



# Introducing JakIn ID's Unified Actatek Edge AI IoT Solutions

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FOR SECURITY, PEOPLE, ENVIRONMENT, BUILDING AND ENERGY SAVING

[www.actatek.com](http://www.actatek.com)

# Say Hello to Jakin ID's Unified Actatek Edge AI IoT Solution

Replace the stack. Run the portfolio. Jakin ID unifies security, people, environment and energy into one platform that understands context and responds on its own. Instead of juggling five separate systems, you can gain true control of your buildings and keep them safe, comfortable and efficient.

The result is a new operating standard for the industry with faster decisions, smoother experiences and clean scalability from a single site to a city-scale estate. Policies stay consistent everywhere, reporting is instant and resilience is built in as local automation keeps working even when networks are noisy. It's a foundation for the next decade for smarter, greener portfolios where outcomes improve as the system learns and operations focus on strategy rather than firefighting.

# The issue with using multiple systems

Most organisations handle 5–6 siloed systems for security, people, environment, building and energy saving

## This leads to:

- Difficulties with sourcing and installation
- Multiple systems to learn and manage
- Costly and difficult to integrate
- Security loopholes
- Systems that are not open, scalable or sustainable

# This can lead to real problems



## Multiple time clocks

Separate time clocks for attendance because access control data isn't usable



## Delayed Responses

No real-time data for security means that there will be slower responses to emergencies



## Wasting energy

IoT environment systems that can't shut off aircon or lights when offices are empty

# Our Unified Edge AI IoT Solution

## Flexible Connectivity

Connect via LAN, PoE, Wi-Fi, or mobile 4G/5G to cloud or private cloud.

## Continuous Operation

Local devices make instant decisions, even when offline, and cloud manages global control.

