RFID Animal Tracking Systems

Our RFID Solutions

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

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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.

AnimalTrack (RFID Animal Tracking Management System) Daphne Systems recommends a RFID based Animal Tracking Management System that provides a complete solution AnimalTrack. The most important challenges of locating/searching of animal or its defined places. It also has to an automated, efficient monitoring system that identify and allow for accurate movement of animal from one place to another place within Range. AnimalTrack 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 Animals. Each gate has equipped with entrance and exit RFID readers along with antennas. Each Animal has a passive tag, which is applied in ear of the animal. The RFID tag is a high performance tag that is ideal designed for animal. The RFID system can be integrated with software systems for detailed/customized reporting, searching and error less inventory/physical audit operations etc. for the organization. Implementation of AnimalTrack is quick, easy and can be used in conjunction with existing systems. We use Standards Protocols UHF EPC Class1 Gen2 (Frequency 860-960MHz) for our solution to communicate between Tags and RFID Readers.

Why AnimalTrack:
The answer to this question (Why AnimalTrack?) is very much clear: When we are discussing for a solution of inventory management or physical-audit for animals at organizations, in traditional/older technology manual searching or auditing require more man-power & time consuming to remove error or less error through, we can't make it error free/error less. We have to make these operations one-by-one but in our AnimalTrack no need to do it one-by-one, you just need to move RFID handheld reader and searching will be done. Similarly all other work like auditing etc. need not to be done one-by-one it can be done in a lot.

Benefits:
AnimalTrack facilitate solution for multiple problems we are facing like reporting, searching and error less inventory/physical-audit operations etc. the main important feature of our solution that you can get movement/location records of each and every animal on real-time within organization more feature are...
• Increased Animal security • Non-stop, hassle-free operation • Low maintenance and repair cost • Data backup of every movement • No need to manual work • Proper management of animal movement • Reduced man-power for multiple operations • Affordable, easy to install and maintain • Discreet control of security authorization by identification
System Components:

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

**Specification:**
- Multi-Tag Read
- Built-in Antenna
- Up-to 20m read range
- ISO 18000-6C EPC Class 1 Gen2
- Weather proof casing

**RFID Handheld Reader:**
RFID Handheld Reader is an android based mobile device which enabled to search/scan animal and manage inventory or physical auditing of RFID-Tagged animals. This device reads RFID-TAG and communicate with data center over Wi-Fi.

**Specification:**
- Read Range: up to 4 to 8mtr
- Antenna: Integrated, linearly polarized
- Frequency: 860-960MHz
- Protocol-ISO 180006C EPC Class1 Gen2

**RFID Tags:**
RFID Tags are place on animal ear and including a unique ID number. Consists of matched antenna and a tiny chip which stores vital item information. RFID tags are password protected anti-theft security bit, its provides identification and security in a single tag.

**Specification:**
- Case material: TPU
- Substrate: PET
- Frequency: 860-960MHz
- Protocol-ISO 180006C EPC Class1 Gen2

**Application Software:**
The AnimalTrack application software forms the backbone of the whole system. It perform send to end functionality from programming the RFID tags, which is to query the system for locating the position of particular animal. We have complete software package including AnimalTrack-Monitor, AnimalTrack-Mobile, AnimalTrack-Web.
AnimalTrack Monitor is monitoring the movements (In/Out) of Animal from one location to another location and provides visual representation on GUI and tagging process of Animals.

AnimalTrack Mobile is android app which allow us to use this system to know the information of particular animal on mobile along with many features.

AnimalTrack-Web is java based web application {with Apache-server and My Sql data base} which allow to use this system as particular user as well as administrative privilege.
OUR ESTEEMED CLIENTS

- Sainik School Nagrota
- UPL Environmental Engineers Ltd.
- NTPC

NTPC RIHAND

NTPC VINDHYACHAL

...and many more