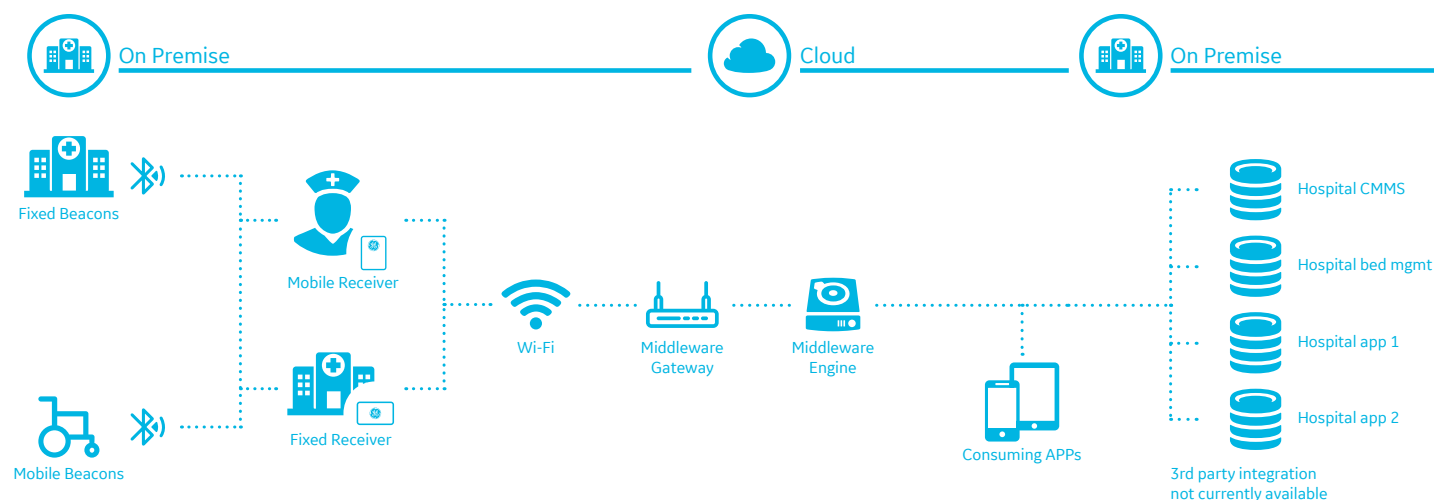
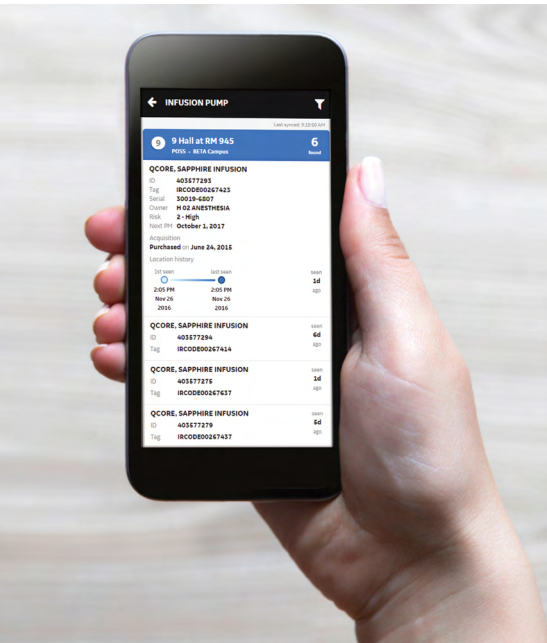




Encompass

Encompass is a web-based, cloud deployed, Real Time Location System (RTLS) to track, manage and analyze location data for the mobile assets.





The mobile applications

FindIt

FindIt is the application that helps enable healthcare professionals to locate the mobile assets in a timely fashion.

What does it do?

- Enables users to locate the equipment that has been tagged with a Bluetooth® Low Energy (BLE) tracking beacon
- Enables filtering by equipment classification and by current location
- Allows search for a unique equipment by querying equipment attributes
- Gives details of the equipment like scheduled Planned Maintenance (PM), open Service Requests (SR), equipment acquisition method, dwell time, and location information indicating when the equipment was last been seen/detected by the Encompass Platform

What does it run on?

- HTML web application viewable on desktop, tablets and phone sized devices
- Supported web browsers:
 - Microsoft Internet Explorer®
 - Google Chrome®
 - Mozilla Firefox®
 - Safari®

How does it do it?

- FindIt leverages integrations with Enterprise Asset Management (EAM) system to get information about the equipment to display.
- It merges the equipment information received from the EAM with the location information that is sent from the on premise Encompass Platform.



