



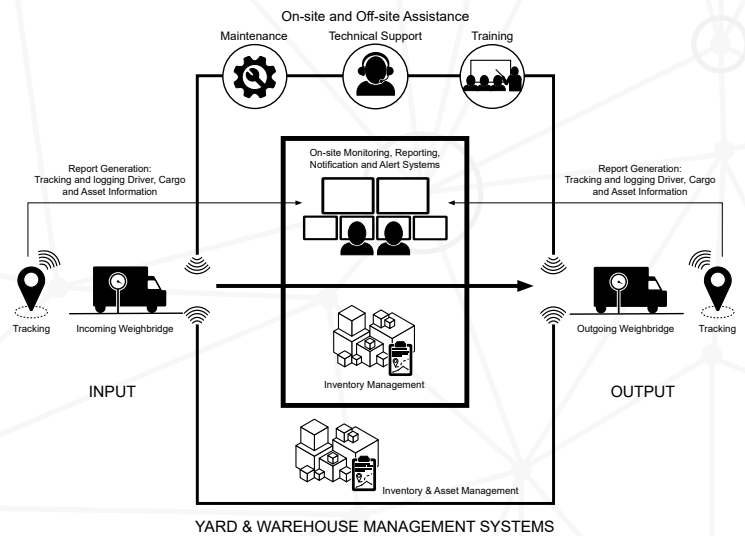
Yard Management

Introduction

Synertech's unrivalled expertise and experience in the design, development, installation and support of innovative Radio Frequency Identification (RFID) business systems and information management solutions enables the company to offer a fully integrated management system that delivers performance-enhancing benefits associated with key aspects of materials handling, vehicle movement and inventory control in stockyard environments.

Traxsense

Synertech's Traxsense software platform brings to life innovative, automated monitoring and tracking solutions by providing clients with dashboards and analytics to easily track all assets and to monitor business performance indicators. Smart sensor enabled assets are transformed into intelligent data sources. These smart assets are connected in real-time which provides organisations with controlled and auditable IOT information. Traxsense not only provides for immediate management decisions, it also harnesses the power of data analytics for business optimisation.



Goods Dispatch Monitoring



Stock Yard Management



Automated Inventory Location

Background

Stockyards are widely deployed and acknowledged as an essential element of operations across a broad range of industrial and manufacturing sectors, including building and construction, energy generation, mining, transport and vehicle manufacturing.

Across these as well as other sectors, the management of "units of production" are almost inevitably focused on large, heavy items or high volumes of goods or materials that are delivered to customers in bulk or stored in stock piles that feed into the manufacturing production process.

Unlike mainstream warehouses and conventional storage facilities that can be easily integrated into and managed based on

supporting infrastructure with direct access to essential facilities such as office-based administrative personnel, reliable power sources, network connectivity and IT support services, stockyards are often characterised by a harsh and rugged operating environment that is open to the elements of nature and sometimes hostile for personnel to work in.

In many instances stockyards are operated and maintained using processes and systems that are often heavily dependent on manual systems and therefore prone to error, escalating labour costs, unnecessary duplication of effort and increased complexity and therefore a high level of business risk.

Business Benefits at a Glance

- **Improved tracking** - Pinpoint accuracy related to vehicle and stock movements based on vital location detection information being made available on a near real-time basis
- **Increased security** - The system can be configured to provide configurable alerts and alarms as well as other security features such links into other options such as Closed Circuit Television (CCTV) and biometric access
- **Enhanced compliance and risk management** - A system that conforms to standardised general accounting and auditing standards
- **Unrestricted access to data** - The ability to provide completely objective and consistently reliable data that can be accessed by authorised users via the web from anywhere in the world on virtually any digital device on a 24/7 basis
- **Objective and reliable data** - The provision of data that is totally independent of any other source of information due to automation that eliminates human error and prevents manipulation associated with spreadsheets and manual systems
- **High level of customisation** - A system that is quickly and easily designed and customised to meet the exact requirements of virtually any business environment

Solution Overview

The Synertech stockyard management solution provides visibility and control of transport, loading, goods receiving, stock count, and goods dispatch activities based on the implementation of a highly-automated system.



Live Monitoring Dashboard



Improved Tracking and Security



Weighbridge Automation

Key features of an ideal RFID stockyard management solution designed and implemented by Synertech will include the following:

- **Weighbridge automation** - The system enables integration of materials handling and measurement equipment such as weighbridges used in the management of bulk materials for delivery to customers or for the acceptance of raw materials for production stock pile purposes within the yard.

The Synertech Intelliweigh System Suite can be deployed on virtually any network with very little network configuration required. Intelliweigh acquires data through modules installed locally at the weighbridge. These modules act as nodes on a network and transmit encrypted transaction data to the management system. The system is also capable of consolidating all weighbridge sites into a single control room / administration suite that enables a real-time view of transactions on the various weighbridges as well as proactive maintenance through GSM notification sent to technicians and managers as errors are detected on a particular site.

Synertech has the ability to integrate seamlessly to all the well known weighbridge measuring electronics to ensure weight information is transferred directly into the weighbridge database further reducing the need for human intervention.

- **Inventory management and accounting** - The system identifies exactly which vehicles and stock are on site and leaving the site by doing continuous inventory checks. This information is available real-time in the software system that is designed for a control room environment.

This critical information is made available for billing systems to improve the turnaround time of invoicing and replenishment of stock.

Key Features at a Glance

The Synertech stockyard management system includes the following key features:

- **Live monitoring via Dashboards** - The ability to track and authenticate where stock items are located or what the level of production units are is near-real time according to user-defined parameters
- **Reporting** - The generation of reports based on user-defined requirements. Virtually any report can be drawn up based on the type of information required. Reports can be delivered via e-mail and printed, or integrated into other applications
- **Alerts, notifications & warnings** - The system has the ability to notify nominated individuals or key personnel when user-defined parameters are invoked. Alerts can be sent out via SMS, e-mail or both based on defined roles and responsibilities, escalation procedures and other critical business control rules
- **System management** - A management module that provides an easy-to-use interface for the management and administration of the system according to a wide range of user-defined parameters that also conform to auditing and risk management standards
- **System integration** - Integration into mainstream ERP systems in order to ensure that asset management complies with accounting and auditing functions

After-Sales Service

- **Warranty** - All systems are backed by a 12-month warranty on materials and workmanship commencing from date of delivery
- **Maintenance and support** - A range of technical support and maintenance options are available based on formal service level agreements
- **Training** - Various training options are available ranging from comprehensive classroom training to on-the job training. All systems are provided with training documentation

Summary

Designed, developed and implemented by Synertech, a proudly South African company with nearly two decades of success at the forefront of supplying innovative RFID technological solutions to clients across a broad range of industry sectors.



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