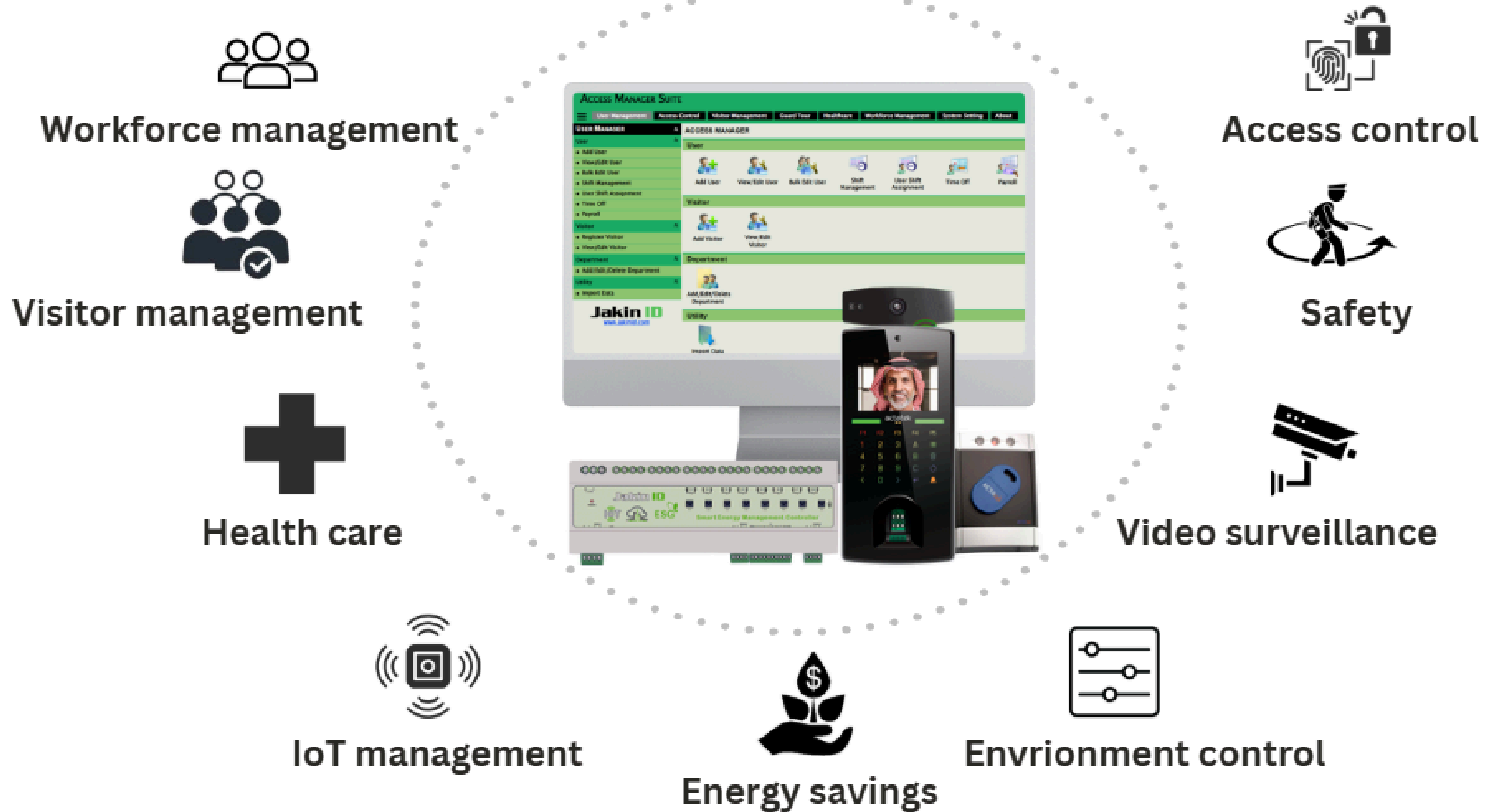
## Data-Driven Automation

Real-time data from access, attendance & sensors triggers smart actions.

## Proactive Comfort Control

Adjusts heating, aircon and ventilation based on occupancy before discomfort starts.