Managelt

Managelt is the application that helps enable healthcare professionals to manage their mobile assets and make sure that the assets are ready when needed as well as have a better inventory count.

What does it do?

- Provides users with the ability to set up Par Locations for any clean room or unit within the customer facility for a given equipment classification (e.g. IV Pumps, Food Pumps, etc.)
- Enables a real-time monitoring capability indicating the count of equipment by equipment classification in the par location
- Provides summary count information indicating the number of par levels that are within an acceptable range, above and below the acceptable range, and empty par levels
- Enables users to filter par locations in view based on a number of par location attributes such as facility, building, floor, unit and location type (unit or clean room) and equipment classification
- For each par level, Managelt also displays the count of equipment for the same classification that can be found in the nearby Soiled Room to enable quicker response
- Printable equipment count views to provide to staff responsible for restocking

What does it run on?

- HTML web application viewable on desktop and tablet sized devices
- Supported web browsers:
 - Microsoft Internet Explorer
 - Google Chrome
 - Mozilla Firefox
 - Safari

How does it do it?

- Managelt uses the same EAM data integrations that support FindIt and leverages the same equipment classifications as defined by the source EAM.
- Managelt does not just check par location counts on predetermined time intervals, but instead is able to actively monitor par locations due to the real-time event driven nature of the Encompass Platform.

Hardware Specifications

Asset Beacon

These beacons are ideal for asset tracking in all forms.

These small, coin cell beacons are optimized for long battery life within healthcare environments. They've been certified for EMC compatibility with medical devices, are made of materials to withstand common cleaning agents, and have a long two-year battery life when used as part of GE's solution.

| | |
|-----------------------|---|
| Wireless | Bluetooth Smart (4.0 and 4.1) |
| Operating Modes | Custom mode optimized for performance and battery life |
| Beacon Interval | 2 seconds |
| Dimensions | 1.46" (37mm) x 1.06" (27mm) x 0.44" (11.1mm) |
| | 1.81" (46mm) x 1.06" (27mm) x 0.52" (13.1mm) (Including VHB Tape and the lanyard accessory) |
| Battery | Fixed CR2032 220mAh |
| Antenna Type | Omni directional |
| Operating Temperature | 32° F to 104° F/0° C to 40° C |
| Battery Life* | 2-3 years |
| Regulatory | EMI/EMC (FCC/EU), safety (UL), and Medical EMC (IEC 60601-1-2) |
| Cleaning | Tested for a lifetime of cleaning with 15 common cleaning agents** |

Location Beacon

These beacons are used to define known locations.

These beacons are made to be attached to walls throughout a facility. The small and rounded shape is aesthetically pleasant and reduces potential damage. Installation is simple: peel tape and attach to the wall. No wires or communication infrastructure is required, and the device is also removable. The housings are cleanable with common agents, the unit will naturally blend into its surroundings.

| | |
|-----------------------|--|
| Wireless | Bluetooth Smart (4.0 and 4.1) |
| Operating Modes | Custom mode optimized for performance and battery life |
| Beacon Interval | 200 ms |
| Dimensions | 5.2" (131 mm) x 3.22" (82 mm) x 0.87" (22.1mm) |
| Battery | Two replaceable, standard AA batteries |
| Antenna Type | Directional antenna with 120° beamwidth |
| Operating Temperature | 32° F to 104° F/0° C to 40° C |
| Battery Life* | 2-3 years |
| Regulatory | EMI/EMC (FCC), safety (UL) |
| Cleaning | Tested for a lifetime of cleaning with 15 common cleaning agents** |

Fixed Receiver

This fixed receiver is ideal for storage locations

This small, AC-powered receiver is always listening for beacons. It's unobtrusive design is ideal for healthcare environments in conjunction with crowdsourcing mobile receivers or as a stand-alone solution without mobile receivers. Data is sent to the network across a secure wireless connection using Wi-Fi, and AC wall power is required.

| | |
|--------------------------|---|
| Wireless Compatibility | Wi-Fi 2.4GHz 802.11 b/g/n Wi Fi 5GHz 802.11 a/n Bluetooth Smart (4.0 and 4.1) |
| Operating Temperature | 32° F to 104° F/0° C to 40° C |
| Wi-Fi Security | WPA/WPA2 Personal (PSK: TKIP/AES) WPAWPA/WPA2 Enterprise (TKIP & AES: PEAP-MSCHAPv2) |
| Wireless Bandwith Usage* | ~1% |
| Operating Beacon Modes | Custom mode optimized for performance and battery life |
| Dimensions | 5.2" (132.3 mm) x 3.67" (93.3 mm) x 1.19" (30.2mm) |
| Power | Connect to standard AC wall outlet |
| Antenna Type(s) | Wi-Fi omni directional Bluetooth directional patch |
| Regulatory | EMI/EMC (FCC/EU), safety (UL), and Medical EMC (IEC 60601-1-2) |
| Cleaning | Tested for a lifetime of cleaning with 15 common cleaning agents** |

Mobile Receiver

The mobile receiver leverages crowdsourcing to convert location data into operational outcomes.

