



Guide for Businesses

# ActFact IoT Guide

Practical Blueprints for Smarter Operations

Introduction

# Why This Guide Exists

## Who is it for:

System integrators, OEMs, B2B resellers, or decision-makers exploring how to implement or expand IoT in real-world use cases.

## Why it matters:

IoT doesn't need to be expensive or complicated. With ActFact, it's fast, scalable, and fully configurable, whether you're retrofitting Modbus equipment or replacing legacy PLCs.



## The Problem

# Why most projects fail

Existing systems (PLCs, SCADA, meters) are isolated, expensive to modify, and hard to scale.

Industrial environments are filled with devices that speak Modbus, RS-485, or analog, not cloud.

Reprogramming logic involves high cost and slow response.

Business teams want insights, but IT teams struggle to align.

## The Solution

# Here is what we do differently

### **No Vendor Lock-In**

Our platform is open, modular, and built to work with what you already have.

### **Rules Over Code**

Define logic visually, no firmware changes or programming required.

### **Faster Time to Value**

Plug & play gateways, ready-made rule templates, and simple integrations mean you launch in days.

### **Built for Scale**

From a single site to global rollouts, the same core platform grows with your needs.



The ActFact IoT Solution

# One platform, End-to-end Control

Our IoT Gateway features that make your smart transformation possible.

## IoT Gateway

Plug & play device that connects Modbus, digital I/O, or analog inputs

## Rule Engine

Visual, no-code logic builder

## Cloud Platform

Real-time data, long-term storage, analytics, and remote management

## Mobile App

White-labeled, mobile-first control and visibility for field teams

## Integration Layer

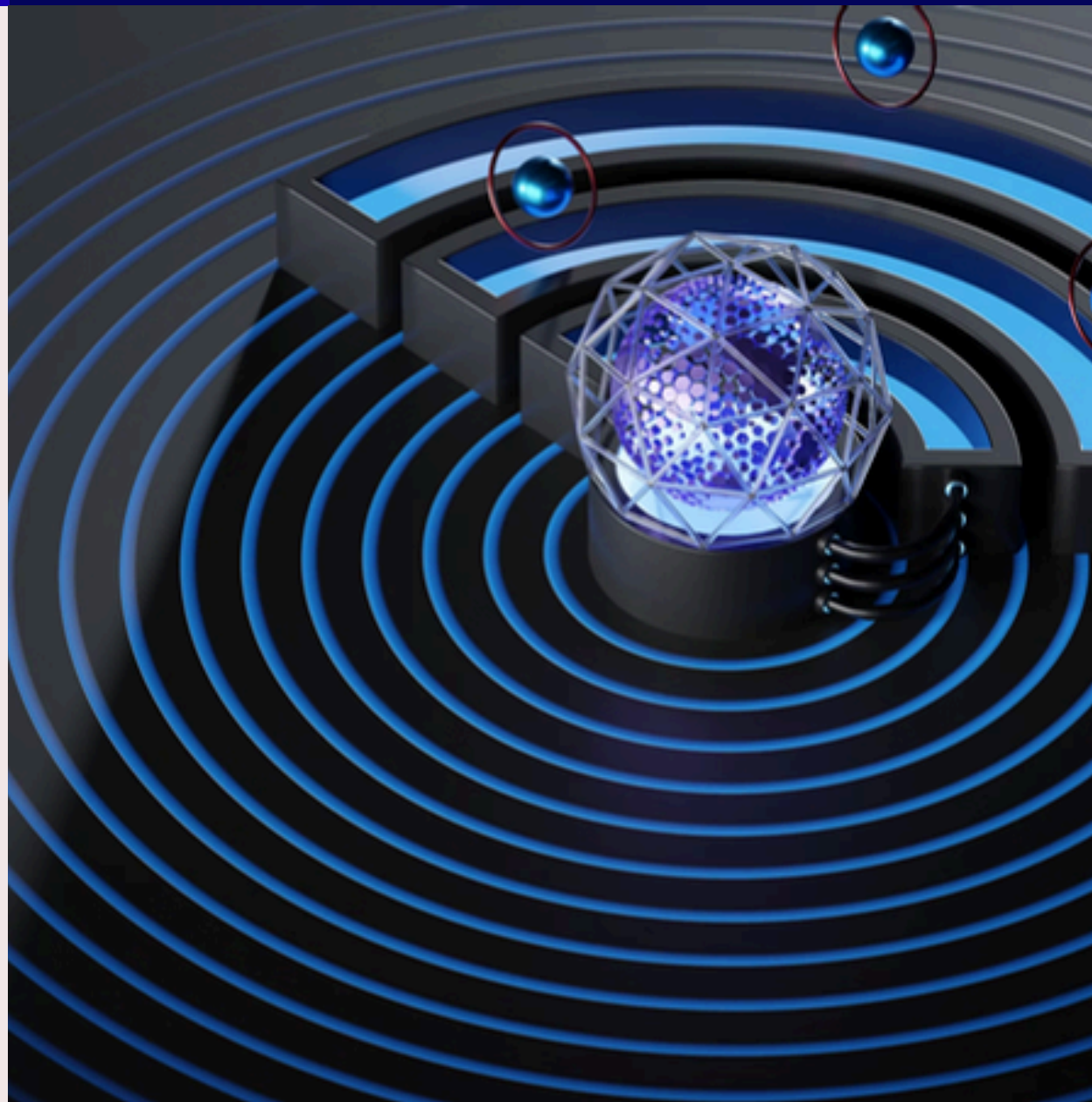
Open API for ERP, SCADA, CMS, CRM, and 3rd-party tools