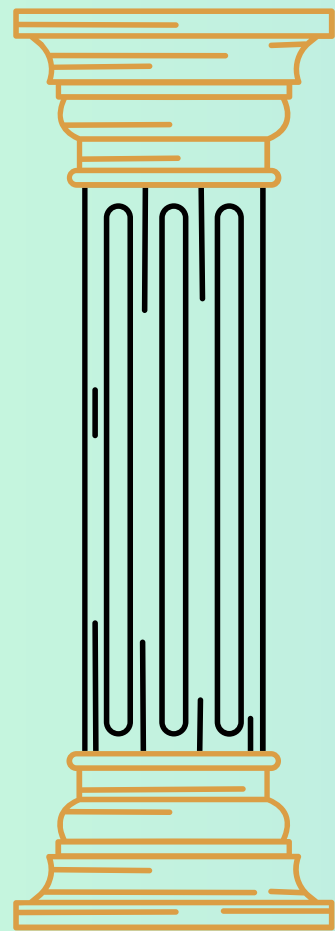
# Functional System Overview



# The Three Pillars

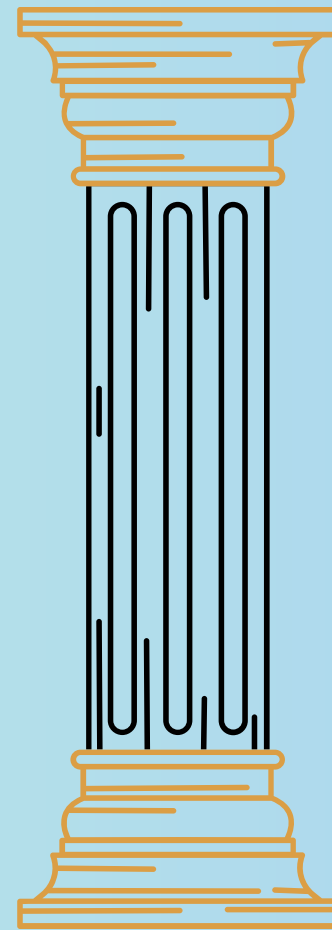
## Security & People Management

Access control, attendance, surveillance



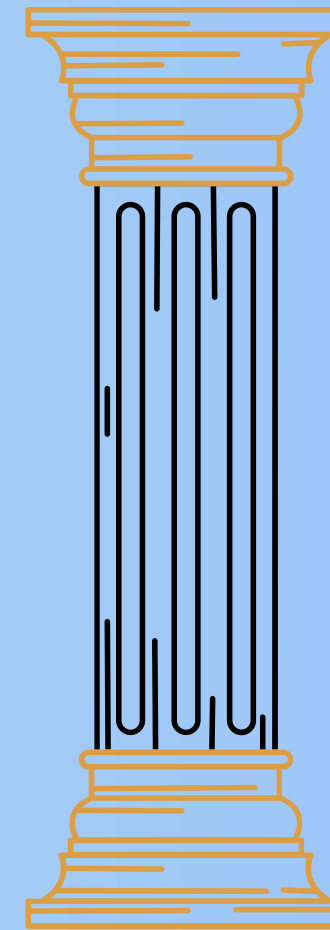
## Data & AI

Predictive, real-time decision-making and response



## Environment & Energy

Lighting, HVAC, air quality

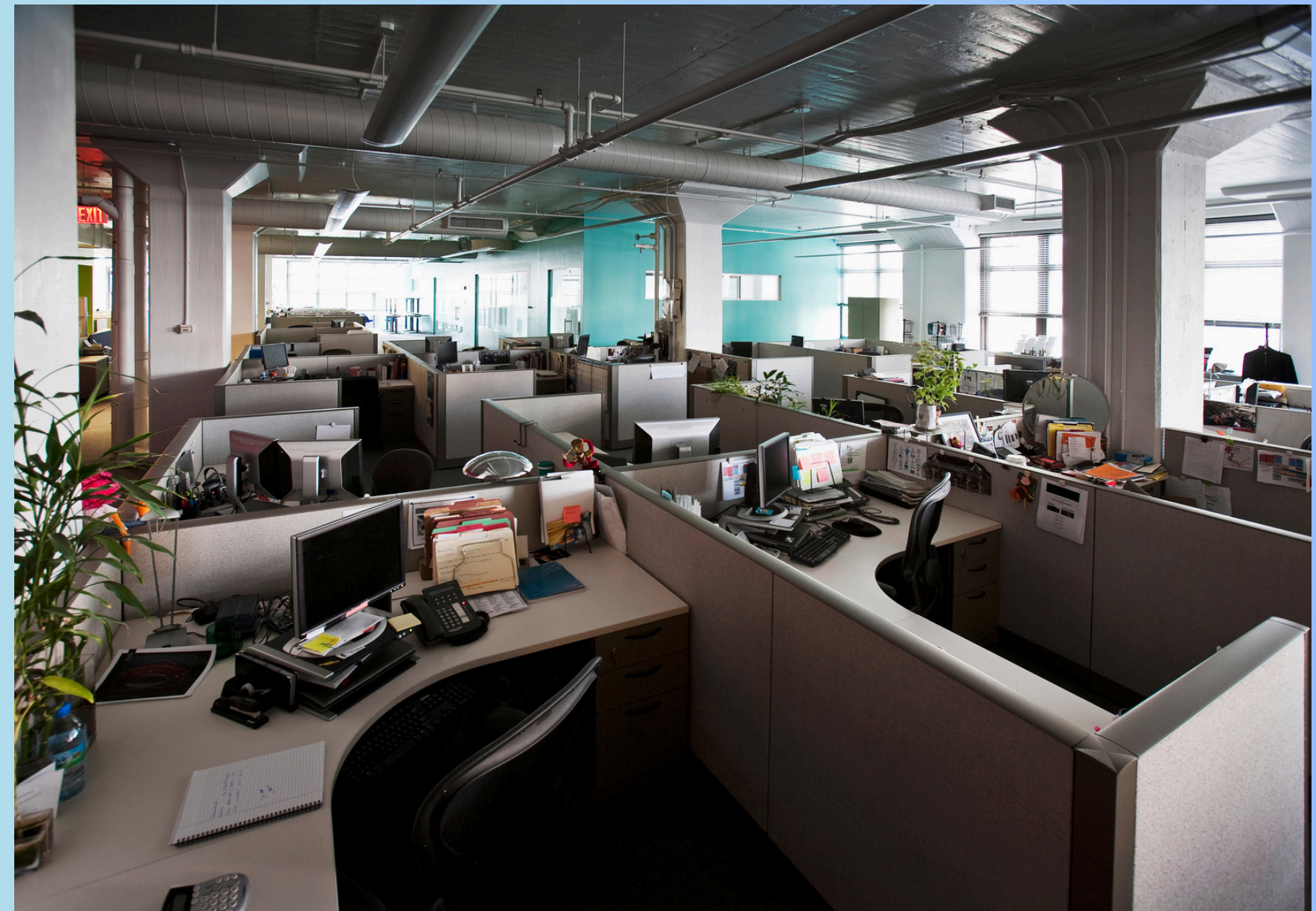


# Security and People Management in One

The ACTAtek combines security and people management in one device. It supports multi-factor authentication like face, card or fingerprint and doubles as a time clock.

Built-in stealth CCTV and an IP camera provide visual verification, while the intercom enables instant communication.

Protected by TLS 1.3 encryption, it delivers real-time alerts, tracks occupancy, logs user identities, stores images and video and allows remote door control.



# Data is Gold

Data is the control layer that keeps buildings safe, comfortable and efficient. Because of its sensors, the system knows who is on-site, how spaces are used and when conditions must change. Decisions happen locally for speed, with a full audit trail in the dashboard.

## How it works:

- Capture: access, exits, events, occupancy, CO<sub>2</sub>, temperature, humidity, light, motion
- Evaluate at the edge: schedules, thresholds and roles are checked locally for instant response
- Act: trigger doors, relays, lighting, ventilation and setpoints; send alerts if out of range
- Record & oversee: log every action, show live roll-call and status across sites, export reports

# What Data Does for Buildings

**Data becomes action the moment conditions change.**

Jakin ID uses occupancy, time and air quality data to control equipment automatically, keep spaces efficient and conditions comfortable without constant oversight.

## **Examples of automatic actions:**

- **Empty space:** turn off lights, reduce HVAC, power down non-critical plugs
- **People arrive:** pre-cool or pre-warm, increase ventilation before discomfort builds
- **Air quality drifts:** boost fans when CO<sub>2</sub> or particulates rise, trim back when clear
- **After hours:** lock doors, set setback temperatures, arm alerts on propped doors
- **Abnormal patterns:** notify on unusual energy use or repeated door force events

# Environment & Energy

- Occupancy-based control for lighting, HVAC, and appliances
- Personalised comfort settings by zone or user
- Real-time air quality monitoring with proactive adjustments
- Automatic shutdown of unused systems to save costs and reduce emissions

