



enlighted™

A Siemens Company

Transforming Healthcare Delivery

Enlighted's healthcare solutions improve the patient experience of care, while reducing healthcare delivery costs by increasing staff and asset productivity. Enlighted's IoT platform enables real-time location services, space usage analytics, human-centric lighting control, and more.

Healthcare Made Better and More Efficient

Enlighted creates an IoT infrastructure in the building by installing wireless sensors within light fixtures. Ceiling light fixtures provide ideal sensor location and density to capture robust data for applications including Real-time Location Services (RTLS). Each sensor is powered by the light fixture and makes each light individually intelligent. Smart lighting provides advanced lighting control features and generates significant energy savings.

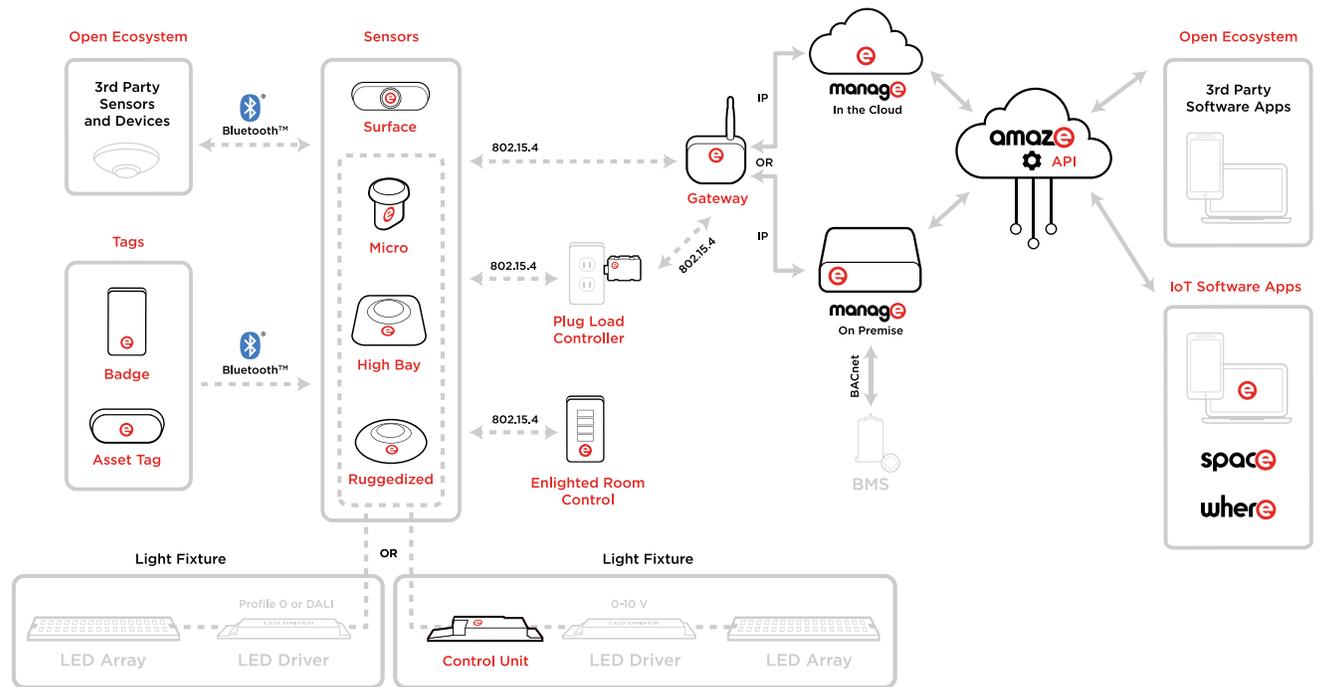
Care providers and biomedical engineering teams can then use reliable, room-level accurate RTLS capabilities to locate equipment, staff, and patients. Healthcare facilities planners have access to never-before-available data about how areas and rooms in the building are used, which helps identify new ways to optimize for patient care and operational efficiencies. Human-centric lighting improves the well-being of patients and staff, while increasing energy efficiency.

The Enlighted IoT platform uses open industry standards and data APIs to integrate seamlessly with other healthcare applications and systems.

All of this is accomplished using an IoT platform infrastructure that can pay for itself through energy savings.



How the Enlighted IoT Platform Works



The Enlighted IoT platform includes a dense network of lighting-based sensors, gateways, asset tags and badges, and advanced cloud-based data and applications. These components work together to deliver an integrated, lighting-based smart building platform.

