2025

Guide for Businesses

ActFact IoT Guide

Practical Bluebrints for Smarter Operations

Start Your Smart Transformation

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.

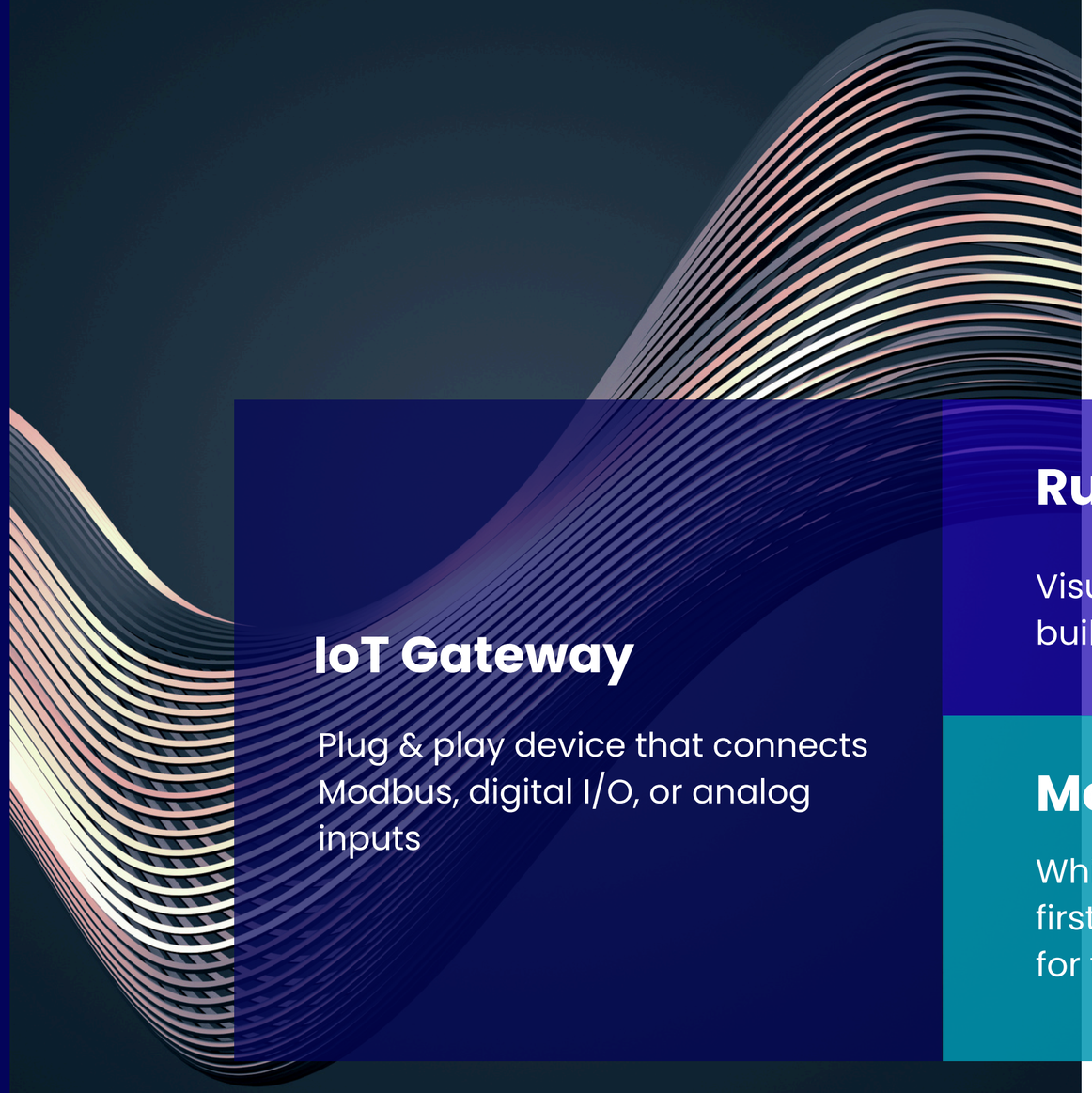
Faster Time to Value
Plug & play gateways, ready-made rule templates, and simple integrations mean you launch in days.

