

# RFID integration

## Logistics applications

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**RFID-Technology** taps potential with regard to a simplification of manual activities and the creation of transparent processes.

Data acquisition procedures, often prone to errors, always time and cost intensive, can be replaced with nearly automatic RFID measurement stations.

This leads to an immediate improvement in delivery quality and security, as well as to appropriate product tracking in production and distribution. The possibility of storing data on the RFID tag allows tracing throughout the entire supply chain, without having to go through the central administration.

### Potential

The use of RFID technology within the logistics chain makes possible an optimization of typical procedures, for example:

- ▶ **Goods-in**  
Automatic entry of goods and article data during receipt into goods-in department
- ▶ **Support for internal processes**  
Fork-lift tracing during storage and retrieval activities  
Simplification and flexibility of materials flow management through separate pallet and transport control
- ▶ **Goods-out and shipping**  
Automatic contents and integrity control during goods-out  
Monitoring of the loading activities in shipping and of transfers during transport

The customer can add to or edit the data stored on the RFID tag during the movement of the goods through the different steps of the production and delivery chains, from production start through distribution all the way to shipping and transport. This is one of the major advantages of RFID over barcodes, which do not permit data editing.

Recognition and readability even without visual contact, and also the almost total resistance against external influences are additional arguments in favor of RFID technology.

### Your partner IAL

The IAL company has been active as a system integrator and software developer in the logistics field for more than nine years.

We consider RFID technology to be the way of the future in view of the increasing automation of production processes and logistics networks. RFID technology unites the advantages of shorter through-times for goods, the optimization of goods management processes due to the more detailed data from the tracing of individual products, and the improvement of delivery quality.

The flow of goods and information can be "automatically" synchronized with the appropriate RFID techniques, allowing the customer to exercise discrete levels of influence on the underlying business processes.

We will support you as your competent partner in the planning and implementation of your RFID project.

## RFID by IAL

We have developed a useful multiple phase strategy for the installation of RFID technology, designed to balance costs and benefits for the specific targeted areas:

- ▶ Preliminary studies on technical feasibility  
Determination of the requirements, selection of the technical operations (frequency range, hardware, transponders)
- ▶ Analysis of the existing business processes  
Identification of possible areas of application and assessment of the benefits of RFID technology compared to in-place solutions (e.g., barcodes)
- ▶ Design and implementation  
Integration of the RFID technology into the existing company environment based on the IAL RFID system
- ▶ Installation and operation
- ▶ Maintenance and support

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