

# AVANCEON

Tomorrow's solutions, today



## INTELLIGENT BUILDING MANAGEMENT SOLUTION



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## INTRODUCTION

An Intelligent Building Management Solution (IBMS) harnesses the power of data and information to streamline buildings' processes, simplify operations and deliver results that ensure buildings are comfortable, safe, secure and provide the desired functionality.

Avanceon offers a high-performance, scalable and fully programmable Building Management Solution for monitoring and controlling different systems across your facility. Our solution seamlessly integrates with different systems, equipment and field devices that control your heating, ventilation and air conditioning (HVAC), energy consumption, access, lighting, water, electrical equipment, ERP and much more.

## WHY AVANCEON'S INTELLIGENT BUILDING MANAGEMENT SOLUTION?

Today building owners are facing a number of challenges, as they search for ways to:

- Reduce energy consumption and carbon footprint
- Lower building's operational cost
- Maintain buildings and strict adherence to regulations
- Manage building's dissimilar systems optimally
- Increase building residents' satisfaction and loyalty
- Protect building and its tenants with non-intrusive security methods
- Increase ROI to the maximum

Avanceon's IBMS allows building owners to address these challenges by seamlessly integrating various building systems into a comprehensive platform that monitors and controls these systems. Moreover, Avanceon's IBMS allows centralized and consolidated control and monitoring of building management systems from remote locations via Internet; providing real-time information which can be instantaneously turned into actionable business intelligence.

# INTEGRATED BUILDING MANAGEMENT SYSTEM

## Heating, Ventilation and Air Conditioning (HVAC) Manager

Comprehensive portfolio of components and systems for demand-based and efficient control of HVAC plants

## Life Safety System

Capable of providing real time information to occupants as well as fire departments, improving fire and life safety

## Smart Parking System

The Smart Parking System uses advanced technologies to improve the speed and efficiency of locating, reserving, and paying for parking

## Security System

A state-of-the-art security system that correctly and timely protects the values, interests, and lives of occupants while maintaining safety and round the clock monitoring the top priority

## Lighting Monitoring & Control

The Lighting Monitoring & Control manages illumination based on daylight level with a fully automatic shading system

