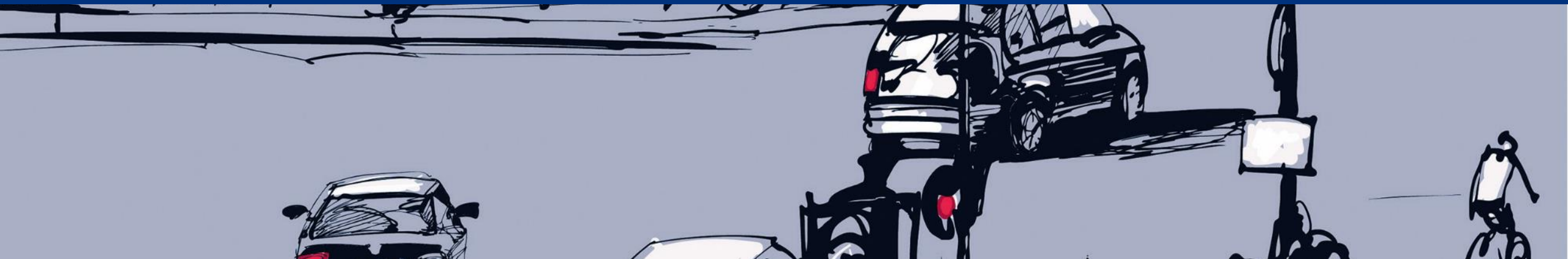


Company Profile

ISS is a leading developer of video management and video intelligence solutions



SUMMARIES

ISS provides a comprehensive line of digital security and surveillance video solutions which are on the forefront of on-demand security, allowing for centralized command and control of an entire enterprise security network.

Tailored software-hardware solutions by ISS provide integrated safety and security, as well as automation of manufacturing activity & business processes.

- Operating in CCTV since 1996
- 100 000+ successful deployments in over 50 countries
- 130 000+ servers & 2+ million cameras under SecurOS VMS command
- Recognized Leader in Video Management Solutions (IHS Markit): ranked #1 LATAM, top-5 EMEA, top-10 worldwide
- Private labeled by IBM in EMEA
- Member of ONVIF
- Member of Skolkovo Technopark IT cluster
- Axis Gold Application Development Partner
- Samsung Diamond Partner, and more

MISSION

Turning Video Management into Video Intelligence

... A permanent commitment to improving our technological solutions to handle large amounts of video information, resulting in increasing public safety and the efficiency of our clients business processes...

1. Future-proof video management & the most advanced video analytic software
2. Global R&D centers on soft hardware
3. Most compelling, advanced solutions for the global video intelligence and security markets
4. Technological partnerships with leading developers
5. Satisfies technological standards
6. Membership in International Professional Associations

ISS WORLDWIDE



Russia



Argentina



Brazil



Canada



Chile



Costa Rica



Colombia



Guatemala



Mexico



Peru



South Africa



UAE, Dubai



USA



Ukraine

FOCUS ON

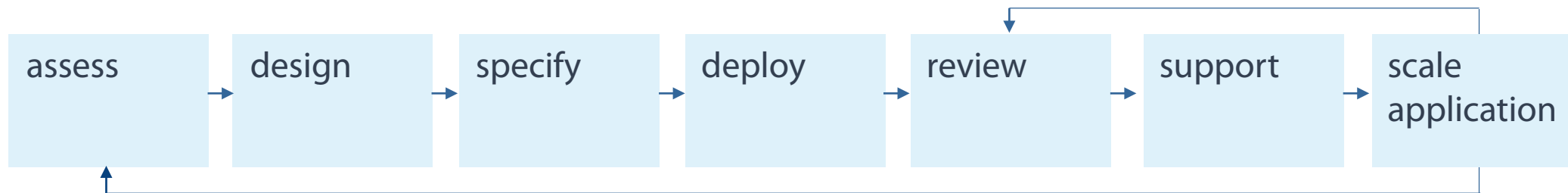
ISS SecurOS focuses on large mission critical applications security systems



A SOLUTION-CENTRIC COMMITMENT

Task-oriented industry-specific solutions, conform fully to individual acceptance criteria

- ISS works with partners to develop complete solutions
- Commitment to support: from design to deployment to post-installation
- Scripting, integration with systems, and customization of the user experience allows to continue to «fine tune» the solution to meet the customers' needs



SOLUTION SCALABILITY: SAFE COMMUNITIES

Patented object-oriented event-driven core firmware, advanced video compression technologies, intelligent video motion detection and digital video recognition capabilities

- Integration of a variety of systems into an unified architecture
- Scalable approach to meet today's and future needs
- Common visual platform

Video
Surveillance

Video Analytics

Event
Management

Integration

Federation

ISS CENTER OF COMPETENCE



ISS products and solutions
show-rooms



Training center and
Certification

Center of
competence



Technical Support Call-center



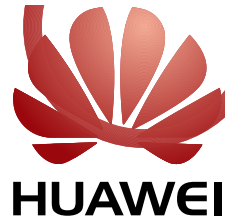
Testing ground



Project support



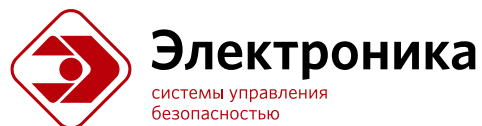
STRATEGIC TECHNOLOGICAL PARTNERS



and much more...



STRATEGIC INTEGRATOR PARTNERS



and much more...



ISS COMPETITIVE ADVANTAGES

Native subsystems and modules which enhance the security system functionality	Multitude of video analytics subsystems, event processing, emergency system
Security Eco-system	Full range of integration mechanisms. Multitude of integrated 3 rd -party devices, components, software systems
Support and maintenance	From pre-project inspection till expansion and replication of implemented solutions. Educational programmes, certification, consulting, online & offline maintenance
Sales concept	Service-oriented. Personal involvement in project: we engage all necessary company divisions and technological partners
Deep knowledge of Russian industry requirements and infrastructure features	Operating in Russian market of CCTV since 1996 (over 20 years). Full compliance with relevant Russian and world technological standards
Supporting of specialized OS	Linux Astra (apart from Windows)
Customized software-hardware based solutions development	Currently ISS implemented over 10 one-of-a-kind projects which included development of customized video analytics for infrastructure safety ensuring
Specialized software-hardware based devices and complexes development	Traffic Violations Detection systems, Visual Inspection and Automation of Terminal Gates system, Under Vehicle Surveillance system, Video Walls, and more