## The problem

- Factories and buildings often rely on Modbus-compatible PLCs, sensors, and meters.
- These devices are offline, inaccessible remotely, and locked into rigid SCADA setups.
- Replacing them is expensive and disrupts operations.

## Our solution



## Our Approach

# Bridge the gap between legacy systems and modern IoT platforms

- The ActFact Gateway connects directly to Modbus RTU (serial) or Modbus TCP devices.
- It translates this data to IoT-native protocols like MQTT or HTTP.
- Real-time readings are streamed to the cloud or app with minimal setup.

### Fast deployment

No custom firmware or reprogramming needed

### Remote access

Monitor and control from anywhere

### Protocol bridging

Connect legacy Modbus with modern platforms

### No rip and replace

Use existing devices

Our Approach

# Real-time decisions made at the edge. No coding required

## The Problem

Most control logic lives in firmware or in remote PLCs. Changing behavior requires code updates, on-site access, or developer input. It's slow, expensive, and fragile.

## Our Solution: Built-in rule engine

Users can define logic *e.g. If temperature > 60°C → turn on fan*  
 Rules can be updated remotely through a visual web interface.

### Fast Iteration

Update rules in seconds from a dashboard

### Zero Downtime

No need to reboot or flash firmware

### Edge Processing

Decisions happen locally, reducing latency

### User Friendly

OT teams can create or change rules without IT involvement

Our Approach

# Replacing PLCs with Rule Engine-Based IoT Control

## Scalable

Duplicate logic across many sites/devices instantly

## More Secure

Cloud-enabled with encryption and access controls

## Remote Logic Updates

No need for on-site engineers

## Low Hardware Costs

Compact gateway vs. expensive PLC racks

## The Problem

- Traditional PLCs are powerful but rigid: they require ladder logic programming, licensed software, and manual updates.
- Adding new logic or scaling across sites is slow and costly.
- Security is often outdated, and remote access is limited or non-existent.

## Our Solution

- Replace or augment your PLC with ActFact's IoT Gateway and Rule Engine.
- The Gateway acts as both a controller and a logic processor, capable of managing outputs and reading inputs.
- Logic is managed via the cloud-connected dashboard or ActFact app.





## Our Solution

# From Idea to Deployment

Every industrial environment has unique needs, but most face the same challenge: how to connect, automate, and monitor systems in a way that's fast, cost-effective, and scalable. This section shows you exactly how it's done, with real-world use cases, step-by-step blueprints, and configurations you can replicate.

From smart buildings to greenhouses, and from logistics fleets to municipal utilities, ActFact makes it possible to turn disconnected operations into data-driven, rule-based systems that work smarter.



**82% of industrial businesses say legacy systems are their biggest barrier to IoT adoption.**

**We help you overcome that.**



Industrial Applications

# Energy & Building Management (EBMS)

Buildings and facilities rely on outdated BMS or isolated systems to manage HVAC, lighting, energy usage. There's no remote visibility or automation.

Use the ActFact Gateway to integrate with Modbus meters and relays, apply automation logic via rules, and provide central dashboards to building operators.



## Key Benefits

- Real-time energy use tracking**
- Rule-based cost savings**
- Remote visibility**

## Inputs

- Energy meters (Modbus)
- Temperature sensors
- Motion detectors

## Outputs

- HVAC relays
- Lighting control

## Cloud

- Dashboards for building admins, alerts on abnormal usage

# Industrial Applications Production Line Monitoring and Maintenance

Factories have limited insight into machine performance and failures, relying on reactive maintenance and costly downtime.

