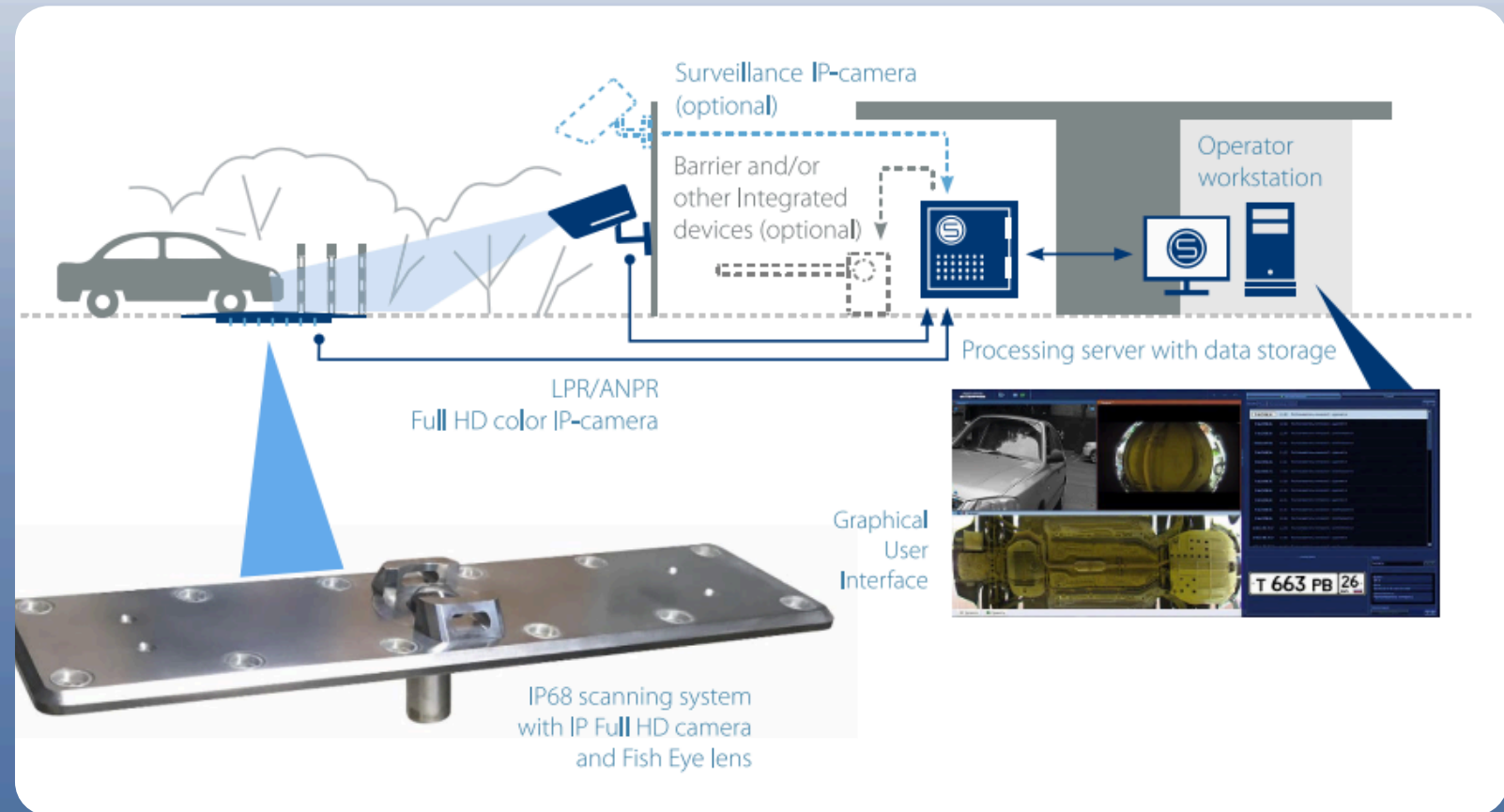SecurOS Flatimus is a hardware-software based system of remote under-vehicle surveillance. The system creates a database of high-resolution undercarriage images and recognizes vehicle license plates.

Surveillance IP-camera (optional)

Barrier and/or other Integrated devices (optional)

Operator workstation

LPR/ANPR Full HD color IP-camera

Processing server with data storage

Graphical User Interface

IP68 scanning system with IP Full HD camera and Fish Eye lens

RAILWAY CARS NUMBER RECOGNITION AND REGISTRATION

SecurOS Transit

SecurOS Transit is an effective software solution for registration of train cars, tankers, and platforms at the shunting-yards, customs terminals, railroad hubs, industrial enterprises, warehouses, etc.