SECUROS

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

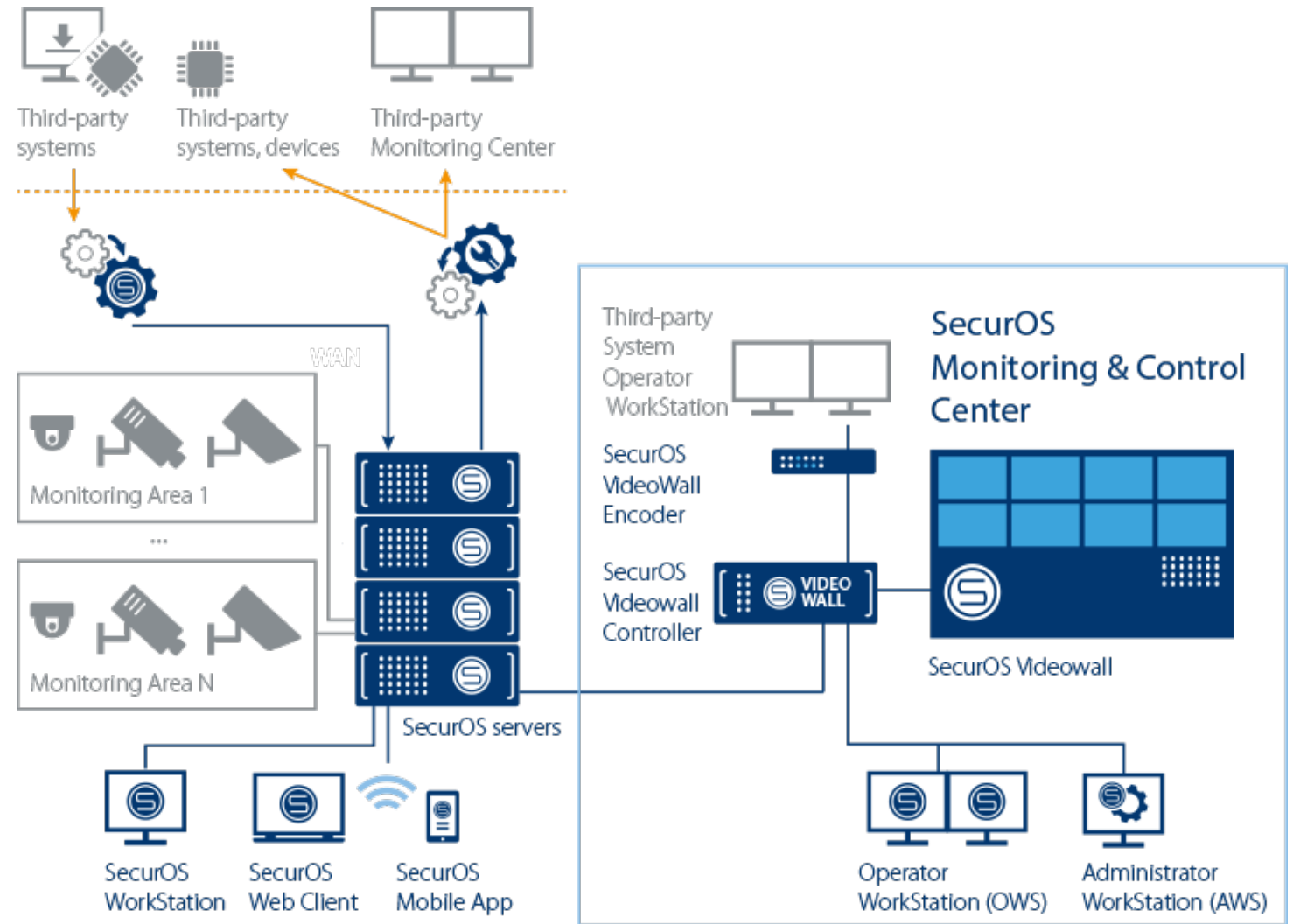


SECUROS – UNIFIED SECURITY & EXTENSIBILITY



SECUROS

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



SECUROS – A COMPLETE SECURITY ECO-SYSTEM



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.



EVENT / SCENARIO MANAGEMENT

Program complex reactions to complex events to intelligently and dynamically react to real world events



INTEROPERABILITY

Integrate third party systems and devices into one network



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



ADDITIVE / MODULAR ARCHITECTURE

Scalable system topology generates ready ROI on the system – new functionalities and capabilities can generally be added with minimal software management



BUSINESS INTELLIGENCE

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

SECUROS – TECHNOLOGICAL DOMINANCE



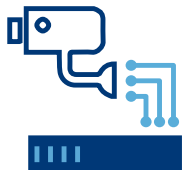
All devices, objects, cameras, systems, and even users, macros, and scripts can be individually managed and have multi-level permissions based on login.



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

INTEGRATIONS & 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 Analytics 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

SQL DB / XML

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

RestAPI / SDK / IIDK / Active Media Kit (Video API)

LICENSE PLATE RECOGNITION

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 LPR 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 – SECUROS AUTO INTERNATIONAL COVERAGE

Template based	Europe	Armenia, Austria, Azerbaijan, Belarus, Belgium, Bulgaria, Estonia, Finland, France, Georgia, Germany, Italy, Latvia, Lithuania, Moldova, Poland, Portugal, Russia, Slovenia, Spain, Turkey, Ukraine, United Kingdom
	Middle East	Bahrain, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates
	Central Asia	Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan
	South Asia	Pakistan
	Far East	China, Malaysia, Taiwan, Singapore, Taiwan, Thailand
	North America	British Virgin Islands, Canada, Costa Rica, Dominican Republic, El Salvador, Guatemala, Haiti, Jamaica, Mexico, Nicaragua, Panama, Trinidad and Tobago, USA
	South America	Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela
	Africa	Nigeria, South Africa, Tanzania
	Oceania	Australia
OCR based	Europe	Albania, Andorra, Bosnia and Herzegovina, Croatia, Czech Republic, Denmark, Greece, Hungary, Holland, Ireland, Iceland, Liechtenstein, Luxembourg, Macedonia, Malta, Monaco, Montenegro, Norway, Romania, San Marino, Serbia, Slovakia, Switzerland, Sweden, Vatican

LICENSE PLATE RECOGNITION – RELATED SOFTWARE PRODUCTS

SecurOS EdgeAuto

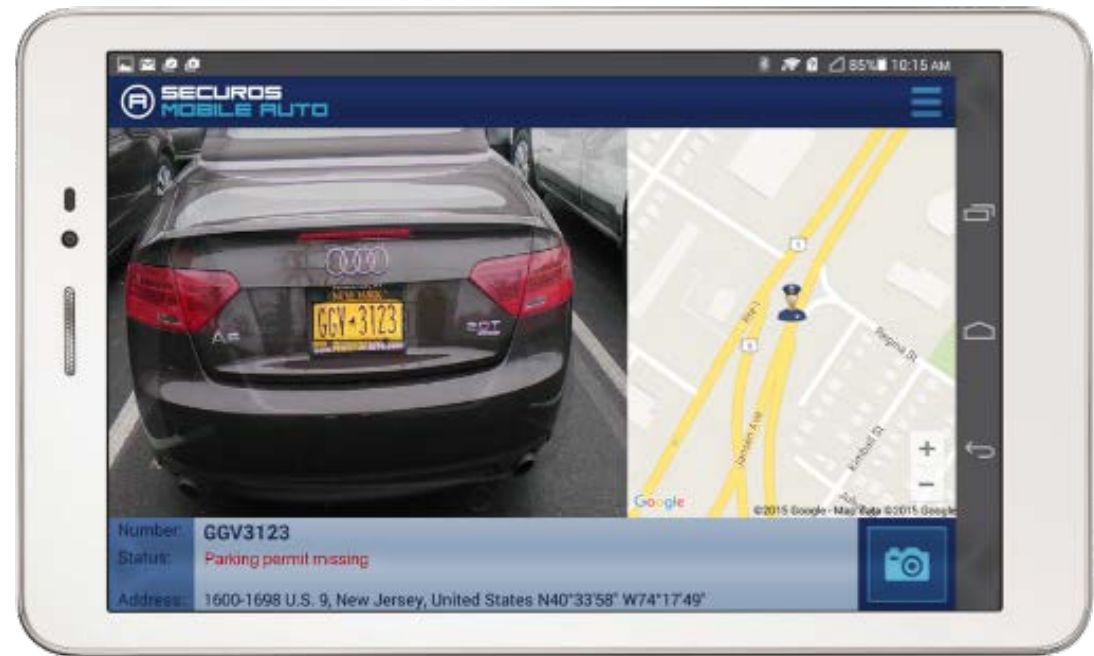
A special integrated solution for LPR/ANPR embedded on supported IP-cameras.

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

LPR/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

SecurOS Motus



- 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 ANPR 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

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.

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.



