VehicleTrack [RFID Vehicle Tracking System]

Our RFID Solutions

- RFID Vehicle Tracking System
- Asset & Inventory Management System
- Waste Management System
- School Attendance System
- Jewellery Tracking System
- DSpace (Open Source Dynamic Digital Digital Repository)
- RFID Library Management & Security System
- File/Document Tracking System
- School / College Management & ERP Solutions
- Animal Tracking Solution
- KOHA (Library Management Software)

Daphne Systems
...delivering value with RFID since 2005
About the Company:

Daphne Systems Private Limited is an RFID System Integrator, providing application research based turnkey solutions that empower organizations to achieve competitive advantage from radio-frequency identification (RFID) and enhance their business performance. We envision creating and extending knowledge in RFID utilization and its impacts on business processes. We maintain international standards of excellence and implement comprehensive, industry-tested turnkey solutions that will provide value, scalability, and return on investment across an organization.

VehicleTrack (RFID Vehicle Tracking System)

Daphne Systems recommends a RFID based Vehicle Identification that provides a complete solution VehicleTrack. The most important challenges of parking area of organization or society have to be filled up with registered and authorised vehicle. It also has to an automated, efficient monitoring system that identifies and allow for accurate vehicle of organization or society to easy Entry/Exit.

VehicleTrack is designed to be modular and different modules can be used to build a system to meet your requirements, provides identification, tracking, security and automation of vehicles. Each gate has entrance and exit boom-barrier (or doors) equipped with RFID readers along with antennas. Each vehicle has a passive tag, which is applied inside the windshield. The windshield tag is a high performance tag that is ideal for plastic and glass. The RFID system can be integrated with software systems for reporting and revenue collection, which provides even greater cost cutting and time efficiency to societies, parking operators and corporate and municipal parking facility.

Implementation of VehicleTrack is quick and easy and can be used in conjunction with existing systems. We use Standards Protocols - UHF EPC Class 1 Gen2 (Frequency 860-960 MHz) for our solution for communication between Tags and RFID Readers.

Why VehicleTrack?
The answer of our question (Why VehicleTrack?) is very much clear: When we are discussing for a solution of parking-lot management or entry/exit facility for vehicle at RWA society, in traditional/older technology manual or mechanical transactions require driver to stop, roll down their window, swipe a magnetic strip card, wave a proximity card or punch a keypad to get access of the system. But our automated and non-stop system allows vehicle flow quickly through entry/exit gate and fully controlled over system.

BENEFITS:

Vehicle Track facilitate solution for multiple problems we are facing like entry/exit automation, tracking of vehicle inside/outside the campus, entry/exit movement log, visitor entry pass and the main important feature of our solution that you can allow/barred your vehicle for entry/exit on real-time.

- Increased Vehicle security
- Reduced traffic at entrance and exit
- Data backup of every movement
- Proper management of visitor entry/exit
- No need to fall down the
- Discreet control of security authorization by identification
- Affordable, easy to install and maintain
- Non-stop, hassle-free operation
- Low maintenance and repair costs
System Components:

**RFID Fixed Reader:**
Each reader contains a radio frequency transmitter/receiver, antenna and reader logic board in a weatherproof unit. The reader collects data from the antennas, processes the data and interfaces with the VehicleTrack Software.

- Multi-Tag Read
- Built-in Antenna
- Up-To 10 M Read Range
- ISO 18000-6C EPC Class 1 Gen 2
- Weather proof casing

**RFID Tag:**
Capable of storing and rewriting the vehicle related information, The Windshield Tag is optimized for attachment to vehicles windshields and is primarily used for identification of vehicle in parking areas of campus / society / apartment.

- 860-960 MHZ band
- Tamper-Proof
- Protocol-ISO 18000 6C EPC 1 Gen2

**Boom Barrier:** Automatic Barriers interface with RFID Reader and automatically open when an authorized vehicle is identified. Barriers offer and efficient security at the entry and the exit gate or any road-way entry where VehicleTrack is deployed.

- Interface : Controller interface with RFID Reader
- Operating Chanel : RFID Reader, Push Button & Remote Control
- Operating Power : 220 Volt AC Power
- Control Panel : Microprocessor Based Control Panel

**Accessories:**

**Breaker:** It is installed on driveway to make the vehicle speed slow, so that identification of vehicle is made smother.

**Signal:** These signals are used for signaling vehicles to prevent accident on driveway, vehicle can move ahead if it is green otherwise must stop and wait at signaling place while it is not green.

**Buzzer / Alarm:** A buzzer or beeper is an audio signaling device, which my trigger while barred/unauthorised vehicle try to enter into the premises.

**Anti Crash Sensor:**
These sensors are sensing objects based on infrared ray through its transmitter or receiver. In our system we use photo sensor or anti crash sensor. Photo sensor sense the object below the boom to prevent the boom-barrier from closing if vehicle (or any object) found in sensor range (just below the boom-barrier) while, anti crash sensor sense the object movement to down the boom on the stand if it is opened.

**Application Software:**
The VehicleTrack software is a backbone of whole solutions. A passive RFID based Vehicle/Visitor Tracking standalone software that provides a complete record of movement of vehicle, we have complete software package including VehicleTrack-Monitor, VehicleTrack-Mobile & VehicleTrack-Web.

**Vehicle Track Monitor** is monitoring the movements (in/out) of Vehicles from the campus and provides visual representation on GUI and Tagging Process of Vehicles.

**Vehicle Track Mobile** is android app which allow to use this system as particular user with following features.

**Vehicle Track-Web** is java based web application (With Apache-server and MySq database) which allow to use this system as particular user as well administrative privilege.

Email: info@daphnesystems.com | www.daphnesystems.com
Our Esteemed Clients

CSKH-PVK PALAM PUR
Central Institute of Technology
Kochi

University of Kashmir
MORGAON COLLEGE

Krishan Kanta University
Guwahati

SRM UNIVERSITY
DELHI NCR CAMPUS, GHAZIABAD, U.P.

thsti
Translational Health Science and Technology Institute

Shardul Amarchand Mangaldas
CENTURY OF EXCELLENCE

National Centre for Cell Science

BITS Pilani
Vadodara

SPECIAL PROTECTION GROUP

NCCS

PIMPRI CHINCHWAD MUNICIPAL CORPORAITION

HCL

UPL ENVIRONMENTAL ENGINEERS LTD

NTPC Rinanad
NTPC Vindhyanagar

...and many more

DAPHNE SYSTEMSTM
End to End RFID Solutions
An ISO 9001 : 2015 Company

Head Office
Daphne Systems Private Limited
114, First Floor, Alaknanda Commercial Complex, Plot No. 3, L.S.C. Vikas Kendra, E-Block, Vikaspuri, New Delhi-110018 Tel. +91-11-43021682

Email: info@daphnesystems.com | www.daphnesystems.com | Skype: daphnesystemsrfid | +91-7777005050