



RFID Enabled Cylinder Tracking Solution

The industrial gas companies use cylinders to deliver gases (oxygen, nitrogen, argon, carbon dioxide, etc.) to their customers. The cylinders are key physical returnable assets and are a huge investment. Business productivity is invariably tied to how well its key physical assets are being managed. Knowing what cylinders are available, where they are at any given time and what their operational status is, are all critical elements that have a direct impact on the bottom-line.

People in the industry know that reading, writing and entering cylinder data take up much of their workers' time. On top of this, the process is repeated multiple times during receiving, filling, shipping, and tracking. Moreover, around 5% of manual entries are incorrect. In a business that depends on accurate tracking of cylinders, errors have a negative impact on productivity and results in big losses on the bottom line.

Ultimately, this lack of up-to-date data results in the inability to easily locate assets and in the lack of readily available information about an asset's operational status when it is most needed. The Trakaid CyTrack solution provides an efficient way to keep asset location and status data up-to-date. Trakaid's Radio Frequency Identification (RFID) technology makes the systems of industrial gas companies more efficient by improving the rotation of returnable assets, overcoming number transcription errors, and avoiding the loss of cylinders.

Issues and Challenges

- Underutilization of cylinders due to the inefficient and inaccurate tracking methods in use today.
- Difficult to determine which cylinders are due for scheduled maintenance and testing.
- Safety of the staff and the customers as the cylinders are not tested when required.
- Human error in reading and writing the cylinder number including the number transposition error.
- Effort in identifying cylinders increases the time of operation and lost productivity.
- Identification of & loss of cylinders resulting in a lower bottom line.
- Reconciling discrepancies in customer's and company's cylinder holding records.
- Challenging to differentiate between cylinders owned by customer, dealer or company.
- Unable to efficiently identify damage to the cylinder and attribute to a specific delivery.
- Cylinder asset management, audit, and periodic census is very time consuming and difficult. This results in an inability in locating individual cylinders – lying with the customer, retired, lost, or stolen.

Trakaid CyTrack Advantage

Trakaid CyTrack is a web-based tracking system using RFID technologies that gives enterprises the ability to view up-to date status of all their critical assets and their impact on associated business processes from anywhere.

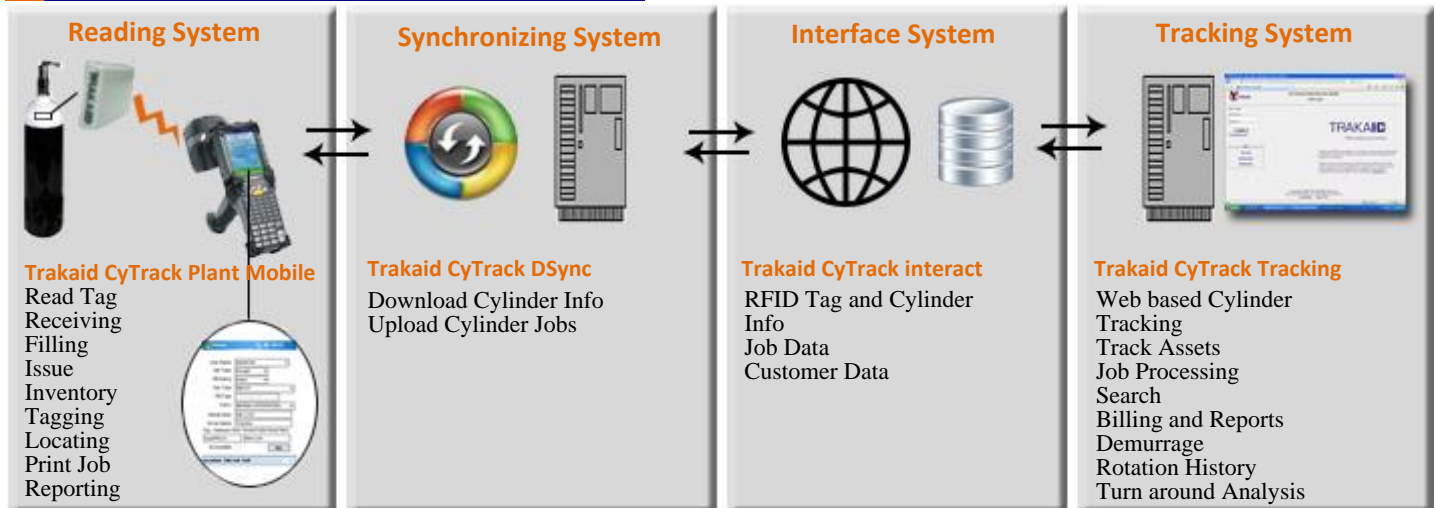
Trakaid CyTrack uses the latest RFID technology so that data for each cylinder is written, read and entered by machine, eliminating any possible errors. Trakaid CyTrack provides accurate information with less effort and lower labor costs. The data is always up to date and the focus shifts from managing data to real-time data analyses.

Trakaid CyTrack is an agile, modular and unique architecture enabled with RFID based mobile-asset tracking. This technology aggregates information about an asset's location and status collected from RFID tags, sensors and from existing data repositories. To accomplish this, Trakaid CyTrack was designed from the ground up with a scalable architecture and robust processes aimed at collecting and processing data in real-time from RFID tags, sensors and any other data sources. Companies get an aggregated real-time view of their asset data through rich dynamic web-based reports and its rule-based alerting and notification engine.

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. When the trigger on the RFID reader is pulled, the tag is read and provides a unique identification code. This makes it possible to track an asset. RFID tags are small in size and have no moving parts. The unique identification code embedded digitally on the microchip makes the tag extremely resistant to counterfeiting. 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 robust to handling.

CyTrack Technology



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 CyTrack 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 and allows real-time view of cylinders.

Protecting workers and customers

In the industrial gas industry, RFID enhances efficiency and accuracy, but that's not 'all' it does. When due for testing or found to be physically damaged, Trakaid CyTrack can help you move the cylinders out of production into testing.

Accuracy pays for itself

To manage cylinder movement during receipt, filling, and issue Trakaid CyTrack provides a solution for each cylinder to be written, read and entered by machine, eliminating any possible errors. The use of the Trakaid CyTrack solution eliminates the vendor / customer reconciliation and keeps track of all cylinders.

Reaping the Benefits

Trakaid CyTrack helps the user in real-time inventory management and in increased productivity. Productivity is increased an average of 30% in the total process from receiving to shipping.

Mobile Sensor and Custom Software based data collection

Trakaid CyTrack collects and correlates data from RFID tags and integrates into data repositories.

Multiple Reports to run the business

Numerous dynamic and customized reports provide comprehensive, real-time and complete processes for managing the business.

Asset History

Track and Trace functionality allows the user to view historical movement and analyze associated Reports.

Customized RFID Tags

Special RFID tags are designed for industrial gas cylinders.

Enterprise-Class Architecture

Trakaid CyTrack is built with the latest Microsoft .Net Technology and a robust yet flexible architecture.

Role-Based Views

Enables customized and controlled access to individuals depending on their role within the organization.

Contact Us - Schedule a Demo / Free Consultation

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