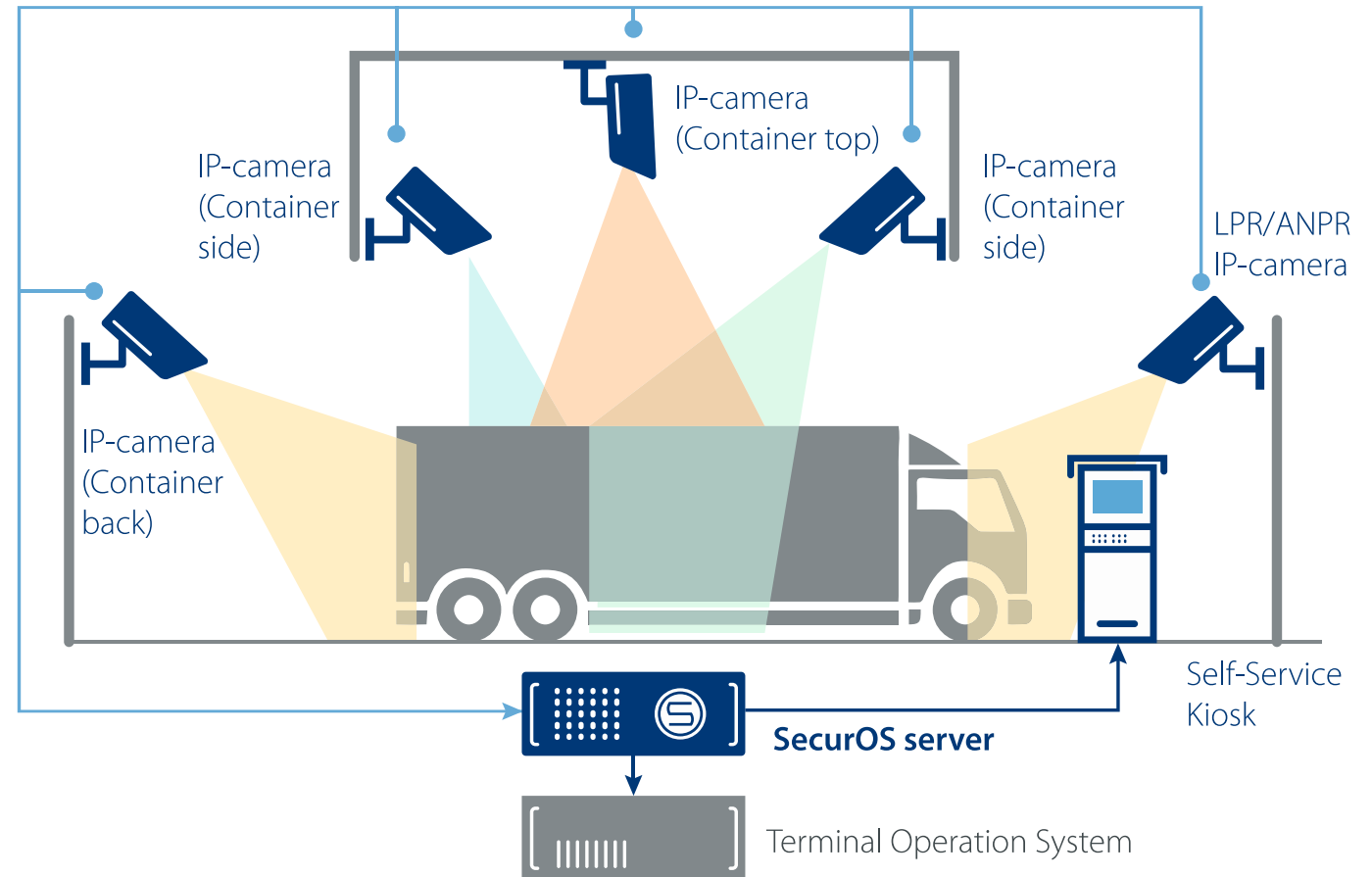
VISUAL INSPECTION AND AUTOMATION OF TERMINAL GATES SYSTEMS

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:

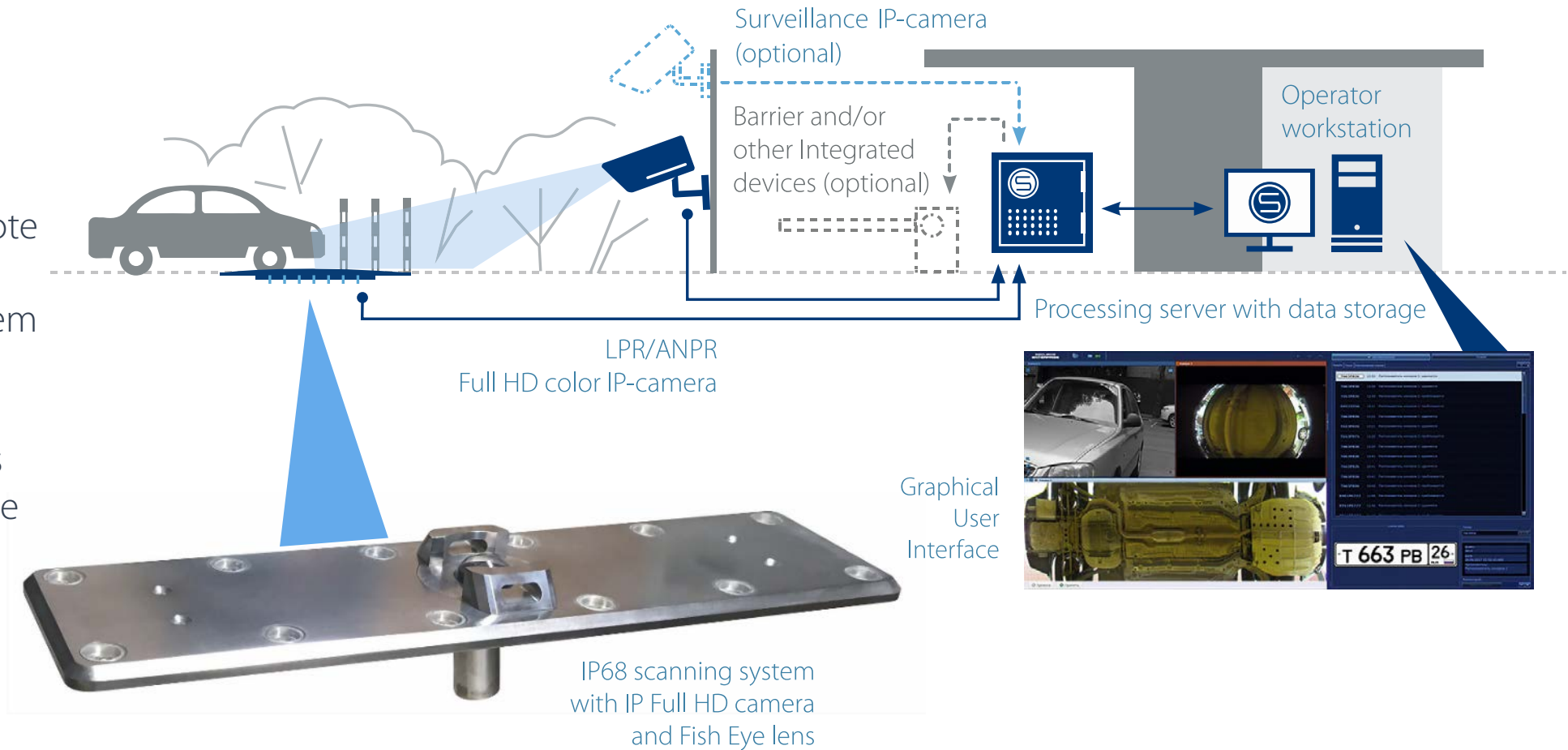
- ISO Container images for visual inspection
- ISO container number, Size and type code, Kemler, IMDG, ILU
- License plate of a truck
- RTSP video stream and ASF/AVI video clips



