

A background image showing a robotic hand on the left and a human hand on the right, both reaching towards each other. The robotic hand is dark and detailed, while the human hand is lighter and more naturalistic. The background is dark and slightly blurred.

BEACON TOWER

CONNECTING INDUSTRIES

www.beacontower.io

BACKGROUND



Beacon Tower is the result of a number of large and small custom IIoT projects implemented by Glaze in recent years.



Beacon Tower is a SaaS and a reference IIoT architecture with high flexibility for customer logic and with essential implemented components.



It uses an IIoT-specific cloud native services architecture and technology. The architecture can be scaled to thousands of assets and devices.



Beacon Tower focuses on security and being able to operate in industrial environments with Edge Computing and flexible deployment & integration possibilities.

OVERVIEW USE CASES

TRANSPORT & LOGISTICS

Fleet Management
Goods tracking
Transport monitoring
Inventory management

AGRICULTURE

Climate-Agriculture monitoring
Livestock tracking
Feed condition monitoring
Consumption control

ENVIRONMENT

Flood monitoring & alert
Environmental monitoring
(water, air, noise, etc)

INDUSTRIAL

Process monitoring & Control
Maintenance monitoring



UTILITIES

Smart metering
Smart grid management
Connected devices

SMART CITIES

Smart parking
Smart bicycles
Waste management
City lighting

SMART BUILDINGS

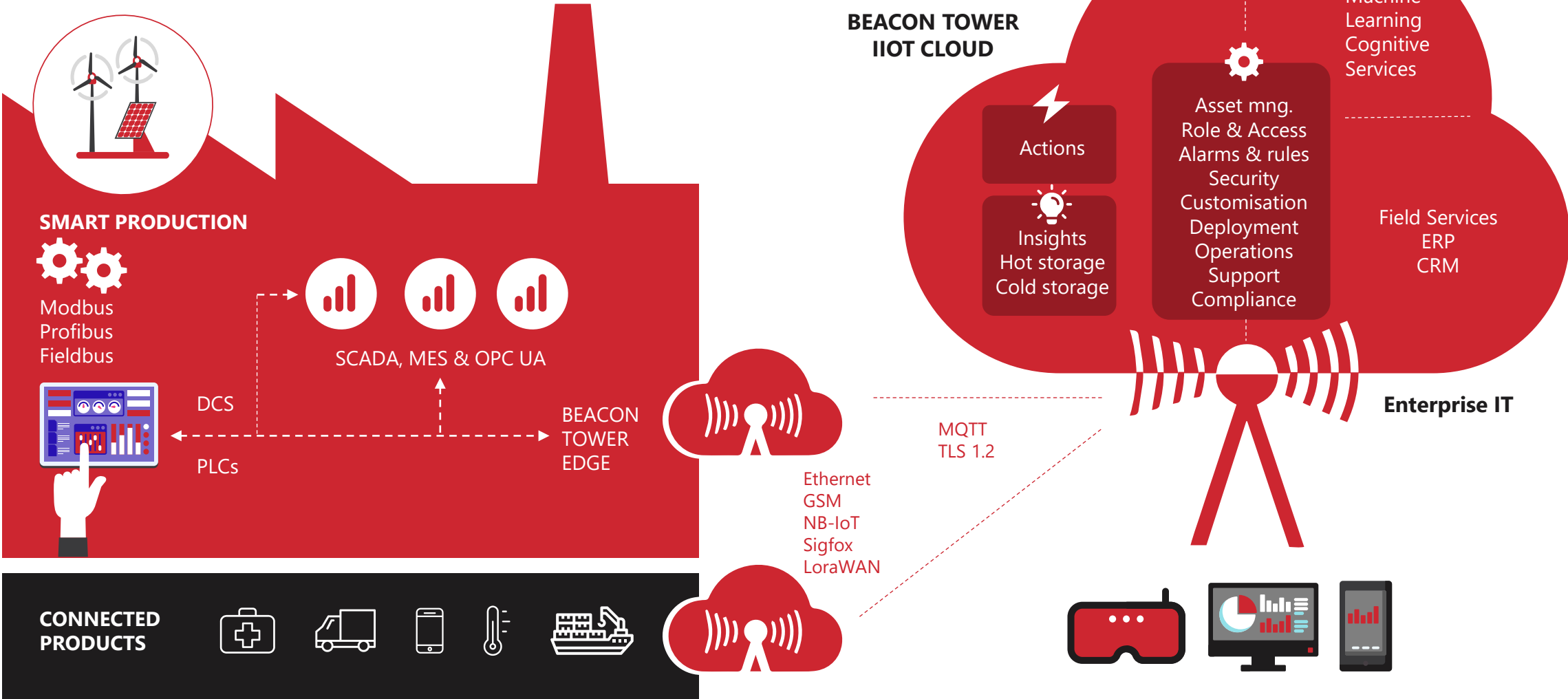
Smoke detectors
Alarm systems
Home automation