SecurOS AutoTrack

SecurOS AutoTrack is a software enables data aggregating, processing, and display of processed data in a convenient for operator form about vehicles moving on roads. SecurOS AutoTrack supports large distributed systems focused on flexibility and scalability, and provides transformation of raw data about road traffic into a suitable for business analysis form, as well as tools for shared work with such data.
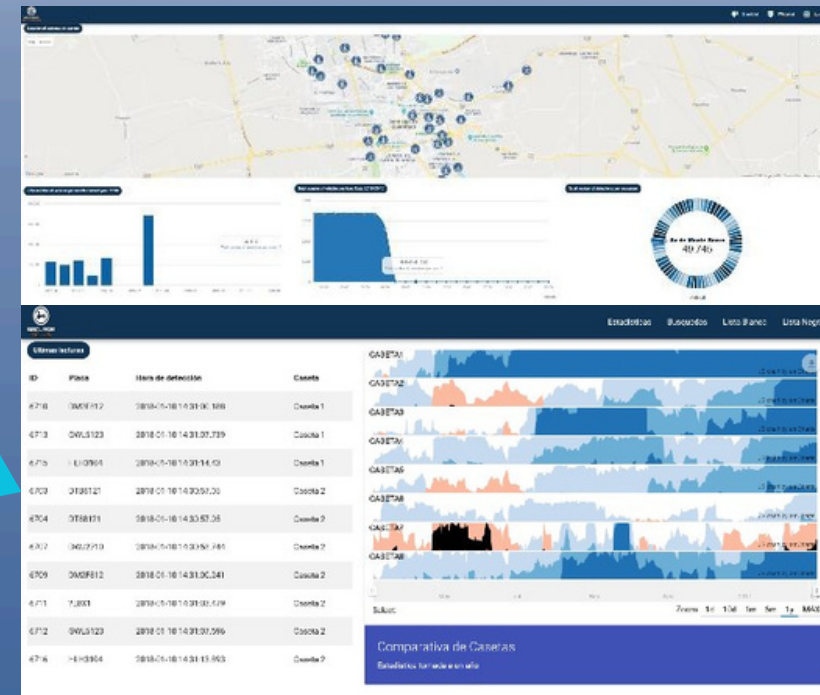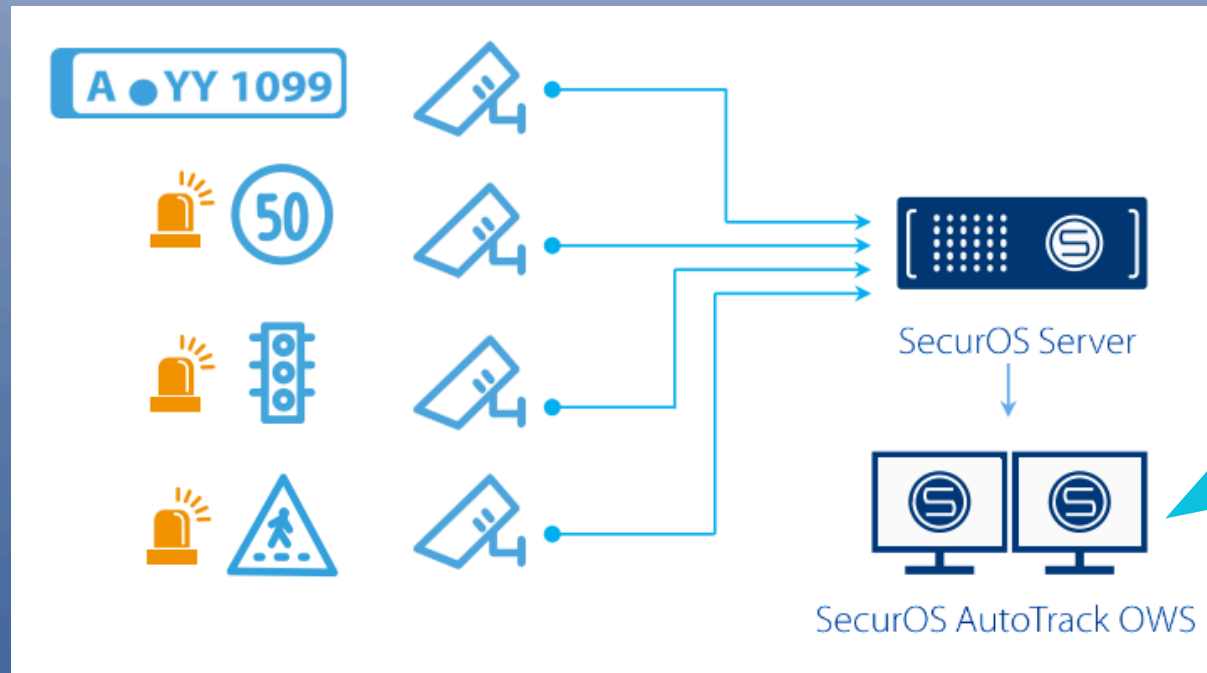
FACE CAPTURE & RECOGNITION

