



Safe City

ISS ADVANCED SOFTWARE-HARDWARE BASED SOLUTIONS



ISS NATIVE TECHNOLOGIES AND EXPERIENCE

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ISS is the leading developer of subsystems integrated in «Safe City» solution: Video Surveillance, Video Analytics, Automated Traffic Violations Detection, and Monitoring & Control Centers.

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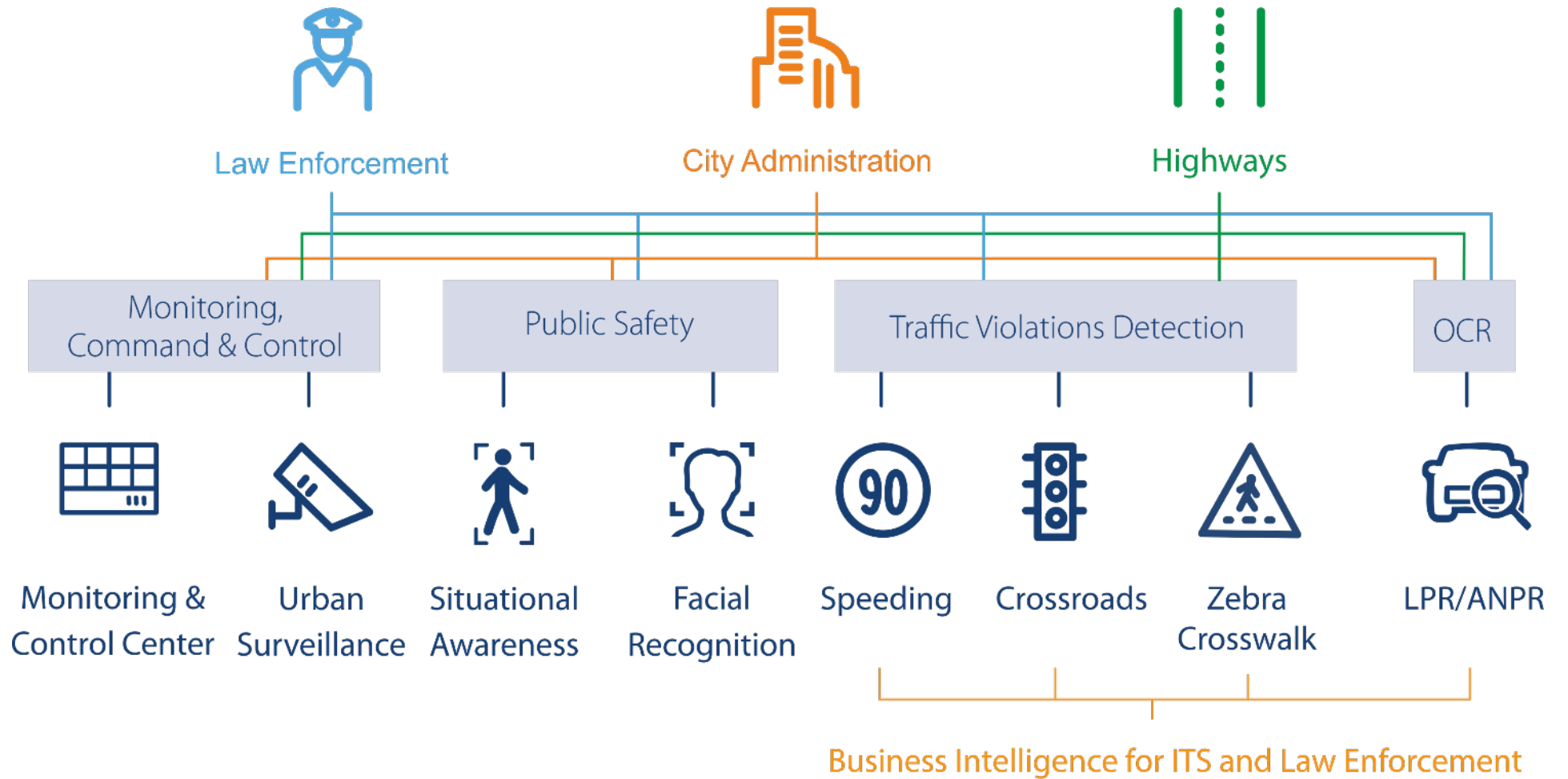
ISS products and solutions enable to provide a successful achievement of main operational and strategic city security tasks.