CONSUMERS

Wearables
Kids/Elderly tracker
Medical monitoring

VISION: BRIDGING OT, DEVICES AND IT

Analytics & AI



BEACON TOWER PRODUCTS



SaaS



Models your business



Highly customisable



Maintained & updated



365 support



Accelerator



Analyses your business



Scale PoC to enterprise



Low operating cost



No vendor lock-in



IP ownership



Runs in your cloud



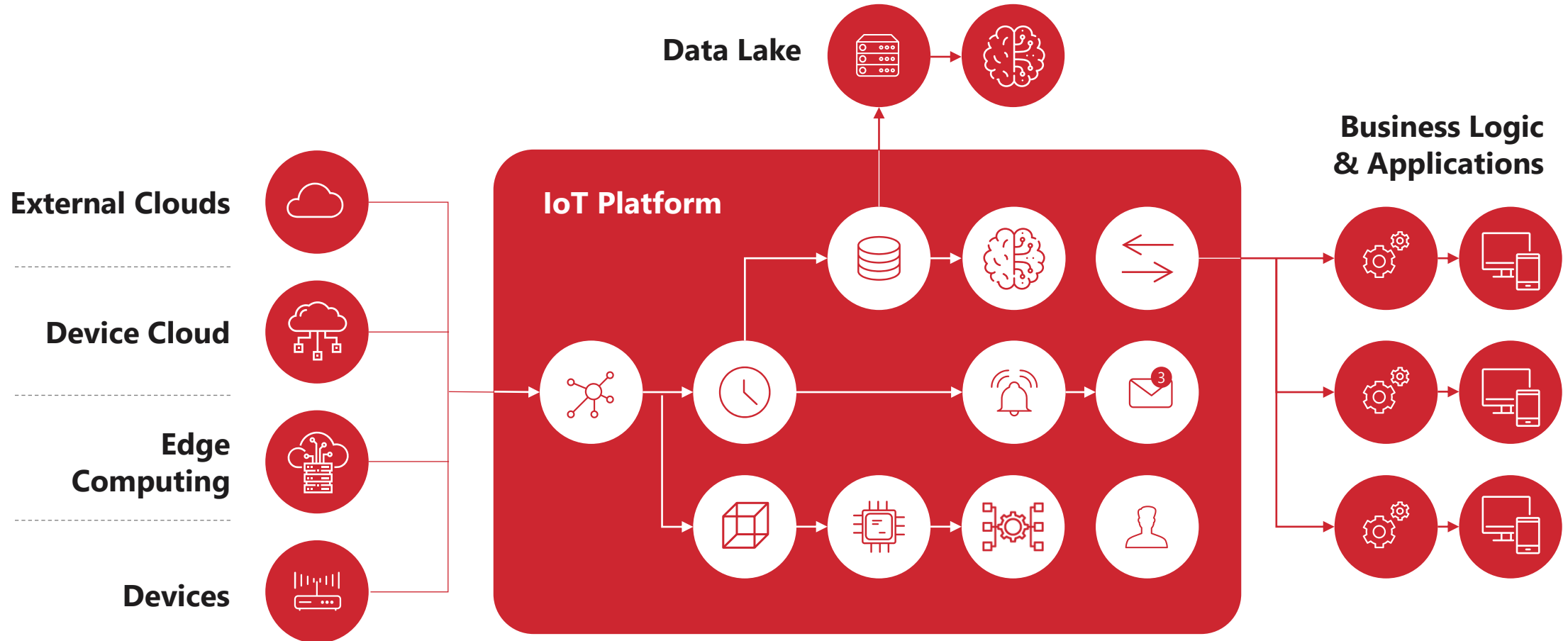
Your platform & set-up



Fits your eco-system

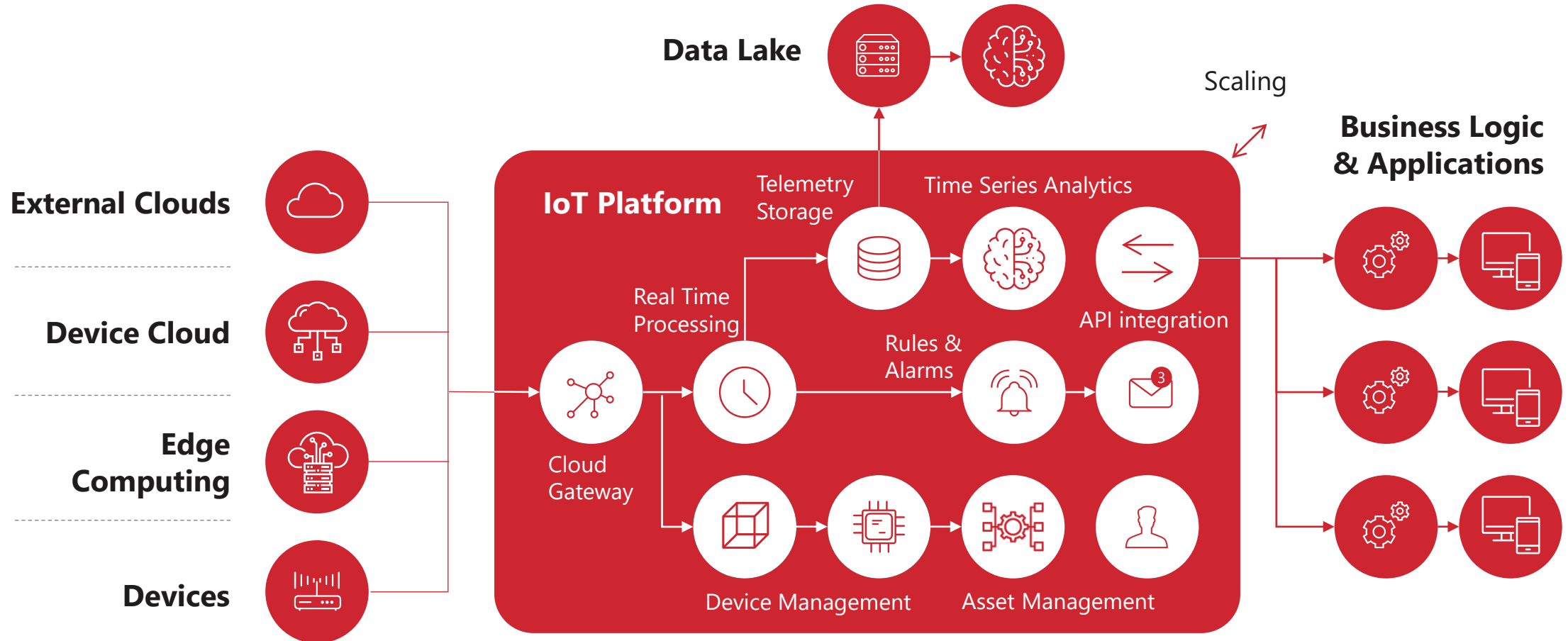


BEACON TOWER DESIGN

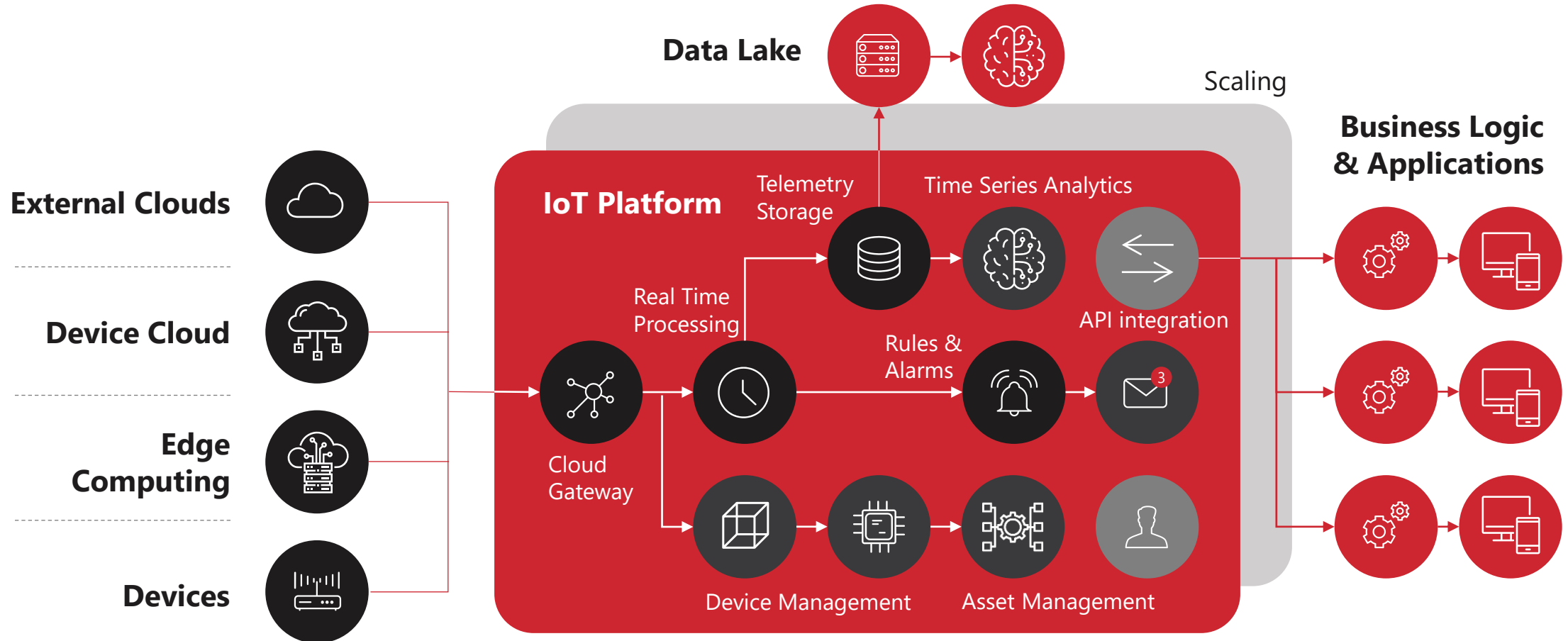


BEACON TOWER DESIGN

Critical Capabilities



BEACON TOWER VERSION 1.0



SELECT FEATURES & CAPABILITIES



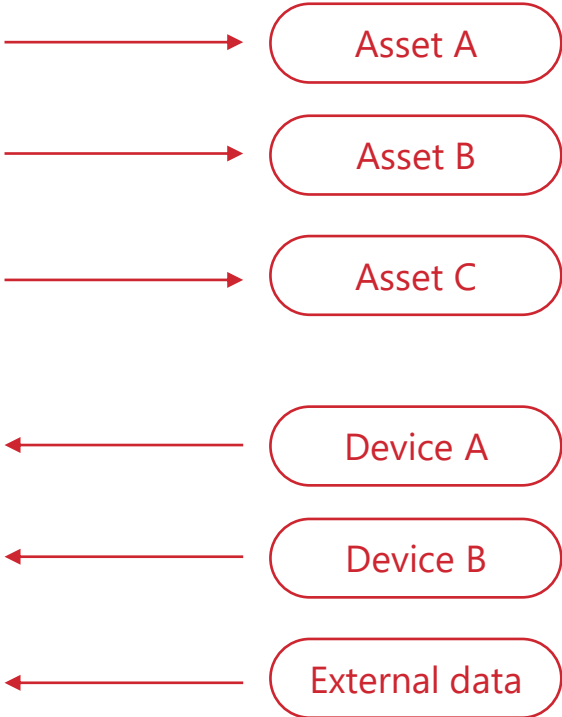
