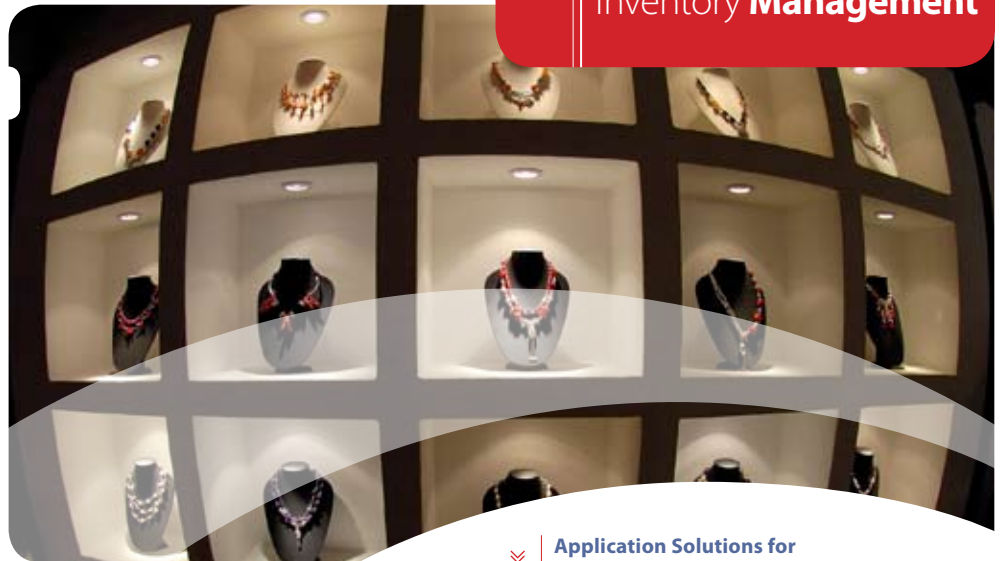


physical made digital



Inventory Management



Application Solutions for Inventory Management

THREATS:

- » Missing Product
- » Inappropriate Configuration
- » Expired Products

INDUSTRIES IMPACTED:

- » Retail
- » Medical
- » Medical supplies
- » Transportation

BENEFITS:

- » Preserve Revenue
- » Build customer loyalty
- » Improve customer and patient safety
- » Limit Legal liability
- » Protect brand integrity
- » Assure product quality

Application Overview

Expired products, near-empty retail displays, lost baggage and missing inventory are all significant issues that affect organizations and impact the lives of consumers each day.

Retail, Medical and Transportation organizations all dedicate immeasurable time and efforts to deliver quality products and services, improve customer service and streamline processes to increase profits. Lack of insight into the location and characteristics of individual items counteracts these goals and leads to lost revenues, reduced profits, consumer safety risk and customer inconvenience and frustration. The inability to manage and track individual items poses a major risk to organizations and their customers from several perspectives::

Threat	Result
Missing products on retail shelves	<ul style="list-style-type: none">• Displacement of revenue• Lack of customer loyalty
Use of inappropriately configured items	<ul style="list-style-type: none">• Customer safety risk• Legal liability
Sale of expired products	<ul style="list-style-type: none">• Deterioration of the brand• Poor product quality

Organizations vulnerable to the management and sale of products and items that may disappear, expire or lead to consumer / patient safety concerns due to lack of proper configuration include:

- **Retail:** Where products such as clothes, food, liquor, jewelry and electronics are high value, time sensitive or tend to easily disappear
- **Vendor-Managed Inventory:** Where a manufacturer needs access to the location, tracking, application and billing of consumable items placed at a vendor site to be purchased and used on demand

SkyeTek is empowering organizations in multiple industries with the insight and control to solve these issues through a cost-effective, end-to-end, embedded RFID solutions approach. SkyeTek solutions equip individual physical items and products with characteristics such as location, expiration date, number of uses, these characteristics are communicated to a network of systems and software to allow organizations to see and manage items and products on retail shelves, in the operating room and baggage conveyor belts. SkyeTek's embedded RFID solutions are helping organizations to:

