

RFID in Tracking & Monitoring

An In-depth Product & Service Analysis with Case Studies

July 2009

Abstract

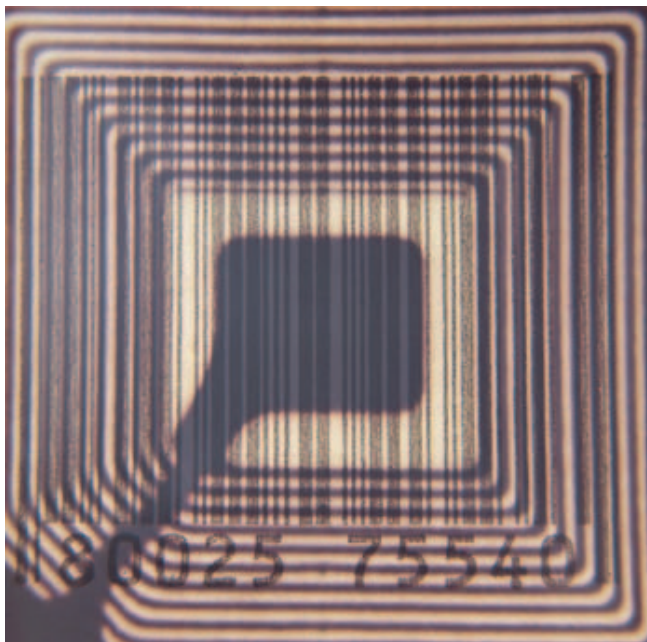
Process controls for manufacturing and various other industries are getting more and more complicated due to the overwhelming stream of data flowing into their system. The primary goal today in most of the leading organizations is keeping track of this data, and organizing it in a suitable fashion so that it can be utilized and used later.

RFID in Tracking & Monitoring: An In-depth Product & Service Analysis with Case Studies explains the technology available to support tracking both normal and hazardous environments, including Radio frequency identification (RFID), Barcodes, GPS enabled tracking, WiFi enabled Tracking and others. Nearly all aspects of tracking addressed in this report via detailed evaluation, analysis, and price comparisons.

The report also provides detailed company analysis (products, services, and solutions). Case studies are to help the reader understand implementation issues and challenges. Cost factor analysis is also provided for the various spheres of implementation for different RFID based tracking system components.

Select Report Benefits:

- Understand the types of applications possible with the current technology with special attention on scalability and ethical issues
- Identify current sectors in which RFID has been successfully employed, mainly the Public, Government, Homeland Security and Law enforcement
- Learn from an array of Case Studies to understand the implementation details, complexity and success story evaluations
- Identify RFID hardware, software, and solution vendors and related professional services companies
- Learn cost factor analysis from major components of the RFID based Tracking and Monitoring Applications
- Focus on learning from RFID success stories from some of the major implementations around the world
- Identify different spheres where RFID is currently involved in Tracking and Monitoring Applications
- Learn the current status of RFID and the future of RFID and RFID based applications



Audience:

- RFID hardware, software, and solution vendors and related professional services companies
- Managed services providers, outsourced RFID solutions and application providers, and RFID service bureau operators
- Personnel responsible for automating Supply Chain Management (SCM), Customer Relationship Management (CRM), Manufacturing Resource Planning (MRP), Enterprise Resource Planning (ERP) and other business processes
- Manufacturers and personnel responsible for management of inventory and materials, timing and control of critical resources, improve Warehouse Management Systems (WMS), and other production line automation and industrial processes
- Healthcare management personnel responsible for tracking patients, staff personnel, equipment, inventory, and other critical resources
- Retailers and personnel responsible for merchandise inventory and ordering processes, Customer Relationship Management (CRM), Merchandise tracking and fraud prevention
- Providers of value-added applications and services such as metering, telemetry, telematics, and sensor applications, inventory control and tracking such as merchandise control, asset tracking and recovery such as computing equipment monitoring, tracking parts moving through a manufacturing process, tracking goods in a supply chain, and payment systems
- Providers of RFID middleware such as the VeriSign or Oracle
- Companies interested in optimizing their RFID business process strategies



About Author:



Sanjay Chatterjee is an expert in ZigBee and Active RFID systems. He has developed Tracking solutions, Message Communication systems, Sensor Networks for environment sensing using ZigBee. He has successfully developed a rapidly deployable, self configurable, self healing Tracking System with Active RFID along with the GUI, and a handheld based active RFID reader/writer using the ZigBee protocol and transceiver.

Section I - Introduction

Section II - Technology Outlook

Introduction to RFID
 Understanding How RFID Works
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 Semi Passive RFID Tags
 Active RFID Tags
 Active Tags with Sensors/GPS
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 Active RFID based tracking with Customizations
 Proprietary tracking solutions
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 Exception Management

Section III - Company and Product Analysis of RFID

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 Company - Identec
 Company - Savi
 Company - Intellex
 Company - Ekahau
 Company - Tagsense
 Company - WhereNet
 Company - Pinc Solutions
 Company - ContainerTrac

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 U.S. Naval Air Systems Command Project
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 United States Navy
 California Wine Company - Sea Smoke

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dlewares
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 Standards
 Implementation Status in Europe
 USA
 Standards
 Implementation Status in USA
Section IX - Future Applications of RFID around the World
Section X - Conclusions



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