

USE CASE

Cargo Tracking at a Container Port



AT A GLANCE

- server-based container tracking
- real-time container visibility and control



TECHNICAL IMPLEMENTATION

A Bluetooth Low Energy (BLE) beacon is placed on every shipping container. insoft Locator Nodes (housed in a robust outdoor case) are installed on the premises, which are connected to insoft 360° Antennas. The insoft 360° Antennas detect incoming signals from the beacons and submit the scan data via USB port to an insoft Locator Node. From there, the data is sent to the insoft LocAware platform®, where it is processed and transferred to an output medium. Based on the angle and distance determined, it is possible to calculate the position with an accuracy of 1 to 3 meters. Using a mobile app or a browser application, the position data can be accessed and the containers' location can be viewed on a digital map. A comfortable search function, which includes all device properties, allows for simple filtering.

Significant figures can be called up via insoft Analytics and can help to uncover potentials for further process optimization.

PROBLEM DEFINITION

All around the world, an innumerable number of businesses rely on cargo container ships to transport their goods and merchandise. Since the shipping process is very complex and contains many steps, there is a lot of uncertainty and potential for arising issues. In the worst case, wrong placement of containers can lead to delays of several month.

SOLUTION

A container tracking system ensures that the right cargo is on the right ship. The locations of all containers including information (e.g. weight, size, port of loading, final destination) and current status (e.g. discharged, waiting for transshipping) are visible and accessible at any time.

Personnel can automatically be informed if a container is not placed in the right section of the terminal or if it is moved without permission. The solution helps reduce container dwell time and minimize repositioning costs, quickly identify delays and deviations, and set up automated alarms and alerts for proactive incident response.

Imprint

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