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ISS constantly enhance its solutions to meet all relevant market requirements and particular demands of customers.



FOCUS ON LARGE MISSION CRITICAL APPLICATIONS SECURITY SYSTEMS

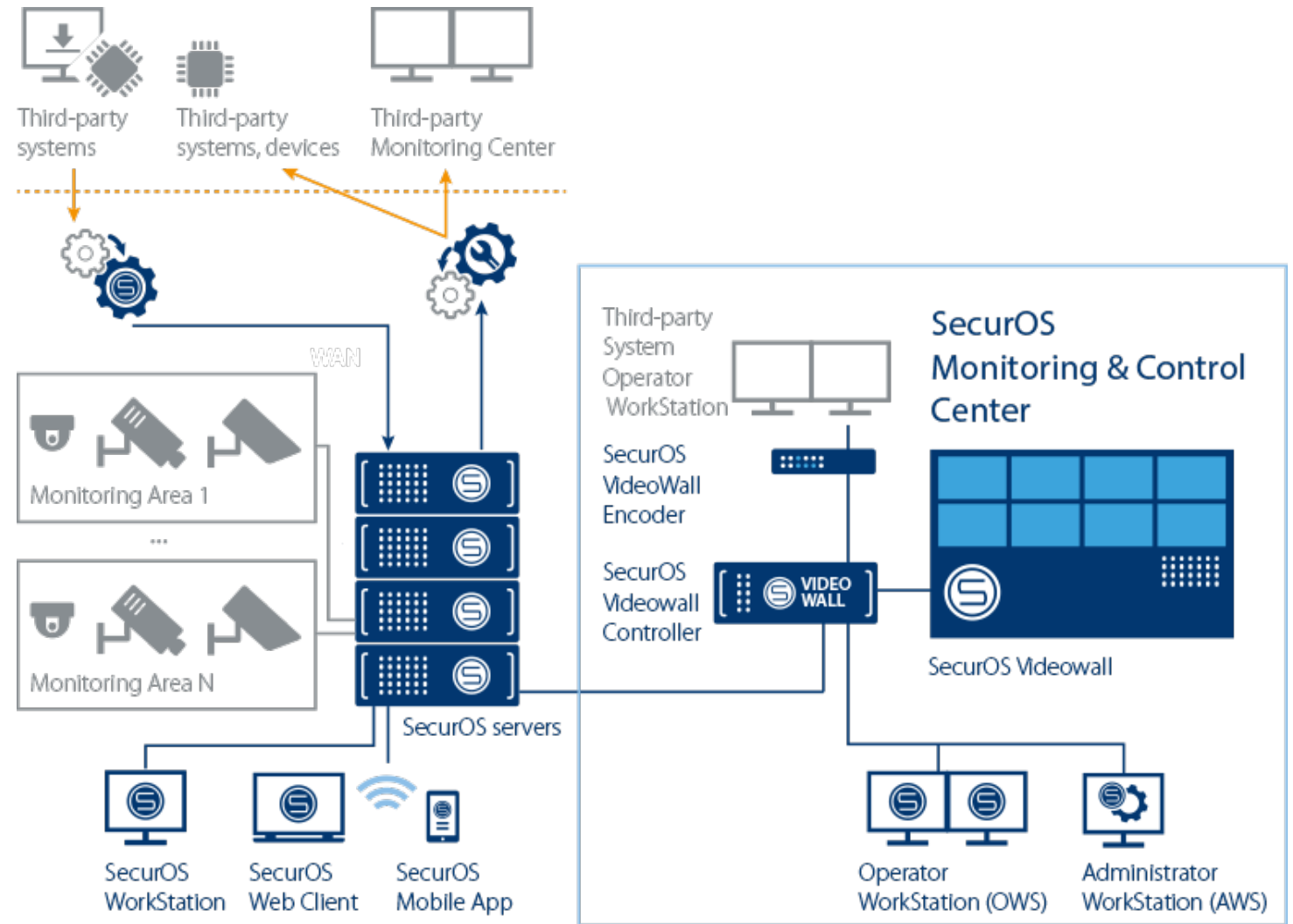


VIDEO SURVEILLANCE



SECUROS

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



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



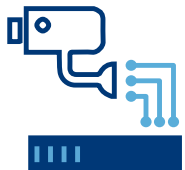
All devices, objects, cameras, systems, and even users, macros, and scripts can be individually managed and have multi-level permissions based on login