SecurOS Face

SecurOS FACE provides Face Capture & Recognition with a high accuracy level in a wide variety of challenging conditions and as such, is ranked among the most accurate of all Face Recognition systems in the marketplace.

The reason of a high level of accuracy has to do with the experience of IS specialists in image analytics technology, and the related expertise with advanced algorithms, which then identifies and matches an individual's specific features with relentless attention to every detail.

ACCESS CONTROL SYSTEM

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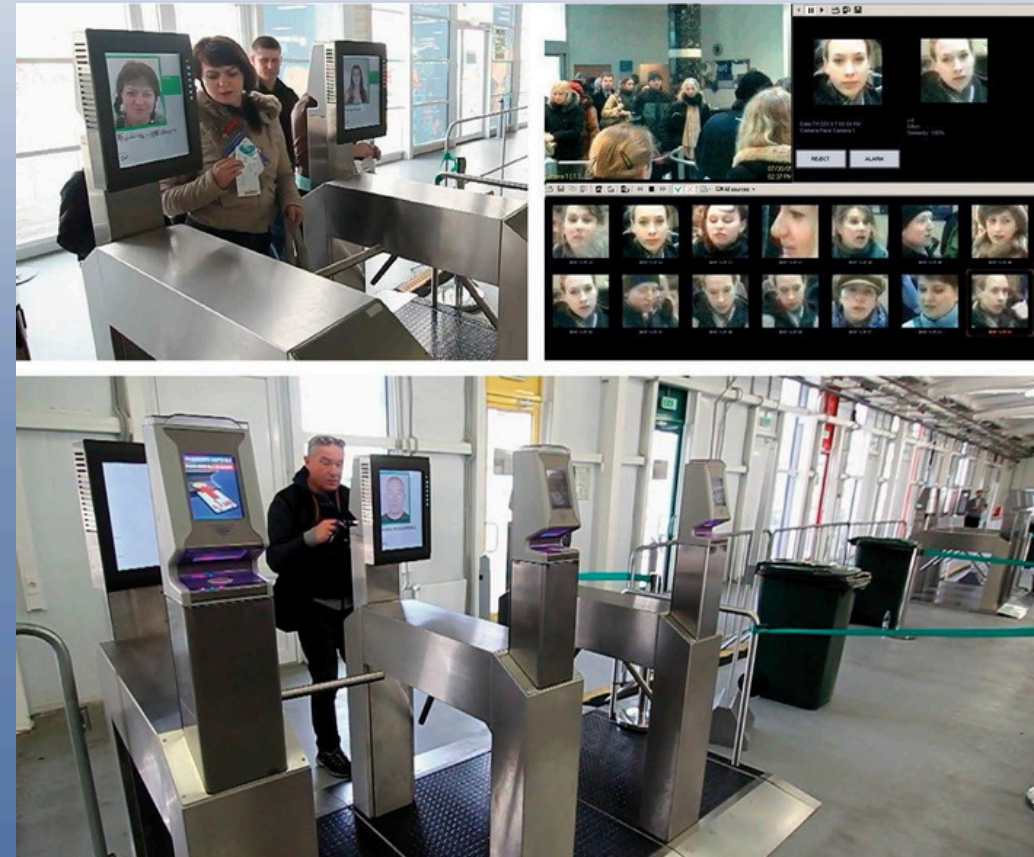
SecurOS ACS module