UNDER VEHICLE SURVEILLANCE SYSTEM

SecurOS Flatimus

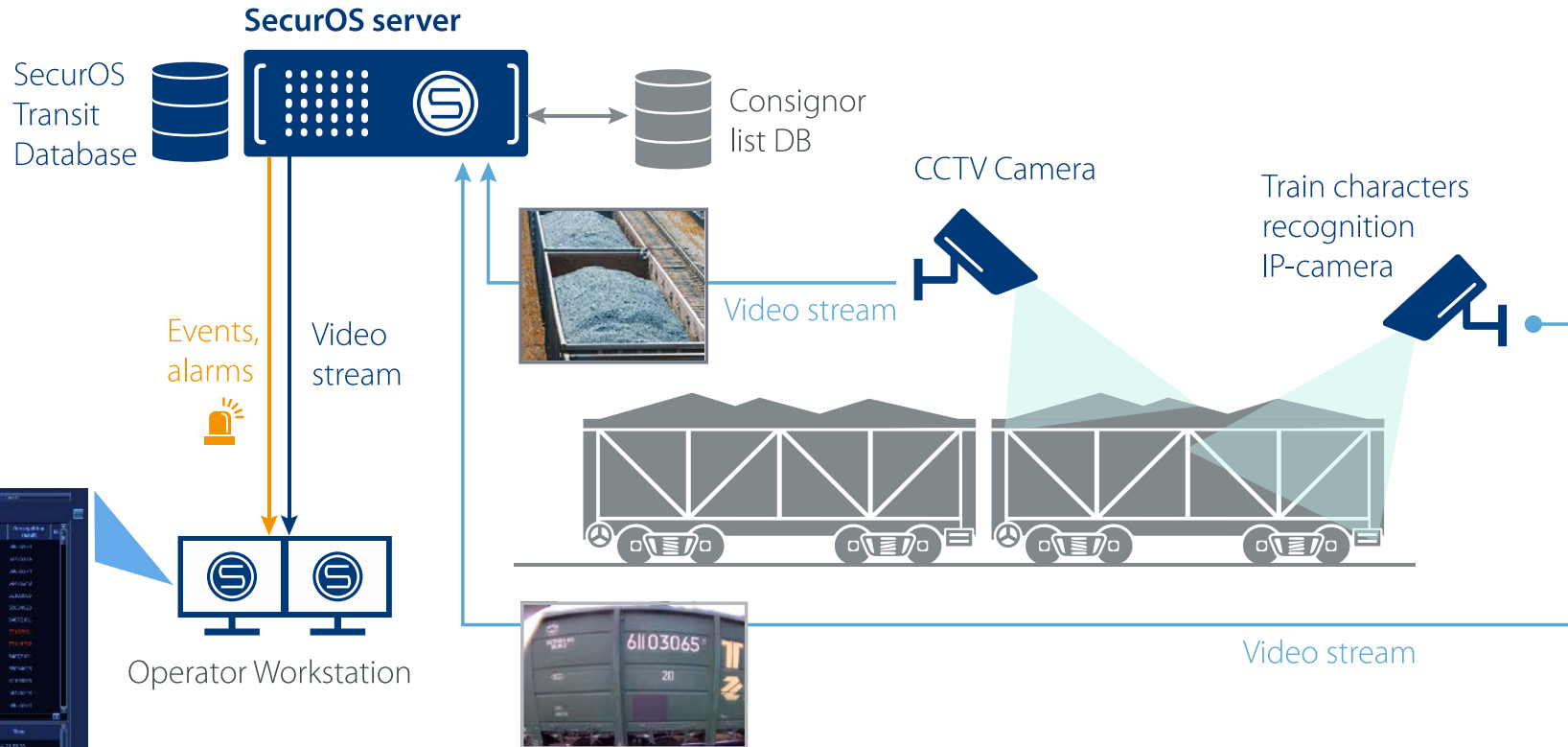
SecurOS Flatimus is a hardware-software based system of remote under-vehicle surveillance. The system creates a database of high-resolution undercarriage images and recognizes vehicle license plates.



RAILWAY CARS NUMBER RECOGNITION AND REGISTRATION

SecurOS Transit

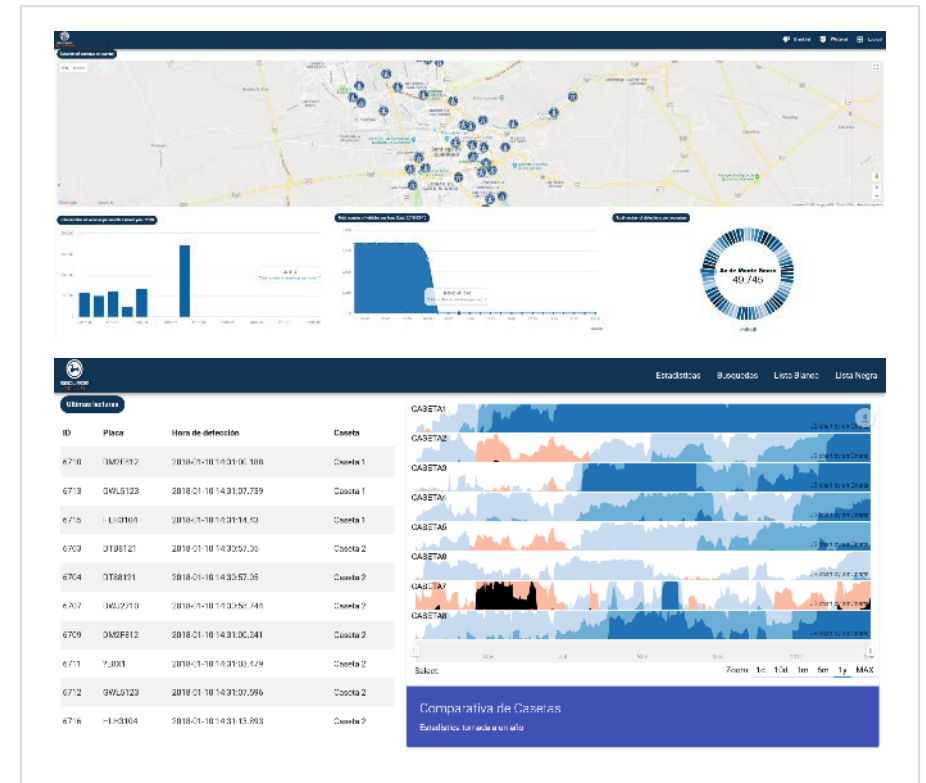
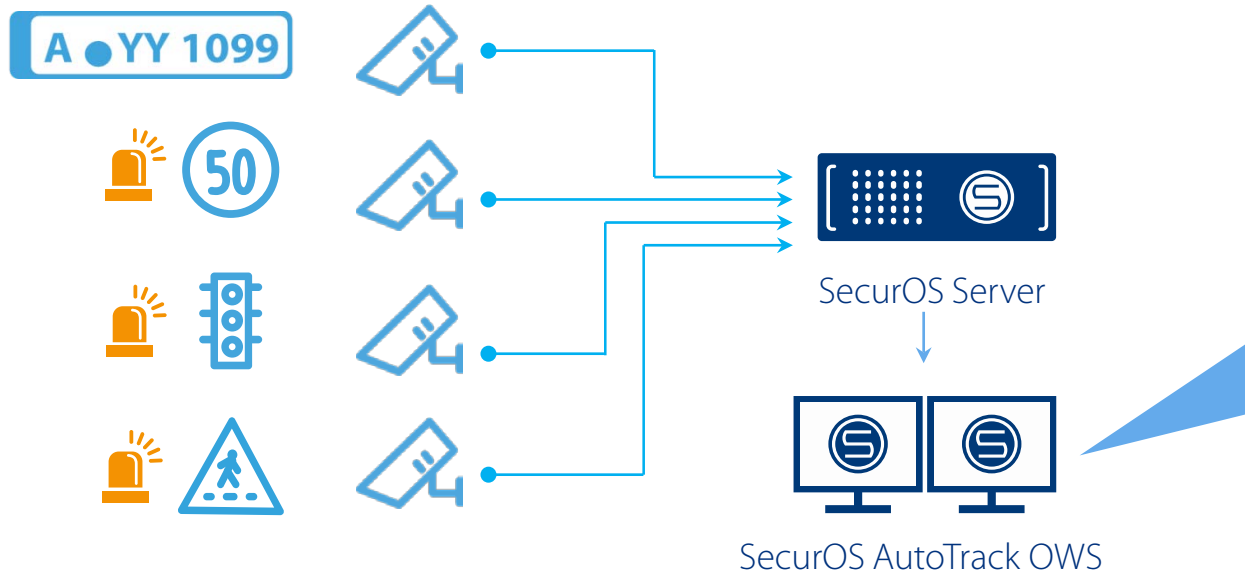
SecurOS Transit is an effective software solution for registration of train cars, tankers, and platforms at the shunting-yards, customs terminals, railroad hubs, industrial enterprises, warehouses, etc.



