SIGMA DIGITALISIERUNG GESTALTEN

GRAIDWARE® autoid middleware

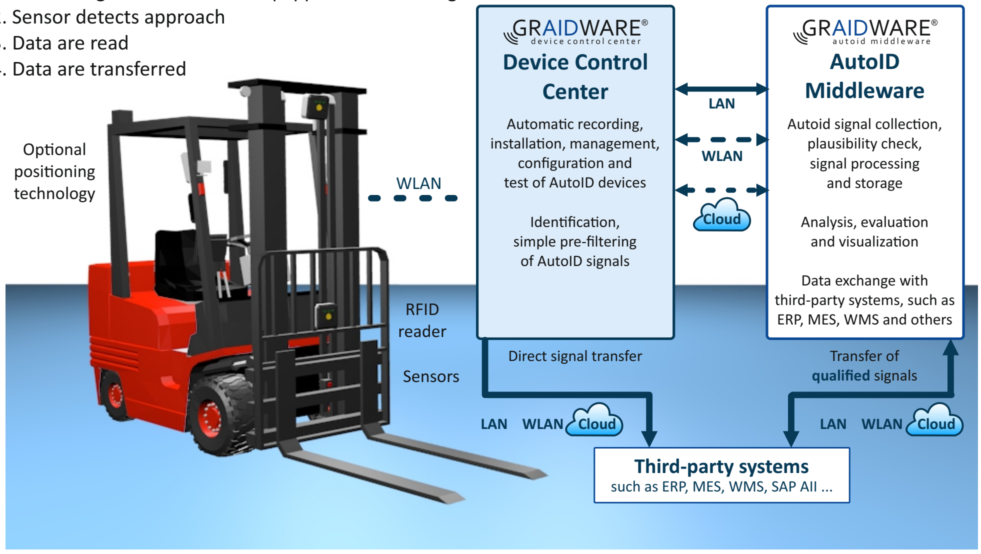
Product description

Identification on forklift truck

Description

RFID signals on fork lift trucks are identified in order to record and retrace the movements of goods on the forklift truck. In this process, marked objects (goods or goods carriers) are identified automatically when they are picked up by the forklift truck. The RFID identification devices are installed on the forklift truck, where the data are visualized. There is also an optional locating solution that may be used to determine and process accurate positions for the forklift truck and objects.

1. Goods or goods carriers are equipped with RFID tags
2. Sensor detects approach
3. Data are read
4. Data are transferred



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Components

Hardware

- RFID reader
- Sensor for loading recognition
- GRAIDWARE® hardware connector forklift type
- Connecting cable

Hardware (optional)

- RTLS - Real-Time Locating System based on ultra-wide band, consisting of:
  - Sensors, installed permanently, to cover the range of locating
  - Active tags on the forklift truck to detect position, travelling direction and fork height
- HF* locating system consisting of:
  - HF reader on forklift truck bottom and floor transponders, distributed across relevant hall areas
  - The transponders are read automatically when driven across

Advantages

- Avoidance of missing terminal entries due to higher level of automation
- Automatic inventory for subareas
- Avoidance of non-value-adding activities, e.g. by automatic entry or avoidance of manual entry into accounts by the forklift truck driver
- Prevention of search times to locate transported goods

Examples of application

- Goods entry/Goods exit
- Inventory management
- Intralogistics
- Shipment

Functions

- Identification of objects marked by RFID
- Automated identification of loading
- Output of information on a terminal (for instance item, batch, delivery, customer number, planned storage position and similar)
- Communication with central GRAIDWARE® server enables data exchange with third-party systems, such as inventory management in ERP
- Recording of forklift truck locations in the locating range covered
- Check-back signal of object locations based on recognized placement locations
- Identification of storage positions within bays or bulk storages

Required system configurations

- The GRAIDWARE® software preconditions are valid.
- Forklift truck with power supply (at least 24V)
- Terminal on forklift truck
  - Operating system: Microsoft® Windows® 7 or upgraded version
  - Microsoft® .NET Framework Version 4.5.2 or higher
  - 1 GB RAM main memory
  - Resolution: 1024 x 768 pixels
  - Touch screen
  - WLAN interface

Licensing

- Part of GRAIDWARE® Basis
- Add-on module of the GRAIDWARE® AutoID Middleware or the Device Control Center DCC

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*HF= High Frequency