



# The Future Ready IoT Platform on Azure

*Unleash the Power of Scalable & Secure IoT with EIC  
PROPEL™*

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# The IoT Landscape – Opportunities & Challenges Ahead

Navigating the complexities of IoT to drive business value.

## The IoT is Evolving Are you ready?

The IoT landscape is undergoing rapid transformation. Enterprises require a **secure, scalable, and intelligent** platform to manage connected assets, process real-time data, and unlock AI-driven insights. EIC PROPEL™ is the **catalyst for IoT evolution**, delivering **next-gen connectivity, security, and intelligence.**

## Foundation for EIC PROPEL™ To explore?



### Unify IoT

Connect any device, integrate with Azure, and process any data.



### Scale Effortlessly

Handle millions of assets seamlessly



### Enhance Security

End-to-end encryption, zero-trust model, and compliance-ready architecture.



### Accelerate Business Growth

Real-time analytics to optimize operational efficiency.

## EIC PROPEL™ Why now?

- **75% of IoT projects fail** due to complexity and lack of standardization.
- Enterprises struggle with **device diversity, fragmented data, and security risks.**
- EIC PROPEL™ solves these challenges with an **end-to-end, fully managed Azure-based solution.**

# What is EIC PROPEL™ ?

## Vision, Overview & Driving Force

The backbone of a scalable, intelligent, and secure IoT ecosystem.

### Our Vision



To empower enterprises with an **intelligent, scalable, and secure** IoT platform that accelerates digital transformation and delivers real business value.

### Overview



**EIC PROPEL™** is an **IoT Platform** that helps businesses **connect, manage, and optimize IoT assets at scale** through real-time edge to cloud connectivity, seamless remote device management, automation and intelligent data insights – all governed through a robust security framework.

## The Driving Force Behind EIC

### PROPEL™



#### The Industry Challenge

- Legacy IoT platforms are **fragmented, complex, and difficult to scale**.
- Security remains a **major roadblock** for IoT adoption.
- Lack of **real-time decision-making**

#### How EIC PROPEL™ Solves This

- **One Unified Platform** – Manage **all IoT assets** from a single dashboard.
- **End-to-End Security** – Built-in **zero-trust architecture**.
- **Seamless Azure Integration** – Works with **Azure IoT, Synapse, Data Explorer**.
- **Future-Ready** – Architecture supports implementation/integration for Predictive AI, ML and Generative AI use cases

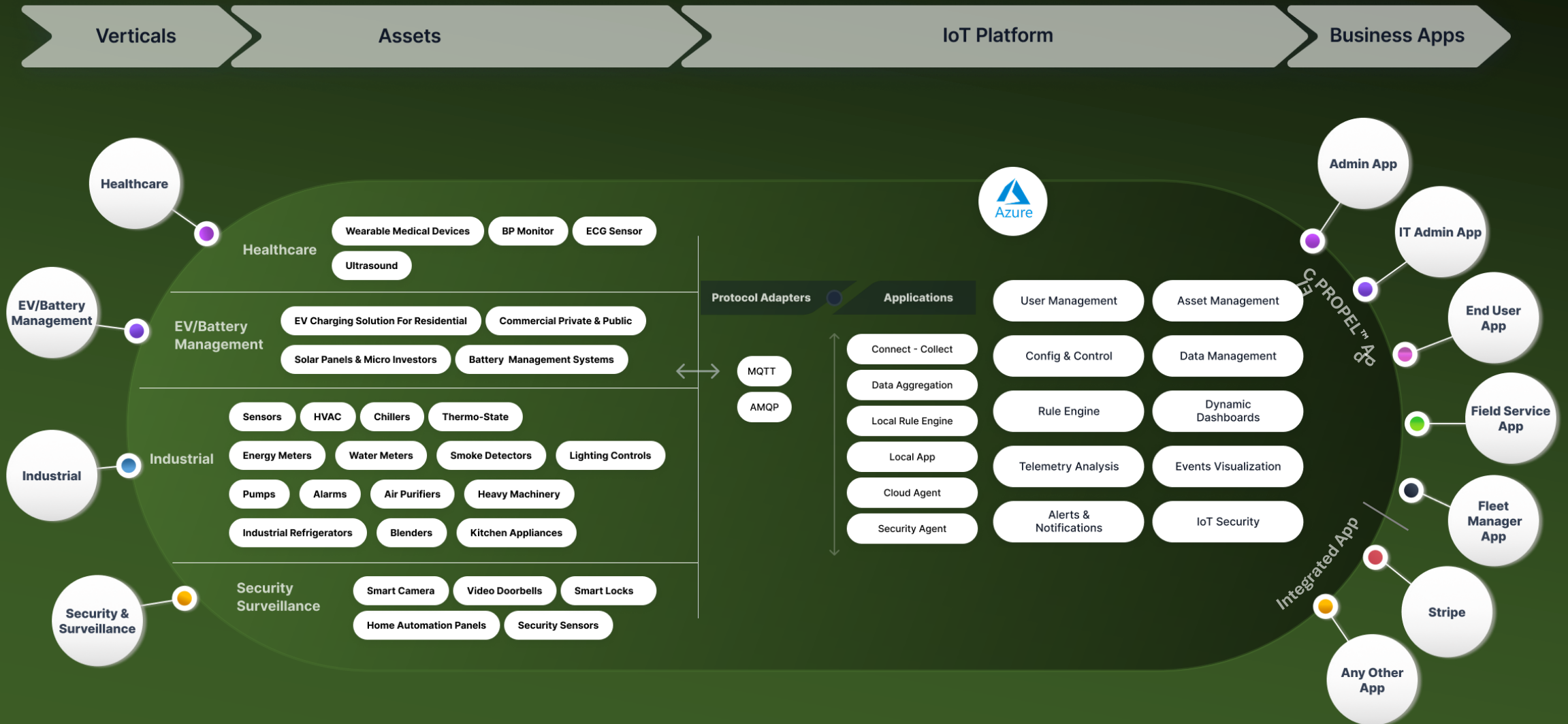
#### Objective- Business & Technical Goals