BUSINESS INTELLIGENCE FOR ITS AND LAW ENFORCEMENT

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.

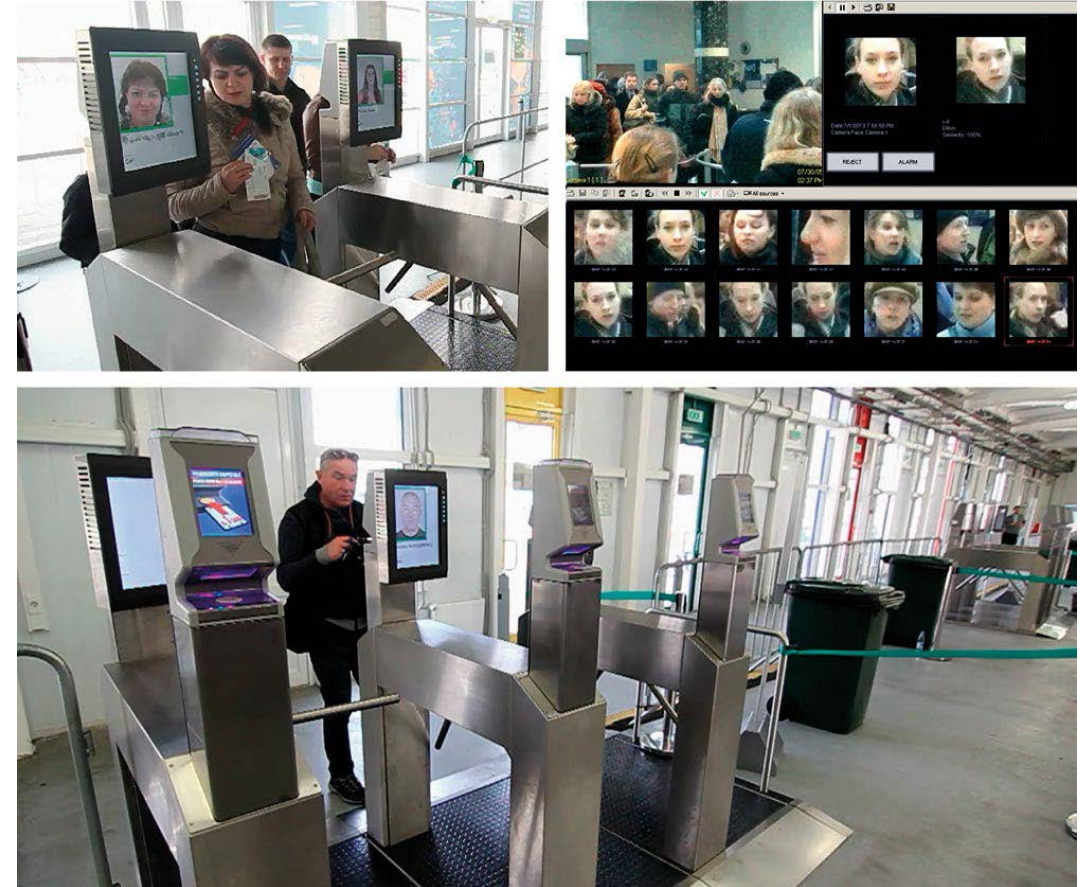


FACE CAPTURE & RECOGNITION

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.

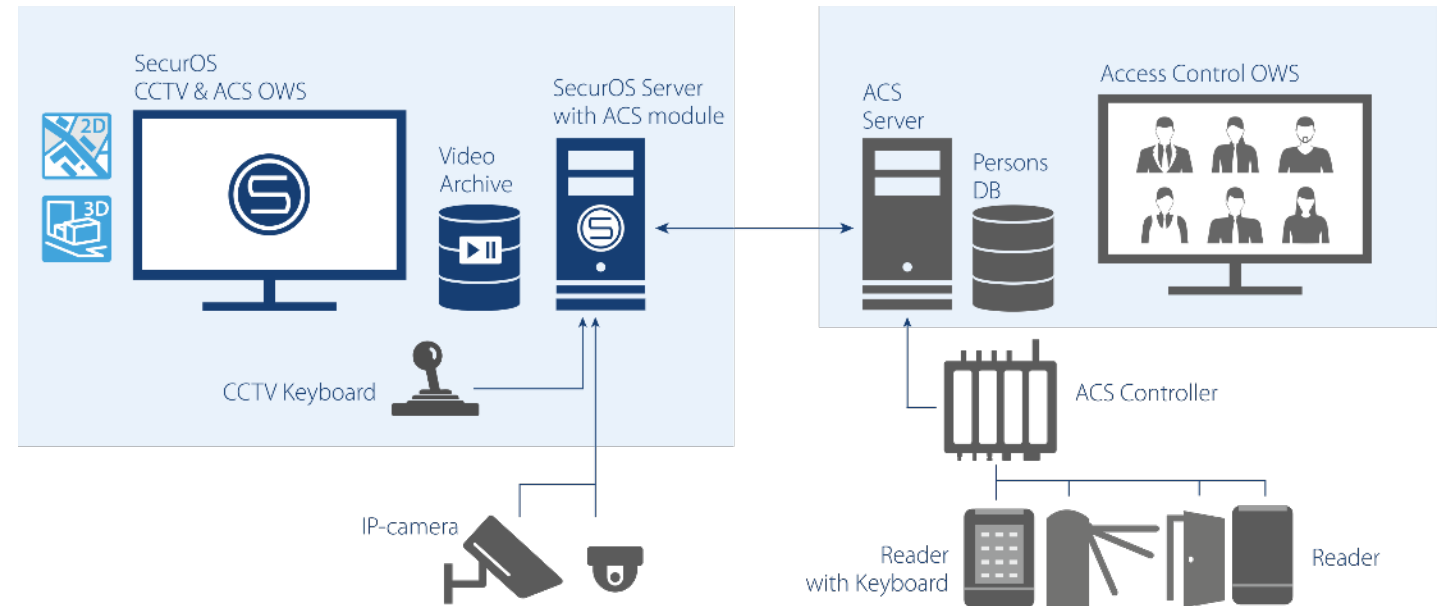
The reason for such a high level of accuracy has to do with the background of ISS in image analytics technology, and the related expertise with advanced algorithms, which then identifies and matches an individual's specific features with relentless attention to every detail.



ACCESS CONTROL SYSTEM

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

POS & ATM TRANSACTION MONITORING 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.

The screenshot displays the SecurOS POS interface. On the left, four video feeds show different camera angles of a retail store. On the right, there are two tables of transaction data and a summary section.