A Dense, Advanced Sensor Grid

Enlighted sensors are installed in each lighting fixture in a building. Each sensor possesses temperature, light, motion-sensing, and bluetooth capabilities.

Asset Tags and Badges

The Enlighted IoT platform uses physical tags to locate equipment as well as visitors, staff, or patients in real time. These tags use Bluetooth LE to communicate with sensors throughout the building, allowing staff to pinpoint the location of equipment and people at any given moment.

Robust and Scalable Wireless Network

The Enlighted IoT platform's robust and scalable wireless mesh network is capable of managing over 18,000 sensors per building.

Cloud-Based Data and Apps

All sensor data is stored in a central data repository where it is accessed by advanced software applications to deliver detailed insights into healthcare facility operations.

Enlightened Space: Fact-Based Facilities Planning

The Enlightened Space application provides factual data to healthcare facility planners, department managers, and executives about how the building is being used.

This data is collected multiple times per second 24/7, 365 days per year. Space provides accurate, detailed occupancy views, as well as extensive utilization analytics for any selected time period and any area within a building. It also has the ability to benchmark across a portfolio of buildings.

Facilities managers can improve room usage for waiting rooms, conference rooms, OR, ED, break areas, and offices. They can view usage and utilization by hour and day as well as viewing by room type, or most or least-utilized spaces. The app also provides trend timelines, and vacancy reports detailing the percentage of unoccupied space. Motion trails can be analyzed to understand movement patterns in the facility at different times of the day or week, such as cleaning staff coverage in a specific area.



Enlighted Where: RTLS Asset Management

Healthcare professionals want to take care of patients, not spend their valuable time searching for medical equipment.

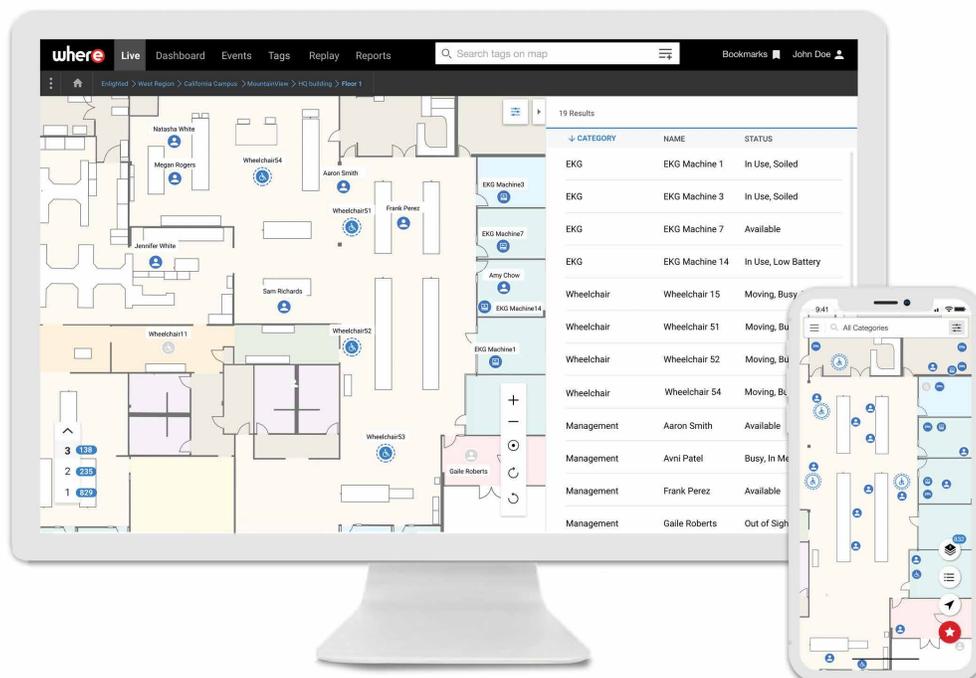
Enlighted's Where application delivers room-level, accurate, reliable location services, including PAR (Periodic Automatic Replenishment) level management capabilities.

Powerful Asset-Location Features

Enlighted's software calculates and records each asset's location in real time. The software can replay location history for up to one year, and can archive data. Customizable reports about asset usage patterns lead to better allocation of hospital resources, improved purchasing planning, and superior real-time activity monitoring.