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

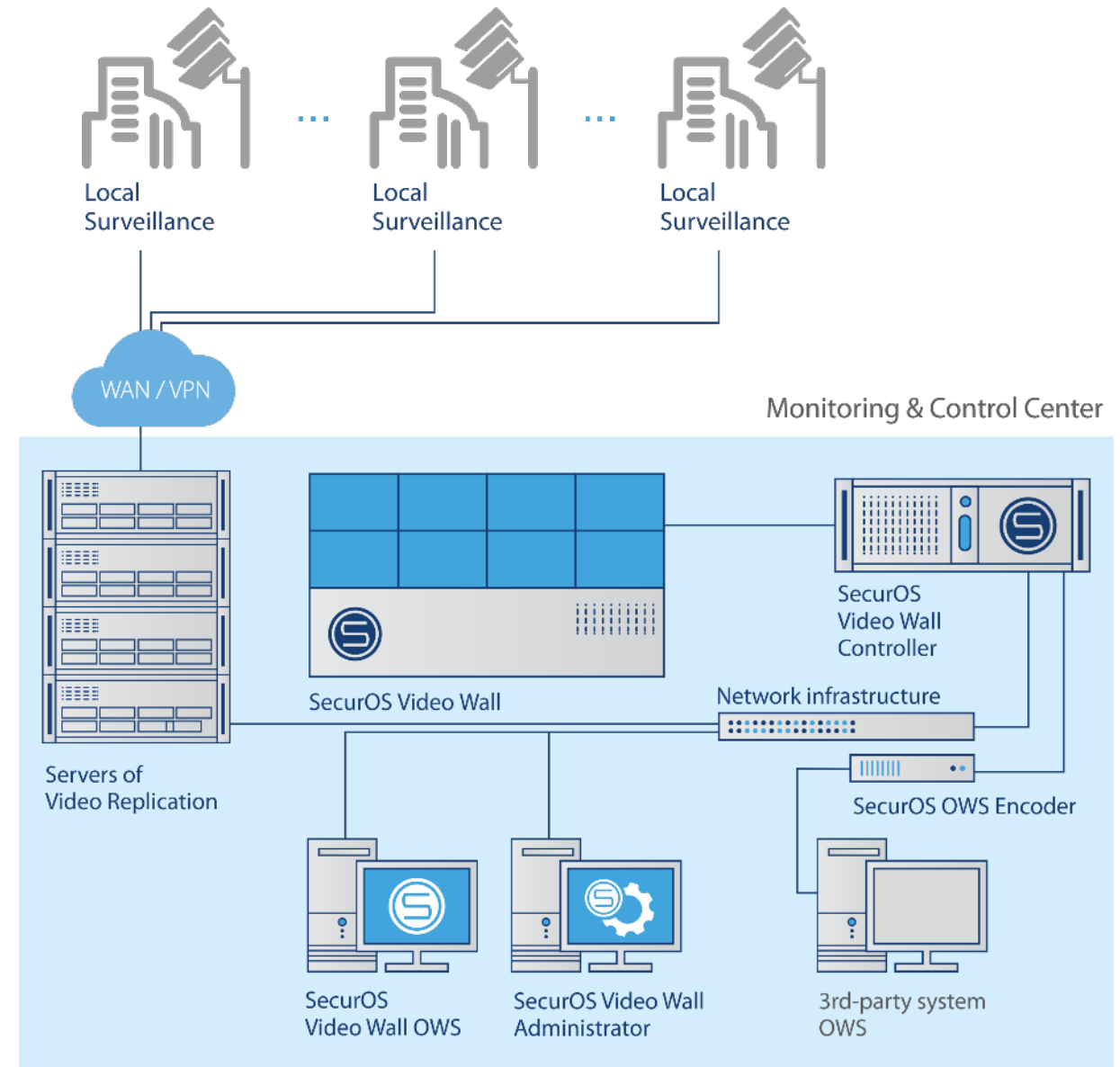
MONITORING & CONTROL CENTER

SecurOS MCC

SecurOS MCC provides the global monitoring and management of a complete remoted security infrastructure of all localities (as if they were part of a single virtual system) from a single command center.