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

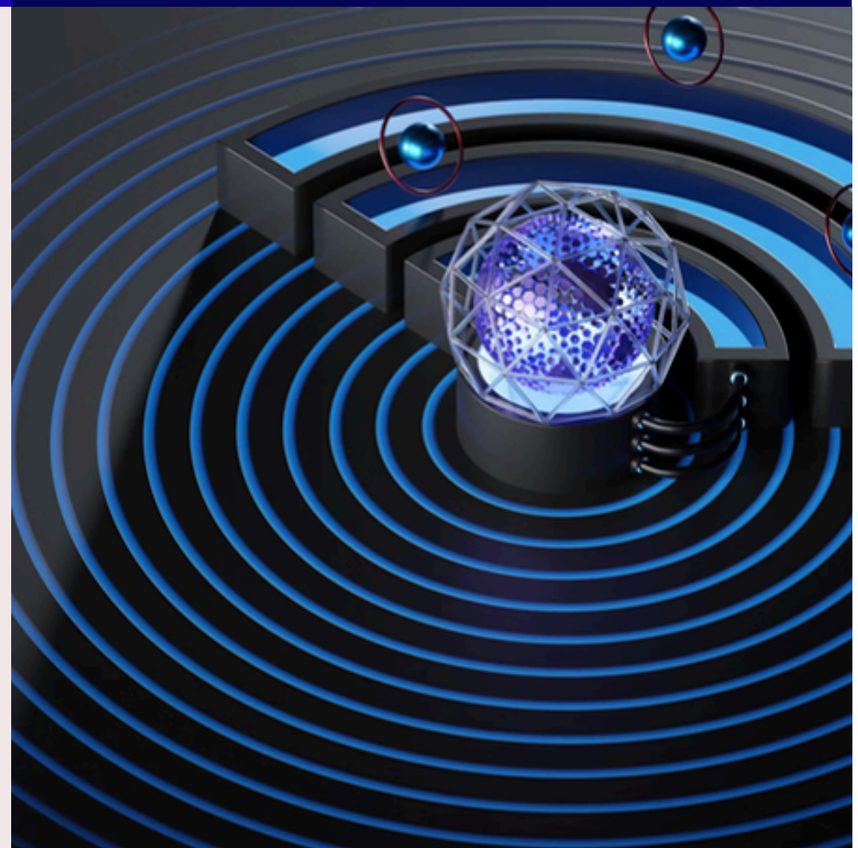
Integration Layer

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

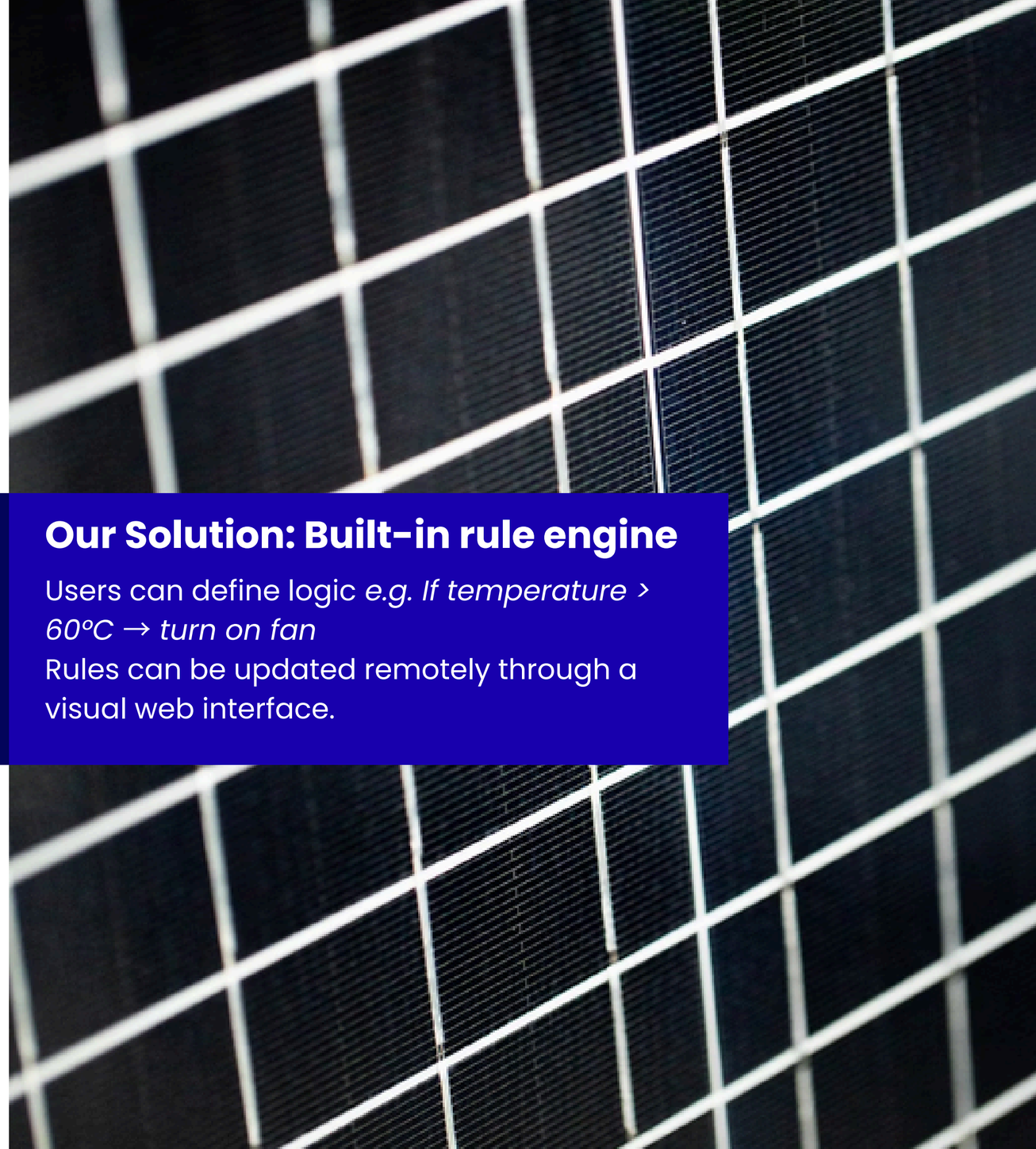
Remote access
Monitor and control from anywhere

