

# OpenBlue Location Manager

Uncover Space Utilization, Safety  
and Security Opportunities



# OpenBlue Location Manager

Location Manager provides strategic indoor location insights in relation to people, space, and equipment across a range of high-value industries.

These industries include life sciences, technology, hospitals and medical facilities, financial institutions, data centres, and smart commercial office buildings.

Johnson Controls is committed to helping communities re-open amidst the challenges of COVID-19. Our goal is to deliver solutions that help keep communities safe and healthy, and ensure buildings are prepared to welcome back employees, visitors and customers.

As we continue to evolve to a new normal, the health and safety of all who enter the workplace is a number one priority.

Location Manager helps keep mission critical workplaces running smoothly by minimizing the business impact should an employee test positive. For non-mission critical workplaces, Location Manager assists facilities for the reopening of buildings and their agile adaptation to the new ways of working that will emerge post COVID-19.



## Features and Benefits

Discover all the key features and benefits that Location Manager can help enable for your enterprise



## Post COVID-19 Value

Learn more about all the ways Location Manager can drive business capabilities and value in a post-COVID-19 world



## Intelligent Labs

Read how Location Manager helped to transform a traditional laboratory into an insight-driven infrastructure

## OpenBlue Location Manager

Location Manager provides automated social distancing monitoring to help employees achieve best practice in social distancing and help minimize the impact of any contact tracing reports. It enables compliance management through the provision of critical dashboards and reports, detailing how well social distancing is being practiced.

Scenario Planning Reports can also assist Crisis Management Teams to pro-actively monitor and respond to an event. The application runs on a cloud based software platform that collects real-time data from a wide range of plug and play sensors with wire-free installation including: Bluetooth Low Energy (BLE) badges and BLE badges with duress support; BLE transceivers; BLE asset tracking tags, temperature and vibration sensors.



### Features

#### Social distance monitoring and scenario planning

- Real-time alerts highlight social distancing issues
- Identifies social distancing hot spots that are difficult to observe
- Identifies and alerts on areas and spaces that are congested or over-occupied

#### Contact tracing

- Displays employees at highest risk of contracting the virus and reports time and duration of close contact between people
- Detects employees at highest risk of potentially contracting the virus from visiting spaces the infected person previously visited

#### Space & workflow advisor

- Understand space usage by groups, functions or teams for everyone that uses the building
- Identify the areas that foster collaboration and which groups collaborate the most
- View space utilization by building, floor rooms and open spaces

#### Safety Manager

- Detects unintended lone working and out-of-hours working
- Monitor building occupancy location and status in real time in evacuation and shelter in place events
- One press duress support

#### Asset Advisor

- Real Time Asset Tracking and temperature monitoring
- Unconnected equipment utilization and run time monitoring, with optional remote power control
- Open platform supporting 3rd party data ingestion

### Benefits

- Improving social distancing performance reduces the number of employees impacted by a contact trace, minimizing business impact
- Match the intensity and frequency of cleaning based with space usage

- Determine the at risk employees and spaces that need to be contacted in real time due to close contact with an infected individual
- Enables a proactive response to be taken, prior to at risk employees testing positive or developing symptoms

- Surfaces occupancy ebbs and flows to smooth demand spikes
- Make layout and space changes, informed by how the space is used
- Enable agile space design, with real time outcome monitoring and feedback

- Enhances employee well-being and supports a proactive EHS posture

- Reduces time to locate mobile assets while increasing security of assets
- Reduces maintenance costs on equipment via use-based vs. time-based maintenance
- Detect and alert when temperatures move outside operating set-points



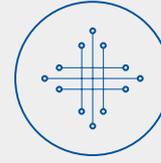
### Data Privacy

Location Manager has been developed using Privacy by Design and supports Privacy by Default. All the features of Location Manager are available using pseudo-anonymized data. It is the responsibility of the data controller to ensure its compliance with applicable law, including any de-pseudo anonymizing of data.



