

USE CASE

Cart and Wheelchair Tracking at an Airport



AT A GLANCE

- real-time localization of wheelchairs and baggage carts
- theft protection and utilization analysis



adjusting the staging of carts and wheelchairs accordingly.

Responsible staff can view the assets' locations at any given time in a web application. A mobile app can also be used, for example by wheelchair assistants in order to view the locations of all wheelchairs and find the nearest available one. Notifications can be triggered, such as alerting staff if an asset leaves a defined area (theft protection) or if the number of carts becomes low in places where they are needed the most (e.g. departures and baggage-claim areas). Furthermore, the solution can help to reduce the number of problematic carts or wheelchairs onsite by identifying assets that need repairs on a frequent basis.

PROBLEM DEFINITION

Airports are receiving up to several hundred requests for wheelchairs daily. As the demand for wheelchair service is rising, so are the delays for passengers waiting for assistance. Other important assets for airports are baggage carts. A lot of personnel are required to collect carts and return them to areas where they are needed. Still, carts sometimes run out when passengers need them. Lost or misplaced assets – whether they are wheelchairs or baggage carts – can cause enormous costs each year.

SOLUTION

A real-time tracking system creates visibility of important assets and can be used to significantly reduce costs associated with managing them. The solution captures the movements of wheelchairs and carts in relevant areas and ensures they are available for passengers when needed. The system also helps to better understand how the items are utilized. It aids in predicting high-demand times and enables

TECHNICAL IMPLEMENTATION

insoft Locator Nodes are installed across the airport buildings. Bluetooth Low Energy (BLE) beacons are attached to the assets to be tracked. The Locator Nodes receive the beacons' Bluetooth signals, process the provided data and transmit it to the insoft LocAware platform®. Here, the position of each asset is displayed on a map and motion statistics can be retrieved.

Via insoft Tracking, attributes such as the next maintenance date can be assigned to the beacons and can be searched for. Using the insoft Automation Engine, the location data can be linked to conditions, so that actions such as sending alert notifications can be triggered automatically. Significant figures can be called up via insoft Analytics and can help to uncover potentials for further process optimization.

Imprint

© insoft GmbH 2019. This content is protected by copyright. All rights to content and design are with insoft GmbH. You may not copy, republish, modify or transfer this work without prior written and agreed consent of insoft. Our content is regularly edited and carefully checked. However, we do not accept any liability with respect to the correctness, completeness and current status of the information offered here. All mandatory legal details can be found under: www.insoft.com/company/contact



insoft GmbH
Ingolstädter Str. 13
85098 Großmehring
Germany

Contact
Phone +49 8407 939 680 0
Fax +49 8407 939 680 12
contact@insoft.com
www.insoft.com