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.

Fats 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.

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 rlays
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

Key Benefits

Predictive maintenance
Less unplanned downtime
Better resource planning

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

Key Benefits

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

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.

Choose the level of integration

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 (Orquestra)
- 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

IoS 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

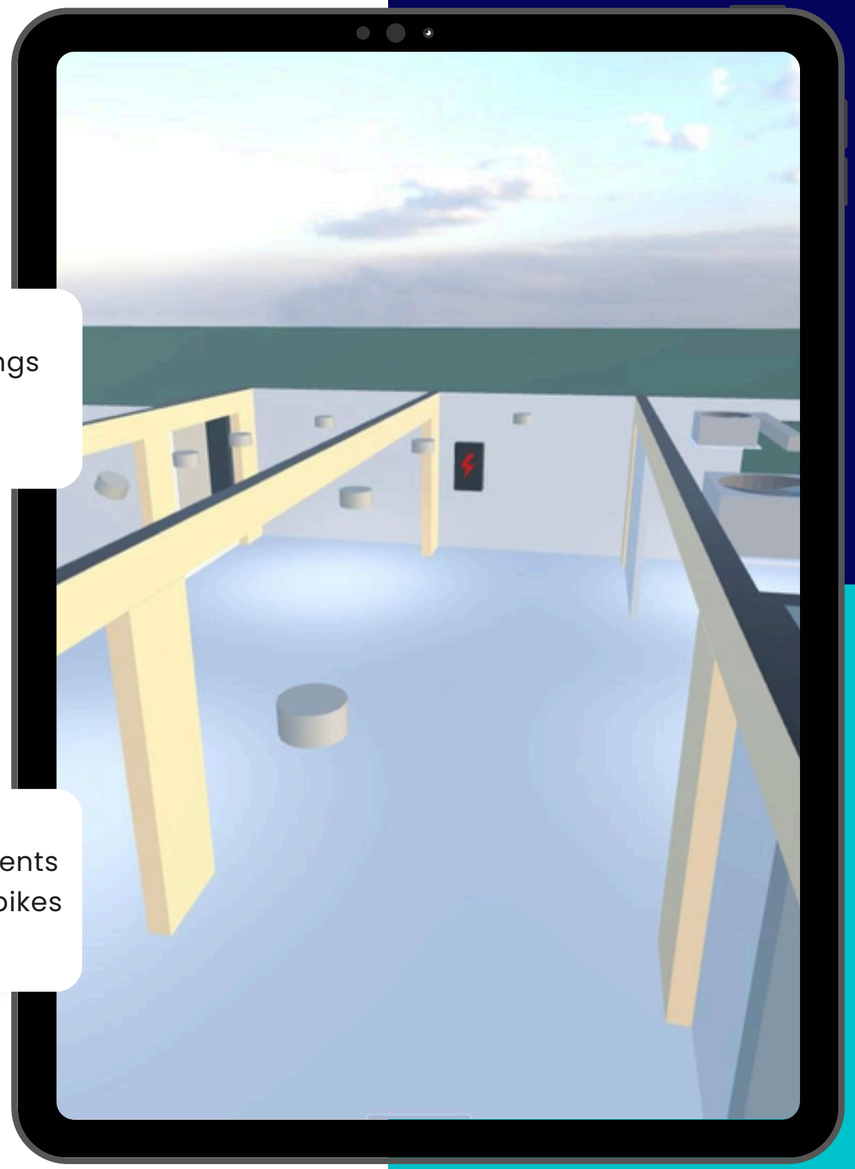
1 Predictive Maintenance
Detect faults early (current, vibration, temp, flow)
Prevent breakdowns & extend equipment life
Reduce service calls & unplanned downtime

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_2 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**

Contact Us

Start Your **Smart Transformation**

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