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.
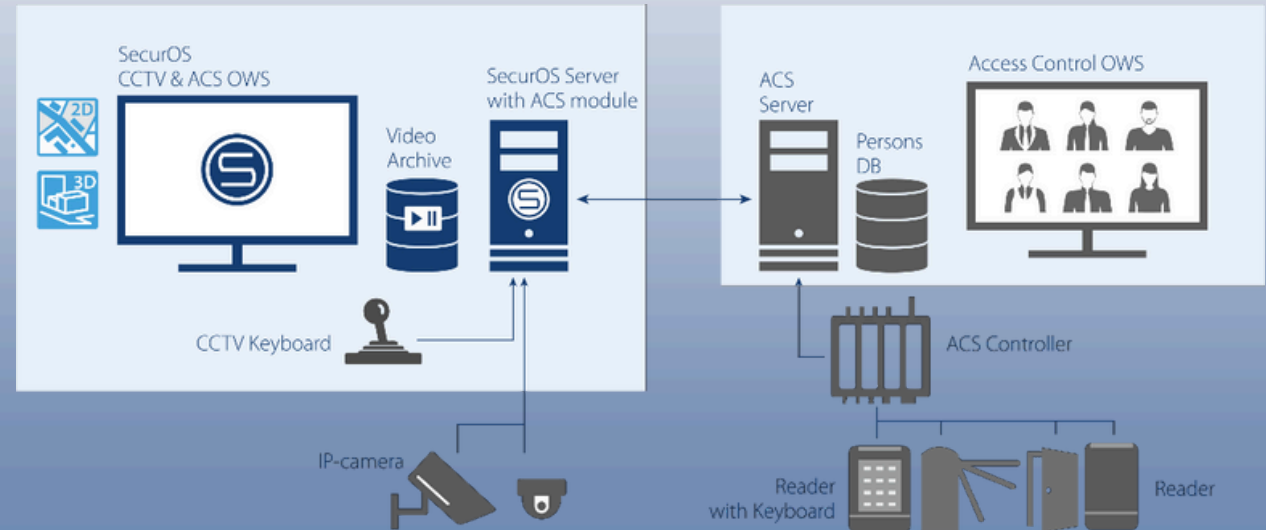
SecurOS GUI Operator Workstation (OWS) is expanded with the ACS / Fire alarms operator's functionality

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

SecurOS POS

SecurOS POS is an intelligent software module of SecurOS VMS, which links live video with transaction data from a POS or ATM system. It allows search of specific transactions and review of the exact video archive of that transaction.

It provides full video documentation on selected transaction IDs, item numbers, terminal numbers, employees, customers, payment details, or stores in any combination you wish.

Effectively combat fraud and loss occurring in transactions. Integrate with other analytics to provide a complete retail solution, including recognition of known shoplifters, inventory management, after-hours surveillance, license plate recognition for gas stations, etc.

SITUATIONAL AWARENESS VIDEO ANALYTICS

KABADI

SecurOS Tracking Kit III (ecurOS Computer Vision subsystem

SecurOs Tracking Kit Ill 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
- Object Left Behind Detector
- Intrusion Detector
- Wrong Direction Detector

- Loitering Detector
- Running Detector
- Object Counter
- Smoke Detector

- Dwell Time Detector
- Line Crossing Detector

NON-HELMET DETECTOR (VIDEO ANALYTICS)

Construction site, foundry, coal mine - work in such areas requires strict compliance staff safety rules, including using of protective equipment. One of the most frequently used tools is a helmet.

ISS video analysis, in conjunction with strategically placed video surveillance cameras, allows the detection of production staff who are not wearing protective head gear in areas where it is required

