



ParkTrack

RFID and Sensor Based Parking Solution

Eliminate Repetitive Entry and Fake Permit Parking

Enhancing revenue from the commuter parking lots isn't a simple task. It is manually intensive to count the number of permit and non-permit cars on any given day. Paper based parking permits may easily be faked as there is no way of validating the parking permits. In addition, issuing handwritten paper tickets that need to be reconciled multiple times makes it even more challenging. The payments against each ticket have to be tallied and collated. This is expensive. As a result, the parking lot administrators are spending money on multiple data entry and they do not have accurate usage information.

Reading, writing and entering data take up much of the workers' time. Around 5% of manual entries are incorrect. This has a huge impact on productivity and results in big losses on the bottom line.

TRAKAID ParkTrack - Solution Overview

The TRAKAID ParkTrack solution is offered as Software-as-a-Service for gated and non-gated parking lots. For gated parking lots, vehicles with authorized RFID tags are allowed entry. For non-gated parking lots, the Parking Officer uses the simple and complete handheld-based RFID enabled solution to help speed up the process for checking automobiles with permit parking and at the same time issue tickets to autos for day parking.

RFID tags - unlike paper permits with or without bar codes, do not need line-of-sight reading and are able to read tag from a distance of up to 7 feet. Tags work in extreme environments. RFID based solution provides a very quick Return on Investment when the task data acquisition needs to be performed on a repetitive basis.

Uniqueness

- **Complete RFID Solution for gated parking lots**

The solution allows interaction with a mounted stationary sensor which allows entry into the parking lot of vehicles with authorized RFID tags. This solution also allows unauthorized vehicles to receive a ticket at the gate.

- **Complete RFID Solution for non-gated parking lots**

The handheld-based RFID solution is a practical and cost-effective solution. The solution allows reading of the RFID permit tags from up to a distance of 7 feet and do not need line of sight.

- **Built-in intelligence for issuing tickets for repeat day parking users**

TRAKAID ParkTrack solution has built-in intelligence that assists the parking officer with once entered data for daily parking tickets to auto fill the new parking ticket.

Trakaid ParkTrack Advantage

TRAKAID ParkTrack for Commuter Parking delivers immediately the following business benefits through better information about the parking usage:

- ◆ Enables accurate and up-to-date parking usage
- ◆ Reduce any unnecessary capital expenditure
- ◆ Allow issuance for more parking permits
- ◆ Reduce cost of processing and generating reports
- ◆ Elimination of fake parking permits
- ◆ Ability to read through tinted windows, in bad weather conditions and inconsistent placed permits.
- ◆ Eliminate data entry for frequent day parking tickets.
- ◆ Automatic data synchronization, movement of data, and detailed reporting
- ◆ Reduces check handling, customers can identify tickets and pay on line



RFID Technology

In Radio Frequency Identification (RFID) technology, an RFID reader is a radio signal initiator and receiver that listens to the signals that are sent back from the RFID Passive tags. RFID technology helps increase data identification and acquisition efficiency and data integrity, which helps to lower the total cost of the operation. Unlike a bar code technology which requires line of sight (LOS), an RFID tag does not need to be seen to read it or write it. Even an RFID tag covered in dirt can be read. The RFID tag offers a reading range from few centimeters to meters and does not require line of sight.

With RFID technology, one can read multiple tags simultaneously. When the trigger on the RFID reader is pulled, all the tags that can respond to the radio energy emitted by the reader are read. RFID tags are small in size and have no moving parts. They are embedded in protective material based high impact resistant case and have a multi-year lifespan. Tags may be placed in extreme environments and are robust to handling.

Tags are produced with a unique identification code (UIC) or serial number from the manufacturer. This is embedded digitally on the microchip and may not be changed, thereby making them extremely resistant to counterfeiting. The combination of UIC, user data, serial number and on-board memory makes it possible to track, recall, or document the life span of a single item.

Key Features

TRAKAID uses RFID technologies in its solutions while focusing on utilizing full advantage of technology, providing most value for money and simple to use products and solutions. TRAKAID ParkTrack has an agile and modular robust architecture and helps simplify asset processing, management, and tracking in real-time and has simple and easy to use interface that is designed to meet industry requirements.

Built-in RFID Support:

Handheld-based/gate-mounted RFID solution tracks RFID tagged vehicles where appropriate to help enable one time data entry and fasten the process of checking the parking lot.

Offline Data Synchronization:

ParkTrack mobile software allows one to quickly cover multiple locations by enabling tags to be read on site and be synchronized offline with the server to generate reports immediately.

Role-Based Views:

Role-based view of data enables customized and controlled access to individuals within the organization.

Modular Architecture:

TRAKAID ParkTrack is built with the latest Microsoft technology and is designed as a modular architecture that allows to easy expansion.

Web-based Reporting and Alerting:

Web-based application available via the Internet through highly secured 128-bit SSL encryption.

Business Process and Security, Alarms and Alerts:

Any business process or security alerts can be raised in real-time and delivered by e-mail or text message to appropriate personnel.

Parking History:

TRAKAID ParkTrack reports can be accessed by any authorized personnel and all of the information is available online. Authorized personnel may view the records by permit, parking ticket, permit holder, or license plate.

Schedule a Demo - Contact Us

To learn more about the TRAKAID ParkTrack solution, please contact us to schedule a demo or a free consultation.

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