

## Environmental Monitoring

Environmental monitoring is an essential operational function in all healthcare sectors. The healthcare industry relies on conditions like temperature and humidity measurements at regular intervals, for many different reasons. From vaccines and other medications to blood and lab samples, maintaining optimum temperature conditions to maintain compliance and reduce product loss.

CORE LSE's Environmental Monitoring solution provides a smarter, continuous, automated wireless monitoring of temperature and humidity remotely across the healthcare facility.



## Solution Benefits

- Drive efficiency and increase productivity by eliminating manual monotonous recording of temperature and humidity and increase time to focus on patient care.
- Sensors don't need any additional hard wiring and are easy to install.
- Maintains compliance by automatically storing and data stamping readings from each sensor which can be used to generate reports or graphs.
- Promotes patient care and safety by maintaining ambient temperatures and humidity in various departments such as Operation Recovery.
- Flexible, open and easy integration to other inhouse applications using HL7, XML, JSON, SOAP payloads.
- Unified SaaS-based architecture: Multi-tenant Support, Easy to use, lower costs, supports scalability, integration, and analytics.

## How it works

Install sensors in refrigerators, or freezers or on walls for ambient temperature and humidity monitoring. These sensors have battery powered CenTrak or Bluetooth enabled tag, that automatically delivers real-time data from anywhere within the facility. CenTrak uses its Second-Generation Infrared (Gen2IR™) hardware, whereas Bluetooth tags utilise the Wi-Fi to BLE IoT gateways to communicate back the environmental measurement data.

Also, by leveraging the Wi-Fi infrastructure, CORE LSE provides around-the-clock coverage and real-time measurements as well as alerts to proactively address environmental changes before any damage, loss or patient safety issues occur.

Alerts can be raised in various ways including audible alarm, email, or in-app notification and simultaneously be sent to other inhouse applications.



## Solution Features



### Event and Alert Notifications

Readings and data are automatically collected for each unit or space being monitored. Staff are notified of any abnormalities in readings so corrective action can be taken immediately. Instant alerts can be sent on workstations, tablets or smartphones.



### Reports

All information is logged to aid in compliance audits. Configure reports within a few clicks. Schedule the reports to be emailed with customisable timelines or export the reports in either PDF or CSV formats for further analysis outside the system.



### Management Tools

Easy to populate and store attributes of the assets including categorisation, icons, images, departments etc.

Create rules when measurements are sensed above or below set parameters. All events are logged for future analysis, better operational decision making and process improvements.

Role-based access control model for securing various sections of the platform as well as notifications.



### Analytics

Create personalised real-time dashboards from the available widgets and share it with others. A dedicated historical dashboard for environmental monitoring sensors to assist in analysing and visualise temperature trends.

## Deployment Methods

Technology	Components
Cisco Wi-Fi	Cisco Wi-Fi compatible Temperature/Environmental Sensors.
Active RFID	Active RFID based Temperature/Environmental Sensors, Gen 2IR Infrared Exciter for room-level accuracy.
BLE	BLE based Temperature/Environmental Sensors that work over BLE IoT Gateway.



ISO 9001 certified



ISO 27001 certified