Key Benefits

- Reduced search time: Users can locate assets in real-time across one or more facilities.
- PAR level management: Mobile delivery of real-time alerts enables fast response to critical events, based on asset location or count.
- Improved inventory management: Managers can monitor how and where assets are used, reducing equipment losses and unnecessary equipment purchases or rentals.
- Broad accessibility: Web browser and mobile (iOS, Android) app support.



Enlightened Where - Patient and Staff Locating

The ability to locate patients and co-workers quickly and accurately boosts overall productivity, increases patient satisfaction, and reduces staff frustration.

Identifying where staff are in real time, with room-level accuracy, also leads to better workflows. For example, when a caregiver enters a patient room, a nurse call cancellation can be automatically triggered using data APIs from the Enlightened system.

Powered by sensor data, the Enlightened Where application also features geofencing capabilities that make it easy to draw an electronic boundary around any physical area, and send an alert when Bluetooth-tagged assets or people enter or exit that area. For example, if a patient wanders into an unsafe area or exits the building, the system generates a real-time alert to staff smartphones.

The Enlightened IoT Platform integrates seamlessly with third-party wayfinding applications by using bluetooth beaconing capabilities of the Enlightened sensors. Wayfinding apps provide navigation within the building. This helps patients, family members, and visiting staff find their way to desired destinations within large healthcare complexes.

A New Approach for RTLS

Traditional Real-Time Location Services (RTLS) solutions force hospital executives to make difficult tradeoffs between reliability, accuracy, and high cost.

Enlightened solves the problem with a single IoT platform and unmatched sensor density. Beyond RTLS, the sensors allow lighting and HVAC optimization, spatial analytics, energy savings, and more.



Enlightened's dense network of sensors is installed in the light fixtures throughout a building. By gathering multiple data streams across the facility, users quickly find assets and people where they are, right now

Intelligent Lighting for a Better Patient Experience and Energy Savings

Daylight Harvesting. Enlighted smart sensors adjust ambient light levels to save energy by taking advantage of available daylight. Lighting schemes can be grouped together, ensuring a uniform and harmonious visual experience.

Task Tuning. Settings can be programmed to individual areas, based on each area's task profile, to create appropriate lighting for any activity or schedule.

Tunable White. Adjustments to color temperature and intensity may be scheduled or manually adjusted, increasing patient and staff comfort and well-being.



Productive.

Task-specific lighting paired with color temperature tuning creates ideal caregiving and diagnostic spaces.

Intelligent.

Lighting intensity is automatically adjusted, guaranteeing occupant comfort.

Energy Efficient.

Daylight harvesting and vacancy detection makes LED lighting even more efficient, resulting in energy savings of up to 88%. The system pays for itself through energy savings.

Building-wide Integration.

Enlighted sensors gather zonal-occupancy data that integrates with BMS systems using BACnet, opening the door to increased energy cost savings through more efficient HVAC use.

About Enlighted

Enlighted's Building IoT Platform is installed in over 410 million square feet of buildings worldwide. It is wireless lighting control that pays for itself through the building energy savings it generates - and so much more. Smart sensors capture information about what is happening in the building in ways never before possible, creating a data platform that drive analytics and intelligent software applications. Applications from Enlighted and our partners improve operating efficiencies and occupant experiences, enhance productivity, and optimize resource and asset use.

Enlighted's strong partnerships with over 70 lighting fixture OEMs, driver manufacturers and growing software application ecosystems, enable customers to have an open choice of lighting and solution vendors. Founded in Silicon Valley in 2009, Enlighted was acquired in 2018 by Siemens Smart Infrastructure.



Get In Touch

To see a demonstration:
www.enlightedinc.com/contact-us

Industry Awards

“Company of the Year”

—Frost & Sullivan

“Sapphire Award: Illumineer of the Year and Best SSL Smart Lighting Project”

—SSL Smart Lighting Project Awards

“North American New Product Innovation”

— Frost & Sullivan

“Product Innovation Award”

—Architectural Products Product Innovation Awards

“IoT Global Award”

—Smart IoT Awards

“North American Company of the Year”

—Cleantech Group's Global Cleantech 100

“Top Project of the Year Award”

—Environmental Leader Product & Project Awards

“Winner of Supplier Sustainability Award”

—AT&T

“Cool Vendor”

—Gartner's Smart City Applications and Solutions

“Product Innovation Award”

—Architectural Products Magazine

“BIG Innovation Award”

—Business Intelligence Group

If you'd like to partner with Enlighted, visit www.enlightedinc.com/partner