SIGMA
EVOLVE DIGITALIZATION

GRAIDWARE®
autoid middleware

Module Forklift

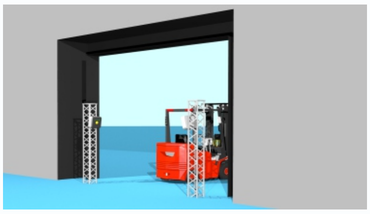
Detect - Identify - Visualize - Integrate

Automated transfer of data to ERP system ▪ Avoiding incorrect postings ▪ Automatic identification and localization ▪ Reduction of searching times ▪ Manual changes, if neccassary, can be done directly via terminal ▪ Reduction of process and error costs

Process overview

Detection

RFID Identifikation

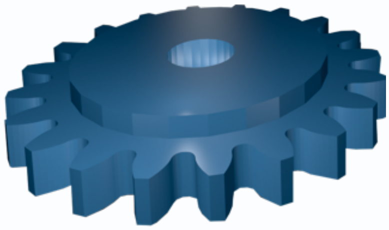


Warehouse exit
- detection of location change
- ERP posting

Warehouse entrance
- forklift detects entrance by floor transponders / RFID gate

Identification

RFID Identifikation



Identification of goods carriers
- forklift identifies goods in approaching

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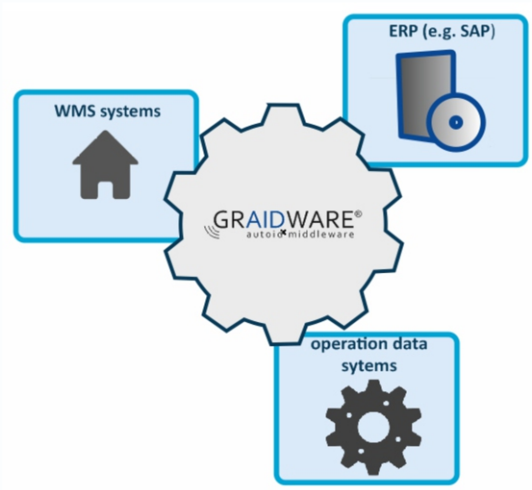
Identification of stock position
- stock position is determined
- posting in ERP system

Integrate

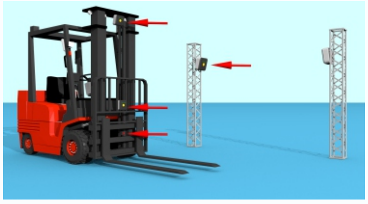
RFID Identifikation



Description

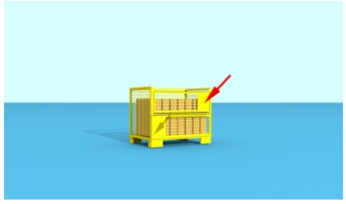
The forklift module not only allows you to easily capture and track goods movements, but also maximizes the efficiency of your logistics processes. By **integrating the ERP system** (e.g., SAP, Microsoft, etc.), data can be retrieved and displayed in real time on the terminal of the forklift. Tagged objects (goods or goods carriers) are identified automatically when they are picked up by the forklift. Wireless data exchange with the ERP system makes it possible to visualize related information (e.g., item, charge, storage position, etc.) on the terminal. The clear surface with neatly arranged touch control elements ensures simple, intuitive and safe operation of the terminal even during hectic operating times.

Labeling



Goods transfer and goods carrier

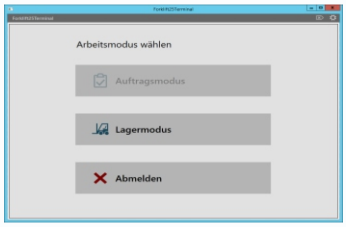
Forklift and locations of goods transfer (e.g. gates) are equipped with RFID technology and sensor technology

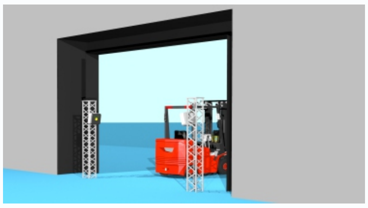


Detection

Warehouse entrance

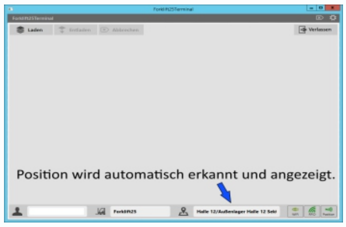
The forklift automatically recognizes the entry into the warehouse by floor transponders or RFID gates. In order to work with the terminal on the forklift, the driver logs on to the terminal with his personnel number and selects the necessary working mode.





