

Incorporated in Mumbai, India, the Client is a fully owned subsidiary of an Italian Automobile company.

### **Solution:**

RFID based Vehicle Entry Permit.

### **Problem / Pain Point:**

1. The Client's manufacturing facility manufactures close to 135,000 cars on a daily basis. These cars are taken in and out of the factory premises for testing.
2. The Client wants a system to restrict the entry of unauthorized vehicles into the premises.
3. The Client also wishes to track the entry and exit, with date and time of authorized vehicles.
4. In case of executive/ visitor's vehicles, the Client wants to maintain a track record of the same.

### **Objective of Project:**

1. To implement independent and automated nonstop system for security and Access control.
2. To get accurate identification and permit authorized Cars to enter the Main gate.
3. To get reports for entry and exit made by the authorized cars, whether manufactured or of that of the executives.
4. To maintain rule based conditional entry and exit using the factory fixed RFID vehicle mount tags.

### **Solutions Proposed:**

The proposed solution encompasses the following:

Each of the company executives and the authorized drivers will be provided with UHF (Ultra High Frequency) RFID tags. In case of the executive's cars, the executives' RFID tags will be mapped with the VIN-Windshield RFID tag and a data base of the same will be maintained. The authorized driver's RFID tags are not mapped with the Windshield tags of the cars driven by them.

RFID Fixed mount readers with Antennas will be mounted at the gate. These would be integrated with QodeNext Vehicle track application, which keeps track of all vehicle in and out of the gate.

When a car bearing an authorized ID approaches, the QodeNext Application triggers the Boom barriers to open. The boom barriers close automatically once the vehicle enters or exits the gate.

### **Benefits:**

The RFID based solution ensures that only authorized vehicles can enter and exit the factory premises. Also, the solution is capable of tracking entry and exit time of the vehicles. As for the testing track, the solution ensures that only 5 vehicles are on the track at a time.