It designed for Authorities who have to monitor the situation in multiple geographical disparate localities.

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



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
- SecurOS software component to easily manage content for the display platform

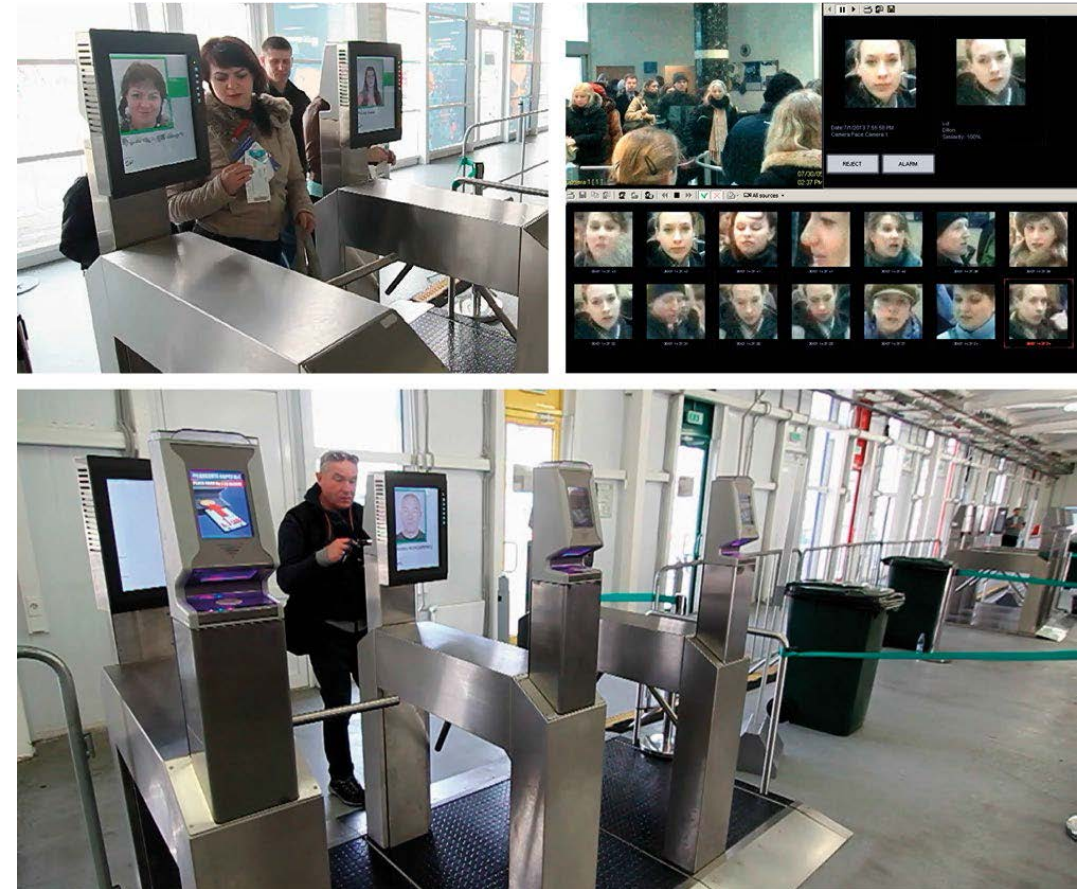


FACE CAPTURE & RECOGNITION

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.