## Access Control System

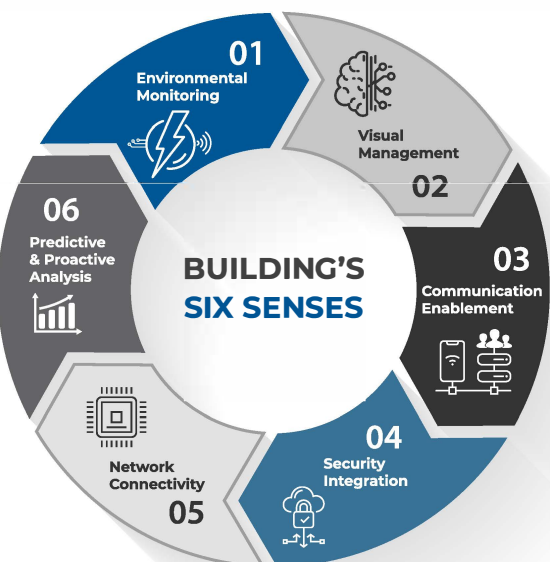
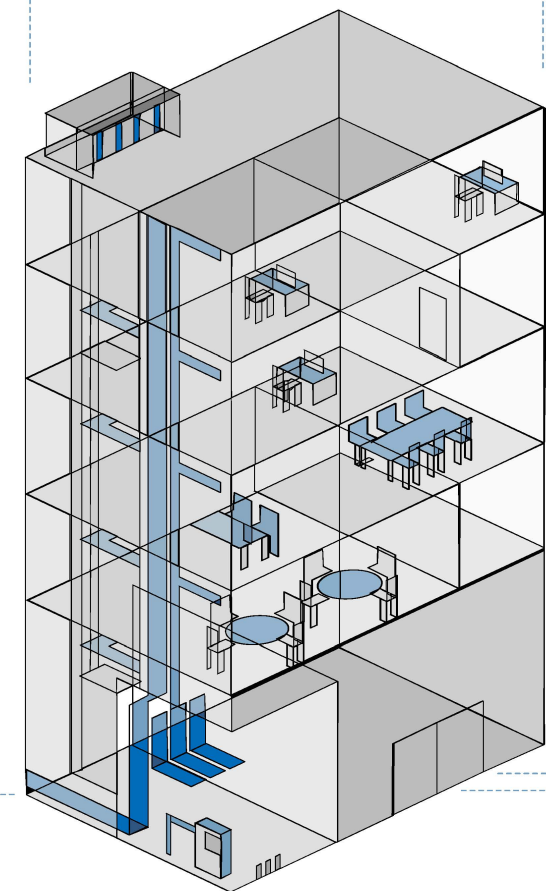
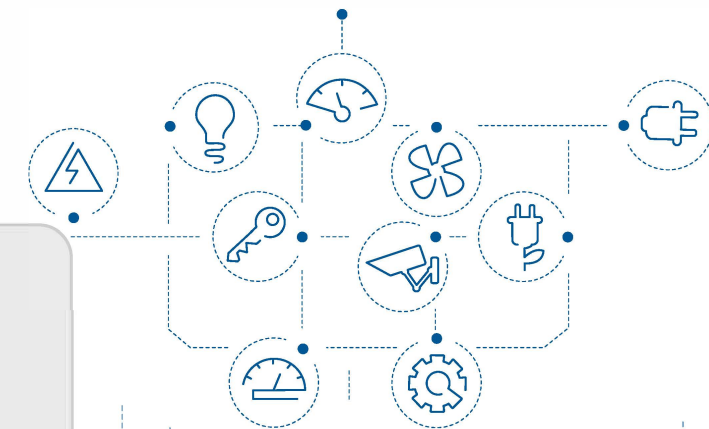
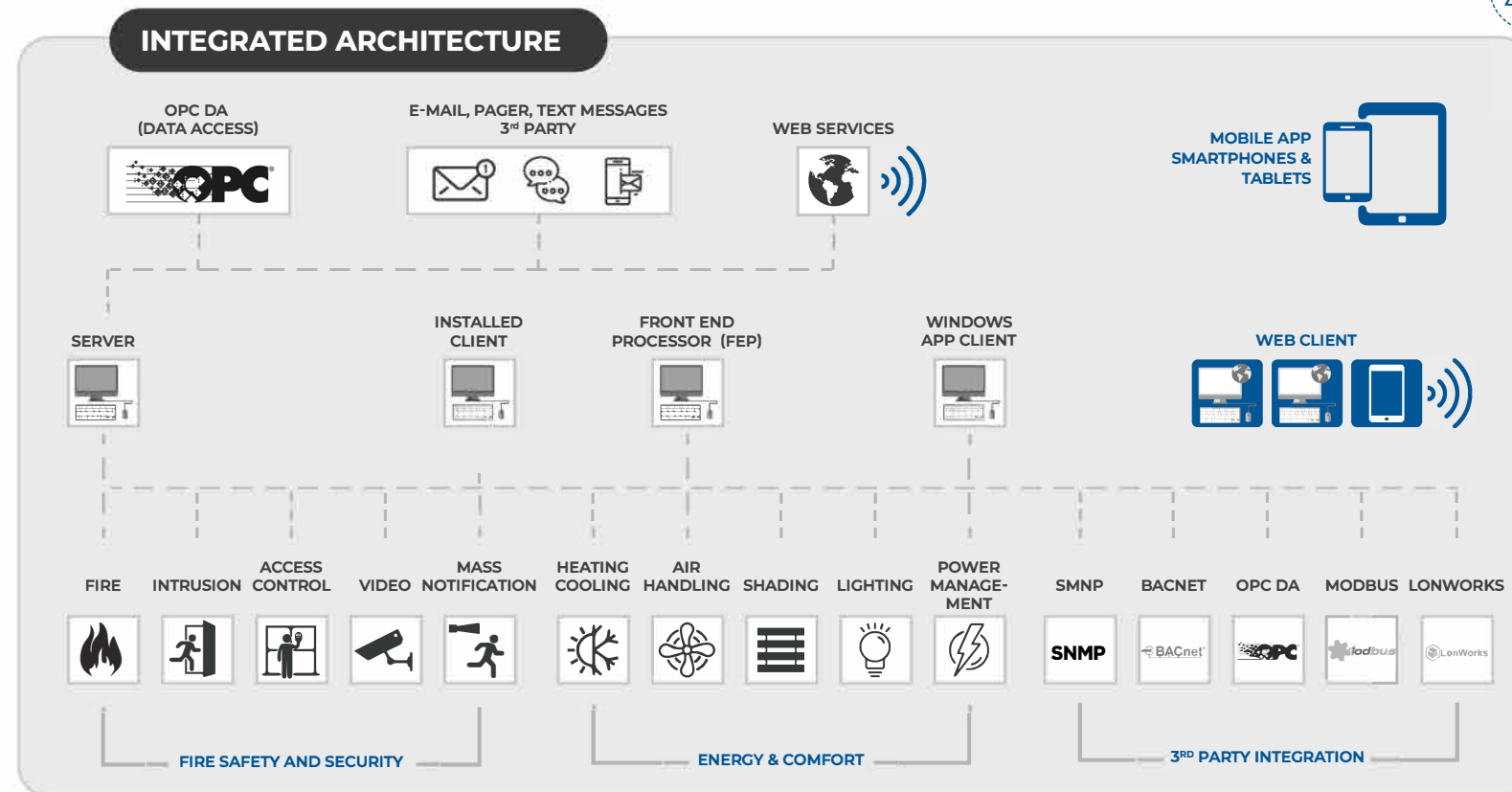
Access Control System provides a smart authentication system that considers information from other connected security or building-management systems e.g. using video surveillance feeds to verify access-control card swipes.

## Public Address System

Avanceon's Public Address (PA) system doubles up as a Voice Alarm (VA) system. This ensures an orderly and quick evacuation in case of an emergency

## Building Analytics

This application uses Model Predictive Control (MPC) for running simulations on building data to achieve operational efficiency & energy efficiencies and reduce equipment maintenance cost through Predictive Maintenance routines



## BENEFITS OF AN INTELLIGENT BUILDING MANAGEMENT SYSTEM

### Reduction in Operating Cost

- Integration of blind and shutter control to reduce heating and cooling expenditures
- Integration of sub-metering and analysis of the energy signature of a building to evaluate optimization potential

- Information integration from fire, HVAC and lighting systems into a central supervisory system offers capabilities to analyze avenues for greater energy saving potential

- Reduce overall carbon footprint by optimizing energy consumption

### Improving Tenant Safety

- Intelligent CCTV cameras identifying location of the fire to help determine a suitable fire-fighting strategy before accessing the area
- Integration of video surveillance systems into the

- Access Control System for easy supervision from a central control room.

### Extend Asset and Equipment Lifetime

- Automatic tracking of performance degradation e.g. by monitoring the energy output vs. output
- Reduced equipment service time by automatic tracking and monitoring

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