Retrofit existing equipment with vibration, current, or temperature sensors connected to the IoT Gateway and define logic to detect anomalies.

## Inputs

Vibration sensors  
Thermocouples  
Motor load sensors

## Outputs

Alert systems  
Maintenance tickets  
Emergency shutdown  
relays

## Cloud

Dashboard tracks asset  
health, logs anomalies,  
integrates with CMMS

**Predictive maintenance**  
**Less unplanned downtime**  
**Better resource planning**

**Key  
Benefits**





## Industrial Applications

# Water & Environmental Utility Monitoring

Municipal water systems need smarter pump control, leak detection, and overflow alerts across remote locations.

Use the Gateway to connect SCADA signals, float switches, and flow sensors; define thresholds and automatic controls.

### Inputs

Tank level sensors  
Flow meters  
Pressure transducers

### Outputs

Pump control  
Warning beacons,  
System status alerts

### Cloud

Dashboard view for all  
stations, alarms with  
timestamps

**Fewer on-site inspections**  
**Preventative maintenance**  
**Faster response to critical events**

**Key  
Benefits**

Industrial Applications

# Smart Agriculture & Greenhouse Control

Manual irrigation and limited environmental control result in inconsistent crop quality and wasted water.

Deploy soil moisture and climate sensors with ActFact Gateways to automate irrigation and ventilation.



**Key Benefits**

- Water Efficiency**
- Healthy Crops**
- Reduced manual labor**

- Inputs**
- Soil moisture
  - Temperature
  - Humidity
  - Light intensity

- Outputs**
- Irrigation pumps
  - Shade screens
  - Ventilation fan

- Cloud**
- Data stored for seasonal optimization, mobile app for real-time checks

# Deployment Models

You can choose the level of integration according to your needs.

## Plug & Play

No Hassle-Solution

Resellers, OEMs, or teams without in-house IoT expertise

Rapid go-to-market projects

Those looking for a fully managed, white-labeled solution



### Features

- Preconfigured gateways
- Hosted cloud platform
- Branded mobile & web apps (Orchestra)
- Rule setup & deployment support
- End-to-end technical service

## Modbus Retrofit

Integrate with existing systems

Businesses with partial infrastructure in place

Integrators working with SCADA, Modbus, or existing PLCs

Projects needing IoT overlay without disruption



### Features

- Modbus/SCADA integration
- Sensor and controller retrofits
- Rule configuration and remote logic
- Dashboard customization
- On-premise or hybrid options

## Full Control

Build your own IoT system on our engine.

Advanced integrators and developers

Enterprise teams with custom software or front-ends

Scenarios requiring API-level access and scalability



### Features

- Open API access to data, events, and rule engine
- Developer tools & documentation
- Edge + cloud control
- Full integration with ERP, MES, or third-party platforms





**ActFact IoT App**

# Your Smart Building Edge

**IoT and Android-based digital solutions for full visibility over building systems: HVAC, lighting, energy, and more, directly from their smartphone or tablet.**

- Monitor temperature, occupancy, and energy usage in real time
- View alerts and historical trends
- Access room-level or zone-specific device status
- Respond faster to anomalies or service issues

1

**Predictive Maintenance**

Detect faults early (current, vibration, temp, flow)  
Prevent breakdowns & extend equipment life  
Reduce service calls & unplanned downtime

2

**Fleet Management**

Monitor & manage devices across all buildings  
Push updates remotely, track uptime & logs  
One dashboard for all locations

3

**Remote Control and Automation**

Adjust logic, schedules, and thresholds remotely  
Override systems in real time via app or portal  
Optimize performance 24/7 without site visits

