Intelligent
Building Solutions

Remotely manage and reduce
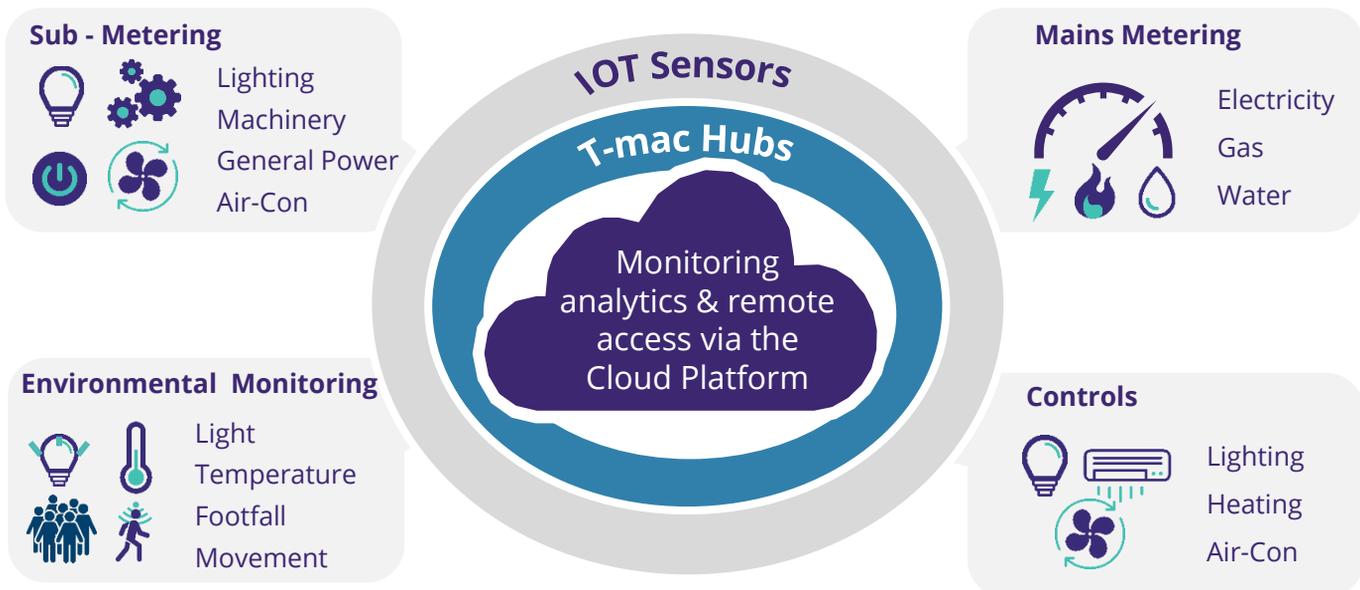energy consumption with IoT

Overview

A properly functioning Building Management System (BMS) is crucial to minimising energy consumption. However many organisations are running out of date systems or do not have a BMS believing them to be too costly to integrate.

This leads to inefficiencies in the day-to-day running of their premises. Typically businesses use multiple suppliers to provide their utilities, each with its own hardware, software and data systems, which operate independently, unable to connect to each another.

This means that many operators are working blind without the ability to holistically monitor and optimise their buildings' systems energy consumption. This results in higher costs and increased carbon waste.

IoT can play an important role in solving this problem. Sensors that allow data gathering and understanding of a wide range of systems can help managers create policies and implement automated control strategies to manage consumption and waste. These controls offer major savings and a comprehensive understanding of the systems within a building.

Sub - Metering

Lighting
Machinery
General Power
Air-Con

IOT Sensors

T-mac Hubs

Monitoring analytics & remote access via the Cloud Platform

Mains Metering

Electricity
Gas
Water

Environmental Monitoring

Light
Temperature
Footfall
Movement

Controls

Lighting
Heating
Air-Con

Our end to end solution consists of devices, real time business intelligence, management and automation. This drives operational efficiencies, reduces 'time to act' to events and provides audit and compliance information to support commercial billing.

IoT Building Energy Management

Bell Integration is working with t-mac Technologies to provide building energy management solutions, which help businesses to remotely monitor, manage and reduce energy consumption and costs across multiple sites.

Once installed, the system gathers real-time metering data from multi-utilities, as well as sub-meters, for activity areas such as lighting, heating and air conditioning.