- **Business Goals:** Drive **operational efficiency**, **reduce downtime**, and **optimize asset utilization**.
- **Technical Goals:** Provide a **scalable, secure, and future-ready** platform with seamless **Azure integration**.



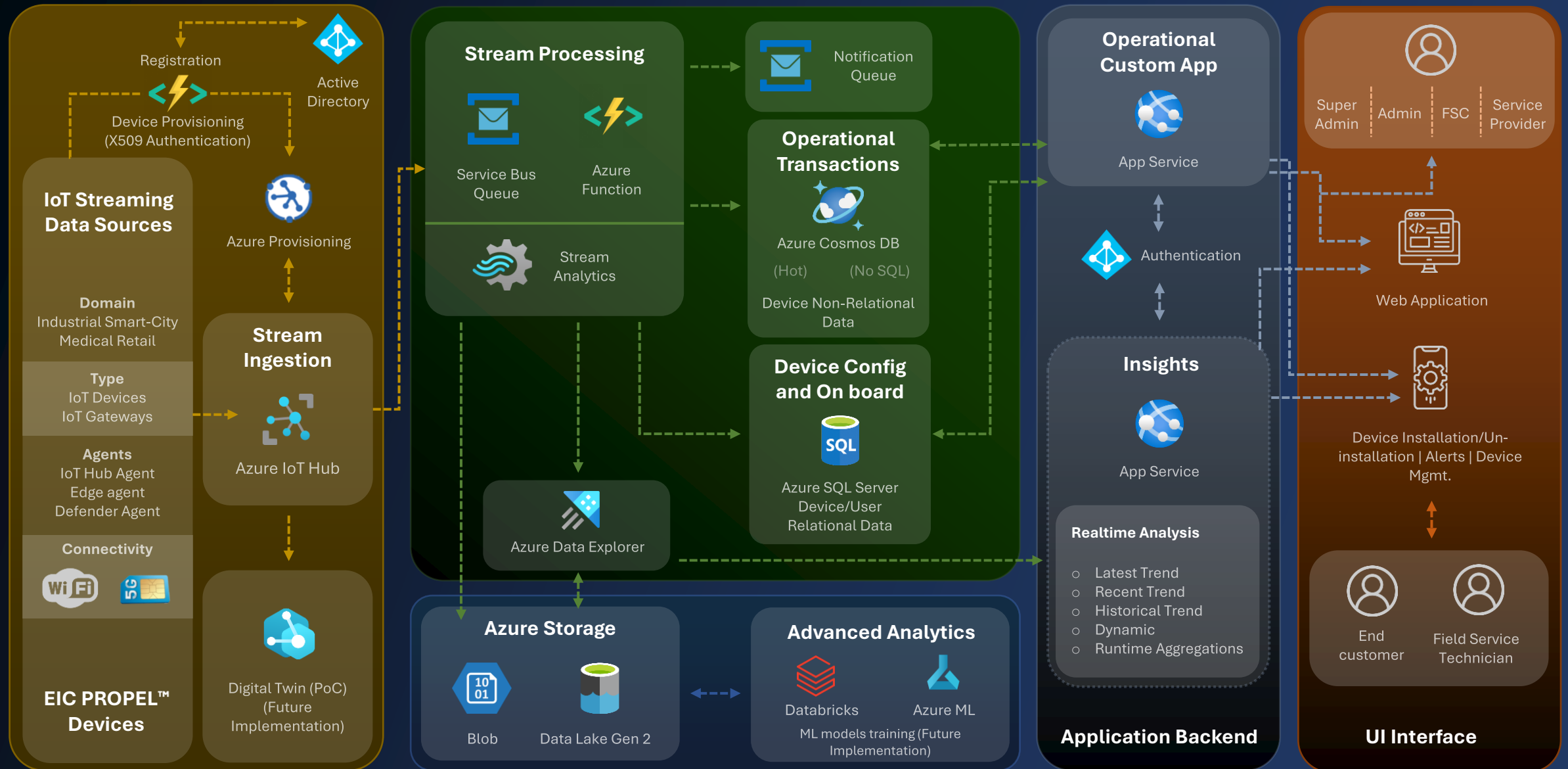
# The EIC PROPEL™ Ecosystem - A Unified IoT Framework

