Cloud-based real-time device tracking

Indoor Location Using Dex7 IoT Healthcare

Dex7
IoT Healthcare

Real-time location information is a valuable tool for optimizing utilization and resource planning of mobile devices in hospitals. In fact, most delays and waiting times that employees and patients have to deal with in everyday hospital life are caused by time spent searching for passive means of transport or mobile medical technology, for example. Devices are generally available in sufficient numbers, but their current location is not fully documented. The real-time tracking and visualization function of the Dex7 IoT Healthcare platform helps to significantly reduce search times and improve hospital logistics inside and outside buildings.
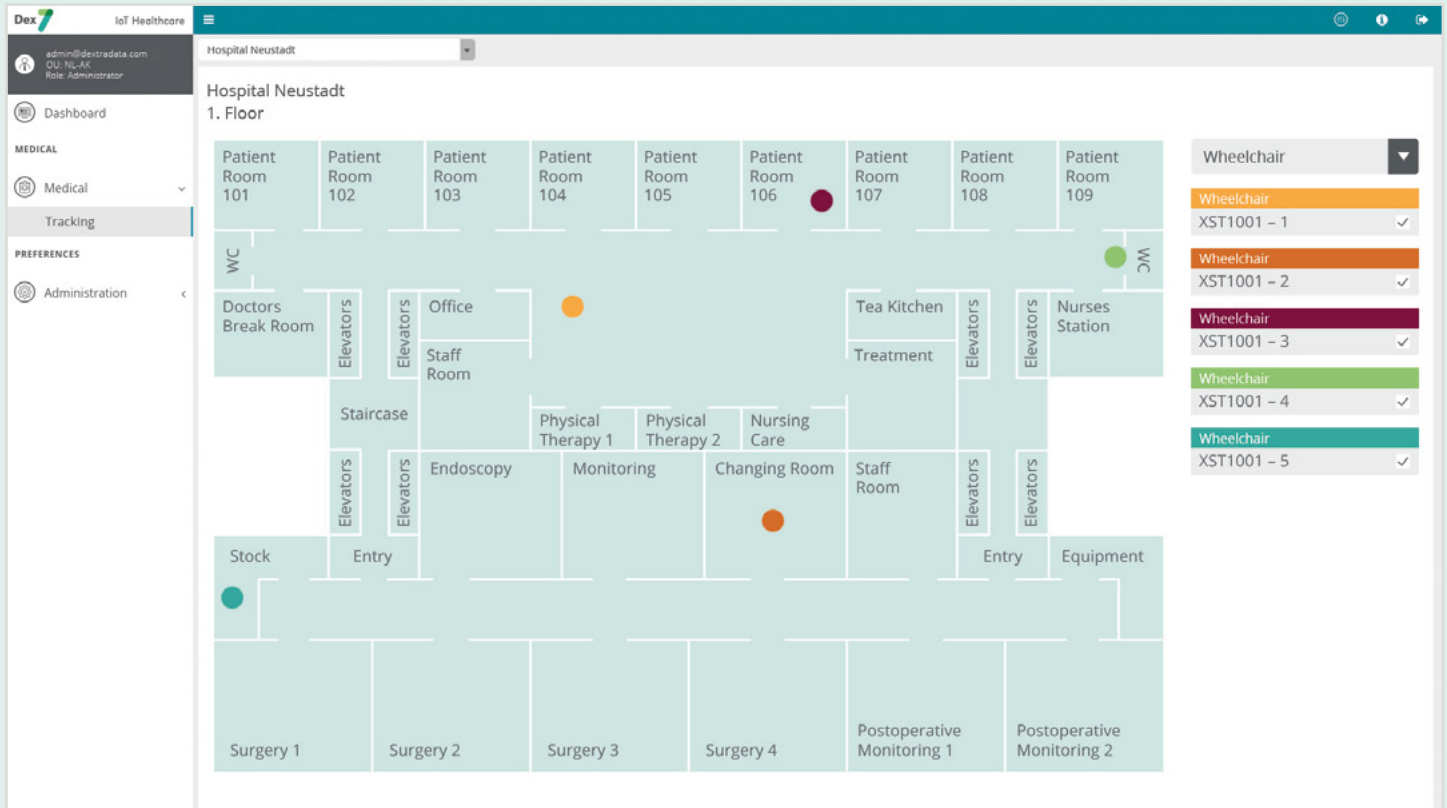
You search, Dex7 finds

Mobile ultrasound or X-ray devices, hospital beds, trolleys, wheelchairs, infusion pumps, etc. can be identified and located at any time using appropriate sensors or beacons. The employed technology depends entirely on the respective application and the desired precision of the localization. Whether RFID, BLE, NarrowBand, GSM, Wi-Fi, or GPS – the Dex7 IoT Healthcare platform flexibly processes all this real-time data and displays it according to user requirements.

Benefit from the advantages of the Dex7 indoor location function:

- Real-time location information of all assets
- Consistent equipment organization and logistics
- Time savings due to instant localization of the required devices/aids
- Improved resource and utilization planning
- Real-time inventory
- Daily stock control and security checks

Indoor Location Application Example

ILLUSTRATION
Real-time location information of mobile hospital assets can be viewed in the digitized floor plan. Time-consuming searches are made obsolete.

Role-specific Visualization of Tracking Information

The technical and nursing staff looking for the device on site will find it immediately by checking the digitized floor plan, which indicates the item's location. The information of the cloud-based solution can be displayed on mobile devices running any major operating system (Android, Windows, iOS). The precise location information speeds up ad-hoc searches and makes it easier to find the devices. In addition, service technicians can integrate the location information into their daily workflow and thus avoid walking unnecessarily long distances or wasting time searching for items.

Asset management and the dispatcher are supported by a tabular overview of all devices, which also provides relevant information on service intervals and inventory data. The data facilitates reporting and helps to optimize resource and capacity planning.

Inventory taking and control

Real-time location information also simplifies inventory taking and regular inventory control. Alerts/warnings from the system inform you if a device can no longer be located. The daily report provides an accurate overview of all assets that have not logged on to the system within the predefined time window (depending on the technology used). Focused searches are made possible by drawing on the most recent location information.

We support you with your digitization projects. Our experts from the fields of medical IT, business consulting, and DevOps join forces with you to develop a technology solution that meets your requirements and your unique business case.

DD - DEX7 - 508