



# Integrated Building Management System from OmniWOT

The most advanced Intelligent Building Management Systems (BMS) integrate technologies that directly drive down energy consumption in commercial, industrial, institutional, and residential settings.

The greenfield (or) brownfield assets equipped with multiple systems from various manufacturers and models. Like HVAC, Lighting Control, Access Control, and Energy Meters, etc.. in buildings.

These systems leverage IoT-enabled sensors, automation, and analytics to dynamically manage energy flows—optimizing HVAC, Lighting, and other equipment operation based on real-time conditions.

Such Intelligent BMS solutions are equipped with predictive maintenance and load-shedding capabilities, allowing for precise control over energy-intensive processes. This not only enhances energy efficiency but also reduces operational costs and environmental impact, aligning with global sustainability goals across multiple sectors.

We are a leading system integrator, specializing in seamless integration from devices to the digital realm, independent of system, vendor, or manufacturer. Our expertise enables us to implement clients' visions using advanced resources and technology to enhance operational efficiency and profitability.

Our tailored software, hardware, and controllers are designed to meet the evolving demands of IoT, system integration, asset management, facility management, and the energy sector.

M2M (Machine-to-Machine) technology is a key enabler of the Internet of Things (IoT), connecting machines, devices, and objects to the internet and transforming them into intelligent assets capable of seamless communication with their environment, enabling automation and data-driven decision-making.

## Key Benefits of Wireless IoT in Integrated Building Management System

### 1. Optimized Energy Efficiency & Cost Savings

Smart energy meters and occupancy sensors monitor real-time power consumption, enabling automated lighting and HVAC adjustments, reducing waste, and lowering operational costs.

### 2. Improved Indoor Air Quality & Occupant Well-Being

CO<sub>2</sub>, VOC, and humidity sensors ensure proper ventilation by dynamically adjusting HVAC systems, promoting healthier indoor environments and boosting occupant productivity.

### 3. Predictive Maintenance for HVAC & Critical Equipment

Vibration, temperature, and pressure sensors track the condition of HVAC units, pumps, and electrical systems, enabling proactive maintenance to prevent breakdowns and extend equipment life.

### 4. Automated Climate Control for Comfort & Efficiency

Wireless IoT sensors adjust HVAC settings based on occupancy levels, temperature, and humidity, ensuring optimal comfort while minimizing energy consumption.

### 5. Smart Security & Access Control

IoT-enabled access systems enhance security by restricting unauthorized entry to sensitive areas while ensuring seamless building management integration.

### 6. Centralized Monitoring & Remote Management

A cloud-based IoT platform provides real-time data insights across lighting, HVAC, security, and energy systems, allowing facility managers to make informed decisions remotely.

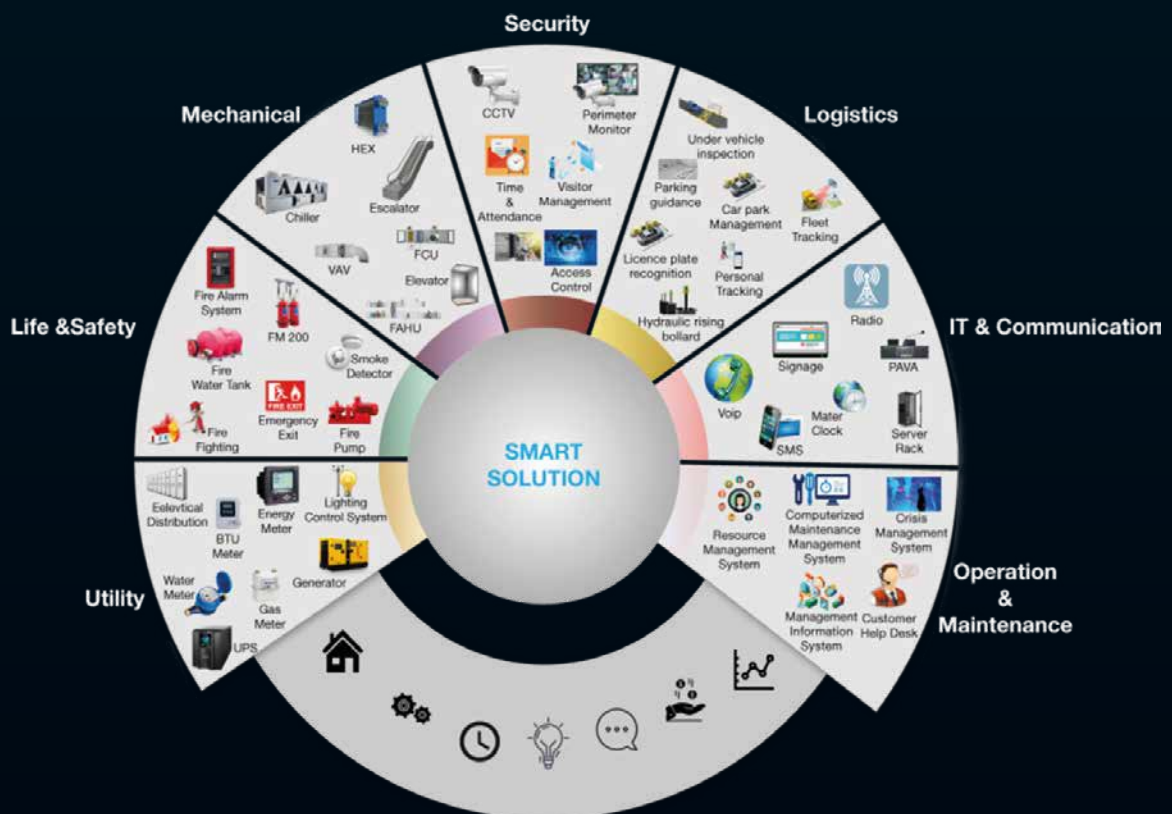
By combining the latest in M2M technology with our advanced IoT solutions, we offer innovative possibilities for customers globally. Our expertise spans IoT, System Integration, Consultancy, Energy Analysis, and Cloud-connected smart devices. With a skilled team in building automation, electrical, IT, and electromechanical engineering, we deliver high-quality products and services worldwide through trusted partnerships.

