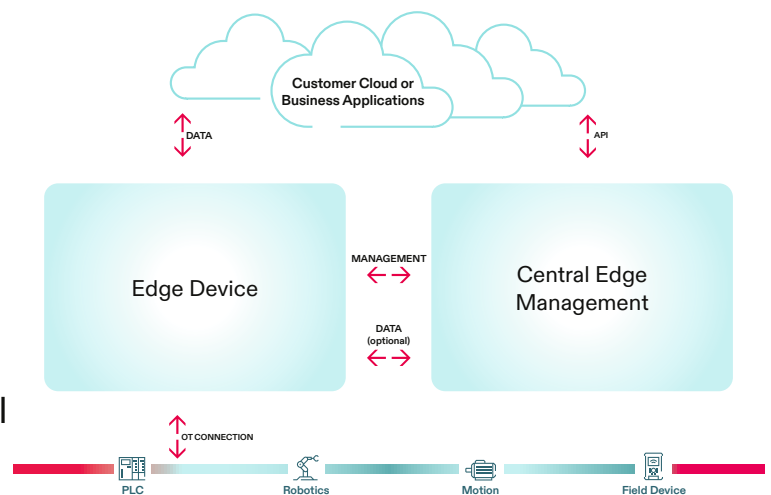# IIoT Edge Management

netFIELD Cloud

→ Efficient orchestration of distributed edge applications

→ Ready-to-use infrastructure enables immediate launch of digital business models

→ Centralized management of any edge device and entire device fleets

→ Scaled for businesses with hierarchical organization structures

Digital into the future

The netFIELD edge management platform is a reliable and scalable platform for implementing your own Industrial IoT solution at the IT-OT edge or a hybrid: from remote maintenance of machines and predictive maintenance to new data-driven service business models. netFIELD supports both IIoT retrofitting and completely redesigned solutions. When you rely on netFIELD, you're profiting from Hilscher's years of experience in industrial communication and automation solutions for the proven implementation of IT-OT convergence and Industry 4.0 solutions.

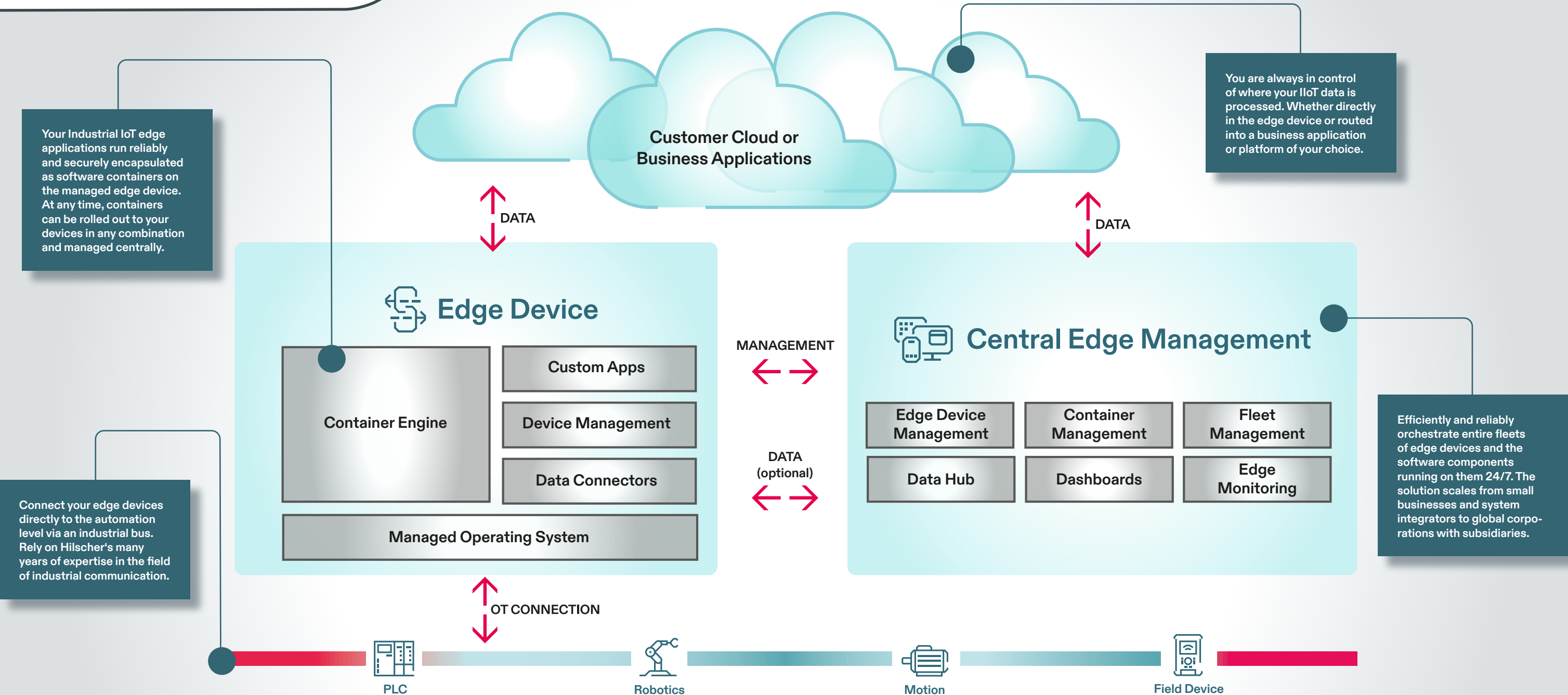Scaling Industrial IoT to larger numbers of machines, edge gateways, and edge software components is a challenge that is often underestimated. Operating edge gateways and the edge computing applications that run on them requires regular maintenance of the operating system, distributed software, IIoT data streams and integration with automation networks. netFIELD is our answer to these challenges.

