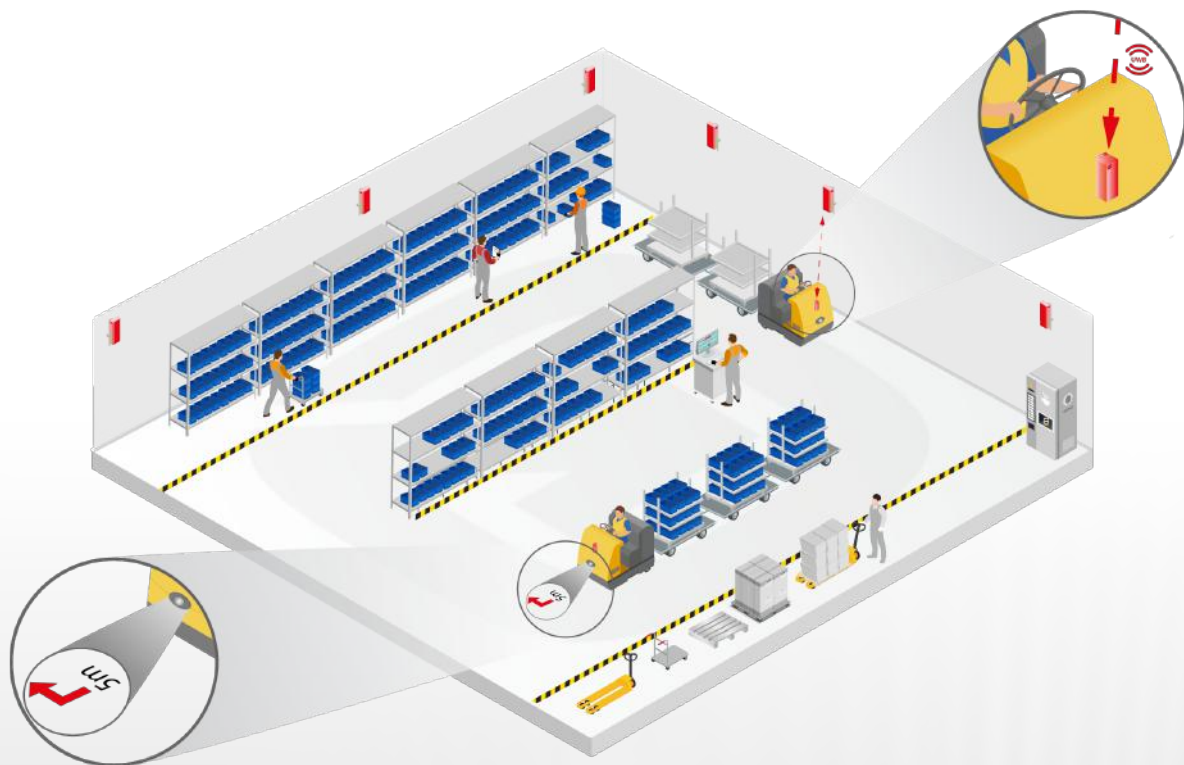


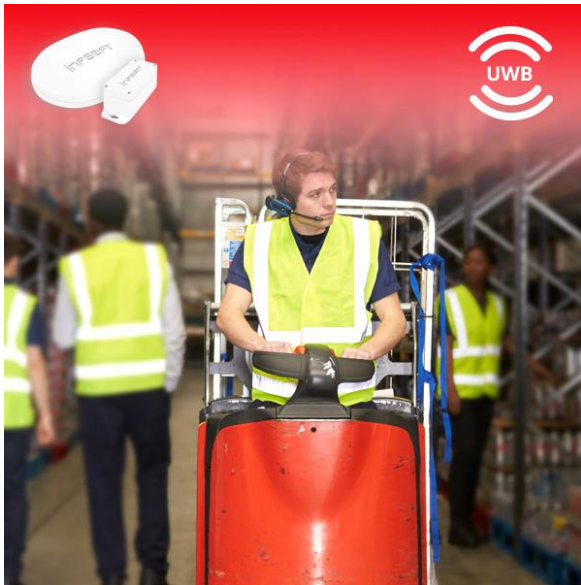


Indoor Navigation and Tracking of Tugger Trains



AT A GLANCE

- indoor navigation through hologram projector on the floor
- real-time localization of tugger trains
- location overview including status information of tugger trains



TECHNICAL IMPLEMENTATION

infsoft Locator Nodes equipped with an integrated Ultra-wideband (UWB) module are installed for indoor positioning. On each trolley train there is an infsoft Locator Tag for determining the position of the vehicle. The position data of the picking trolley determined by the infsoft Locator Nodes are transmitted to the infsoft LocAware platform® via Wi-Fi or Ethernet. Thanks to WebSocket, latency times of less than 300msec are also possible in this server-side locating procedure, so that the Routing SDK can output real-time information on the route train. In addition to displaying route instructions, it is also possible to display all sequence cars and their status in infsoft Indoor Tracking or an associated SAP environment.

PROBLEM DEFINITION

Several thousand goods are delivered by order picking vehicles to a large department store or production facilities for storage or further processing. By integrating a navigation solution for the driver, the most economical route is always selected, taking into account the current workload, so that delays in operations are reduced.

SOLUTION

Precise navigation and positioning based on Ultra-wideband (UWB) can ensure smooth logistics processes. A projector is installed on the order picking vehicles, which always projects the current route instructions to the floor and guides the driver to the correct shelf space. The corresponding destination is output via the order management system and is linked to the software for position determination and navigation. In addition, the locations of the trolley trains and information on the loaded materials can be called up at any time.

Imprint

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