The accurate reads the video analytic systems provides, even in poor lighting or steamy conditions. The highly intelligent nature of the algorithms makes this possible, and results in very few false alerts.
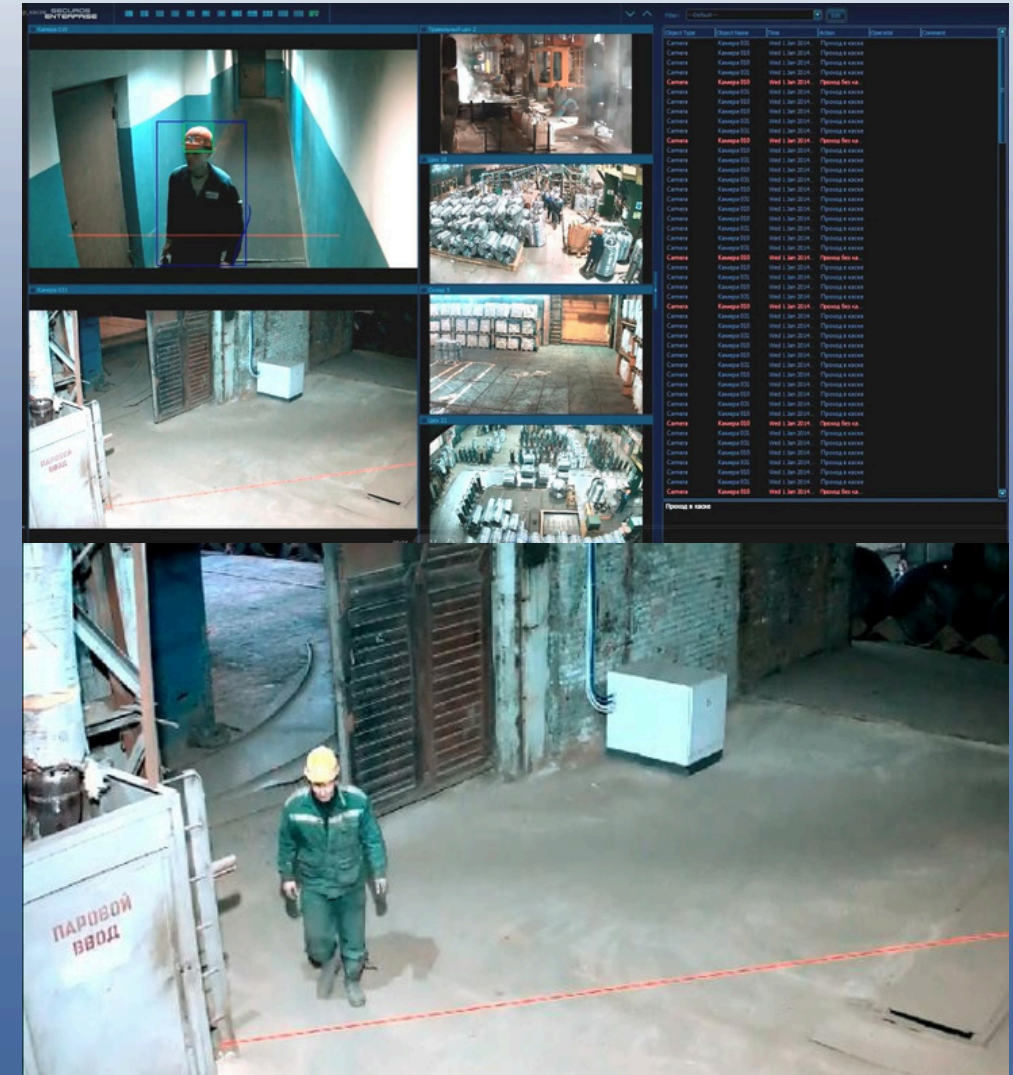
SERVICE VIDEO ANALYTICS

SecurOS Camera Health

Used to verify operation of the CCTV cameras and the video stream according to the technical requirements of the system and is implemented on the basis of the service detectors

- **Loss of signal** from the camera logs communication blackout between server and camera
- **Defocusing** responses in case of the image sharoness loss
- **Blinding** registers light beam directed at the lens.
- **Camera shielding** reacts to the darkening of the image in cases of closure of lens, failure of the lighting device
- **Changes the field of view** registers unauthorized rotates of the camera

EVENT MANAGEMENT

Alarms

Data transfer (SecurOS)

Data transfer (3rd-party systems)