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



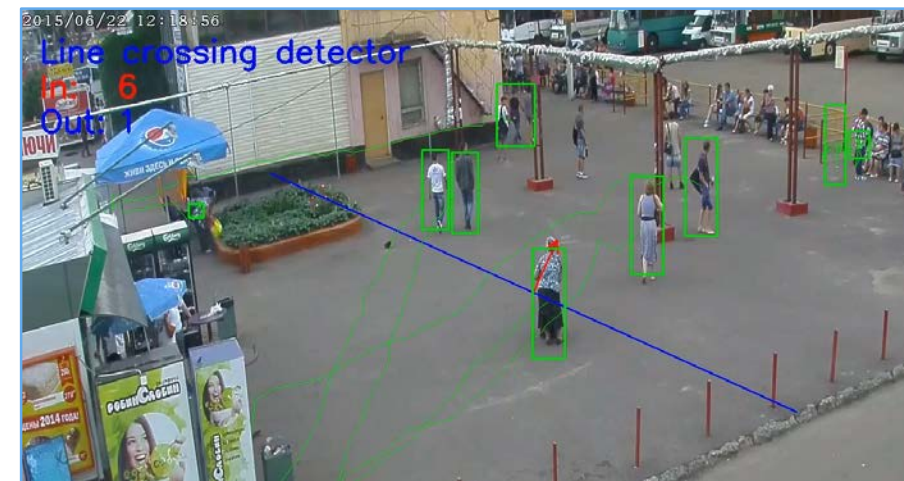
Line Crossing Detector



Wrong Direction Detector



Smoke Detector



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
	Australia&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

Specialized Turnkey Solution for LPR/ANPR