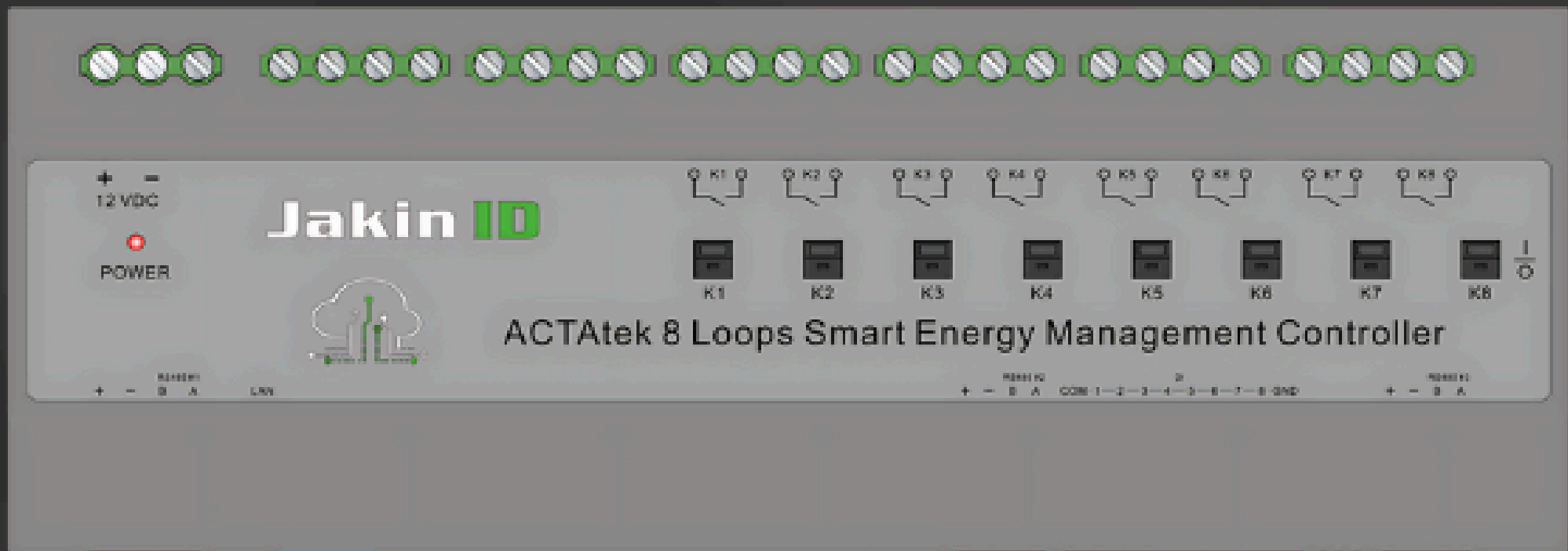
Our environment and energy management system uses real-time occupancy and sensor data to optimise lighting, HVAC, and ventilation. It improves comfort before occupants feel discomfort, shuts down unused systems instantly, and supports personalised settings for different zones. This approach reduces costs, cuts emissions, and creates healthier, more sustainable spaces. ESG compliance and meeting Net Zero 2050 are no longer costs but can be profitable to achieve!

# IoT Controller Capabilities

## Smart Environment & Energy Management



- Reads from all IoT sensors: temperature, humidity, CO<sub>2</sub>, motion, light occupancy
- Uses real-time location of people for personalised settings
- Pre-set lighting & temperature when a user enters car park or lobby
- Adjusts ventilation, appliances and temperature based on occupancy and sensor data
- Cuts energy waste while keeping occupants comfortable



AIR CON

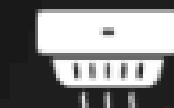


TEMP & HUMIDITY



28°C  
70%

SMOKE ALARM



HUMAN SENSOR



AQI:  
PM2.5: Good  
PM10: Good  
TVOC: Good  
CO2: Good  
CO: Good  
HCHO: Good



# Video Surveillance

The eyes and ears of the system. It can see, verify and respond automatically.

It allows:

- Live streaming in AMS for authorised users
- Event-linked recording with a focus on critical areas
- Visual verification paired with access events and roll-call
- Centralised storage/retention controls and audit trails

Keeps all video inside the same operational workflow as access, safety and reports

# Video Surveillance

With the video surveillance system, action can be taken instantly when needed.