### Quick and easy installation – wireless infrastructure

Location Manager can be rapidly deployed, using plug in transceivers that require no more space and less power than a typical phone charger.



### Application integration and open API

With an open architecture, Location Manager can integrate with existing applications whether they are from Johnson Controls or third party providers.



## Value that goes beyond COVID-19

Location Manager supports a wide range of additional business capability that can be enabled through software.



### Return-to-work

Post COVID-19 workplace planning and agile implementation.



### Space Utilization

Empirical measure of utilization of all areas within a building.



### Analytics

Workflow and collaboration analysis.



### Security

Restricted area access alerting, visitor tracking with zoning and rules.



### Health & Safety

Duress support for lone worker monitoring, panic buttons and fire and security building evacuations.



### Asset Tracking

Empirical measure of utilization of important equipment.



### Digital Audit Trail

Firewalled team monitoring with audit trail recording.



### Occupancy & Mustering

Other EHS benefits include monitoring building evacuation, occupancy checking and mustering.



### Application Integration

Open Platform allowing customers to integrate with existing applications.

# Spotlight: Intelligent Laboratories

Life-altering, mission critical laboratory environments require the best, most efficient facilities available. When scientists are able to work comfortably and productively, they produce life-changing health solutions. And as with any mission critical environment, labs are expensive to build, equip, maintain and secure. In fact, they are the second most expensive commercial space to manage, not including the cost of equipment, which typically exceeds millions of dollars per lab.

As more organizations move toward the development of 'smart labs' with a shared-space model, there's even greater potential for over-utilization of equipment or inefficient allocation of space. Every hour that a scientist waits for equipment is time that can be devoted to science. Every dollar saved on infrastructure is a dollar that can be redirected to life-saving research. With the Johnson Controls Intelligent Laboratories solution, you can make more time for science.

## What is Intelligent Laboratories?

Johnson Controls Intelligent Laboratories provides space, equipment and environmental analytics and insights for scientists and lab managers to quickly make informed decisions that improve lab efficiency and effectiveness. The application runs on a software platform that collects real-time data from various sources around a lab, such as badges, asset trackers, environmental monitors, intelligent power monitors and occupancy sensors, as well as log files taken directly from equipment. The solution's analytics capability delivers an unprecedented level of insight about the movement of user groups, utilization and run-time of equipment and the micro-environmental conditions in the laboratory.

The application blends together data from many different sensor types, surfacing insights and unique views to tell a complete story on a single platform. It looks beneath the surface of data that might be generated by an independent system and sees how the data combines to tell a complete story. With this new level of insight, you can achieve several benefits.

The Intelligent Laboratories solution is agnostic to any infrastructure or service provider, which means it can make use of sensors that may already be in place, and provide insights that weren't previously possible.

## Unprecedented Insights

### Real-Time Lab Configuration Decisions

Intelligent Laboratories provides real-time feedback on space reconfiguration so you don't waste time waiting for results. Is there enough space? Too much? The application's data-driven analytics will pinpoint inefficiencies.

### Detect Micro-Climates

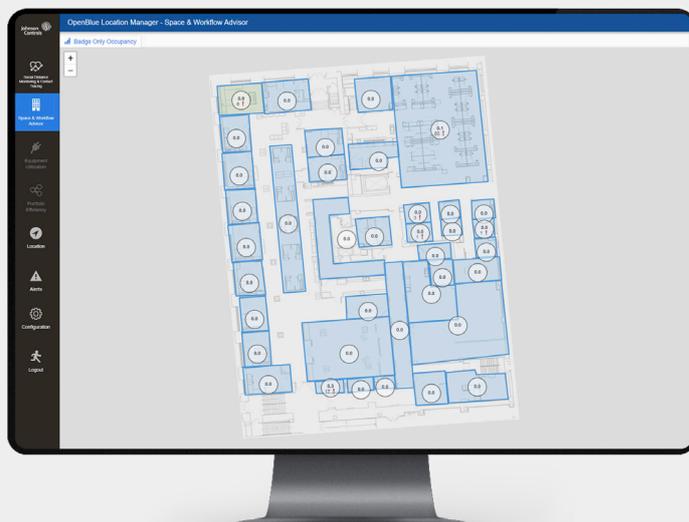
Johnson Controls Intelligent Laboratories provides labs the ability to detect out-of-range temperatures that impact experiments and create ideal workplaces to keep employees comfortable and more productive. These data sources also allow the application to provide insights that minimize energy consumption and integrate additional data sources such as refrigerator and freezer thermostats and OEM utilization APIs to monitor temperatures within the lab.