By connecting sensors, such as temperature, pressure and lux (light), the t-mac system monitors environmental conditions, instantly visualising energy consumption per site.

t-mac expands into a building management system (BMS) for remote control of internal equipment performance and use.

With control mechanisms in place, t-mac helps businesses reduce consumption by ensuring energy intensive equipment is only being used when required; and devices (e.g. air conditioning and heating) are not being used simultaneously.

Users log on to the t-mac cloud platform to view, analyse, identify, compare and report on energy management activities, as well as view, implement and amend control strategies.

Remotely manage building systems and reduce energy consumption

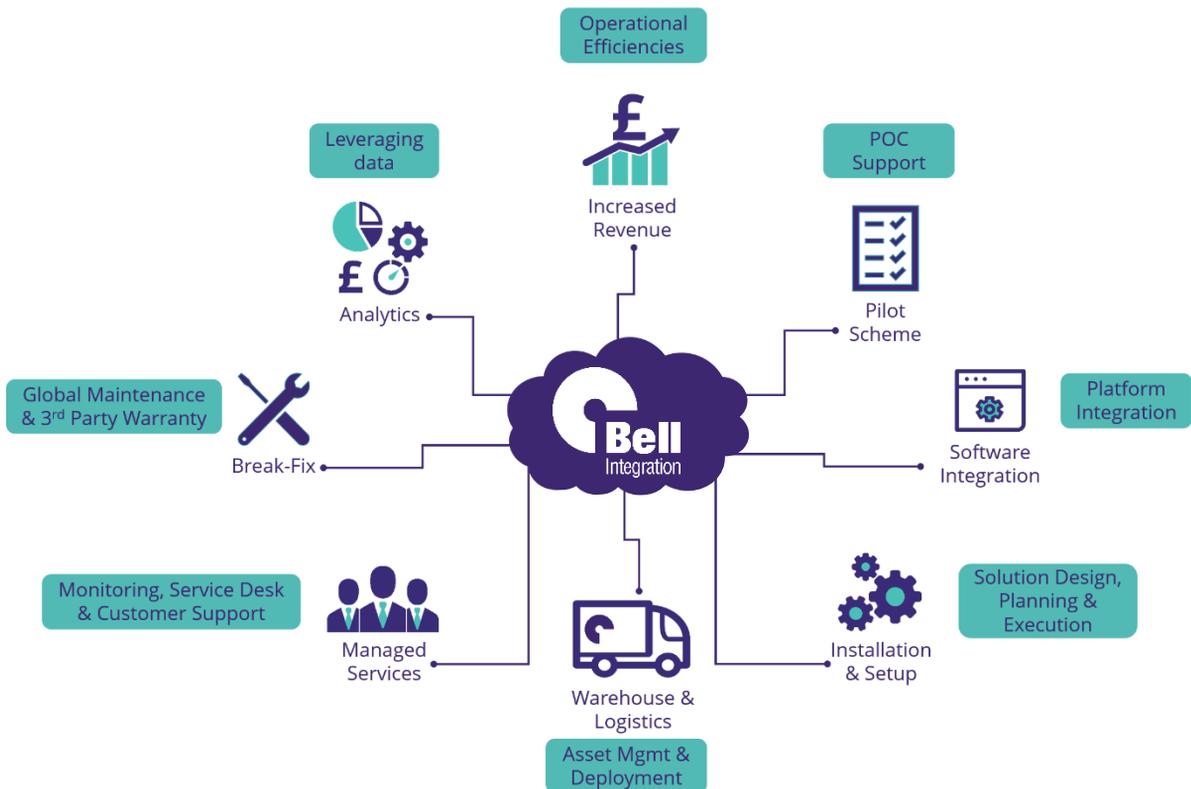Connect to multiple IoT sensors with the t-max hub

Transform big-data into real-time energy insights and control building management systems remotely

- Additional sensors, products and services available
- Real time analytics and alerts
- Cloud based control platform

How Bell Integration Can Help

Delivering value from a connected world of things requires internet connected solutions. Bell Integration brings the experience in building supply chain ecosystems that enables you to deliver faster scalable solutions in an ever-evolving world.

We Deliver An End To End IOT Capability

Bell Integration distinguishes itself by not simply being a device manufacturer or a standalone service management company.

We deliver an end to end capability, from procurement, asset management, logistics, deployment and ultimately customer support in a multi-vendor world. We have over 20 years' experience in this capability.

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