**Event → Capture → Action → Record**

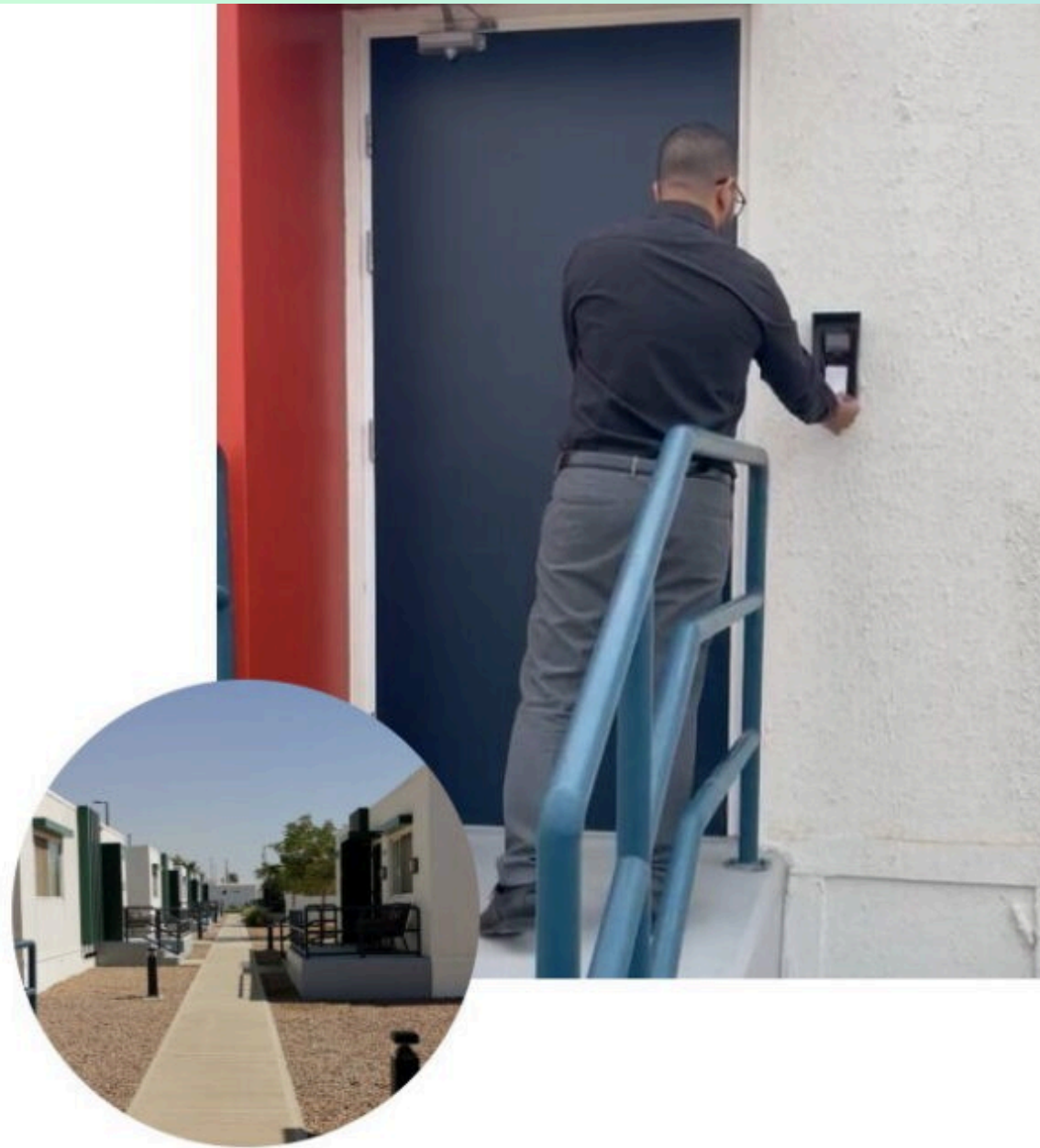
Automatic Responses include:

- Forced door: Record, alert staff, mark zone as “attention,” keep door state on dashboard
- After-hours entry: Record, alert on dashboard, visual verification, alert police if deemed necessary
- Propped door: Record, alert on dashboard, auto-close if fitted with controlled closer
- Visitor arrival: Record, verify identity, enable remote unlock
- Roll-call drill/incident: Show last-seen snapshots for missing persons and zones

# Case Study: NEOM Smart City

Neom Smart City in Saudi Arabia is one of the world's most ambitious urban projects. Within the first of four planned communities, housing 8,000 prefab apartments, ACTAtek delivers a scalable, always-on security infrastructure.