- **Preserve Revenue:** keep shelves stocked and replenish items quickly
- **Build customer loyalty:** providing quality products with no stock outs encourages return visits
- **Improve customer and patient safety:** ensure that the items and products are properly configured
- **Limit Legal liability:** prevent the use of incompatible items and products
- **Protect brand integrity:** provide quality products and service
- **Assure product quality:** take expired products out of circulation



About SkyeTek:

SkyeTek transforms traditional RFID into a networking technology enabling goods and assets to participate in a connected world. SkyeTek develops readers that serve as intelligent edge devices and software that binds policies to tagged items. By extending networks to the physical world, our customers increase revenue through their ability to predict demand, prevent counterfeiting, and personalize user interactions.

SkyeTek combines intelligent software with an inexpensive hardware platform to provide a modern RFID security model, distributed policy management engine, and network-ready readers. Enterprises deploy SkyeTek's solutions to deliver a seamless RFID edge network capable of centralized management and real-time response for applications in item tracking, product authentication, access control, and patron management.

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Relevant Technical Solutions

SkyeTek provides complete technical solutions including embedded RFID modules, accessories and software all supported through integration services and custom development where applicable that address the unique characteristics of an Inventory Management application:

- **Absolute Visibility:** Where is it? Where has it been?



Gain full visibility into the movement, activity and performance of critical assets and inventory items, enrich the user's experience, preserve revenue, assure product quality and reduce capital expenditures by network-connecting handhelds, portal readers and item-level cabinets to back-office systems.

Reference SkyeTek's *Absolute Visibility Solution Sheet* for full details.

- **Continuous Authentication:** What are the identity credentials?



Guarantee authenticity and security of products and individuals alike, fight counterfeits, generics and substitutes to Protect brand integrity, assure product quality and reduce legal liability by network-connecting printers, medical devices and door badge readers to back-office systems.

Reference SkyeTek's *Continuous Authentication Solution Sheet* for full details.

Case Study: Seeonic

Retail store out-of-stock conditions average 8% across all product categories, soaring to as high as 20% during a promotion. With little visibility on the sales floor, existing systems and processes are not accurate enough or timely enough to provide the manufacturer or distributor with the data they need to anticipate stock-outs and protect sales. With the help of SkyeTek's embedded RFID readers, Seeonic has developed the Glass Shelf™, a real-time demand management and inventory replenishment forecasting service that uses a RFID enabled smart display to monitor and report the inventory levels of items on the display to manufacturers and distributors with predictions about when the last item will be removed. The smart shelf not only improves demand visibility, it also provides retailers with improved customer interaction and customization.

Case Study: Advanced ID

Analysts estimate that as many as one in four of all tires sold are counterfeits. Counterfeited tires not only usurp income and tarnish the brand of the manufacturers, their compromised quality also endangers the lives of drivers and passengers. But counterfeited tires are big business and the counterfeiters have previously adapted to attempts by legitimate producers to curb such activity. With the help of SkyeTek's embedded reader modules, Advanced ID has designed a way to provide every tire a unique ID. With various readers embedded at retail, distribution and service locations tire manufacturer can track legitimate tires. Additionally, SkyeTek's advanced security protects against cloning and keeps producers one step ahead of the counterfeiters.

SkyeTek Reader Technology SkyeTek provides a variety of reader technology at both 13.56 MHz (HF) and 860- 960 MHz (UHF). ReaderDNA, a comprehensive reference design, is available for component level integration of the technology including complete design files, BOM, and test fixture. All SkyeTek readers leverage powerful firmware that drastically reduce hardware costs and are delivered in conjunction with ReaderDNA. SkyeModules are controlled via the SkyeTek Protocol, a powerful but simple communication protocol that grants the user access to all features of an RFID transponder. Further, they have been designed with flexible and modular embedded software that allows one to select only the features desired.