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 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

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).

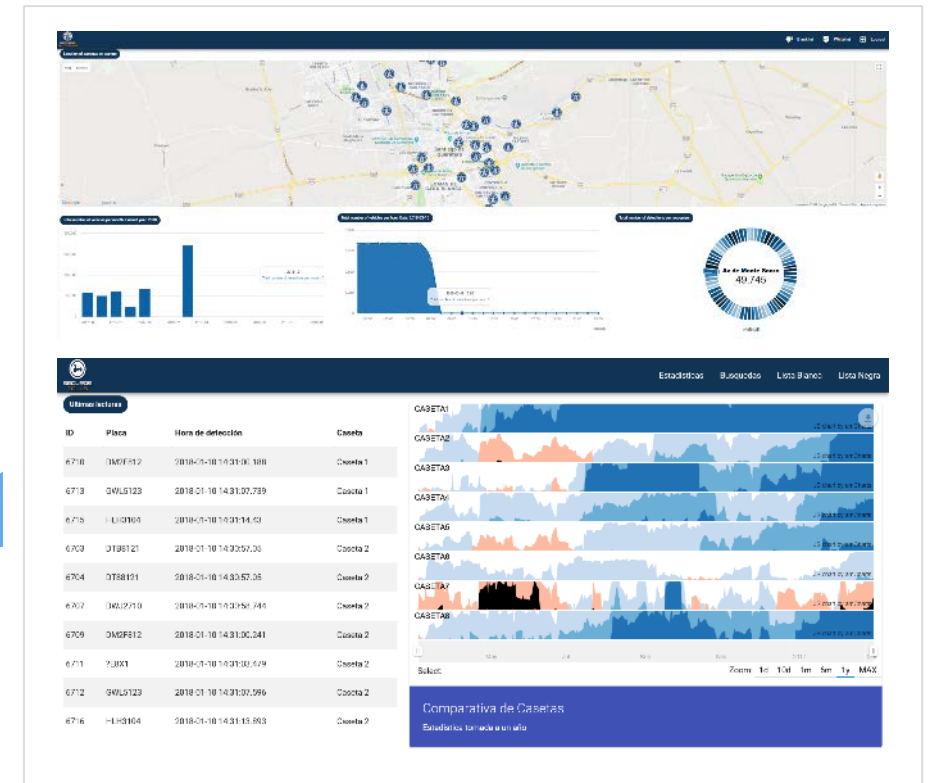
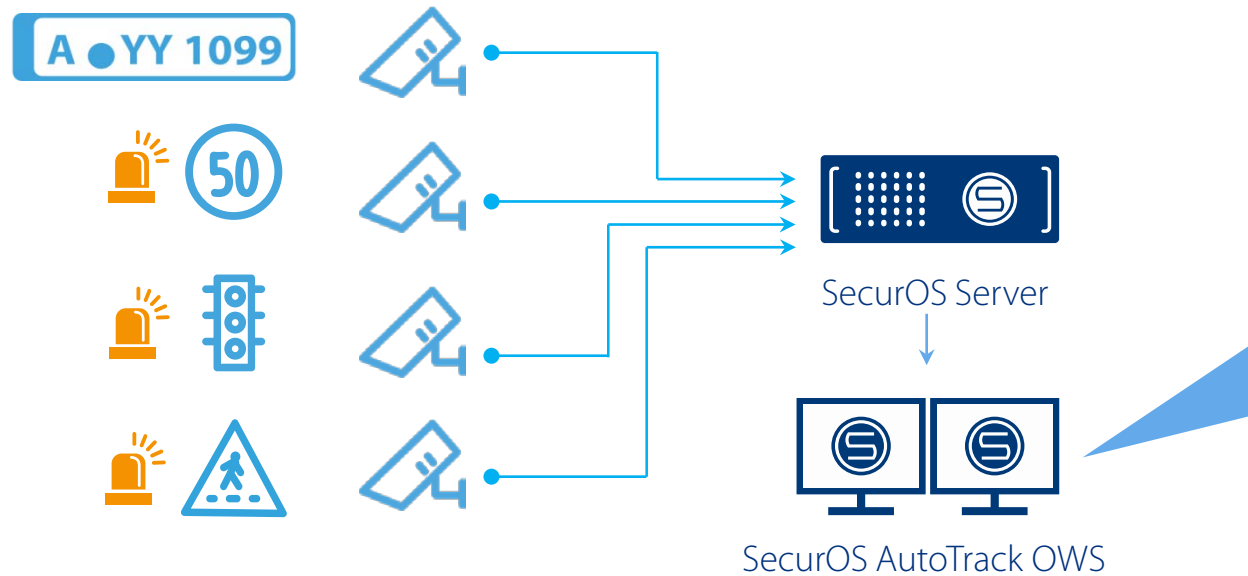
SecurOS Crossroad automatically detects a wide range of Traffic Violations at a crossroads including a violation failure to give way to pedestrians at zebra crosswalks.