Asset Structure & Hierarchy



Gateway Device



Asset



SELECT FEATURES & CAPABILITIES



Asset Structure & Hierarchy



Rules & Alarms



Create rules that are applied directly on streaming real-time data and virtual signals.



Create thresholds that trigger alarms when sensor values go beyond them



Create complex rules based on average values or on multiple different sensor values.



Trigger alarms or set the rules directly to trigger the appropriate action.

SELECT FEATURES & CAPABILITIES



Asset Structure & Hierarchy



Rules & Alarms



Device Management



State-of-the-art scalable device management for any number of devices.



Perform updates or set properties on a single device, device batches or on any device, depending on your needs.



Enjoy a complete overview of which devices are working properly and which devices have lost or are acting irregularly.

SELECT FEATURES & CAPABILITIES



Asset Structure & Hierarchy



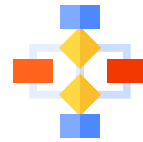
Rules & Alarms



Device Management



Nested Customers



The access & tenant structure is flexible to ensure that it fits your business model rather than the other way around.



Your customers can add and manage their own devices and their own users.



Your customers can allow invite customers to join the system with you company's branding.



Choose the degree of autonomy that your customers should have. For example, you should only have access to their data if it is allowed or if you should always be able to collect certain data from their devices.

SELECT FEATURES & CAPABILITIES



Asset Structure & Hierarchy



Rules & Alarms



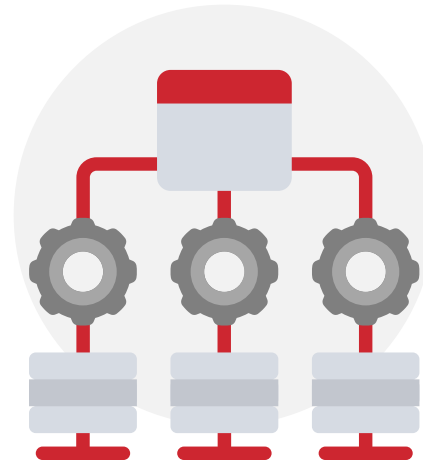
Device Management



Nested Customers



Scalability



Beacon Tower can be offered in a way that fits your needs and requirements

Focusing on low costs it can be hosted on the Beacon Tower multi-tenant instance (on a database separated from other customers).

Running on your own Azure Instance to ensure you have full control

By obtaining a license you can get full access to the Beacon Tower code base to continue development yourself.

Choose to have your system managed by Glaze, by yourself or one of your existing partners.