A seamless, connected IoT ecosystem designed for agility and efficiency.



# EIC PROPEL™ Architecture – Built for Enterprise IoT

From Edge to Cloud – A Zero-Trust, High-Performance IoT Framework.



# Secure & Scalable IoT Infrastructure – Security, Compliance & Performance

Enterprise-grade security meets high-performance scalability.



## Scalable & High-Performance Architecture

- **Edge-to-Cloud Processing** – Secure, real-time data ingestion, processing, and analytics using **Azure IoT Hub, Data Explorer, and CosmosDB**.
- **Event-Driven Microservices** – EIC PROPEL™ is powered by a **scalable event-driven architecture**, ensuring **low-latency processing and distributed parallel execution**.
- **Multi-Tenancy & Role-Based Access** – Supports **isolated tenant** with granular **RBAC (Role-Based Access Control)**.



## Enterprise-Grade Security & Compliance

- **Zero-Trust Security Model** – Implements identity-based access controls (IAM, MFA, and OAuth2.0) for role-based authentication.
- **Customer-Owned Deployment** – EIC PROPEL™ acts as an accelerator, **allowing enterprises to build and manage their own IoT platform on Azure with full control over infrastructure and costs**.
- **X.509 Certificate-Based Authentication** – Device provisioning and communication security with **certificate-based authentication**.
- **Regulatory Compliance** – Fully aligned with **OWASP, NIST, GDPR, ISO 27001, and HIPAA** standards.



## Resilient Data Management & Disaster Recovery

- **Multi-Layered Data Storage Strategy** – **Hot, Cold, and Archive** storage options for cost optimization.
- **Immutable Audit Logs** – Comprehensive logging for **audit trails, forensic analysis, and compliance validation**.



## Secure IoT Device Management

- **Firmware Over-The-Air (FOTA) Updates** – Secure **code-signed OS & firmware updates** with rollback capabilities.
- **Dynamic Policy Enforcement** – Centralized **device policy management, access restrictions, and automated compliance enforcement**.

*EIC PROPEL™ ensures that IoT deployments are not just powerful but also secure, scalable, and compliant, making it a trusted choice for enterprises.*

# EIC PROPEL™ Features – The Building Blocks of a Smarter IoT Platform

A Feature-Rich, Enterprise-Grade IoT Accelerator for Seamless Operations.

- One-time setup of child devices, peripherals, and configuration widgets
- Rule-based fault codes, notifications, and automation triggers
- Visualization tools for real-time telemetry insights

- Provision, tag, and manage assets dynamically
- Inventory whitelisting and access control

- Multi-level dashboards for assets, fleets, and tenants
- Real-time telemetry visualization and anomaly detection
- Notifications via Email, SMS, WhatsApp, Teams

- End-to-end encryption for data-in-transit and at-rest
- X.509 certificate-based authentication



- Secure OS & firmware updates with code signing
- Support for bulk operations and remote device control
- Edge computing for real-time rule execution

- Run rules on cloud & edge for automation
- Real-time aggregates & batch processing for deep analytics
- Support for HOT-COLD-ARCHIVAL data storage

- Field support app for initial provisioning and remote diagnostics
- Microservices-based, extendable IoT architecture for scalability
- API-driven platform
- EIC PROPEL™ is an enterprise-grade IoT platform designed for scale, security, and efficiency.