| Events log | Alarm monitor | SMS, e-mail | 2D / 3D maps, GIS | Video Walls | Emergency Events Reports | 911 Emergency | ERP, SCADA, etc. |
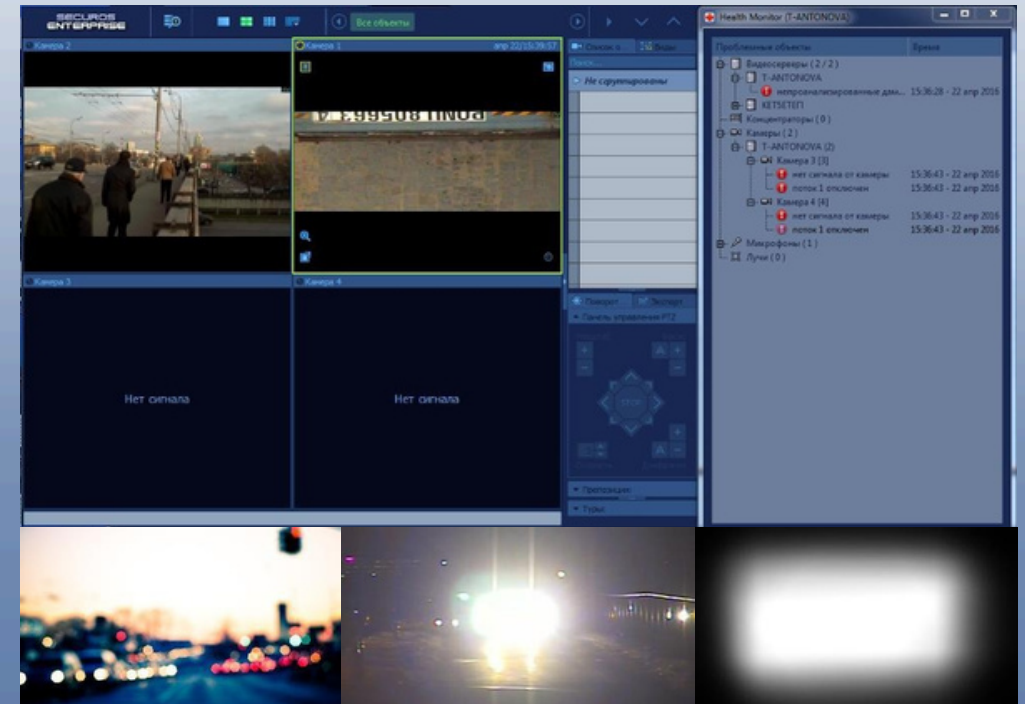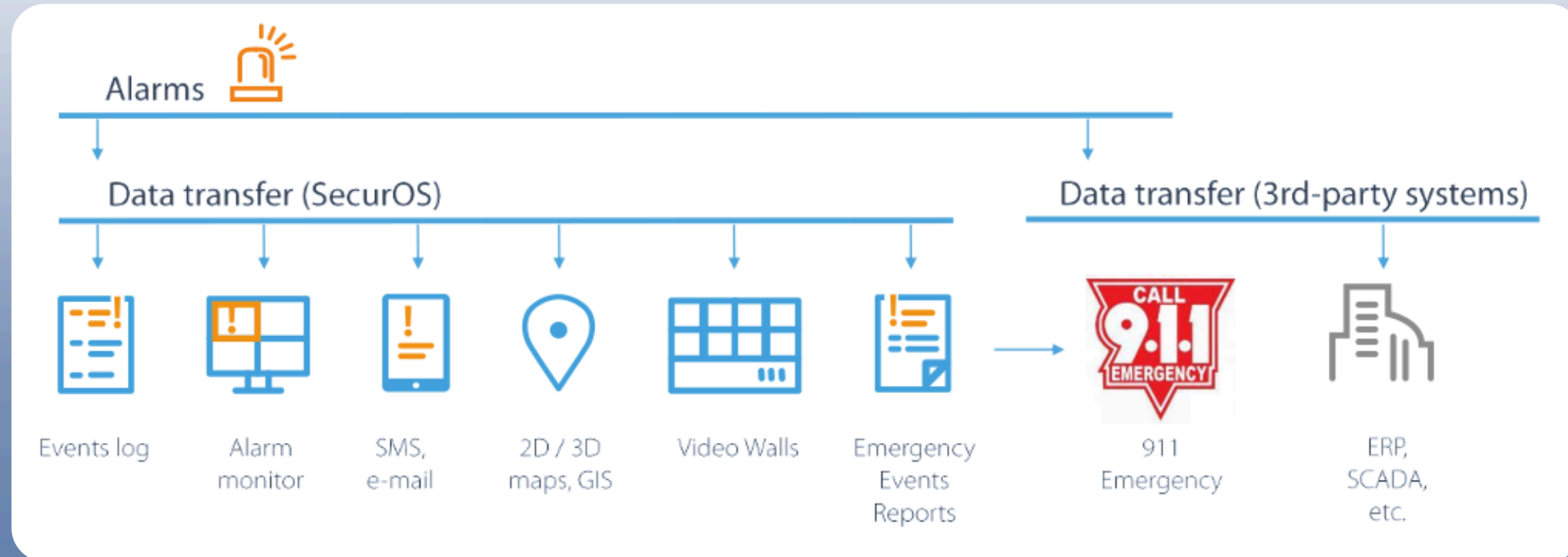
ISS advanced integration capabilities allow to develop integrated solutions based on