**Select
Features &
Capabilities**

Asset Structure & Hierarchy



Rules & Alarms



Device Management



Nested Customers



Scalability



API & Data Integrations



Edge Computing



Visualisations & Dashboards



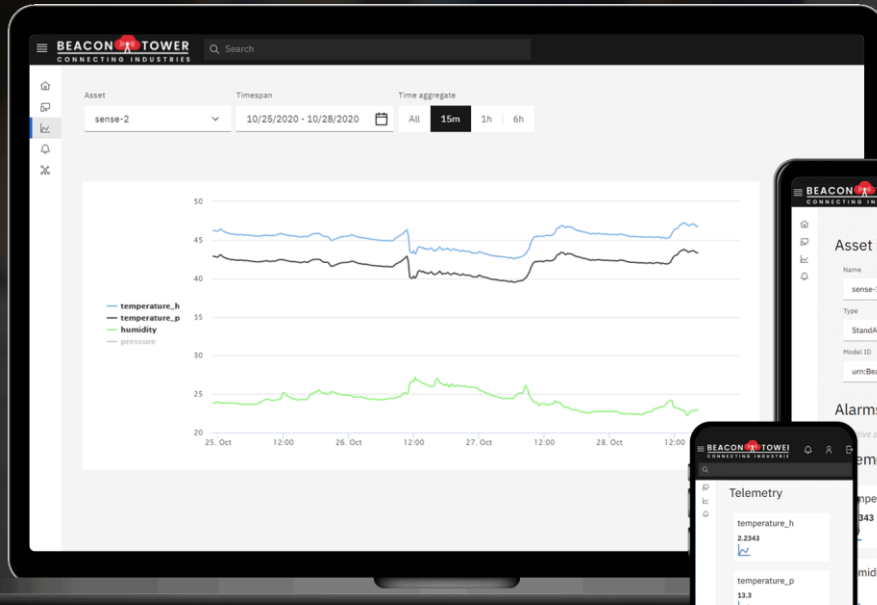
Analytics & Machine Learning



Access Control



Screenshots

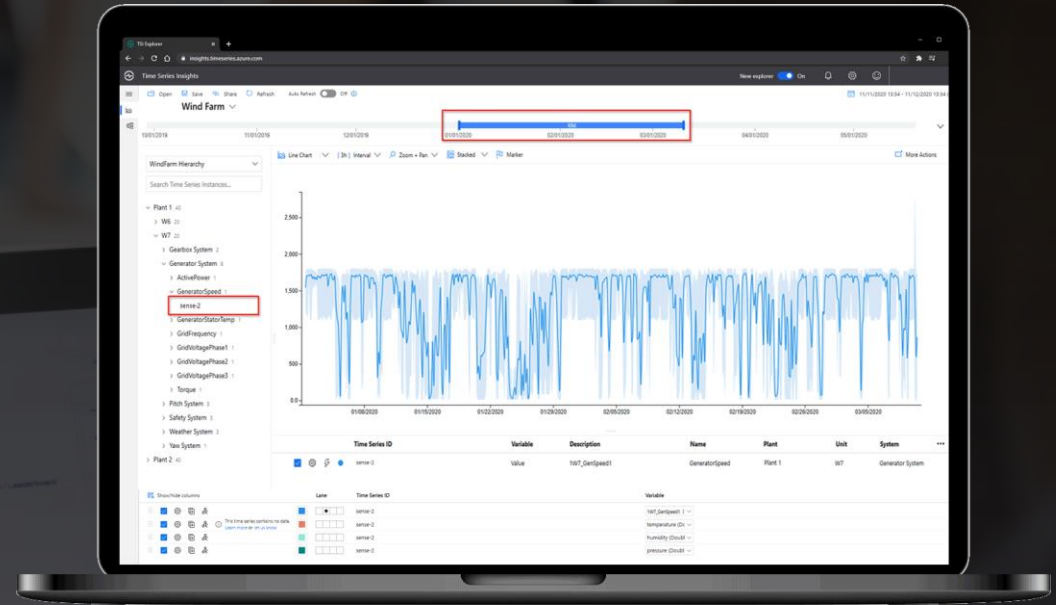


Asset info
Name: sense-1
Type: StandAlone
Model ID: um:BeaconTower:DeviceType:DemoDevice:1

Alarms

Telemetry

temperature_h	13.3	temperature_p	13.3
humidity	-%	pressure	
temperature_c	13.3		



Microsoft Azure

Clone of azure-1 in dev Dashboard

Usage

Responsiveness

condb-1 in dev

World Map

1.12 RU/s
1.06 MB
158 KiB