Table 1: Transaction Log

Чек	Время	Артикул	Название про...	Кол...	Сумма
9	16 май 2008 18:55:25	315738	Мороженое М...	1,00	17,70
8	16 май 2008 18:55:28	383089	Соль Йодиров...	1,00	4,50
10	16 май 2008 18:55:29	209327	Пиво Бранс ов...	1,00	32,50
9	16 май 2008 18:55:30	319792	Горчица зерн...	1,00	33,20
8	16 май 2008 18:55:31	315284	Наталки К-10 ...	1,00	17,60
10	16 май 2008 18:55:31	317061	Сливки сухие ...	1,00	29,20
10	16 май 2008 18:55:33	315284	Наталки К-10 ...	1,00	-17,60
10	16 май 2008 18:55:33	315284	Наталки К-10 ...	2,00	35,20
10	16 май 2008 18:55:36	30620	Шпроты в мас...	1,00	23,00
10	16 май 2008 18:55:38	30620	Шпроты в мас...	1,00	-23,00
10	16 май 2008 18:55:38	30620	Шпроты в мас...	2,00	46,00
11	16 май 2008 18:56:17	314705	Меню вода Пил...	1,00	15,80
11	16 май 2008 18:56:19	321784	Муха Степная...	1,00	46,20
11	16 май 2008 18:56:26	386330	Роллы Русские...	1,00	19,00
11	16 май 2008 18:56:31	317464	Фарш свиной ...	0,67	150,83
12	16 май 2008 18:56:33	373869	Водка Черная...	1,00	386,30
11	16 май 2008 18:56:36	321699	Груша Бер Бо...	0,31	25,23
12	16 май 2008 18:56:37	370275	Конверт почт...	1,00	12,80
12	16 май 2008 18:56:38	319479	Открытка, шт	1,00	15,40
11	16 май 2008 18:56:41	318231	Салат Фаворит...	0,12	58,56

Table 2: Terminal Summary

Терминал	Чек	Время начала	Время окон...	Сумма
3	1	16 май 2008 ...	16 май 2008 ...	25,90
1	2	16 май 2008 ...	16 май 2008 ...	133,66
2	3	16 май 2008 ...	16 май 2008 ...	0,00
1	4	16 май 2008 ...	16 май 2008 ...	23,80
4	5	16 май 2008 ...	16 май 2008 ...	27,60
1	6	16 май 2008 ...	16 май 2008 ...	90,49
4	7	16 май 2008 ...	16 май 2008 ...	80,50
1	8	16 май 2008 ...	16 май 2008 ...	195,35
4	9	16 май 2008 ...	16 май 2008 ...	95,30
3	10	16 май 2008 ...	16 май 2008 ...	113,70
3	11	16 май 2008 ...	In progress...	
1	12	16 май 2008 ...	In progress...	

Summary Section:

Терминал: 3
Кассир:
Чек: 11

Продажа:
Товар: Салат Фаворит...
Артикул: 318231
Количество: 0.122
Скидка: 0.0
Сумма: 58,56

SITUATIONAL AWARENESS VIDEO ANALYTICS

SecurOS Tracking Kit III (SecurOS Computer Vision subsystem)

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



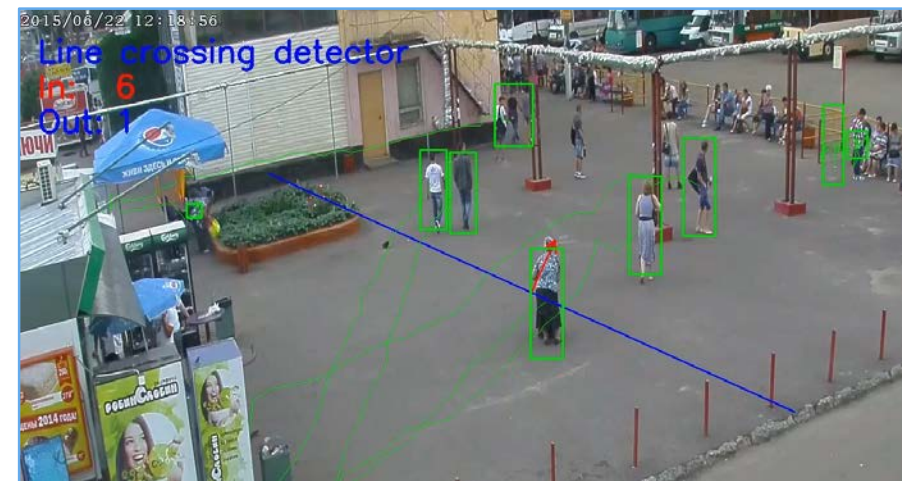
Line Crossing
Detector



Wrong
Direction
Detector



Smoke
Detector

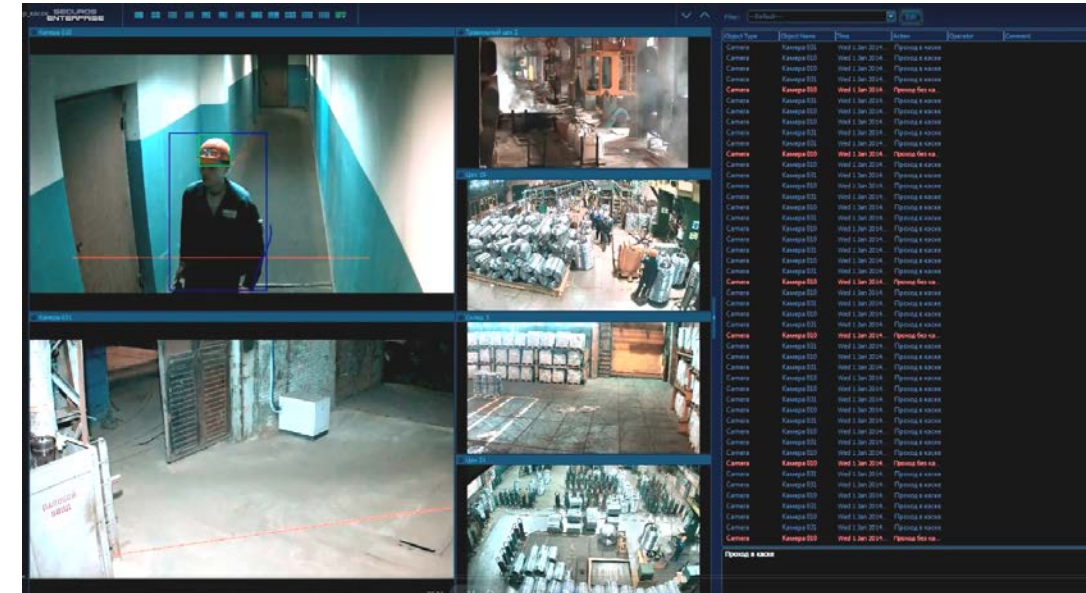


NON-HELMET DETECTOR (VIDEO ANALYTICS)

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.

