# RFID in **Healthcare and Medical** Applications

HID

# Speed Up Inventory Management and Avoid Errors

**RFID in healthcare is expected to grow 21% to $12 billion globally between 2020–2027\*.**
HID Global RFID tags and beacons are vital components in the effective management and use of medical equipment and supplies. As an industry leader with dedicated RFID engineers and fully automated production, HID Global produces contactless transponders which are ideal for critical medical devices and applications. They can help medical facilities improve care and better control risk.

## ASSET MANAGEMENT

Healthcare providers around the globe use HID RFID transponders to help effectively manage and use medical equipment, thereby optimizing inventory management and reducing human error in healthcare processes.

Our miniaturized RFID tags allow greater accuracy and speed for tracking assets in healthcare environments and enable automatic calibration for sophisticated electronic devices. For consumables, RFID technology can decrease errors and provide appropriate validation to positively influence patient outcomes and enhance staff safety.

*\*Precedence Research, RFID in Healthcare Market, Regional Outlook 2020-2027*

# HID Advantages for Medical Applications

- Patient safety and higher quality of care
- Reduction of costs:
  **Direct** (timing, coordination, satisfaction, occupancy)
  **Indirect** (insurance rates, legal expenses, labor)
- Higher efficiency by visibility of assets and Supplies (stock, bed, room, equipment, medicine)

Increase patient security and safety

Cold chain traceability, cooking temp profile, room profile

Automate recording and limit errors

Optimize equipment flow, utilization, logistics
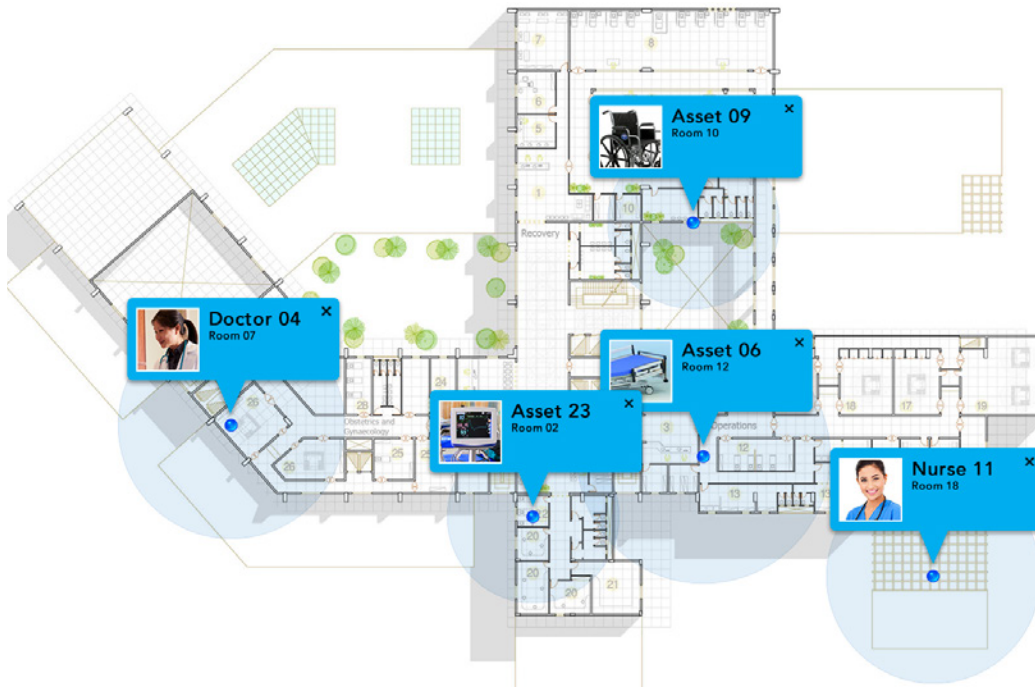
Secure specimen and exchange with BioBank

Improve order / supply chain logistics

Secure surgical acts

Reduce inventory process and optimize re-provisioning

# Smart Healthcare Solution: HID Location Services

To address the unique dynamics and optimize the many processes of hospital and clinical facilities, the biomedical and operations teams need a real-time view of how staff, patients and visitors move throughout the building. This solution is now available thanks to HID Global.

HID Location Services is a unified solution that delivers real-time location (RTLS) awareness of patients, staff and equipment assets at a fraction of the cost of traditional location service technologies. The system combines the power of Bluetooth Low-Energy (BLE) beacons, current WiFi infrastructure and cloud management technologies to provide a unique experience inside and outside of the hospital.

As a result, hospital organizations receive increased visibility into the precise location of facility assets in a defined space and can use data-driven analytics to optimize clinician accountability, patient throughput and asset management.

