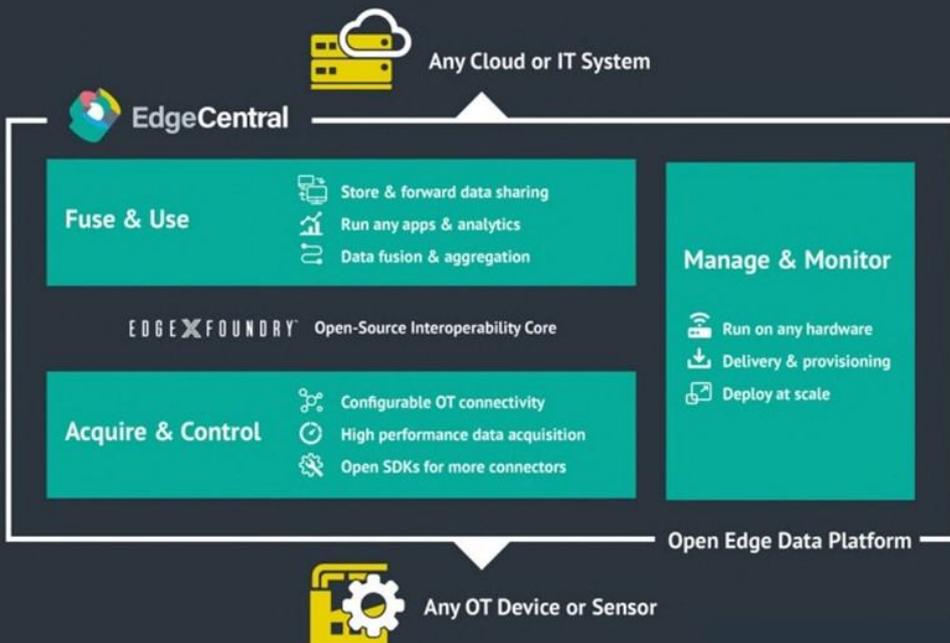# IOTech Edge Central - **Acuvate Edge Platform Services**

Working in partnership, IOTech and Acuvate are launching a brand new solution for industrial edge applications. The product is based on a fully integrated combination of Acuvate's leading 7 steps Standard Digital framework and IOTech Edge Central software. **IOTech Edge Central** is a modular, "plug and play", open edge data platform and edge management software toolset. It enables users to maximize business value from their industrial data by easily integrating their southbound OT & IT devices and sensors with their edge decision making, analytics and northbound IT/ Cloud systems. The platform can be deployed on a wide range of Gateway, Industrial PC and Server class devices and is independent from the choice of underlying hardware (e.g. ARM or Intel) and operating system.

EdgeCentral

Any Cloud or IT System

Fuse & Use
- Store & forward data sharing
- Run any apps & analytics
- Data fusion & aggregation

Manage & Monitor
- Run on any hardware
- Delivery & provisioning
- Deploy at scale

EDGE X FOUNDRY Open-Source Interoperability Core

Acquire & Control
- Configurable OT connectivity
- High performance data acquisition
- Open SDKs for more connectors

Open Edge Data Platform

Any OT Device or Sensor

Edge Central is based on the Linux Foundation's EdgeX Foundry, the world's #1 open-source edge data platform. It leverages EdgeX for its base set of core services which provide an interoperability foundation on top of which IOTech deliver significant value-add capabilities required for commercial use across different industrial markets.

The Main Features of IOTech Edge Central Are:

Acquire & Control

Allows you to connect to any device and acquire your OT data in real-time. Data can be collected from many sources and then normalized, aggregated and securely shared with any other platform service or endpoint. The platform provides extensive pluggable connectivity for many of the most common Southbound OT protocols (e.g., Modbus, OPC UA, BACnet, EtherCAT, EtherNet/IP, PROFINET, Siemens S7 and many others) used by the leading device manufacturers There is also an open SDK to create more connectors as needed. Data is read/write and can be acquired at low latency and in high volumes through tool-based configuration and without the need for custom coding

Fuse & Use

Allows you to leverage the platform's data processing services including edge rules, transformations and filtering. Data collected from the OT devices and sensors can also be processed by your own edge applications that use the latest AI/ML, analytics or inferencing technologies. The data processing results can be shared with other endpoints such as cloud services, while actuation commands can also be sent back to the OT environment to control the equipment. The platform provides standard configurable connectivity to enterprise cloud systems from AWS, Microsoft, Google and IBM, again with an open SDK to create more integrations

Manage & Monitor

IOTech Edge Manager enables users to automate the management of their edge nodes, Edge Central applications and connected devices centrally and at scale. Edge systems are managed from a centralized controller that can be hosted either on-premise or in the Cloud. Users have a number of ways to interact with the controller including an intuitive GUI, via a CLI (useful when automating batch management tasks), or directly via GraphQL or REST APIs when driven by a higher-level supervisory system. Platform independence from both the managed nodes (Gateway, Industrial PC, Server or even MCU class devices) and the Cloud environment (public or private) on which the controller is deployed ensures flexibility and choice. The loosely coupled event-driven architecture of IOTech Edge Manager helps address scaling and can support the management of 100s or 1000s of edge device nodes and their applications. It supports the deployment and management of both containerized Edge Central applications, native Linux binary applications or scripts and other configurations files.