video management platform, including a number of additional subsystems (video analytics, event processing, GIS, "91 1", etc.) and hardware (terminals "Citizen-Police", acoustic, chemical and radiation sensors, systems, Fire Alarm, etc.).
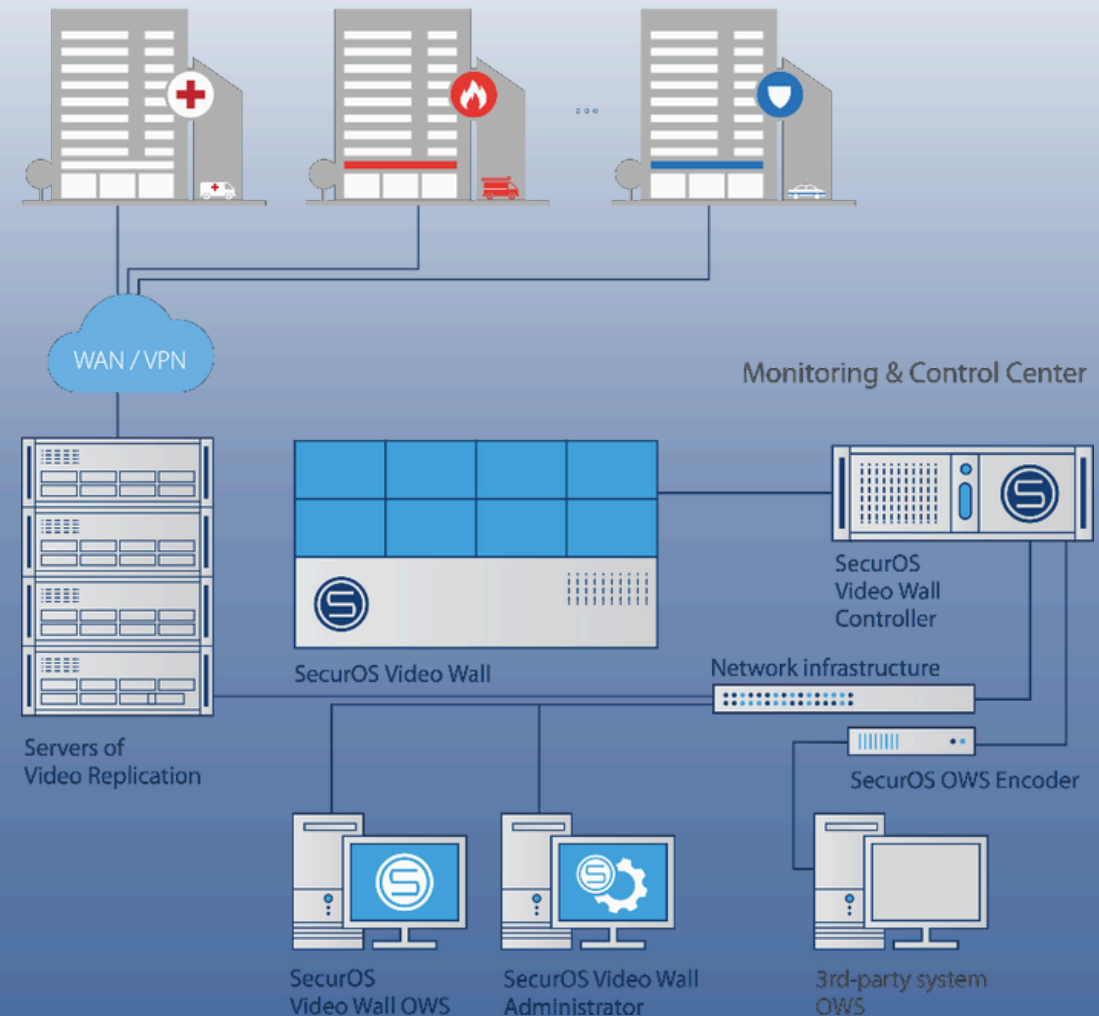
MONITORIING & CONTROL CENTER

