

EASY

LOGIC

RFID for RTIs

SMART ID SOLUTIONS



RFID FOR RTIS

A Returnable Transport Item (RTI) is anything that can transport products or goods in bulk, such as pallets, roll cages, Unit Load Devices (ULDs), reusable plastic containers, totes, trays, ingredient bins, dollies, IBCs (i.e. intermediate bulk containers), gas cylinders, drums, etc.

The use of RTIs has proven indispensable in the transportation sector, as well as in the consumer goods industry. However, RTIs are also subject to supply chain issues, waste, loss, operational inefficiencies, billing and accounting errors, global traceability regulations, and escalating management costs.

RFID tags can provide insight into the location of RTIs and the assets they transport. This extends far beyond the means of transport, but also to the recipients and users of RTIs, where RTIs are stored, and where RTIs need to be accounted for. RFID technology can be a vital tool for organisations to better manage, trace, track, and monitor their RTIs as they travel around the world.

Depending on the RTI's material (metal, plastic, wood, glass) and its contents (liquids or solids, metal products), EasyLogic can select transponders, for example, with HID Global, a major partner of ours with a variety of transponders for many applications.

Fotos: EasyLogic, Kathrein, HID Global

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RFID APPLICATIONS

REDUCE LOSS

Some RTIs can take weeks to be emptied or returned, making them ideal candidates for theft or damage. RFID tags can identify where this happens and help resolve it if it does occur. Furthermore, the more locations a container visits, the greater the chance of human error. RFID tags minimise the need for manual tracking. Additionally tamper-evident tags ensure that industrial containers or bags remain unopened during transport or storage.

IMPROVE INVENTORY MANAGEMENT

Using the Easylogic Track & Trace system, the information contained in the tag can help you determine how many containers you need to serve your customers.

The ability to extract the right Big Data from the system allows you to optimize your process.

COMPLY WITH ISO 17346

ISO 17364:2009 describes the RFID requirements for RTIs used in a supply chain. These include specifications for identifying the item, including semantics and the data syntax to be used. They also specify the data protocol to be used for interfacing with business applications and the RFID system, minimum performance requirements, and the radio protocol for reading the tag. EasyLogic often recommends HID Global tags for RTIs.

CHOOSE THE RIGHT READERS

Depending on your application and situation, EasyLogic recommends the right handheld scanners (from Zebra, Brady, HID, Chainway) or a portal system for a dock

door, or a tunnel scanner over a roller conveyor. We use industry-standard readers from Impinj, Zebra, Kathrein, or Keonn, and connect them to our EasyLogic Track & Trace server, which in turn exchanges data with your ERP or logistics system via a REST API.

TRUCK SYSTEM

For CWS, a large industrial laundry, EasyLogic developed a truck-mounted system that automatically tracks the loading and unloading of carts equipped with an RFID transponder using an RFID reader, baseboard antennas, and GPS locations. The software is intelligent enough to detect whether a cart has actually been unloaded or was only briefly placed on the loading ramp to make room for unloading other carts.

RFID TRANSPONDERS

As a proven system integrator in RFID identification technology, EasyLogic offers a wide range of secure contactless transponders (including those from HID Global, Avery-Dennison, Xerafy, Beontag, and Tageos) and readers. Choose from a wide range of memory sizes—64-bit to 16 kbit—and read/write capabilities.

Our secure RFID technology is available in LF (125/134.2 kHz), HF/NFC (13.56 MHz), Bluetooth® Low-Energy, and RAIN UHF from 860 to 960 MHz, enabling worldwide use without performance degradation.

Contact us via sales@easylogic.nl or call us using +31-182-389530.



EasyLogic
tunnel scanner



HID® EXO Keg Tag™ RFID Tags
Track metal returnable transport items



HID® SlimFlex™ RFID Tags
Robust and flexible RFID tags for HF and UHF tracking



HID® EXO Slim Tag™ RFID Tags
Wafer-thin UHF asset tags for containers or metallic equipment