



CLOUD & DCI SERVICES
MODERN WORKPLACE
APPLICATION SERVICES
DIGITAL INNOVATION
CYBER SECURITY

IoT Smart Buildings Solutions

Unleash a world of connected possibilities with Bell Integration, unlocking new capabilities and business value fast

DRIVING DIGITAL TRANSFORMATION

Introduction

Today's IoT technologies are revolutionising how organisations capture data relating to assets, spaces and people. Making it possible to transform built environments into a smart, agile and sustainable ecosystems where operational processes are optimised and resources utilised to the max.

Powered by WiFi, intelligent sensors and AI, these next generation solutions make it possible to creatively address a wide range of operational and business challenges. Everything from identifying ways to conserve energy and reduce carbon emissions to monitoring the safety of people and assets.

Operating in standalone mode or integrated with a Building Management System (BMS), these easy-to-install solutions make it possible to capture and orchestrate real-world insights that can be used to boost how people, assets and spaces perform.

Designed to deliver quick time-to-value, Bell Integration's scalable Connected Building solutions provide everything needed to get up and running fast. Our end-to-end managed IoT services feature:

- **Complete lifecycle management** – from project design through to device procurement, configuration and installation through to end of life device recovery for re-use/recycle.
- **Managed support** – we'll monitor and manage your IoT devices, taking care of every aspect of your connected environment. Alongside our Service Desk, we provide a hardware break/fix service too.
- **Data ingestion and analytics** – we take care of data collection, processing and publishing, transforming your real-world data into IoT data visualisations that will bring data-driven intelligence to life.



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A Complete Solution

Providing all the components your organisation needs to deploy a smart building solution tailored to your specific use case requirement, our Smart Building Solution builder gives you all the hardware, cloud connectivity, support services and industry-leading expertise that's needed.



With Bell Integration, you'll be able to take advantage of:

A fully managed service: select the options you need – hardware and IOT infrastructure support, Service Desk, Procurement, Warehousing and Logistics, Configuration and Test, Installation and more.

Consultancy and professional services: from hardware and connectivity recommendations to guidance on integrations and customisation consultancy, we can also guide you on how to make the most of your data and deliver insights and visualisations to your key decision makers.

Pre-built solution modules: we've done the hard work, so you don't have to, assembling all the components you'll need to launch a bespoke solution at speed and with no need to reinvent the wheel.

Our Smart Building solutions give you:

- **Scalable solutions** – from simple use cases to complex multi-building views
- **Ease of deployment** – sensors and gateways are deployed from our central warehouse
- **A choice of connectivity options** – we can recommend the best choices for your business
- **Data management** – integrations with enterprise and other third party applications ensure that information can be pushed and pulled as needed to enable insight infused decision-making.
- **Streamlined integrations** – thanks to a powerful API gateway, we ensure your IoT solution integrates your room booking system, BMS or workspace platforms. So you can deliver real-world data and initiate feedback loops for resource utilisation, asset/people monitoring use cases... and more.

Bell Integration's Smart Building Solution Builder

Our Smart Building Solution Builder gives you all the components you need to address a specific challenge. Our modules include:

- Environmental Monitoring
- Occupancy Monitoring
- Energy Monitoring
- Smart Parking
- Legionella Monitoring
- Waste Management

Discover a number of pre-built solution modules designed to simplify your IoT adoption and make it fast and easy to acquire powerful new capabilities.