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.

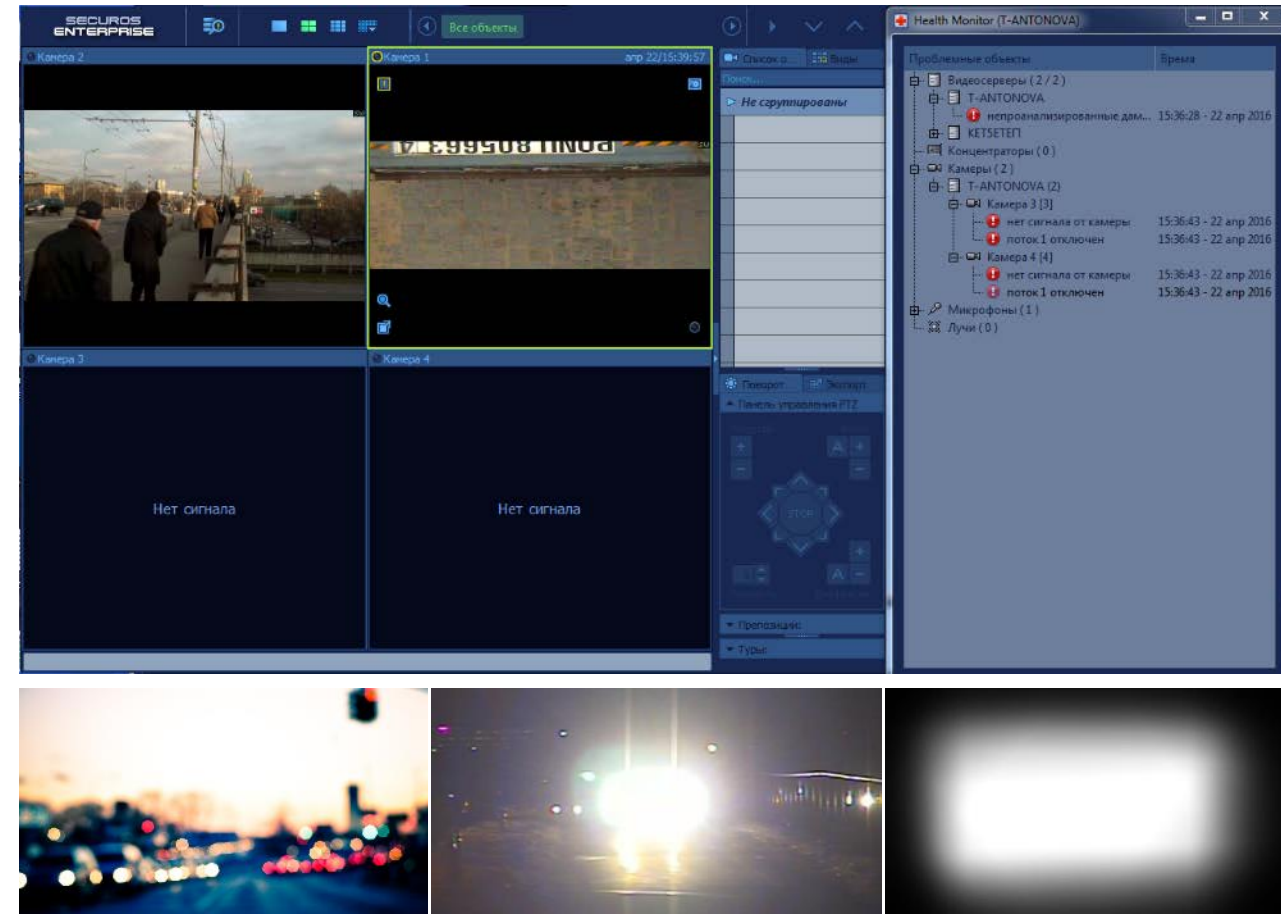


SERVICE VIDEO ANALYTICS

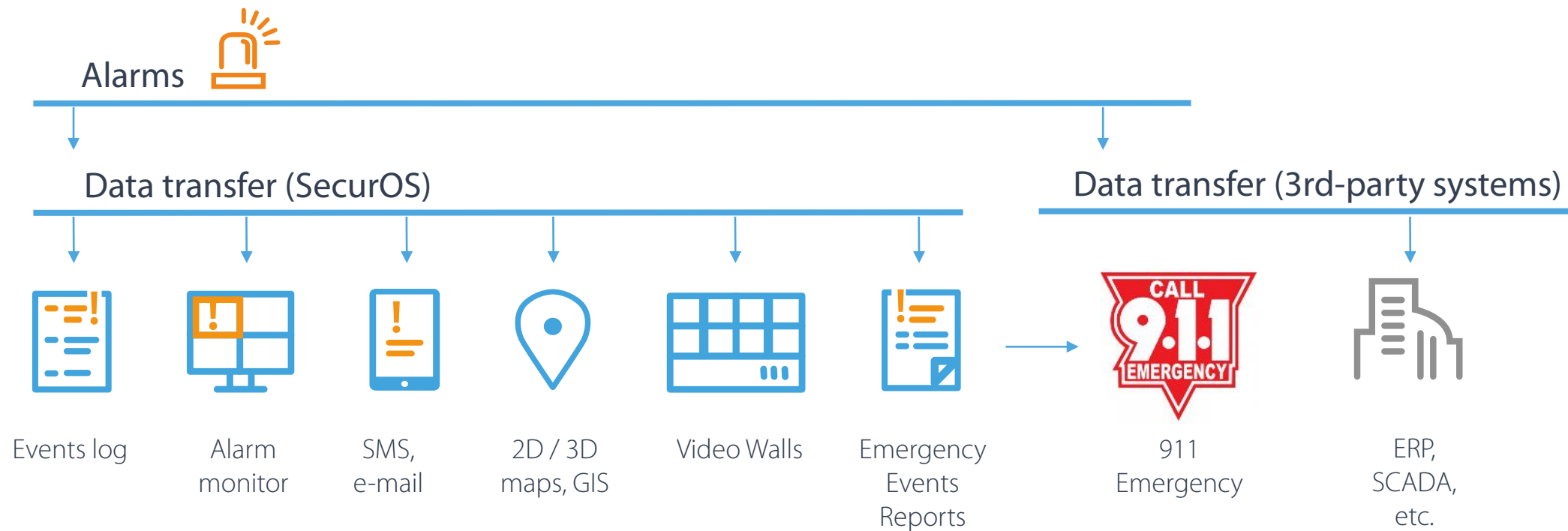
SecurOS Camera Health

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.).

KEY REFERENCES

Safe Cities (worldwide)

- Lima (Peru)
- Cancun (Mexico)
- Recife (Brazil)
- Santiago (Brazil)
- Olympic facilities of Rio de Janeiro (Brazil), and others.

Safe regions (RF)

- Kaliningrad region
- Vologda Region
- Arhangelsk region

Safe Cities (RF)

- Rostov
- Saransk
- Voronezh
- Penza
- Saratov
- Nizhny Tagil
- Astrakhan
- Nyagan
- Yugorsk
- Naryan-Mar
- Salekhard
- Tarko-Sale
- Anadyr
- Moscow urban and transport infrastructure



REFERENCES | Safe City Recife, Brazil



- Multi-agency solution
- 12,000 cameras in total
- License Plate Recognition
- Multiple monitoring centers
- Expansion of current city project into entire state

Recife is the fourth-largest urban agglomeration in Brazil with 3,995,949 inhabitants, the largest urban agglomeration of the North/Northeast Regions, and the capital and largest city of the state of Pernambuco in the northeast corner of South America.

REFERENCES | Safe City Guatemala, Guatemala



- City wide surveillance - 6,000+ cameras
- SecurOS Auto (LPR/ANPR) - 300 channels
- SecurOS Face - Face Recognition
- 14 Petabytes of Video Storage
- Command and Control Center
- 3rd party integrations
- Open Platform
- VMS Capabilities

Guatemala City is the capital and largest city of the Republic of Guatemala, and the most populous in Central America. In 2012, it had a population of 2,110,100.

REFERENCES | Safe City Asunción, Paraguay



- City wide surveillance cameras
- License Plate Recognition
- Wireless Transmission