- **Asset Location:** Provides visibility into location of mobile medical assets, reducing required inventory and search times
- **Efficient Collaboration:** Locates medical personnel quickly to improve emergency situations and optimize workplace utilization
- **Patient Safety:** Reduces wait times and Increases patient satisfaction by eliminating system bottlenecks
- **Wayfinding:** Helps patients and visitors find their destinations at the campus through the assistance of beacons and wayfinding apps
- **Extended Solution Enablement:** Monitors temperature, verifies sanitation compliance and enables smart parking

**HID BEEKs™ BLE beacons**
are available in multiple form factors to suit healthcare organization needs, including patient wristbands and employee badges with optional duress or physical distancing alert.

# RFID for Medical OEM Applications

## SURGICAL TOOL IDENTIFICATION AND TRACKING

Secure surgical acts by ensuring that the right instrument, cutter and pump are used with the correct parameters. Ensure that the appropriate decontamination, maintenance and replacements are following compliance procedures. Create an inventory of biological probes stored in cryogenic liquid nitrogen environments quickly and error-free, saving time and costs. Special tag options with FRAM memory withstand even the radiation of gamma sterilization.



| Brick Tag / FIT Tag | Glass Tag | LogiTag | Embeddable RFID | Piccolino Tag |

## SCRUBS, LINEN AND GARMENT MANAGEMENT

The Healthcare sector is one of the largest users of flat linen and linen garments. Linen management can be very time consuming and labor intensive, keeping experienced personnel away from their core responsibilities with patients. Tracking linen is also one of the costliest problems in the healthcare industry. HID's advanced linen management solution, ACUITY, combines industry leading UHF RFID technology (LinTRAK™ tags, fixed and mobile reading stations), cloud software and integration services to help laundry professionals efficiently and accurately track linens, workwear, and other textile assets in real time to improve inventory visibility, reduce losses and shortages and ensure hygiene quality standards are followed, hence reducing the spread of infections.



**LinTRAK™ Laundry Tags**

## ASSET IDENTIFCATION AND TRACKING

Healthcare assets are expensive and thus should be properly cared for to ensure maximum equipment lifecycle. Our tags can help optimize your hospital's equipment utilization, prevent shrinkage and loss, optimize patient and bed flow along with room occupancy and give you real-time inventory management. Advanced passive RFID tags like the Sense Magnus® product line help monitor temperature and even the fill level of vaccines and other critical items.

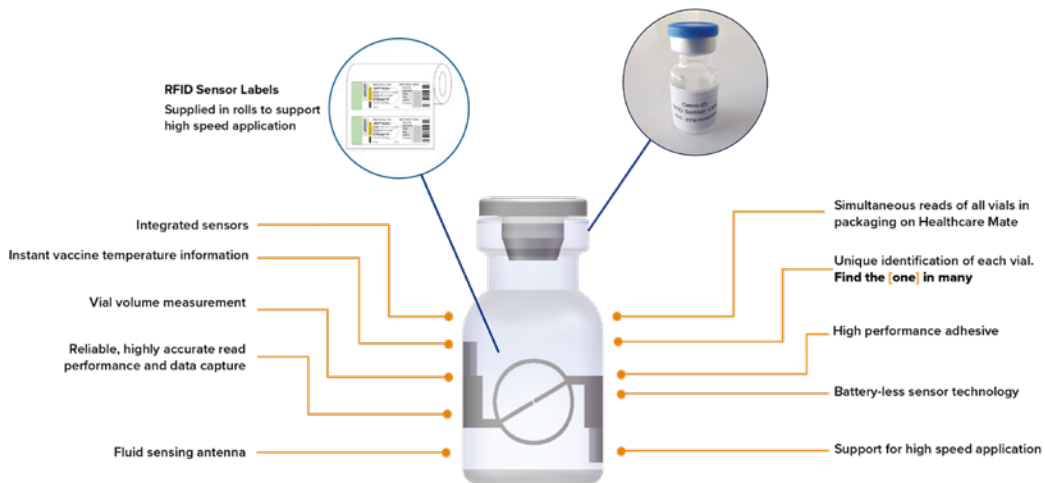| RTLS Beacons | InLine Tag | (On-metal) Label | IN Tag |
| --- | --- | --- | --- |

| SlimFlex ™ Tag | Seal Tag | TapMark™ / Flex Tags |
| --- | --- | --- |

**RFID Sensor Labels**
Supplied in rolls to support
high speed application

Integrated sensors

Instant vaccine temperature information

Vial volume measurement

Reliable, highly accurate read
performance and data capture

Fluid sensing antenna

Simultaneous reads of all vials in
packaging on Healthcare Mate

Unique identification of each vial.
**Find the [one] in many**

High performance adhesive

Battery-less sensor technology

Support for high speed application

## SENSE MAGNUS TEMPERATURE MOISTURE AND FLUID SENSING

Our new Sense Magnus range consists of battery-less temperature, moisture and fill level sensing labels and tags. Some of the benefits include instant temperature information, volume measurement, unique identification for each vial, support for high-speed application and simultaneous reads of all vials in packaging on Healthcare Mate.

Learn more at www.hidglobal.com/healthcare or by emailing tagsales@hidglobal.com

**HID**

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