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.

WAN / VPN

Monitoring & Control Center

Servers of
Video Replication

SecurOS Video Wall

SecurOS
Video Wall
Controller

Network infrastructure

SecurOS OWS Encoder

SecurOS
Video Wall OWS

SecurOS Video Wall
Administrator

3rd-party system
OWS

MONITORIING & CONTROL CENTER

SecurOS MCC

The SecurOS MCC federation capability scales as needed to tie together a few sites to hundreds and thousands of globally disparate sites, and provides management of all SecurOS servers within the virtual network and visualization of all cameras and other devices which are connected to each individual SecurOs deployment.

The flexible SecurOS architecture allows to create a hierarchical structure from several Monitoring & Control Centers. One MCC can be top-level to others MCC-s or the responsibilities can be divided among a number of MCC-s in accordance with customer's needs.
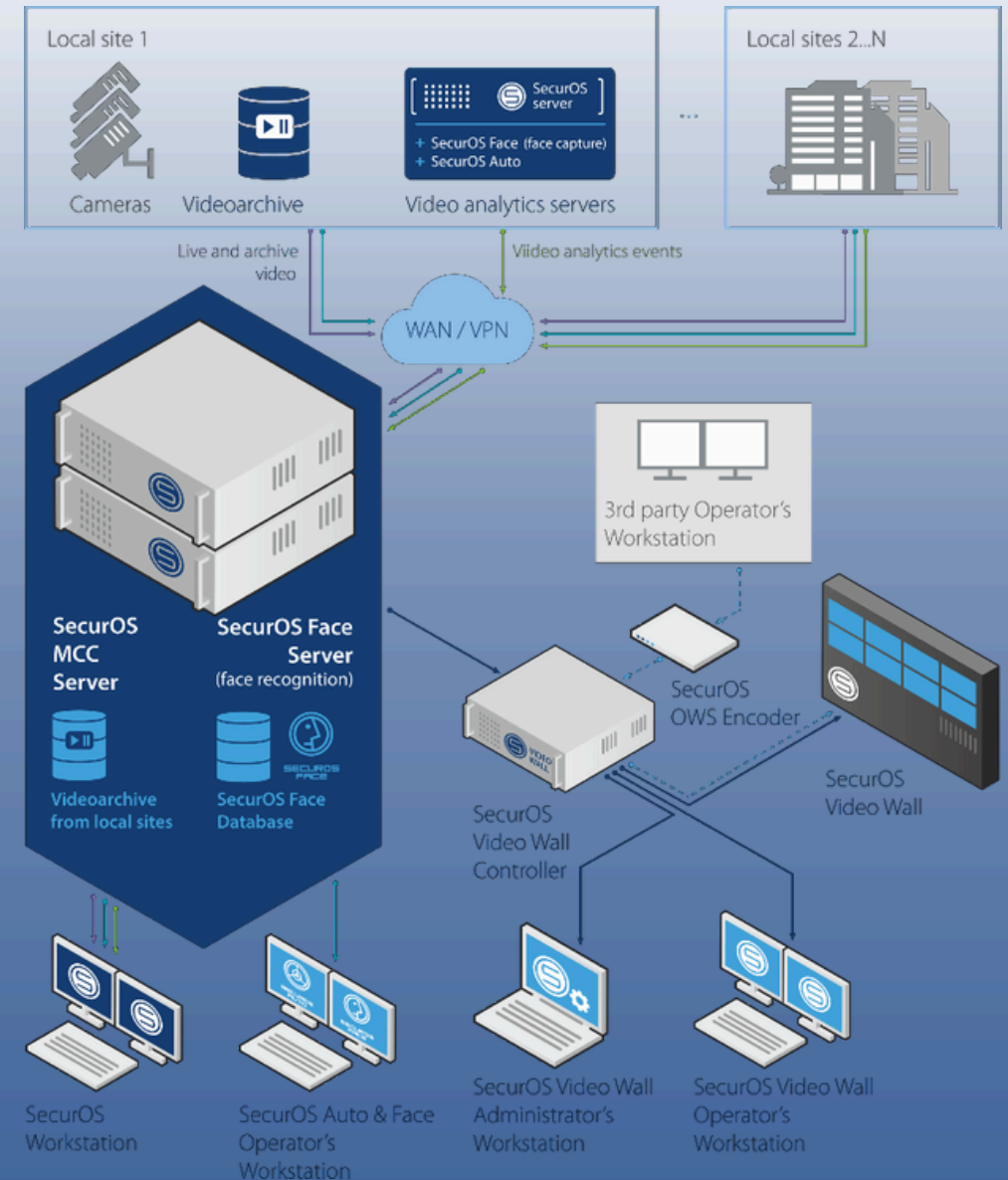
VIDEO WALL

SecurOS IVS VideoWall

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MOBILE APPLICATION FOR IOS AND ANDROID DEVICES

SecurOS Mobile

SecurOS Mobile is a mobile client for Securos MS which gives security personnel capabilities to monitor video and control cameras on their mobile phones and tablets (iOS and Android). Operators can easily access live video streams, playback video archive, monitor video analytics events and other types of alarms over Wi-Fi or 3G/4G networks.
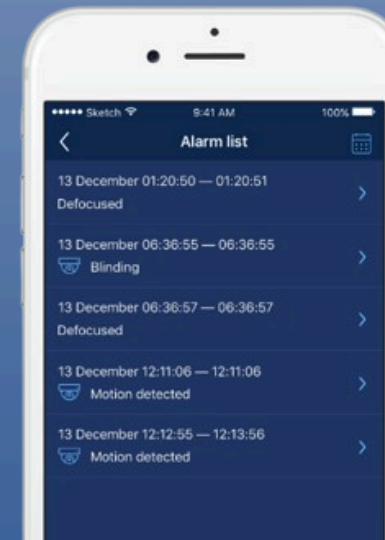Set up access and save credentials for multiple SecurOS systems
SecurOS Mobile can be download on the App Store and the Google Play

Set Up access and save credentials for multiple SecurOS systems

Review alarms

Playback up to 4 cameras simultaneously in various speed