- Long Term Storage
- Police Station Access
- Integrated Video/Audio
- Safe Community

Asunción is the capital and largest city of Paraguay. The Asunción metropolitan area has around two million inhabitants. It is one of the oldest cities in South America and the longest continually inhabited area in the Río de la Plata Basin.

REFERENCES | Safe City Montevideo, Uruguay



- City wide surveillance cameras (800 cameras installed) 35% Analytics.
- Briefcam Integration.

Montevideo is the capital and largest city of Uruguay. According to the 2011 census, the city proper has a population of 1,319,108 (about one-third of the country's total population) in an area of 201 square kilometers (78 sq mi).

REFERENCES | Safe Region Kaliningrad Oblast, Russia



- CCTV monitoring - Urban Surveillance for 5 cities and towns of Kaliningrad region
- Traffic Violations detection
- Situation awareness analytics
- Service analytics
- Monitoring and Control Center

Kaliningrad Oblast is a federal subject of the RF that is located on the coast of the Baltic Sea. According to the 2010 census, it had a population of 941,873.

REFERENCES | Rio de Janeiro, Brazil (for «Rio 2016» - the 2016 Summer Olympics)

GALEÃO AIRPORT



- 2,140 Axis & Bosch cameras
- Access Control Integration
- SecurOS Auto (LPR)
- SecurOS Enterprise
- Failover
- Barco Video Wall
- Virtualized System

PORTO NOVO



- 176 Pelco & Axis cameras
- Traficon Integration ISS Smart Video Wall
- Virtualized System
- SecurOS Enterprise

LAMSA - Linha Amarela



- 220 Axis & Pelco cameras
- SecurOS Enterprise
- Barco Video Wall Integration
- Virtualized System
- Integration w/ Height Detection Sensor
- Command Center



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