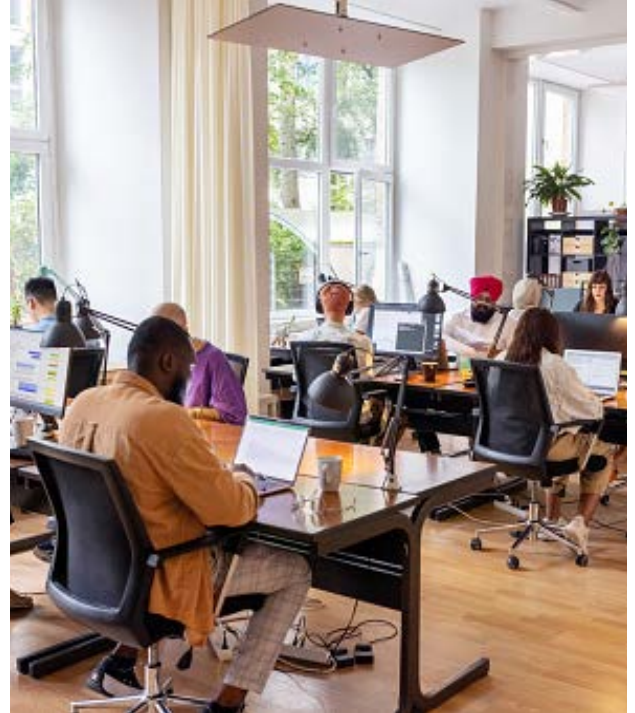
Smart Building Solutions Builder: Quick Guide



Environment Monitoring

A scalable solution that gives you everything you need to measure a variety of environmental parameters including temperature, humidity, particulate matter, EPA Air Quality Index and ozone. The solution can be integrated with other Smart Spaces modules to deliver either a consolidated data feed or a visualisation platform with data insights:

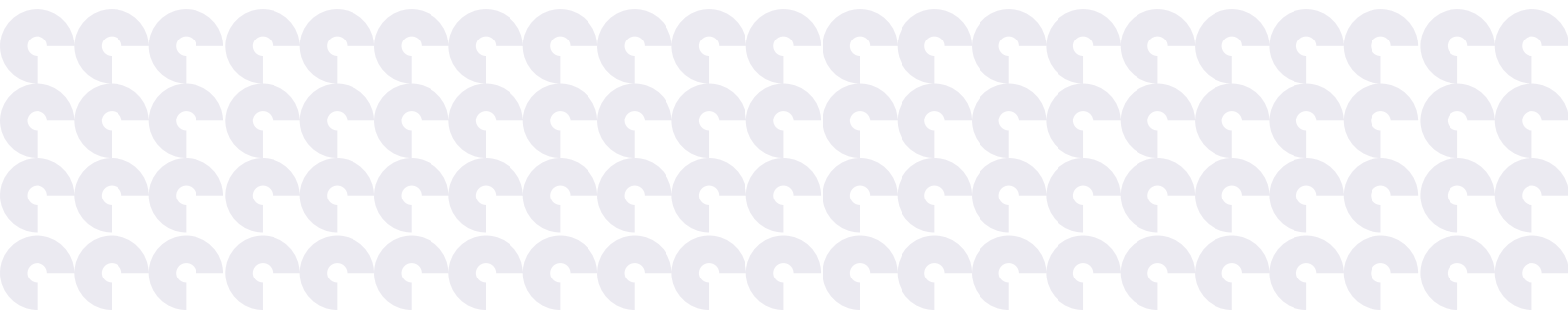
- Internal and external sensors available.
- Scalable with commercially available sensors with varying levels of accuracy.
- MCERTS certified particulate matter sensors for PM1, PM2.5, PM4 and PM10.
- Long range communications supported via LoRa or NB-IoT gateways.



Occupancy and People Counting

Optimise work or public spaces using table or wall mounted sensors to detect occupancy. Start small and scale out to monitor multiple desks, floors or buildings. Sensors communicate state changes to a gateway with embedded intelligence that transforms data into information. View indicators using an optional platform, or direct data to a pre-existing system that supports visualisation:

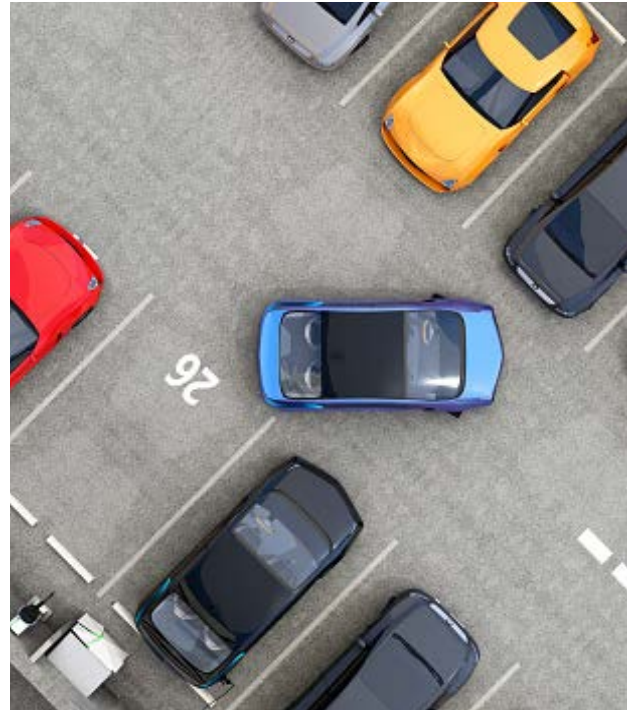
- Highly scalable solution that delivers insights that make it possible to adjust occupancy-based services to daily demand and improve workspace utilisation.
- Long range communications available using LoRa or NB-IoT gateways for use in IT-independent IoT network.
- API for third party integrations (IWMS, FMS, BIM model and more).



Energy Monitoring

Retrofit your spaces to monitor and report on utilities usage. Ideal for understanding where energy is consumed at a floor, department or building level, our solution provides accurate data for ESG reporting:

- Retrofit sensors for electricity meters, sub-metering and point of use consumption.
- Water flow sensors and gas metering sensors.
- All hardware and sensors deployed from our central warehouse.
- Device management and access to structured data.
- Visualisation and consultancy options ensure you can tailor how you consume data and build reports.
- ESG Compliance Audi integration is available.



Smart Parking

Our solution features AI that detects the occupancy of carpark location by location and 'illegally' parked cars (for example cars parking in a disabled bay that are not displaying a blue disk). In addition to monitoring space occupancy, you can take advantage of ANPR recording for monitoring the enterprise's use of allocated car parking spaces:

- Start small with a single parking bay and scale up to cover multi-areas or buildings.
- Long range communications available using LoRa or NB-IoT for wide area coverage.
- API for third party integrations.



Legionella Compliance

Mitigate the risk of Legionella and demonstrate compliance with HSE ACoP L8 and HSG274 guidelines. Utilise options that will deliver alerts and undertake simple reporting or deploy a fully automated system that undertakes remote flushing and temperature testing:

- Real-time monitoring and reporting.
- Automated routine flushing.
- Scheduled testing according to needs.
- Automatic time stamping and creation of 'further action required' documentation.



Waste Management

Optimise how you manage bin collections and waste operations, reducing the number of containers that are missed and viewing fullness levels in real-time. Initiate on-demand collections and minimise environmental impact by responding fast to waste-related negative events:

- Options for simple waste bin fullness reporting.
- AI power video analytics that can deliver offence alerts, license plate recognition to prevent illegal dumping and more.
- Secure video analytics using edge compute and cloud or on-premise storage.

Why Bell Integration?

With over 20 years' experience in IoT capability, our end-to-end solutions are designed with the needs of customers in mind.

Taking care of everything from solution design to procurement, asset management, logistics, deployment and multi-vendor customer support, our Smart Building solution modules deliver granular capabilities that organisations can orchestrate to their needs.

We've helped organisations in a variety of different industries – transport, manufacturing, utilities, housing, commercial, retail, healthcare and public sector – enhance the safety, operation and performance of their building assets and initiate next-generation services that elevate occupant experience.



Contact us

If you'd like to discover how Bell Integration's Smart Building solutions could make a difference to your business then please contact us on marketing@bell-integration.com or visit www.bell-integration.com

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