4

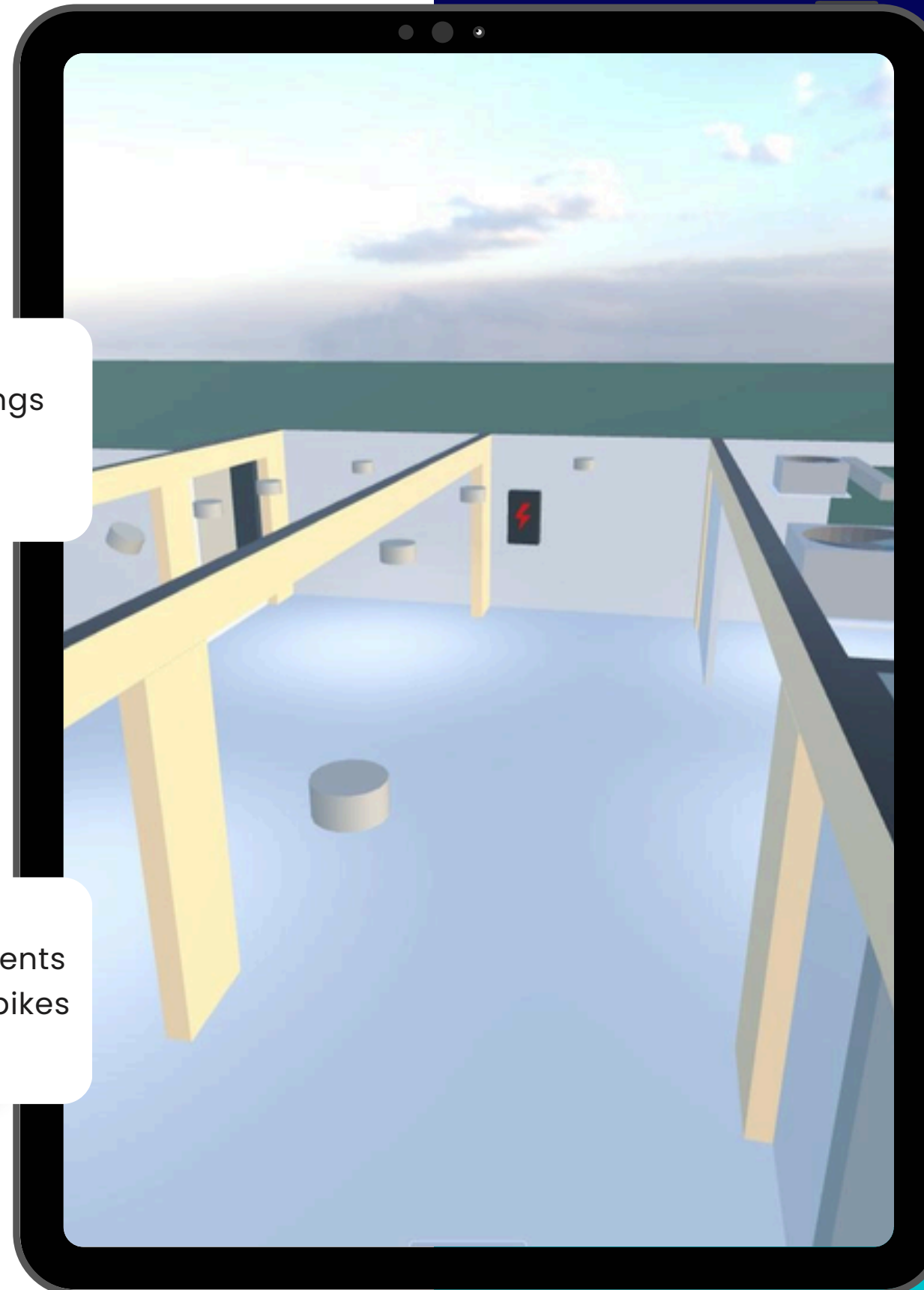
**Smart Messaging & Alerts**

Automatic SMS/email alerts for critical events  
Trigger alarms on failures, leaks, or CO<sub>2</sub> spikes  
Tie directly into your emergency systems

5

**Flexible, Open & Scalable**

Supports Modbus, IP, MQTT, 0–10V, and more  
Cloud, hybrid or private data center options  
API-ready for client dashboards or ERP

**24/7 access**

No need to be on-site.  
Your building talks to you.  
Wherever you are.

**30%**

average reduction in energy  
costs through rule-based  
automation

**80%**

faster response time to building  
system alerts



# How ActFact starts **your transformation**

## **Initial Consult**

Tell us about your business & IoT goals.

## **Customized Demo**

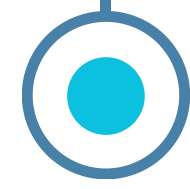
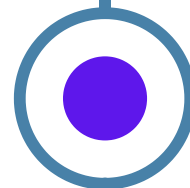
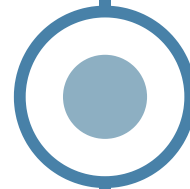
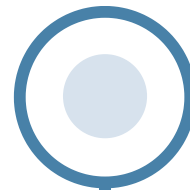
Get a hands-on experience on how ActFact  
IoT fits your needs

## **Evaluate Options**

Choose your level of control & integration.  
Pick the plan that maximizes your return

## **Launch & Scale**

Deploy, optimize, and grow with ease



## **The Process**





# Start Your **Smart Transformation**



## **Address**

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## **Schedule a demo**



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