This wearable receiver is designed to be worn as a personal accessory and reaches areas of the hospital not otherwise on the network—expanding the effective coverage. The receiver hears fixed and mobile beacons and leverages the Wi-Fi network to securely send data to the cloud. Mobile receivers enable crowdsourcing of data: the data from all mobile and fixed receivers is evaluated and reduced to valuable information. The rechargeable battery lasts longer than a 12 hour shift and charges on a small, dedicated charging dock when not in use.

| | |
|--------------------------|---|
| Wireless Compatibility | Wi-Fi 2.4GHz 802.11 b/g/n Wi Fi 5GHz 802.11 a/n Bluetooth Smart (4.0 and 4.1) |
| Operating Temperature | 32° F to 104° F/0° C to 40° C |
| Wi-Fi Security | WPA/WPA2 Personal (PSK: TKIP/AES) WPAWPA/WPA2 Enterprise (TKIP & AES: PEAP-MSCHAPv2) |
| Wireless Bandwidth Usage | ~1% |
| Dimensions | 2.52" (64 mm) x 1.73" (44 mm) x 0.91" (23.2 mm) |
| Battery | Lithium ion 940mAh |
| Antenna Type(s) | Wi-Fi omni directional Bluetooth directional patch |
| Battery Life* | >14 Hours on a full charge |
| Regulatory | EMI/EMC (FCC), safety (UL), and Medical EMC (IEC 60601-1-2) |
| Cleaning | Tested for a lifetime of cleaning with 15 common cleaning agents** |

Mobile Receiver charging dock

This small charging dock is designed to sit on a desk or other surface and can charge up to 10 mobile receivers at once.

| | |
|------------------------|--|
| Power | Input: 120-240Vac 50/60Hz 2.4A Output: 12Vdc 4.16A (50W) |
| Dimensions | 7.78" (197.5 mm) x 5.41" (137.5 mm) x 1.68" (42.7 mm) |
| separate ac cable (US) | GE-MB6000CABLE-US |
| separate ac cable (EU) | GE-MB6000CABLE-EU |
| separate ac cable (UK) | GE-MB6000CABLE-UK |
| Cleaning | IP50 rated, tested for a lifetime of cleaning with 15 common cleaning agents** |

Gateway Server Requirement

Middleware Gateway Client

Gateway server and application serving as a single exit/proxy to the Cloud.

| | |
|-----------------------|--|
| RAM | 8GB |
| OS | Windows® Server 2012 Windows Server 2016 |
| Processor | 4 CPU (Intel(R) Xeon(R) CPU E5-2660 0 @ 2.20GHz |
| Remote Access | GE Support team requires VPN Access with Administrative rights to Gateway server |
| Internet Connectivity | Secure Socket Layer encrypted connectivity to cloud platform |

Customer success and training

The implementation of the technology is only successful if paired with change management and process improvement strategies that will ensure sustainability and adoption of technology.

Customized customer success and training plans include:

- A Customer Success change management working session that will bring key stakeholders together in a steering committee format to ensure structure and governance and proper adoption of the technology.
- Education of Customer Staff through End-user Training by GE Product Specialists or through the Train the Trainer Program***.
- Go-Live Support during the first critical days of system operation.
- Post-Go Live Support and Follow-Up Visit for system fine-tuning and optimization, product review and advanced techniques as well as introduction of optional modules. Content will be defined based on specific customer needs.

(*) Battery life and performance estimates are based on normal usage with good network coverage and performance (for example -65dBm signal strength or better; 20 dB signal to noise ratio, and thoughtful channel planning).

(**) Cleaning chemical list: The Clorox® Company - 409 Glass and Surface Cleaner; Steris - Coverage Plus Germicidal Surface Wipes; PDI Super Sani Cloth; Isopropyl alcohol (70%); Diversey - Virex II 256; Clorox Bleach; Diversey - Dimension 256 Neutral Disinfectant Cleaner; Clorox Healthcare Bleach Germicidal Wipes; Clorox - Dispatch with Bleach; Sani Professional Sani-Wipes; PDI Sani-Hands; SC Johnson - Windex® Original Glass Cleaner; Hydrogen peroxide; Mild dish soap.

(***) The Train the Trainer Program approach transfers GE's best practice educational methodology to predefined target members in the customer staff. They will be educated in cascading the training in an autonomous fashion. Thus, an in-house team is created to meet ongoing customer training needs.



Imagination at work

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