empowering communication

IIoT Edge Management
netFIELD Cloud

Your Industrial IoT edge applications run reliably and securely encapsulated as software containers on the managed edge device. At any time, containers can be rolled out to your devices in any combination and managed centrally.

You are always in control of where your IIoT data is processed. Whether directly in the edge device or routed into a business application or platform of your choice.

Customer Cloud or Business Applications

DATA

DATA

Edge Device

MANAGEMENT

Central Edge Management

Container Engine

Custom Apps

Device Management

Data Connectors

Managed Operating System

DATA (optional)

Edge Device Management

Container Management

Fleet Management

Data Hub

Dashboards

Edge Monitoring

Connect your edge devices directly to the automation level via an industrial bus. Rely on Hilscher's many years of expertise in the field of industrial communication.

Efficiently and reliably orchestrate entire fleets of edge devices and the software components running on them 24/7. The solution scales from small businesses and system integrators to global corporations with subsidiaries.

OT CONNECTION

PLC

Robotics

Motion

Field Device

PROFINET · PROFIBUS · EtherCAT · DeviceNet · EtherNet/IP · OPC UA · MQTT · CANopen · sercos the automation bus · ETHERNET POWERLINK

IO-Link · CC-Link · CC-Link IE Field Basic · CC-Link IE Field · VARAN · Modbus · ASi · SmartWire-DT The easy way to connect · TSN Industrial Ethernet · SPE · INDUSTRIAL PARTNER NETWORK

Test now!
Try it out free of charge for 6 weeks:
https://netfield.io

→ QR Code Link: IIoT Edge Management | netFIELD Cloud
Service-Hotline: +49 (0) 6190 9907-90
www.hilscher.com

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Product Information

Technical Data

General

URL
https://netfield.io

Billing model
Monthly service fee for SaaS product

Integration and interfaces

Interfaces for cloud integration
All essential system functions can be used via REST APIs

Standardized data interface (Cloud & Edge)
MQTT Broker

Hardware requirements

Supported edge devices
Edge gateways or industrial PCs with netFIELD Client
(netFIELD OS or netFIELD extension for Linux)

Connectivity
The Edge device must be able to connect to the Internet

Software requirements

Web browser
A current web browser, e.g., Google Chrome, Microsoft Edge,
or Apple Safari, is required to operate netFIELD Cloud

Software containers
Software applications for distributing to edge
devices must be deployed as Docker containers

Comparison of product variants

netFIELD Cloud is offered as a Software-as-a-Service (SaaS) and hosted by Hilscher. You can choose between four variants:

	netFIELD Cloud Starter	netFIELD Cloud Essential	netFIELD Cloud Business	netFIELD Cloud Enterprise
Max. number of users	5	10	Unlimited	Unlimited
Maximum number of edge devices	20	150	Unlimited	Unlimited
Edge device management	✓	✓	✓	✓
Software container management	✓	✓	✓	✓
Fleet management functions	✗	✗	✓	✓
Hierarchical sub-organizations	✗	✗	✓	✓
Zero-Touch Onboarding Support	✗	✗	✗	✓
Dedicated server with own domain	✗	✗	✗	✓

Product overview

NFC-STA-SUB	1917.151	netFIELD Cloud Starter – Software-as-a-Service (SaaS)
NFC-ESS-SUB	1917.101	netFIELD Cloud Essential – Software-as-a-Service (SaaS)
NFC-BUS-SUB	1917.111	netFIELD Cloud Business – Software-as-a-Service (SaaS)
NFC-ENT-SUB	1917.121	netFIELD Cloud Enterprise – Software-as-a-Service (SaaS)

Related products

Product overview

NFA-PNT-OTP	1917.057	netFIELD App PROFINET Tap, floating license Includes all updates within 1 year of license activation
NFA-ECT-OTP	1917.058	netFIELD App EtherCAT Tap floating license Includes all updates within 1 year of license activation
NFX8M-D2-N32-010	1918.010	netFIELD Compact X8M - Edge Gateway with remote management option
NIOT-E-TIJCX-GB-RE/NFLD	1321.300/NFLD	IT/OT Edge device for data-intensive and complex IoT applications with demand on maximum performance, connectivity and memory size.

→ QR Code Link: IIoT Edge Management | netFIELD Cloud
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