# EIC PROPEL™ Led Service Offerings – A Complete IoT Solution

From strategy to execution - your trusted partner in IoT success.



## IoT Strategy & Consulting

Tailored IoT roadmaps for enterprises looking to modernize their infrastructure.



## Application Development & Customisation

Building custom dashboards, integrations, and business logic.



## AI/ML/ Generative AI Integration

Future-ready AI-powered analytics and predictive maintenance models.



## Managed Services

Ongoing monitoring, maintenance, and optimization of your IoT ecosystem.



## Security & Compliance Audits

Ensuring end-to-end data security and regulatory adherence.

# Why EIC PROPEL™? - EIC PROPEL™ is the Smartest Choice for IoT Acceleration

More than a platform-an accelerator built for innovation and impact.

## Enterprise-Grade Security

Built-in **zero-trust architecture**,  
**multi-layer encryption**.



## Fully Scalable & Future-Ready

Handles **millions of IoT devices** without  
performance bottlenecks.



## Modular & Customizable

Adaptable to **any industry use case** including  
Industrial, Healthcare, Consumer,  
Security/Surveillance, EV Charging/Solar Energy



## Monitor & Control

Real-time insights & Automated  
workflows for seamless device  
operations and management



## Seamless Azure Integration

Works effortlessly with Azure IoT  
**Hub, Synapse, Data Explorer.**

# Industry - Specific Challenges & How EIC PROPEL™ Solves Them

Real challenges demand real solutions - how EIC PROPEL™ delivers results.



## HEALTHCARE

Challenges in secure data handling, constant connection, and device compatibility for unified medical monitoring

Collect and analyze data from wearable devices at patients' homes  
Track the real-time location and status of these devices, ensuring their availability



## SMART BUILDING

Unexpected equipment failures in buildings like elevators or HVAC systems can disrupt operations and can be costly

Monitor energy consumption patterns across heating, ventilation, and HVAC systems  
Check equipment health and predicts potential issues before they escalate



## EV CHARGING

Growing number of EVs necessitates a robust charging infrastructure  
EV battery health directly impacts range and performance

Monitor charging station availability, track energy usage and even identify potential maintenance needs  
Monitor battery health data and predicts potential issues



## INDUSTRIAL

Unplanned equipment failures in factories or on production lines can cause significant disruptions and financial losses

Analyze sensor data from equipment to detect early signs of wear and tear  
Get insights into asset health, allowing for targeted maintenance interventions only when necessary



## SECURITY/ SURVEILLANCE

Low Latency streaming, cost and reliability of connected devices eco system and intelligent alerts based automated security actions.

Subscription based home/building security, license management, streaming and analytics, NLP based real-time search from terabytes of video data

CHALLENGES

USE CASES

# EIC PROPEL™ Availability Options – Flexible & Scalable for Every Business

Deploy IoT your way—on your terms, at your scale

## Available

As

### Customer-Owned Deployment

EIC PROPEL™ acts as an accelerator, allowing enterprises to build and manage your own IoT platform on Azure with full control over infrastructure and costs.

### Enterprise Implementation

Easy and Quick to customize for your end-to-end needs, ensuring seamless integration, scalability, and security tailored to the business needs

**Flexible Pricing &**  
Support Packages Available

**Contact Us**

[marketing@einfochips.com](mailto:marketing@einfochips.com)



# Next Step & Call to Action

Experience the EIC PROPEL  
Today!



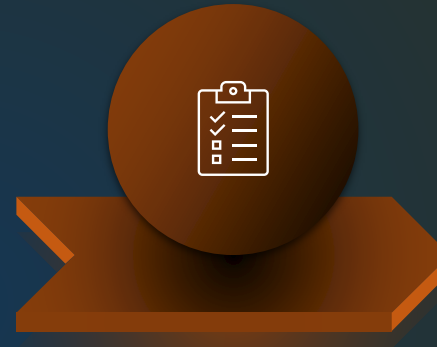
## Request a Demo

*Get a live demo of  
platform*



## Talk to our Experts

*Our consultants will  
engage to understand  
your need*



## Get an Assessment Report

*We will assess, identify  
customization & provide  
assessment report*



## Get a Private Offer

*We will make private offer  
with customization cost  
Support to deploy on  
Customer Azure  
subscription*

# Get in Touch



Contact Us

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Website

*www.einfochips.com*

# Thank You!

