CASE STUDY

ON

INTEGRATION OF BOOM BARRIER AND CAR ACCESS SYSTEM

PREPARED BY
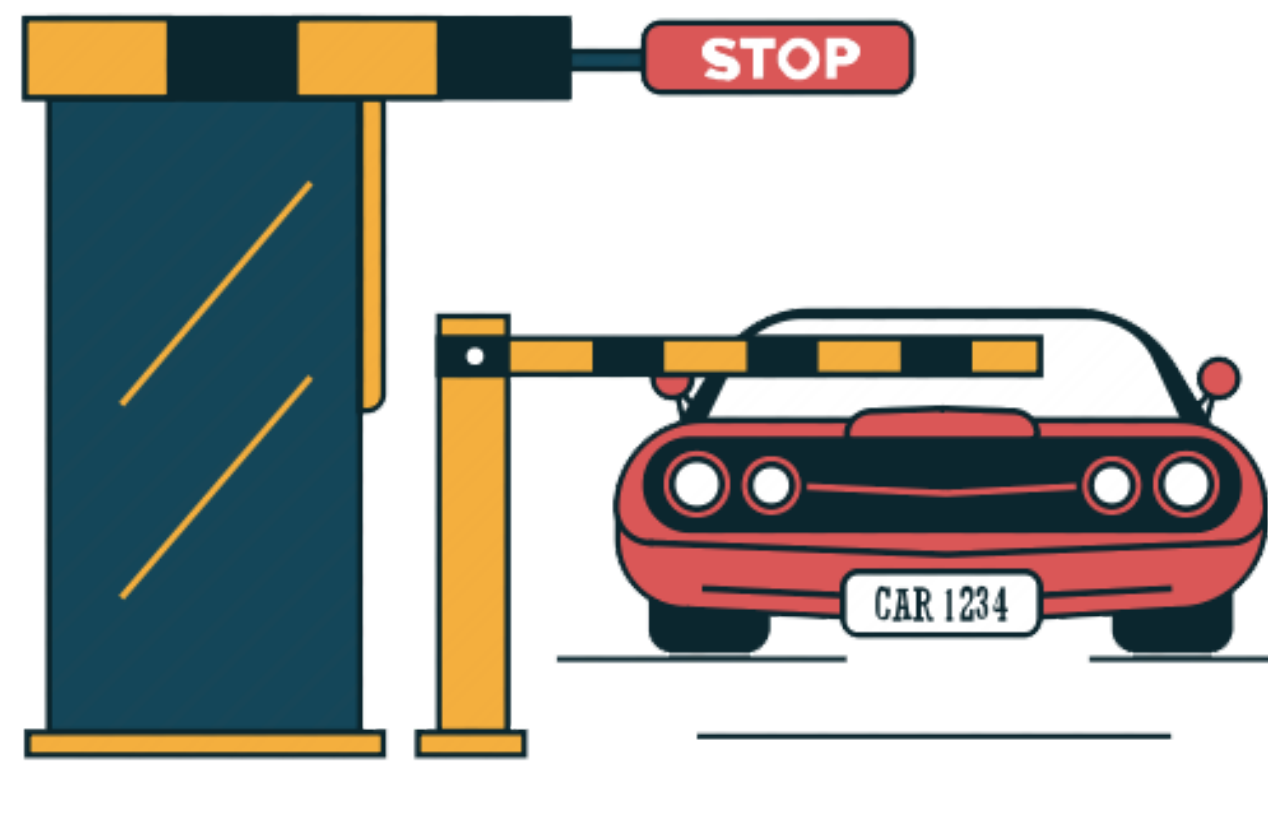
INTSYS TECHNOLOGIES

SUMMARY

The main gate of any office or warehouse is the busiest and probably the most chaotic location. In any typical day, the main gate would open about a hundred to thousand times in a day – for cabs, private vehicles, trucks and visitor vehicles to move in and out.

Hence, for any office or warehouse, vehicle management does become a serious concern.

Intsys Technologies provides a solution for Automated Vehicle Access Management.

CHALLENGES
IN TRADITIONAL SETUP

The older methods of vehicle access systems had few flaws, which had to be rectified.

If the gates are kept open all the time, it can lead to entry of all kinds of vehicles in the premises.

If it is closed all the time, it becomes a hassle for the security guards to open and close the gates each time a vehicle has to pass.

Keeping a record of all the vehicles going in an coming out becomes difficult during peak hours.

Security guards are sometime ineffective in allowing selective vehicles in the premises due to lack of proper identification system.

This manual opening and closing of gates each time is manual and dependent upon the availability of guard.

 Manual recording of events is prone to error.

SOLUTION OFFERED

An Integrated Management System was designed by Intsys Technologies for the client.

We Integrate the Boom Barrier System with RFID Tags.