The system provides 24/7 monitoring at every entrance and apartment, integrates seamlessly through Power over Ethernet and WiFi, and is managed via Neom's on-premise multi-application private cloud (AMS) with TLS 1.3 encryption. This unified platform ensures real-time visibility, robust cyber security, and the flexibility to expand as the city grows, setting a benchmark for safety and efficiency in next-generation urban environments.



# One Platform, Multiple Environments

From manufacturing floors to luxury hotels and short-term rentals, our unified Edge AI IoT platform delivers tangible benefits where it matters most. It has proven itself across a range of different environments.

Industry	Key Implementation	Benefits Delivered
<b>Manufacturing</b>	Integrated workforce management, access control, real-time monitoring & UHF RFID asset tracking	Enhanced safety, streamlined operations, reduced downtime
<b>Luxury Hotels</b>	Biometric guest check-in, amenity access, real-time visitor monitoring, AMS + Visionline integration for central control	Elevated guest experience, improved security, seamless operations
<b>Airbnb / Rentals</b>	Biometric & RFID access, 24/7 surveillance, remote cloud-based management	Keyless, hassle-free access, stronger host oversight, and peace of mind
<b>Smart Cities</b>	Scalable ACTatek deployment with PoE/WiFi connectivity and AMS private cloud integration	24/7 monitoring, strong cyber security, and scalable growth for safe, sustainable urban living

# What Our Clients Say

AMS delivers secure, efficient, and scalable solutions trusted by Fortune 500 companies.



# Our Customers Reviews

## **Erica Chui**

Director of HR,  
Orchard hotel (Singapore)

The AMS-integrated software has streamlined our workflow. It enhances roster planning efficiency, ensures secure staff access, and seamlessly integrates with payroll and attendance systems

## **Aurangzeb Mufti**

Key Accounts Manager,  
Tecon

I've seen this integrated system significantly improve workforce management. It reduces manual tasks, minimizes errors, and boosts productivity, with reporting tools that drive data-based decisions."

## **Nazim A Rahman**

Business & Operation  
Manager, Profile Coporation

The AMS's user-friendly interface and seamless workflow integration invaluable. Automated reporting and alerts enhance security, ensuring quick responses to potential threats.

## **Sara Ahmed**

Executive Secretary,  
Advanced Solutions for  
Information Systems

Its seamless integration with existing IT with one AMS platform streamlines operations, offering real-time monitoring, automated reporting, and enhanced decision-making.

## **Uzzwal Biswas**

Technical Support Manager  
PanTech

AMS system is more than just a security solution; it's a comprehensive platform that supports the UAE's vision for a smarter, more sustainable future.

## **Marwan Abdallah**

Division Manager, SITE  
TECHNOLOGY Co. (KSA)

The AMS system exceeded expectations with easy installation and seamless integration into NEOM's IT infrastructure, minimizing disruption to operations.

# Conclusion: Why choose our Unified Solution

## Unified Management

One system for security, people, environment, building and energy.

## Enhance Profit Making

Increase profit out of ESG compliance and meeting Net Zero 2050 objectives

## Cost Savings

Lower operational expenses and energy bills.

## Enhanced Security

Faster incident response and real-time monitoring.

## Future Proof

Scalable, flexible, and ready for business growth.

Jakin ID's unified ACTatek Edge AI IoT solution replaces multiple disconnected systems with a single, intelligent platform. It delivers greater control, efficiency and security, while reducing costs and improving comfort for occupants. A single solution that's built to grow with your needs.