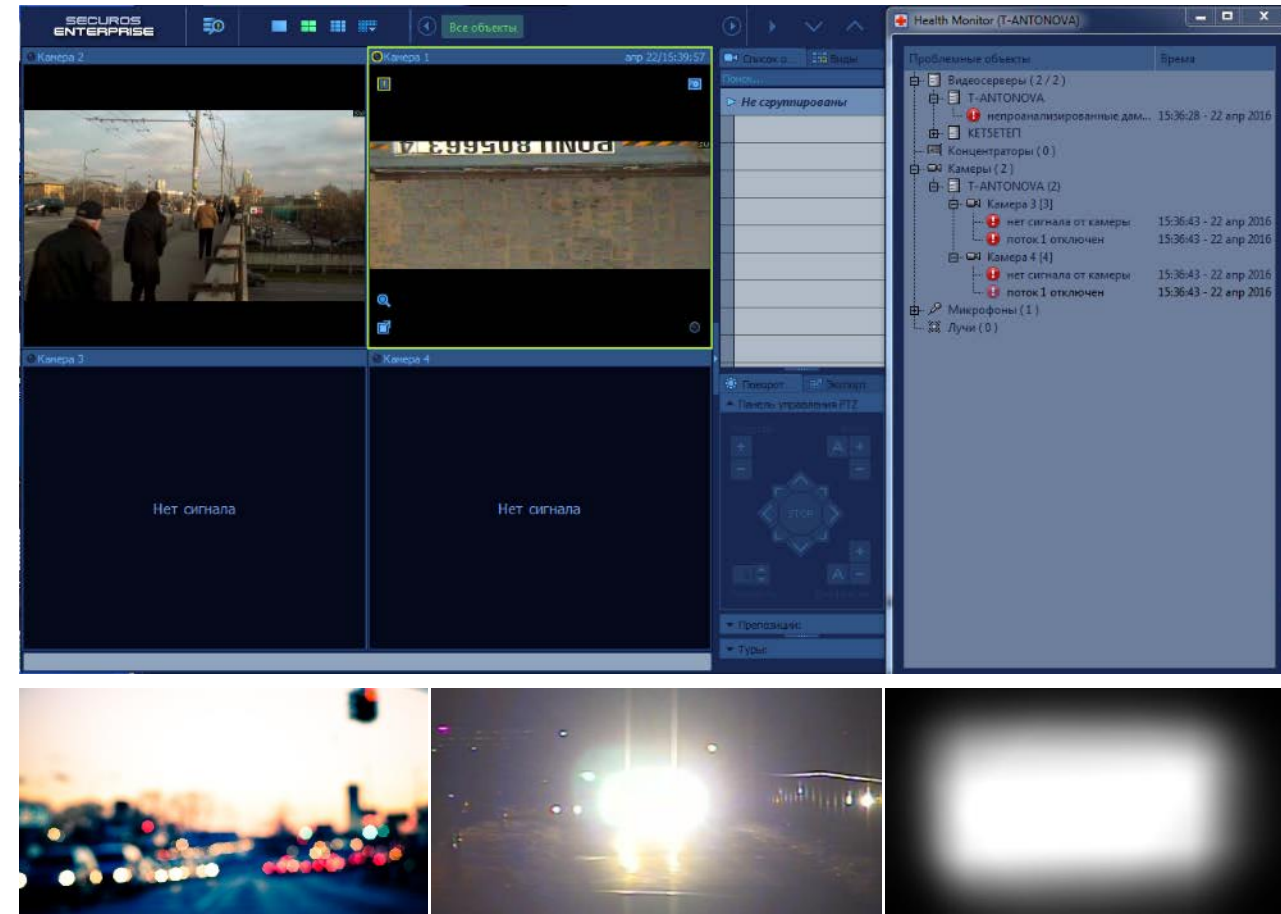


SERVICE VIDEO ANALYTICS

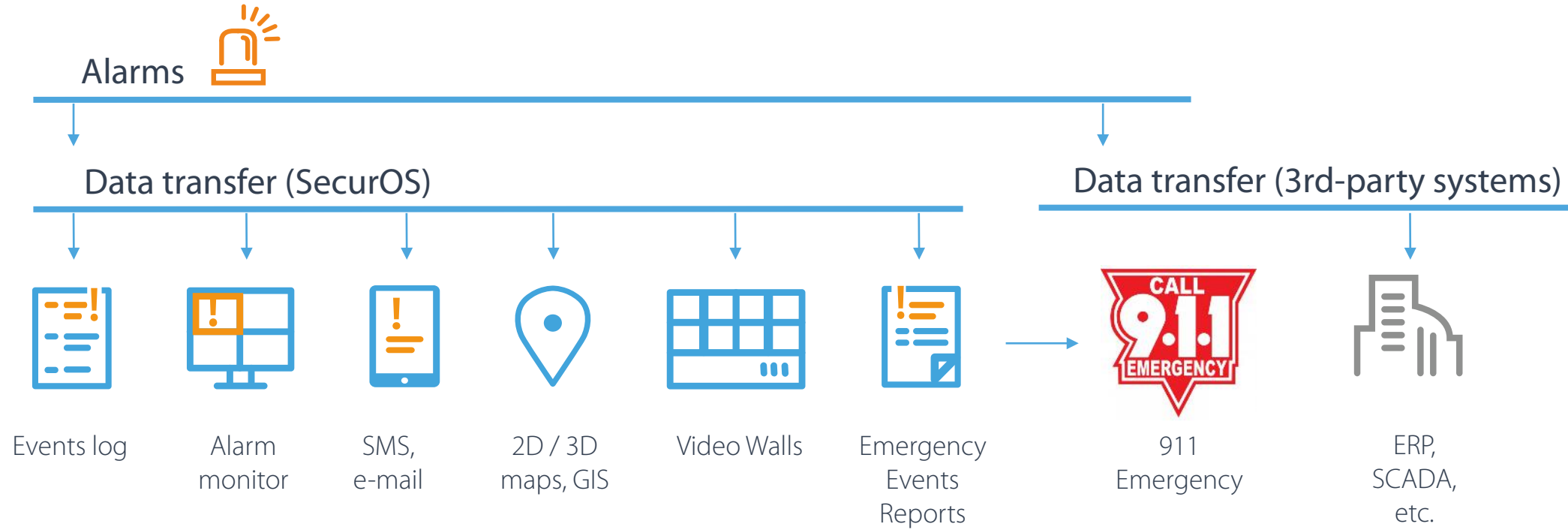
SecurOS Camera Health

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 sharpness 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



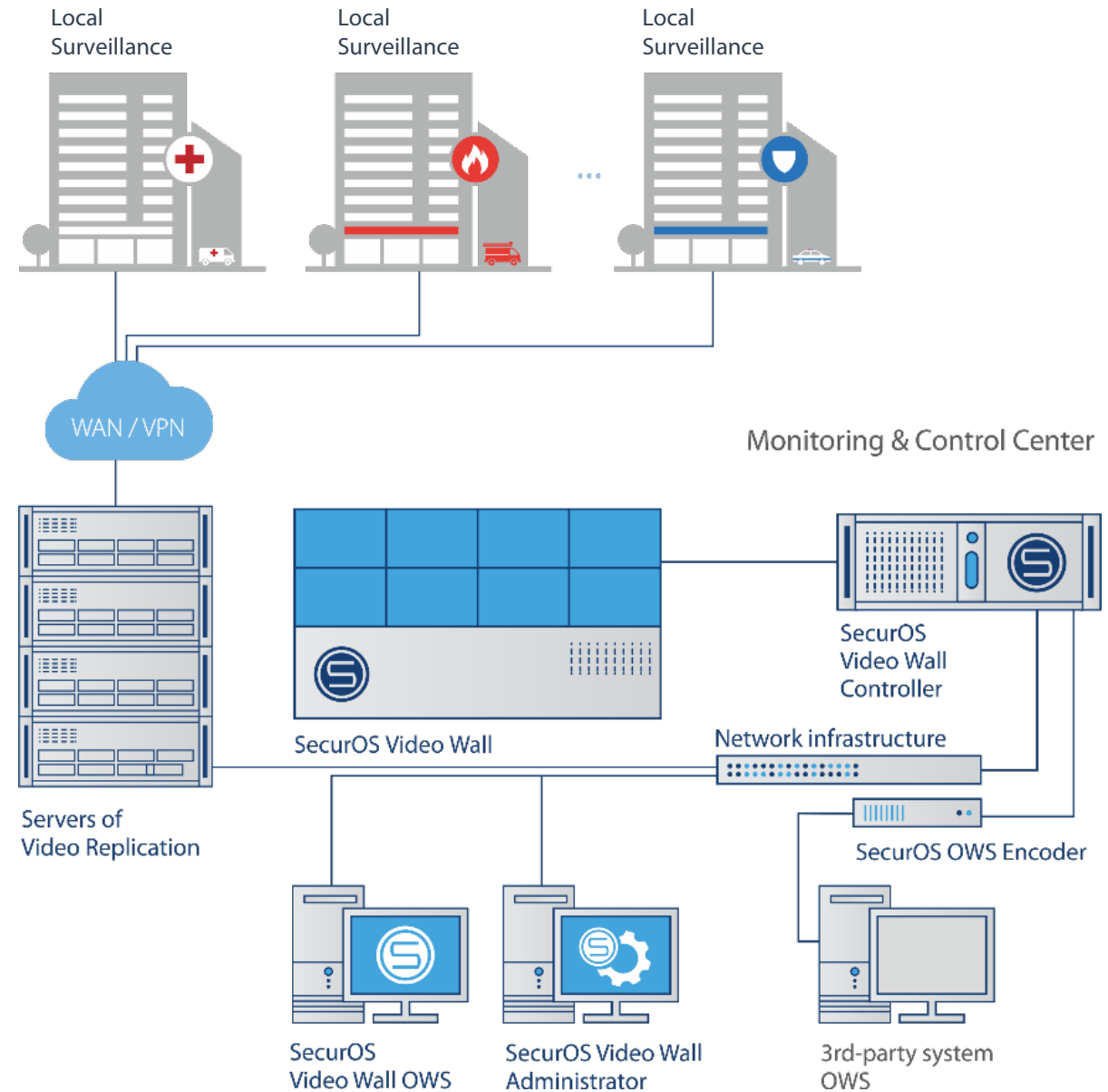
ISS advanced integration capabilities allow to develop integrated solutions based on video management platform, including a number of additional subsystems (video analytics, event processing, GIS, "911", etc.) and hardware (terminals "Citizen-Police", acoustic, chemical and radiation sensors, systems, Fire Alarm, etc.).