## Command Control Centre Automation

The command control center enables cities to create a comprehensive digital platform that consolidates data from multiple connected systems, including access control, city surveillance, vehicles, buildings, and roadside sensors.

Seeking an automated solution for centralized control over your operations? Our Command Control Centre Automation solutions are designed to provide seamless integration and real-time data flow, facilitating better decision-making and communication.

This system connects field sensors and communication channels, ensuring optimal performance across various applications. Widely adopted in public projects, asset management, facility management, universities, smart cities, security, and surveillance, the Command Control Centre effectively manages complex, multi-system environments with ease and efficiency, tailored for modern, interconnected infrastructures.







## Key Components Driving OmniWOT's Integrated Building Management System

1. HVAC Sensors
2. Lighting Sensors
3. Energy Sensors
4. Fire Alert Sensors
5. Automation



## Effortless IoT Integration with OmniWOT's Open Cloud Platform

OmniWOT's Open Cloud Platform is designed for seamless connectivity, enabling **Wireless IoT sensors to effortlessly onboard via LPWAN/LoRaWAN Gateways.**

With a **hardware-agnostic architecture**, it supports a broad range of IoT devices, providing **scalability and flexibility** for diverse applications.

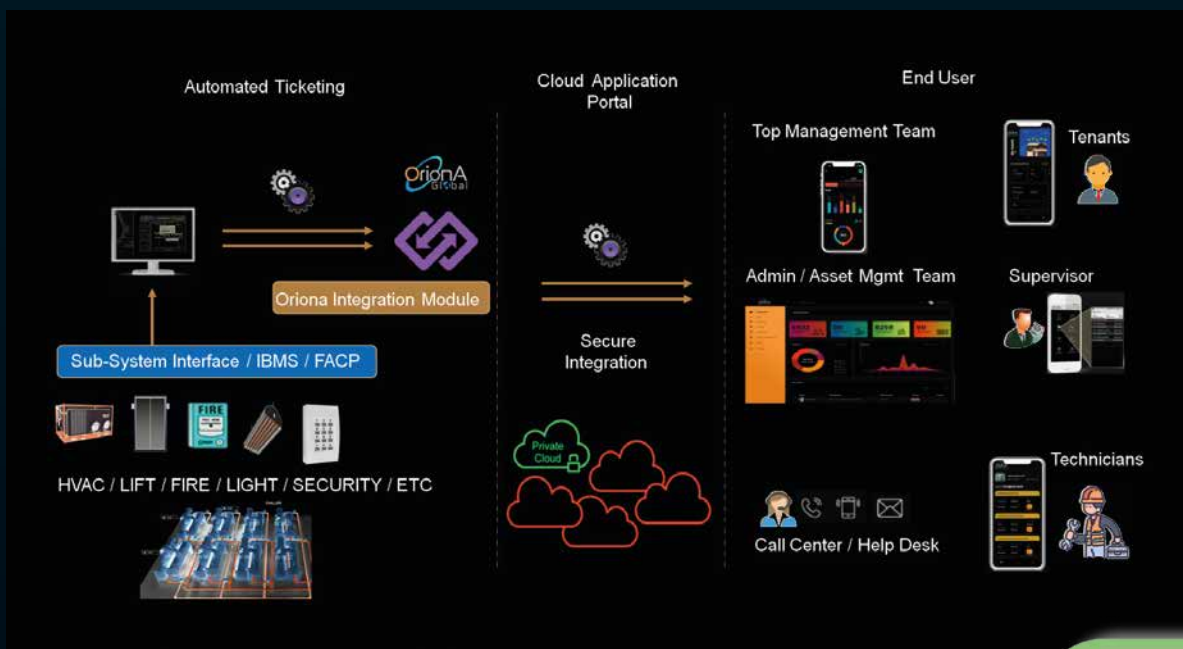
Unlock real-time monitoring, smart automation, and data-driven insights with minimal setup effort, making IoT integration more efficient and future-ready.

## Smart Asset Management CAFM | CMMS | EAM | IWMS

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