### Quickly Find Critical Items

Eliminate time spent walking around to find carts, pipettes and other commonly used items with a real-time view of these mobile assets.

### Optimize Equipment Inventory

Lack of equipment slows scientific progress and too much equipment is an unnecessary expense. With Johnson Controls Intelligent Laboratories you will have the data to understand which equipment you need more of and which you have too much of.



## Improved Outcomes

### Maximize Research Time

Is there a lack of available space or equipment at certain times of the day that forces scientists to suspend or delay their work? The data delivered by Johnson Controls Intelligent Laboratories helps you manage the lab's calendar more efficiently, so no scientist has to wait for bench time. With this data in hand, you can make informed decisions to add capacity for over-utilized equipment, reposition or even remove under-utilized equipment. The application's API integration capability facilitates equipment utilization data and real time availability used by your equipment booking system.

### Improve Workflow

Do you know if your equipment is positioned in an ideal order for optimized work-flow or if scientists are traveling long distances to complete scientific processes? Ensuring the right equipment is in the right location with appropriate space allocated can dramatically improve work-flow and outcomes of your lab.

### Increase Collaboration

Do you need to know if collaboration is happening between groups? Do you know if your collaboration improvement programs are effective? Our solution can measure collaboration through statistics on 'proximity events' and include metadata to understand what kind of collaboration is taking place – whether it's scientist-to-scientist or scientist-to-engineer, etc.

### Increase Security

The software goes beyond 'who badges in and who badges out' of the lab. It detects unauthorized persons who might have entered, prevents unauthorized dwelling in highly sensitive areas and can track whether a high-value asset is moved outside a defined area by an unauthorized person. Its security features also improves health and safety within your facility by detecting lone workers operating outside of normal working hours and providing an option for help or emergency assistance.

## Continue your digital transformation with OpenBlue

If you are ready to take a small step or a big step toward digital transformation of your enterprise, Location Manager is the place to start. Powered by Johnson Controls award winning OpenBlue technology, Location Manager protects and instill confidence in building occupants and visitors, minimizing disruption should employees test positive for COVID-19 and accelerate building re-occupancy by automating and streamlining safety protocols.

You will be able to maximize occupancy targets while maintaining safety, understand how their spaces are used and repurposed easily based on data, and help employees be more productive when they are in the office.

### Transform your Enterprise



#### Augment your technology investments

Enterprise Manager leverages a variety of edge and cloud based connectors from OpenBlue Bridge, to integrate with existing building systems and cloud data sources.



#### Future-proof your building

Build on OpenBlue Twin and APIs to enable a range of connected workflows in Location Manager and external systems of choice.



#### Onboarding and Professional Services

Customer Success Managers empowered with automated tools for quick onboarding, realization of returns and ongoing assistance.

# OpenBlue

OpenBlue is a complete suite of connected solutions that serves industries from workplaces to schools, hospitals to campuses and more. This platform includes tailored, AI-infused service solutions such as remote diagnostics, predictive maintenance, compliance monitoring, advanced risk assessments and more. A dynamic new space from Johnson Controls, OpenBlue is how buildings come alive.





To read more about OpenBlue Healthy Buildings, visit:

[www.johnsoncontrols.com/OpenBlue](http://www.johnsoncontrols.com/OpenBlue)

### About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers, and manufacturing. With a global team of over 100,000 experts in more than 150 countries and over 130 years of innovation experience, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, PENN®, Sabroe®, Simplex® and Grinnell®.

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