

IoT For Existing Infrastructure

Turn your existing systems into real-time, connected operations without replacing them

The problem no one wants to touch

Most organisations already have the equipment, systems, and data.

What they don't have is visibility.

- Machines run, **but performance is unclear**
- Data exists, **but it's locked in silos**
- Decisions are made late, **not in real time**

The obvious solution is to modernise.

But that usually means:

- replacing infrastructure
- high upfront CAPEX
- operational disruption
- triggering recertification

So projects stall or never start.



A different approach

Erlang Solutions takes a different path.

Instead of replacing systems, we build on what's already there.

We connect existing machines, collect and process data at the edge, and integrate it into your current environment: without modifying equipment, disrupting operations or triggering recertification.

This is a non-invasive approach to modernisation, designed specifically for environments where change is costly or risky.

No overhaul and no redesign. Just visibility where you didn't have it before.

What it is?

A full-stack IoT platform combining:

- multiprotocol gateway hardware
- edge data processing
- software for integration and insight

At its core is a gateway designed to work specifically with existing infrastructure, including legacy systems that were never built to be connected, without requiring system changes.

Data is captured, processed locally, and shared with your existing platforms, from MES and ERP systems to analytics tools and custom applications.

What it enables?

Real-time visibility

Understand what's happening across machines, sites, and operations as it happens

Faster decisions

Reduce decision latency and respond to issues earlier

Lower downtime

Identify problems before they escalate into failures

Better use of existing assets

Improve utilisation without replacing infrastructure

Safer modernisation

Move forward without impacting validated systems or triggering recertification

Built for real environments

Designed for organisations where:

- legacy and modern systems operate side by side
- uptime and reliability are critical
- change introduces operational or compliance risk
- visibility gaps directly impact performance

From manufacturing and healthcare to logistics and distributed operations, the goal is the same; to unlock data without disrupting what already works.

How it works?



Connect

Integrate machines and devices using existing interfaces, no modification required



Integrate

Feed data into your current systems to create a unified operational view



Process

Analyse data at the edge for real-time insight and reduced latency



Scale

Start with one machine or site, expand across operations as value is proven

Financial impact

This approach is designed to deliver value quickly, without the cost and risk of traditional IoT programmes.

Avoid unnecessary CAPEX

No need to replace machines or systems to access data

Reduce operational losses

Earlier issue detection helps minimise unplanned downtime and production loss

Improve asset utilisation

Get more output from existing infrastructure before investing in new capacity

Shorten time-to-value

Deploy in weeks, not months with measurable results from initial use cases

Lower implementation risk

Start small, validate impact, and scale based on proven ROI

In many cases, organisations see value from a single machine or process before committing to wider rollout.



Why it works?

Most IoT strategies fail because they try to replace too much, too quickly.

This approach works because it doesn't.

It fits around your environment and doesn't force you to change it.

Why Erlang Solutions?

We build systems that are designed to keep running.

- Fault-tolerant platforms built on Erlang and BEAM
- High concurrency for large-scale device environments
- Distributed architectures that remain reliable across locations
- Proven experience working with legacy systems in complex environments

From initial proof of concept to production rollout, the focus is on delivering systems that work in real-world conditions — not just in theory.

Start small and scale with confidence

The fastest way to move forward is to start.

- Connect a single machine or process
- Generate immediate insight
- Validate value in weeks
- Expand based on results

No disruption. No unnecessary risk. Just a clear path from idea to impact.

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