

USE CASE

Tracking of Disposables in a Laboratory



AT A GLANCE

- server-based inventory tracking and management
- item detection at strategic checkpoints
- automatic clearing during disposal



PROBLEM DEFINITION

In a medical laboratory, knowing what you have in stock and where it is located is extremely important for reducing costs and increasing productivity. The challenges usually surrounding a lab environment involve the loss of samples, loss of time looking for equipment, and labeling errors.

SOLUTION

An RFID localization system addresses all of these issues through automated tracking and control, which results in cost savings and a reduction of redundant work. The system can be used to track reagents and disposables, and offers a time-saving potential of up to 80%.

Personnel can manage laboratory inventory, place orders and keep track of them all in one place. Disposables are registered at strategic checkpoints – in the goods receiving department, at several storage locations, and at disposal points (where items are automatically cleared from the system). In addition, products can be manually checked in using an RFID handheld scanner. The system allows users to keep track of where inventory items are and how much is available, helping to avoid product shortages or stock levels that are too high. Laboratories can minimize the number and amount of inventory items stored, decrease waste generation and control waste disposal costs.

TECHNICAL IMPLEMENTATION

infsoft Locator Nodes are placed in strategic positions within the laboratory and are connected to UHF antennas, which enable an extended range of up to 6 meters. The disposables are labeled with passive RFID tags. The Locator Nodes detect labeled objects that pass in their read range. They function as a power source and transfer radio-frequency energy to the tag. ID and data from the RFID tag are then captured by the Locator Nodes and forwarded to the infsoft LocAware platform[®], where the data is processed. RFID readers can come in two types: fixed (Locator Nodes, deployed in the environment) and mobile (typically a handheld).

Employees can access the data via a web interface and check the inventory status at any time. Using infsoft Tracking, further attributes such as product type and inventory number can be assigned to the RFID tags, which can also be searched for. The inventory data are linked to conditions in the infsoft Automation Engine, allowing notifications or automated orders to be triggered, for example when stock levels fall below a certain value.

Imprint

© infsoft GmbH 2019. This content is protected by copyright. All rights to content and design are with infsoft GmbH. You may not copy, republish, modify or transfer this work without prior written and agreed consent of infsoft. 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.infsoft.com/company/contact



infsoft GmbH Ingolstädter Str.

Ingolstädter Str. 13 85098 Großmehring Germany

Contact

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