Warehouse exit

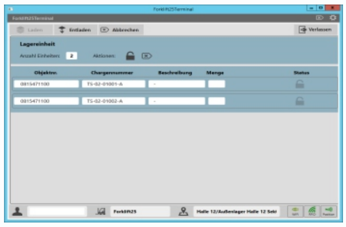
A further location change, e.g. when leaving the warehouse, is detected by floor transponders or RFID gate. Subsequently, a posting to the ERP system takes place.



Identification

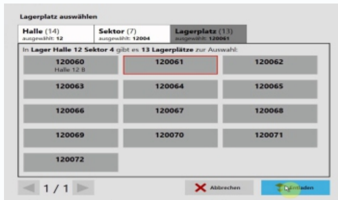
Identification of goods carriers

The product and / or the products carrier is identified by approaching with the forklift. The positions are then automatically detected by the forklift. If necessary, the user can make changes at the terminal manually .



Identification of stock postion

While warehousing, the storage position is identified automatically / partly automatically and transferred to the ERP system. On the terminal, available storage positions of the area are displayed automatically during the discharging process.



Components

Hardware

- Industry PC with touch screen
- forklift: please refer to RFID forklift

Software

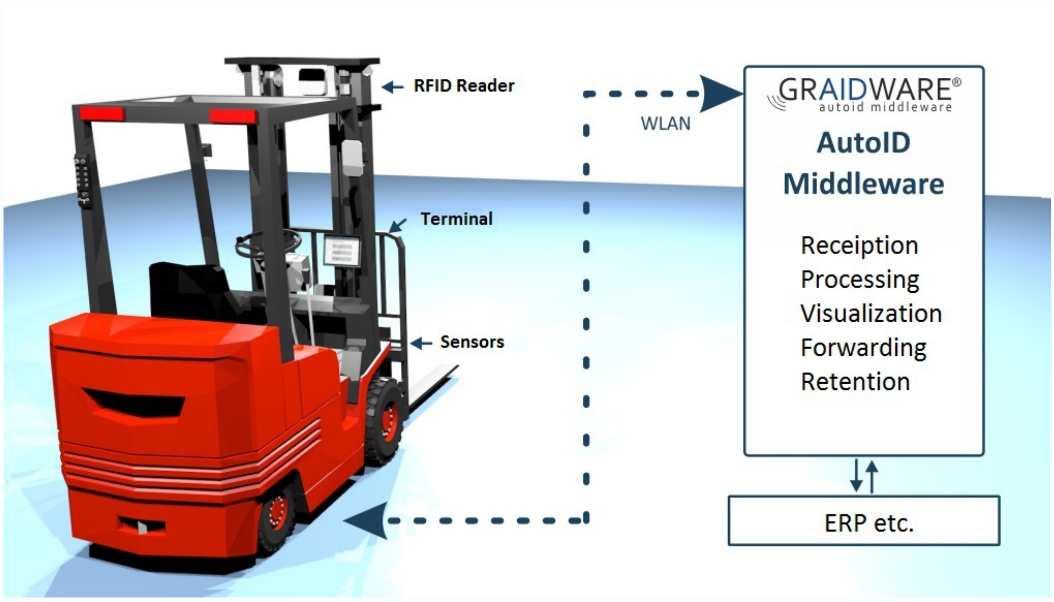
- GRAIDWARE® Version 1.5.4 with Forklift-Process

System requirements terminal

- operating system: Microsoft® Windows® 7
- Microsoft® .NET Framework from version 4.5.2
- WLAN-interface
- at least 2 GB RAM (4 GB recommended)
- Definition: 1024 x 768 pixels
- Compact Flash/ HDD: 32 GB

Licensing

- GRAIDWARE® Module Forklift
- Requirements:
- Module Order Management
- Module Data Factory
- GRAIDWARE® Base



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