

SecurOS Edge AUTO

A special integrated solution for License Plate Capture and Recognition (LPR/ANPR) based on Axis IP-cameras



SecurOS Edge AUTO 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.

The SecurOS Edge AUTO solution includes an embedded camera module which runs on ACAP (Axis Camera Application Platform). The module takes advantage of the Axis Edge storage feature, SecurOS EdgeStorage Sync, and the SecurOS AUTO* server-side module.

* See more about SecurOS AUTO at <http://isscctv.com/products/auto/>

Technology Overview

Software Based Vehicle Detection

Built-in license plate detection algorithms so ground loops / sensors are not required to detect a vehicle.

ISS Native Technology

SecurOS Edge AUTO is a completely ISS native technology with frequent updates of new plates.

Advanced Recognition Engine

Template-based algorithms result in more accurate recognition.

International Plates Support

Recognizes license plates from US and most other countries.

Integrated with SecurOS VMS

Seamlessly works with SecurOS VMS as well as other SecurOS Analytics modules.

Applications

- Temporary transport monitoring of construction sites
- Automation of parking installations
- Parking enforcement
- Border customs control
- Mobile onboard surveillance
- Border control installations
- Other alike applications, especially with limited network connectivity



**SECUROS
PREMIUM**



**SECUROS
ENTERPRISE**

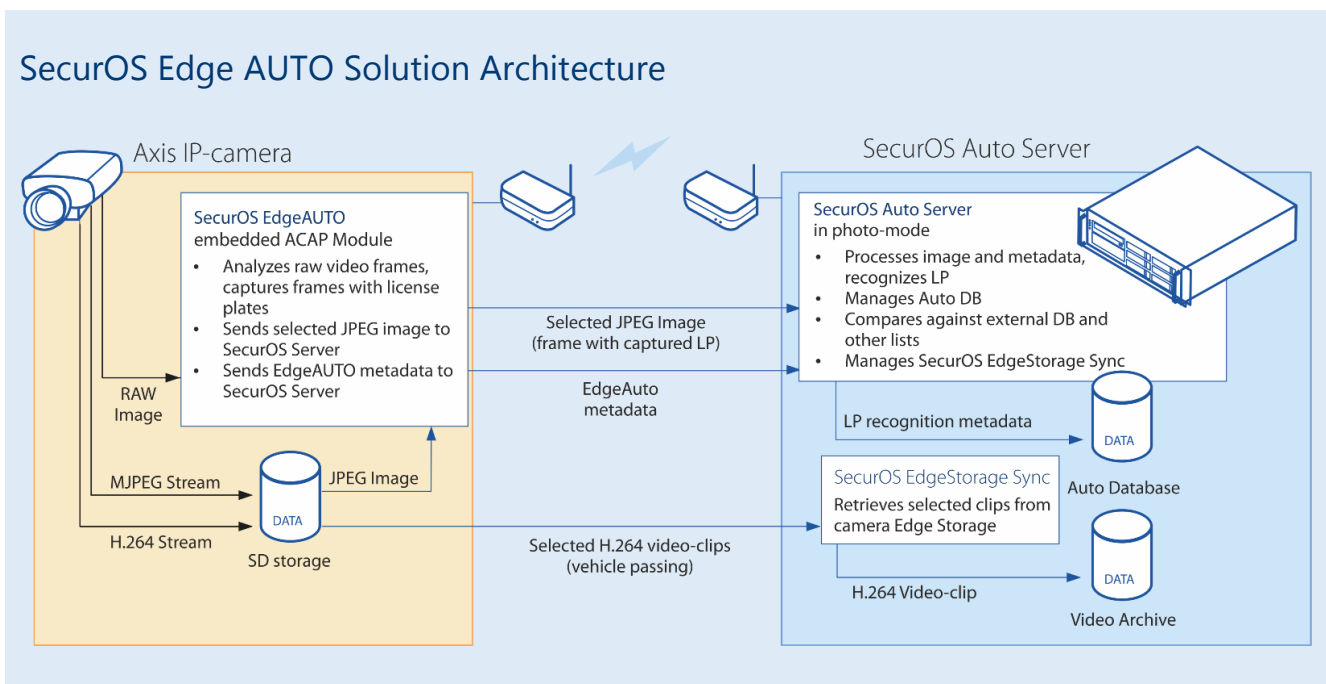
Compatible with
ISS SecurOS Premium and Enterprise

Solution Concept

The camera constantly records video to its SD card while the ACAP module analyzes raw video constantly. When a vehicle license plate is detected and the module collects all the necessary data, it sends a JPEG image of the vehicle with the license plate and additional metadata to the video-analytics server running SecurOS AUTO in Edge AUTO mode.

When the video server receives the frame from the Axis camera:

- Server runs the license plate recognition in photo-mode (single frame recognition)
- Using SecurOS EdgeStorage Sync technology, server downloads the video archive that is stored on the camera SD card. Only necessary parts of the video-archive (having vehicle passing) is downloaded



Core Capabilities

Addressed customer needs

Provides LPR for sites with limited/unstable network connection not requiring local server.

Key benefits

- Fully-featured LPR capabilities provided by SecurOS AUTO server SW and SecurOS AUTO operator interfaces: results list, search, black and white lists, etc.
- Fully-featured VMS capabilities provided by SecurOS video management platform.
- Efficient HW resources use:
 - bandwidth optimization by reduction of total volume of transmitted traffic;
 - load reduction for capturing and recognition server;
 - efficient utilization of IP-camera / encoder capabilities;
 - redundancy with failover Edge Storage recording.

Unique differentiators

SecurOS Edge AUTO is a native part of the SecurOS VMS ecosystem and is supported with SecurOS AUTO on the server side. This allows Edge AUTO to be a segment of a large distributed system inheriting SecurOS AUTO high recognition quality and world templates coverage (56 countries and expanding).

Specifications

ISS Platform Support (server-side)	
Supported Operating Systems	Windows 7, 8, 8.1, 2008 R2, 2012 R2, (32/64 bit)
SecurOS VMS version support	SecurOS Premium SecurOS Enterprise
Camera Support	
Camera vendor	Axis Communications LLC
Camera platform	Axis Camera Application Platform (ACAP)
Chipset supported	ARTPEC-5, ARTPEC-4
Maximum Vehicle Speed	
Parking version	6 mph (10 km/h)
Supported Video Formats	
IP	MJPEG, H.264
Analog	NTSC, PAL
System output	
AUTO Database	Camera name / ID Recognition result LPR timestamps Quality of recognition result License plate country / state License plate location in image Internal / External watchlist match Snapshot of whole frame / vehicle / plate (optional)
Video Archive	Video-clip with vehicle passing
Additional Technical Data	
Minimal required resolution	640 x 480 (actual recommended resolution depends on state/country and other factors)
External databases supported	Any database with Windows ODBC drivers



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