

## Product description

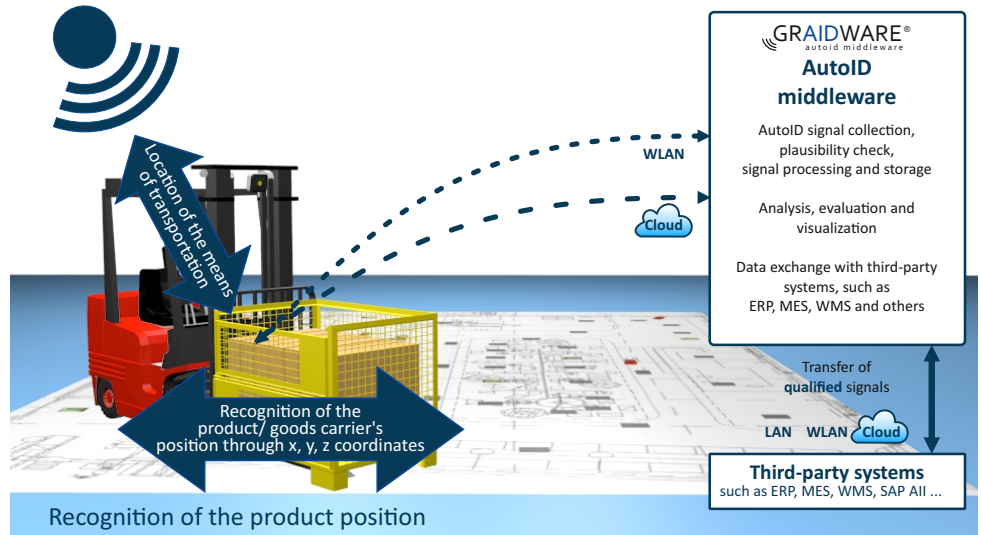
# Real-Time Locating System (RTLS)

### Description

Using a **Real-Time Locating System (RTLS)** makes it possible to recognize the positions of objects (such as forklift trucks, load carriers, handling units, components, products, persons and similar) in one or more than one predefined areas at up to 0.5 m accuracy.

It is possible to localize the position in space, as well as in height, incl. x, y and z coordinates (such as the height of the forklift's fork).

Position messages can be sent continuously or on call (such as during pick-up/ placement of a pallet by means of a forklift truck). Warehousing operations can be monitored in JIS racks by means of a handling unit, for instance as during product transports.



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### Components

#### Hardware

- Active transponders for the object to be traced
- Sensors, installed permanently, that cover a certain area

#### Software

- Smart Factory production logistic
- GRAIDWARE® SFP interface

The following functions are possible in combination with automated goods identification:

- Linking forklift truck position and identifying goods (such as during pick-up and placement); thus it is also possible to store the positions of transported/ handled objects (e.g. containers, cage pallets, pallets etc.)
- Identification of hall transfer areas (e.g. object leaves the hall via shipment/ factory gate)
- Identification of taking in/ taking out of stock from storage areas, high bays or bulk storage bins.

### Advantages

- Identification in real time mode and monitoring of object positions
- Reduced stocktaking effort
- Search time unnecessary
- Optimization of travel route
- Increase in process reliability

### Examples of application

- Warehouse logistics (high bay, bulk storage)
- Shipment
- Production in just in time / just in sequence (JIT / JIS) modes

### Functions

- Output of x, y, z coordinates
- Output of events when driving into/ out of a configured zone
- Visualization of the position on a layout plan
- Optional: objects which can be identified can be linked (e.g. pallet or cage pallet) with a forklift truck position

### Required system configuration

- GRAIDWARE® Basis
- The GRAIDWARE® software preconditions apply and must be met.

### Licensing

- Smart Factory production logistic (SFP)
- GRAIDWARE® SFP interface

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