



# Bed management

Localise and manage medical devices in real time

Modern management of beds and other mobile medical devices helps hospitals to save time and money and conserve human and material resources.

Where are hospital beds located? Are they available or occupied? What is their hygienic and technical status? This information can be easily determined using the real-time localisation solution HPM<sup>®</sup> (Hygiene Process Management), which Stieglmeier offers together with its German partner company CLINARIS.



## Manual and automated detection

### Bed management for individual requirements

The aim of bed management is to determine the real-time location data of the tracked beds. This data can be complemented with status information using the HPM® application. For this purpose, the beds are labelled. The label features an NFC tag (optionally also RFID) and a QR code as well as an identification number that can be defined by the bed operator. There are 2 variants for determining the location:

#### Manual tracking:

With manual tracking, the location is determined by assigning the beds to their respective parking spaces. For this purpose, the parking spaces and beds are fitted with labels. Nursing staff or technicians scan the NFC tags or QR codes on the bed and at the bed location, thereby linking them.

#### Automated tracking:

With the help of a tracking infrastructure based on **Bluetooth Low Energy (BLE)**, **RFID** or **WLAN**, the location of beds or other mobile medical devices can be determined automatically. The beds are equipped with corresponding transmitters for this purpose.

#### Request or reassign status:

Using the HPM® application on a smartphone, tablet or hand scanner, the nursing staff can address the bed and check its current status or assign it a new status. This includes, for example, the **occupancy status**, the **hygienic condition** or the question of whether there is a defect or **maintenance** is due. This information is displayed together with the current location of the bed on all mobile devices with the HPM® app and on the browser view of the ward PC.

All the procedures described can also be used to manage bedside cabinets, wheelchairs, medical equipment and other selected items of furniture.

## Smart Hospital

### Digital solutions for significant relief

Bed tracking is an important component of the **Stieglmeier Connect** portfolio. In line with the motto 'Smart Hospital', our Connectivity Unit in Herford develops digital solutions for greater safety and relief in hospitals. The **cooperation with CLINARIS** is a good example of our successful partnerships with experienced, innovative partners.

#### Advantages of real-time tracking:

- Quick access to urgently needed beds and medical products improves the efficient utilisation of the inventory.
- Search and walk times are reduced.
- Saves time and reduces the workload for the staff.



#### ESSENTIALLY BETTER

### High-quality labels

- Disinfectable and washable in accordance with DIN EN 60601-2-52
- Can be used at temperatures from -20 to +85 °C
- Chemical resistance
- Scrub-wipe disinfection<sup>1</sup>
- Automated reprocessing<sup>2</sup>

<sup>1</sup>Dismozon Pur (Bode Chemie), Incidin Plus (Ecolab), Perform (Schülke), Terralin Protect (Schülke), TPH Protect (Schülke)

<sup>2</sup>Sekumatic FDR and FKN (Ecolab), Neodisher Dekonta AF (Dr. Weigert), Neodisher TN (Dr. Weigert)

## Benefits for hygiene

- Contamination is detected in real time and chains of infection can be interrupted at an early stage.
- Labelling contaminated beds and other medical devices improves safety for patients, visitors and staff.
- An automatically generated proof of reprocessing, including all individual steps, can improve the hospital's legal position in the event of a lawsuit (reversal of the burden of proof).
- Interfaces to hygiene management systems are possible in order to automatically transfer the patient's hygiene status to the beds and medical devices located at the storage location.



## Benefits for the technical department

- Faster repairs increase the availability of beds and other medical devices.
- Defects can be reported paperless.
- Automated forwarding of defect reports to Stieglmeyer possible during the warranty period.
- Maintenance, inspection and calibration dates are shown in the HPM® application.
- Bi-directional interface to CAFM systems possible.



Are you interested in digital bed tracking? Then contact Dennis Wilkening, the team leader of our Connectivity Unit. He will be pleased to advise you and put you in touch with CLINARIS.

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