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.

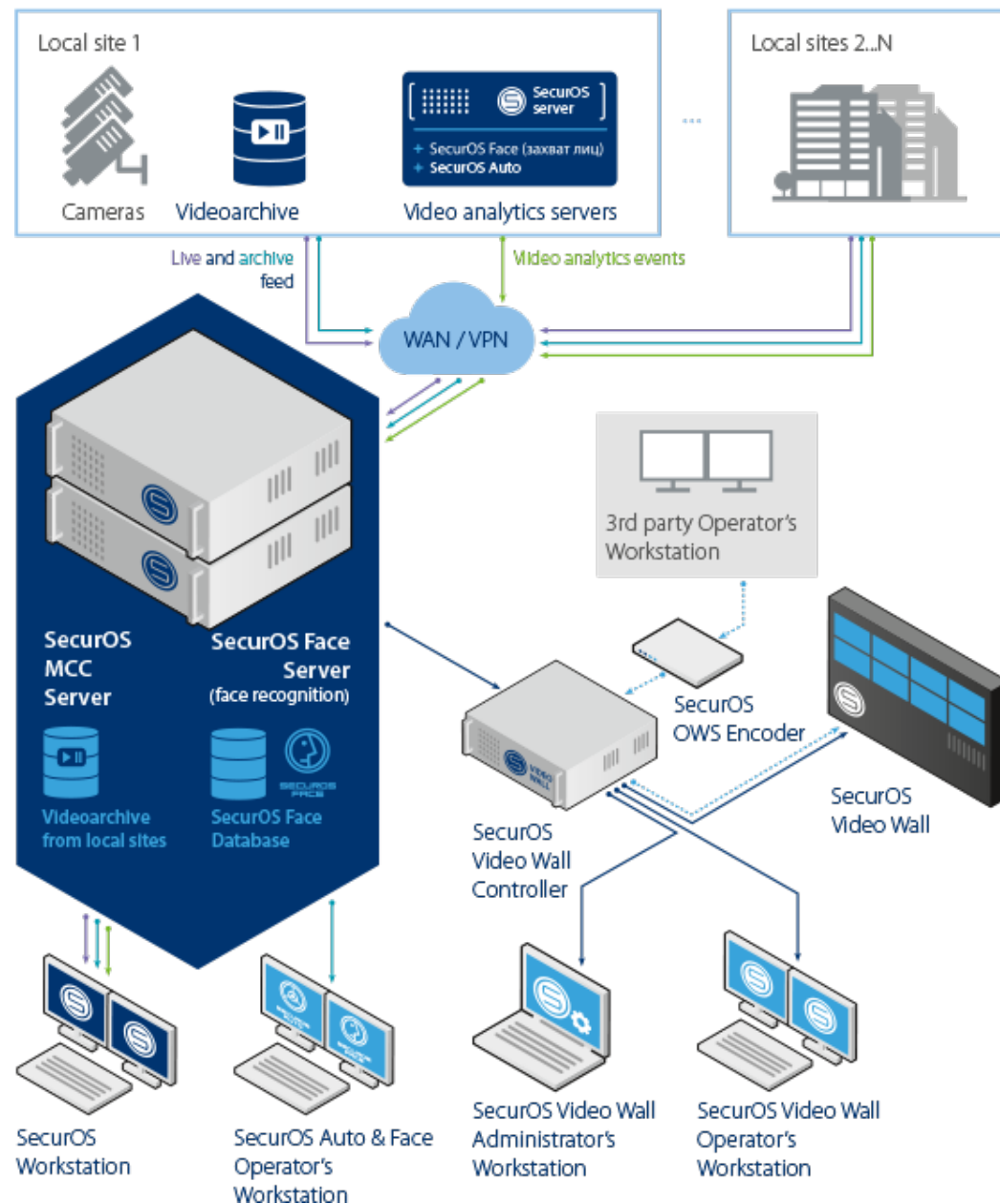


MONITORING & CONTROL CENTER

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

Designed to provide effective operation of the joint supervisory service, including situational monitoring and management of CCTV remote security services.

SecurOS IVS VideoWall is a hardware-software based solution consists of

- Professional LED panels mounted in specially designed floor bracket
- SecurOS IVS VideoWall Controller which uses high density graphic cards. One SecurOS IVS VideoWall Controller supports up to 16 LED panels by grouping them into a unified display platform
- A software SecurOS VMS component to easily manage content for the display platform



MOBILE APPLICATION FOR IOS AND ANDROID DEVICES

SecurOS Mobile

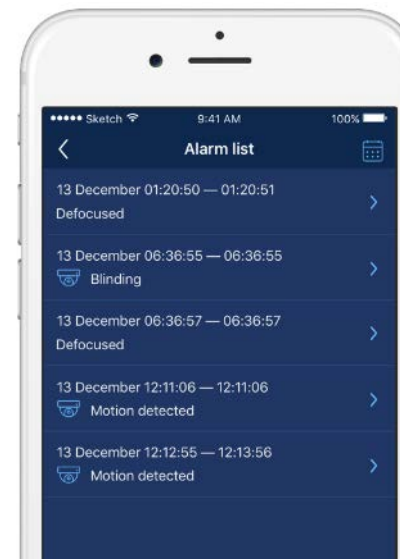
SecurOS Mobile is a mobile client for SecurOS VMS which gives security personnel capabilities to monitor video and control cameras on their mobile phones and tablets (iOS and Android). Operators can easily access live video streams, playback video archive, monitor video analytics events and other types of alarms over Wi-Fi or 3G/4G networks.

SecurOS Mobile can be download on the App Store and the Google Play

Set up access and save credentials for multiple SecurOS systems

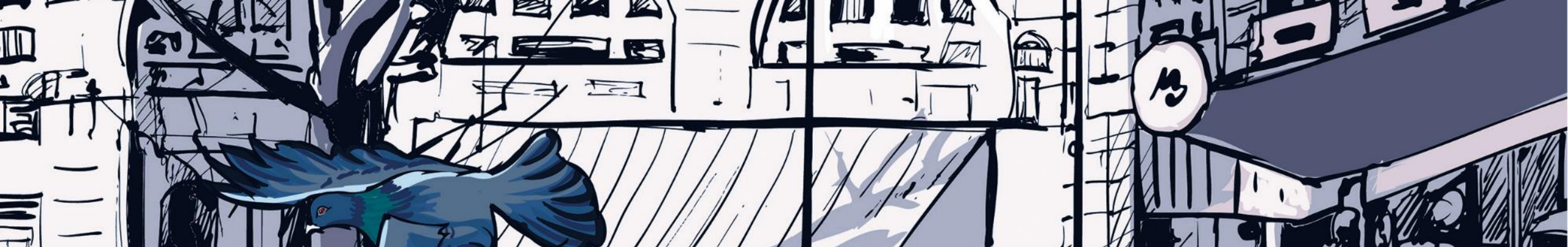


Review alarms



Playback up to 4 cameras simultaneously in various speed





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<https://en.iss.ru/>