Industries

Manufacturing & Industry 4.0	Retail	Building Automation	Renewable Energy	Oil & Gas

Detailed links for IOTech Edge Central / Acuvate Edge Platform:

https://www.iotechsys.com/products/edge-central/

Why Edge Central software is key to the **Acuvate Edge Platform**
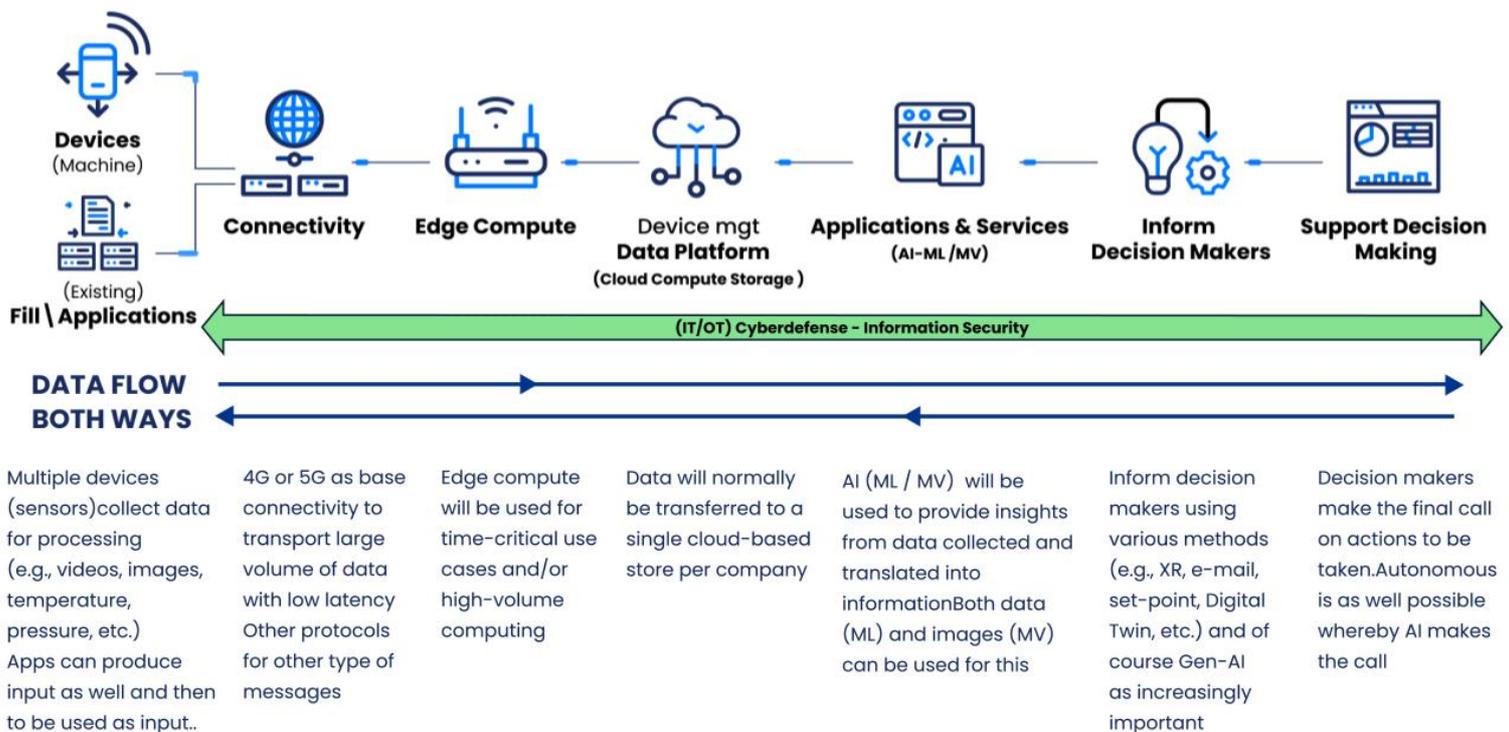
- **All IOTech features are fully available and supported.**

- **Acuvate gives advise on the Edge set up most suitable for you such as:**

  » What connectors (north and southbound) are needed?

  » What business applications to be running?

  » GPU capacity needed?

  » Storage needs?

  » Do you need GPU capacity?

- **Acuvate offers SLA based end to end operational support for all services covering the 7 steps of the Acuvate 7 steps standard Digital framework including the IOTech Edge Central Software (step 3 in below diagram).**

Acuvate's Standard Digital Framework

Acuvate's framework, to Modernize, Optimize and Transform businesses to Digital Decision Automation

| Manufacturing | Oil & Gas, Energy | CPG,Retail, Supply Chain | Government | Healthcare | BFSI |

APPLIES TO ANY INDUSTRY / GOV / ETC. BUSINESS

■ When needed, Acuvate Edge Platform can run and support our AI-Machine Learning, AI-Machine Vision & Gen-AI applications.

■ Acuvate will offer data exchange services between the Acuvate Enterprise Data Platform and the Acuvate Edge Platform. For ownership reasons, it is important that all data be stored in the Acuvate Enterprise Data Platform.

■ Customers have a choice of supporting edge hardware from Dell or HP.

■ To maximize performance NVIDIA GPU technology can be added when the Edge Platform is used for AI based applications.

■ The Edge Platform will offer broad support for many connectors and where needed new connectors can be easily added.

If you need more information about all Acuvate services then go as well to the Acuvate home site:

www.acuvate.com