All of 6 Vehicle Entry & Exit gates are equipped with Boom Barriers. One UHF Reader is mounted at each Entry & Exit Gates.

These RFID Tags are stuck on the vehicle's windshield, which have the vehicle's make, registration number, owner name and contact number stored in it. This is a one time process.

An RFID Reader is mounted near the gates, which reads these tags. When a car is about to enter the gate, the RFID tag on the vehicle is read by the reader tag installed near the boom barrier and the boom barrier opens, letting the vehicle in.
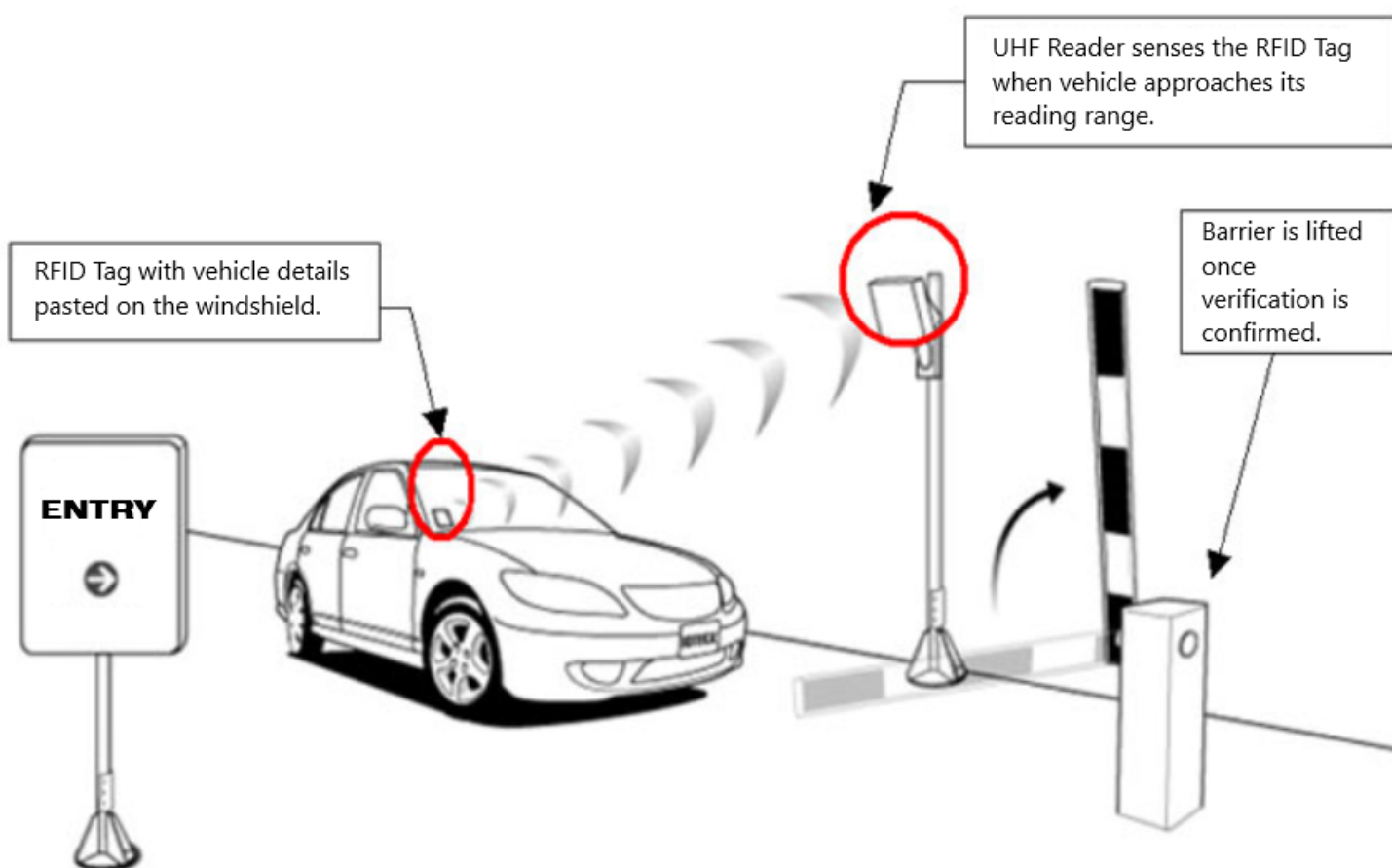
In case of a vehicle that is not registered with the community, the boom barrier will not open.

Only when an unregistered vehicle approaches the gate, shall the guard intervene.

This reduces the time taken by the traditional method for physical verification.

This allows for a centrally controlled security system.

SYSTEM ARCHITECTURE

UHF Reader senses the RFID Tag when vehicle approaches its reading range.

Barrier is lifted once verification is confirmed.

RFID Tag with vehicle details pasted on the windshield.

ENTRY

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