

Automatic Number Plate Recognition (ANPR) technology has far-reaching implications beyond just monitoring the roads. The software has two defining features; automation providing automatic barrier opening and other access control functions plus enhanced security ensuring that authorized vehicles enter secure areas making it an indispensable tool for a wide range of industries.

The 6SS ANPR® software offers efficient and effective solutions to problems related to parking, security, retail, and more. Its user-friendly management features and reporting capabilities allow for the customization of actions for when a license plate from the database is recognized. For instance, the system can be programmed to open a barrier, alter a traffic light, send an email notification, or display a pop-up on a screen upon the recognition of a particular number plate.

By automating routine tasks using ANPR technology strengthens security measures by allowing security personal to concentrate on more human orientated tasks.

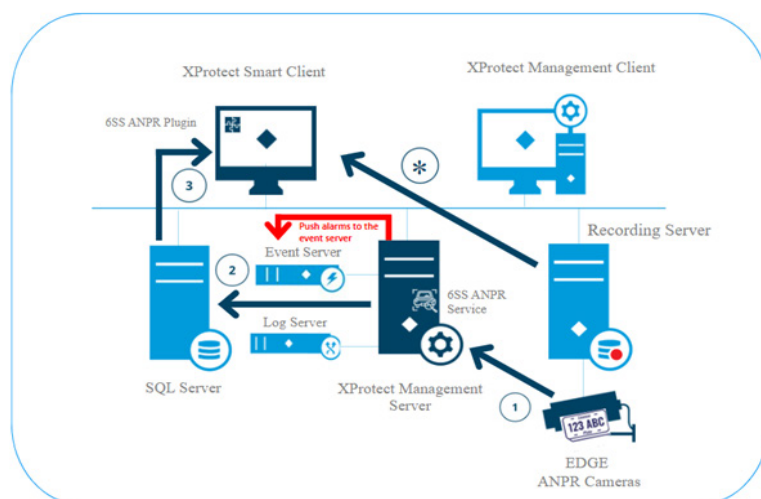
## Data Flow

1. The results obtained from the Edge Cameras are directly sent to the 6SS ANPR® service running on the Management Server, which subsequently indexes the results from the Edge Cameras.
2. The 6SS service shares the results with the SQL database.
3. The Smart Client retrieves data from the SQL database and handle the alarms triggered when a number plate is matched with a black-listed vehicle or a white-listed vehicle in the Event Server. The 6SS ANPR® plugin, in the Smart Client, reads the data from the SQL server and displays it to the user, along with the corresponding video playback.

\* The Recording Server maintains a direct connection with the Smart Client for any Video inquiries.

\* Edge Cameras with onboard ANPR processing, stream to the Recording server.

\* Alarm generated from 6SS services to the event server



## Functionality

The Edge Cameras send video streams to the Recording Server, which then communicates directly with the on-board ANPR cameras to retrieve data and store it in the database. The Recognition Server is responsible for triggering alarms as needed, based on the results of the license plate comparisons performed by the ANPR service. All this information is then sent to the Smart Client for display and analysis.

With the integrated Radar all road use cases can be addressed.

## Main Benefits

- Cost effective solution
- User-friendly interface & easy configuration
- High Processing speed saves time and improve efficiency
- Accurate onboard ANPR with worldwide coverage
- Models available for multilane detection
- 100% vehicle detection rate with laser triggering
- Advanced data security through multi-layer encryption
- Image-based speed estimation available
- Clear imaging even under extreme outer conditions
- Full remote control and easy maintenance thanks to modular design
- Resistance to physical impact and weather
- Seamless integration through API

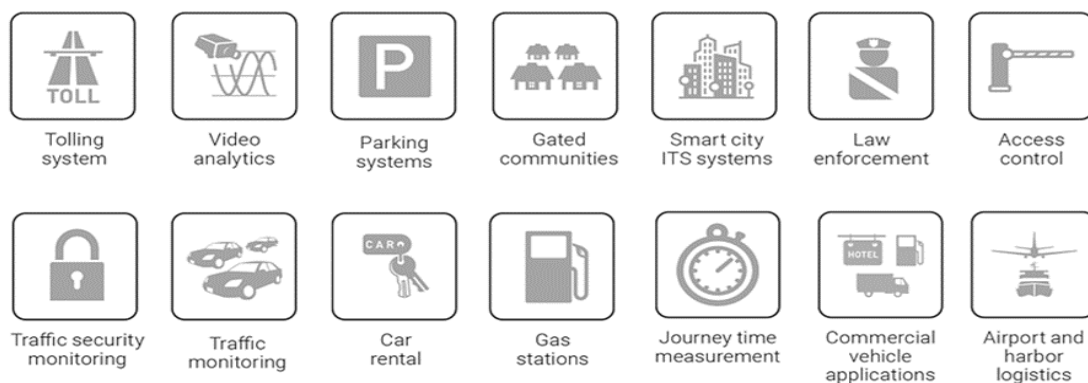
## 6SS ANPR Features

- Integrated with Tattile Cameras (Vega 3 & 33, Smart 2HDs).
- Seamlessly integrated with XProtect Plus versions.
- Accessed via the Smart Client interface.
- Integrated with the XProtect Central Search feature for investigation.
- Integrated with maps and alarms.
- English language support only.
- Vehicle and Plate colour coding for faster search and Vehicle model, colour, and category detection.
- Supports MJPEG, H.264 and H.265 video formats.
- Detects reflective, non-reflective, personalized, and special interest plates.
- Processes distorted plate images.
- Generate daily, weekly, monthly reports and dashboards with customizable tailored statistics and dashboards.
- Implement advanced alerting with Regular expression matching.
- Configure customizable actions for license plate recognition events.
- Create and manage Blacklist and Whitelist.
- Import watch lists in various formats (SQL file, Excel) on demand
- Export data with one-click in Excel and PDF format.
- Perform advanced searches by plate number, country, license type, date range, plate type, category, color, country, confidence level, plate image and camera snapshot.

## Tattile Cameras Key Features

- Real time detection of violations with OCR on board
- Embedded multicore processors
- Smart design with IP68 protection grade
- Extended temperature range (-40°/+ 60°C | -40°/+140°F external temperature)
- Hardware system with state-of-the-art CPU evolutions for performances.
- Modular Platform includes various sensors required by the most challenging scenarios.
- Scalable HW architecture includes different FPGA modules for high-speed image processing in extreme situations.
- FPGA usage for huge processing capability in real-time image and ANPR analysis.
- Modular architecture for easy customization platform according to the complexity of the application.
- Devices able to detect and read non-reflective license plate, without any external illuminator.
- Extra sensitive sensor mounted ensures quality images also in low light condition
- All transit plates are recorded and available for further analysis
- Embedded multi-tracking radar.

## Applications



## Business Value

6SS ANPR® offers significant business value by automating the tracking and management of billions of vehicles on roads worldwide, which is becoming increasingly challenging as the number grows. The solution can be applied to a range of industries and use cases, including traffic management, security, and access control. With ANPR, manual entry and associated errors are reduced, leading to increased security, revenue, and benefits, and reduced labor costs. Utilizing ANPR technology can streamline operations and drive efficiency for businesses in need of license plate recognition.