

physical made digital



## Access Control



### Application Solutions for Access Control

#### THREATS:

- » Physical / Digital Disconnect
- » Unauthorized Access
- » Loss / Shrink

#### INDUSTRIES IMPACTED:

- » Offices / Warehouses
- » Hospitals
- » Hotels / Campuses
- » Borders

#### BENEFITS:

- » Complete the security loop for assets
- » Improve customer, employee, patient and public safety
- » Increase revenue
- » Manage legal liability
- » Reduce administrative costs
- » Increase Profits

#### Application Overview

Unauthorized visitors, intruders, and identity theft are all significant issues that affect organizations and impact the lives of consumers each day. Office buildings, Warehouses, Hospitals, Airports, Hotels, College Campuses, Recreation and Entertainment venues, Military bases and border crossings are all challenged to secure and protect property, facilities, assets, customers, patients and employees. Access control at entryways to facilities is a common, proven, mature method of applying security but is often manual and costly and doesn't allow for controlled access to assets within a facility, property, borders or intangible assets.

The limitations of traditional access control methods pose a major risk to organizations and their assets, customers, employees and patients from several perspectives:

Threat	Result
Lack of integration between physical and digital access control methods	<ul style="list-style-type: none"><li>• Incomplete security loop for assets</li><li>• Compromised customer, employee, patient and public safety</li></ul>
Perceived or real threat of fraudulent access to facilities or computer systems	<ul style="list-style-type: none"><li>• Displacement of revenue</li><li>• Legal liability</li></ul>
Loss of assets	<ul style="list-style-type: none"><li>• Increased administrative costs</li><li>• Decreased profits</li></ul>

Organizations at risk of intrusion and loss due to access control limitations include:

- **Office Buildings, Warehouses:** Where assets such as computer equipment, intellectual IP and manufactured goods are at risk of theft
- **Hospitals:** Where controlled access to cabinets containing expensive and potentially hazardous items such as medication and surgical supplies are critical to patient safety
- **Hotels, College Campuses, Recreation and Entertainment venues, Military bases:** Where secure access based on identity is required in multiple locations on common property
- **Border Crossings:** Where the identity of vehicles and individuals need to be validated in real time and in concert with multiple disparate systems

SkyeTek is empowering organizations in multiple industries with insight and control over access to facilities, computer systems, medical cabinets, and credit card payments through a cost-effective, end-to-end, embedded RFID solutions approach. SkyeTek solutions prevent the entry of unauthorized access to physical and intangible assets. SkyeTek's embedded RFID solutions are helping organizations to:

- **Complete the security loop for assets:** integrating data captured at the access control point with back-end systems for real time alerting and management reporting
- **Improve customer, employee, patient and public safety:** embedding reader modules in specific products to control access to potentially hazardous materials
- **Increase revenue:** offering contactless payment options for faster more secure payment
- **Manage legal liability:** capturing an audit history of who, what, when and where
- **Reduce administrative costs:** reporting and analyzing data captured at the point of access control
- **Increase Profits:** centralizing management and control of all access control points in a single platform



[www.skyetek.com](http://www.skyetek.com)



Access **Control**

### 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.

### For more information:

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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 Access Control application:

#### • 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.

#### • Service Management: Is it being used according to business rules?



Ensure proper consumption and configuration, enrich the user's experience, drive revenue and increase customer loyalty through customized interactions and services by network-connecting doors, turnstiles, payment terminals and kiosks to back-office systems.

Reference Skyetek's *Service Management Solution Sheet* for full details.

### Case Study: Aionex

Hospitals rely on tracking systems to monitor patients and staff and to report timed events to ensure efficient operations and delivery of high-quality patient care. As a result, tracking systems play a direct role in the day to day operations of hospitals and have an impact on the effectiveness of patient care at each facility. Aionex recognized this need and developed its Advanced Patient Response Platform (APRP), a fully integrated communication and transaction software solution that communicates and documents information from various sources to specific personnel responsible for delivering patient care and services.

For the past 12 years, Aionex relied on infrared technology for patient wrist bands. The company recently recognized the need to improve the overall usability of the platform and chose Skyetek's SkyeModule™ M1 to RFID-enable emergency rooms, operating rooms, and intensive care units. Skyetek's embedded RFID readers provide Aionex's APRP with the information it needs to monitor patient care, authenticate hospital staff members, and track process efficacy.

**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.

