

PAY ROAD TOLLING

Partner: RFID Radical Solutions (Peru)

About RFID Radical

RFID Radical Peru is a company providing wireless systems for tolling enforcement operations. The company adopted a modular approach to its solutions using mainly WSN and RFID technology in its previous installations.

Project overview

Customer problem: the previous RFID-based system left room for permit pass backs, which seriously cut the profitability of the tolling operation.

Asura proposed the replacement of the RFID-based toll system with LPR (license plate recognition) based system. RFID (Radio Frequency Identification) is a technology used for automatic identification and data transmission, which consists of storing and transmitting data using RFID tags and devices. The RFID tag is a tiny object that can be fixed or integrated into the object you want to identify.

Solution

Asura's tolling enforcement solution uses cameras to retrieve license plate information of the motorway using vehicles. Motorway permits are tied to license plates, thus creating a free-flow toll system on the motorway section.

The cameras are installed on a gantry, 6 meters above the ground. The Asura software runs on the designated on-site PC providing the LPR data to the client's database. Our Peruvian partner is responsible for toll collection system itself. The project required equipping cameras at multiple motorway sections to register traffic by their license plates.

Features and Advantages

- Free-flow ALPR solution
- Two lanes are monitored at the same time by each camera, thereby allowing a cost efficient setup
- Eliminated on-board units in vehicles and thereby mitigates the revenue loss generated by illegal on-board unit transfers from one vehicle to the other
- Automatically sends LP data to the tolling partner in a format in which all data can be easily searched and filtered

Results

With the new system, vehicle owners no longer use RFID on-board units, thus eliminating the revenue loss generated by illegal on-board unit transfers from one vehicle to the other has been eradicated.



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