



RFID for Recyclable Containers



The effective and efficient management of gas cylinders, beer kegs, etc. as assets and returnable containers could have a significant influence on balance sheet and income statement sections of the gas provider's

management accounts. RFID can be used to solve this problem. Identifying gas bottles allows gas manufacturing companies to minimize gas bottle losses, maximize container utilization, keep accurate gas bottle inventory records.

Returnable containers represent assets that leave a facility and may never return -- costing businesses billions of dollars per year. A study by the automotive industry estimated replacement costs for returnable containers in automotive applications at \$1.4 billion per year. Another study estimated that upwards of five percent of a company's budget might be allocated to replacing returnable containers. The use of RFID to automatically identify returnable containers that leave the facility (and that are associated in backend software with the recipient) would allow companies to significantly reduce loss of returnable containers.



Positive identification of some types of returnable containers, such as gas cylinders, can also provide significant cost savings. Gas cylinders, which must be periodically tested for safety, can easily be switched at a customer's facility -- that is, returned to the wrong supplier. If a company delivers a two year old container and gets a 15 year old one back could end up facing additional costs for replacement. In other cases, containers are returned with damage. RFID tags could identify whether the damaged container was actually one shipped or whether it belongs to someone else. The identification process can be used to update the;

- Filled status,
- Quantity related info in the depot,
- Geographic location in the depot,
- Quantity related info at client sites,
- Geographic location in the user cycle,
- Transaction related to responsible entity,
- Date and Time stamps, Temperature history,
- Inspection and Maintenance related into.



These scenarios represent savings just in the use of RFID to identify and track assets. Once the asset ID program is in place, savings that come from better batch tracking, flow tracking, shipment verification, receiving, or inventory can be viewed almost as "free" benefits (other than the cost of programming).

Putting RFID in its place -- on mobile assets and returnable containers -- can help companies make sure that everything else is in its place.



SecureContainer

Introducing SecureContainer, a system designed to seal reusable plastic containers (RPC's) using low cost pressure-sensitive security seals. Incorporating intellectual property licensed from the US National Security Agency (NSA), SecureContainer incorporates a patented closure mechanism that indicates whether a container has been opened.

SecureContainer can be used with almost any RPC design by either incorporating the closure mechanism into the container design or creating a retrofit kit. MIKOH has teamed with Pelican Cases to offer SecureContainer retrofit kits for 16 of their off-the-shelf models in a wide variety of shapes and sizes.



The MIKOH SecureContainer is a reusable container design that is sealed using a pressure-sensitive security seal — such as a Smart&Secure seal. The SecureContainer incorporates a unique closure mechanism that eliminates the need to clean the container between uses. The container is sealed by applying a security seal to a pair of disposable plastic inserts that are inserted into recesses in the container doors before the doors are closed.

Seal Options

Containers can be sealed using different types of security seals with varying levels of capabilities:

- MIKOH SubScribe tamper indicating seal with visual authentication
- MIKOH SubScribe tamper indicating seal with visual authentication and barcode or serial number
- MIKOH Smart&Secure tamper evident RFID seal with electronic tamper indication and authentication



SecuritySecureContainer's unique design allows for easy, secure resealing with fresh inserts and a new security seal,

FALKEN Secure Networks(FSN)—Your partner for RFID automation

If you choose to pursue RFID implementation in your organization, here is the FALKEN Secure Networks commitment to you:

- FSN will provide solution architects to work with you to define system requirements for your particular installation. Multiple locations can be networked together for a central and real-time view and centralized management.
- FSN will do a RFID site survey to validate radio frequencies, tag types, system design and performance
- FSN will provide all necessary hardware and software to make the system work for you
- FSN will integrate the system with your existing enterprise management software
- FSN will provide documentation for the system, including operating procedures
- FSN will train your people
- FSN will provide warranty and continued system support

For RFID-enabled Document Tracking and Management, FALKEN Secure Networks (FSN) and partners bring together the right technologies to give you control over your files and make your office run more efficiently. Our automated and secure processes save time and labor, and prevent problems before they occur. With FSN ,you get the latest, non-proprietary secure RFID technology with the most powerful and flexible RFID file tracking software available.

Contact Us

FALKEN Secure Networks is a specialized System Integrator, RFID Solution Architect, and Value-Added Reseller with focused expertise in the RFID site survey, cost-effective design, and turn-key project implementation.

Contact FSN at sales@falkensecurenetworks.com



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CERTIFIED *Partner*

Authorized Value-Added Reseller



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