Cluster of IoT Accelerators

Expedite IIoT adoption

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The need for solution

Embracing Industry 4.0 initiatives has become inevitable for every industrial enterprise today. Connected enterprises are using technology as an enabler to achieve productivity improvement, ensure cost competitiveness, enhance business resilience, create new and smarter products and services, reduce operational costs, and sustain business growth.

Industrial Internet of Things (IIoT) plays a pivotal role in a digital ecosystem where data can be shared and analysed across the enterprise. It enables deeper collaboration between people, processes, and machines that can help enterprises optimize processes and identify improvement areas.

Expedite your IIoT journey

Nagarro can help enterprises embark on their IIoT journey using solution approaches like:

(1) Creating a fully customized IIoT solution

(3) Leveraging an Industrial IoT platform

(2) Using cloud-based IoT services

(4) Accelerator-based IIoT implementation

Our suite of IIoT accelerators is called the 'Cluster of IoT Accelerators' (C-IoTA). It empowers enterprises to expedite IIoT implementation by leveraging a configurable solution customized to the business requirements.

Key design features

Flexible configuration

Device independent

Security compliant

Cloud agnostic

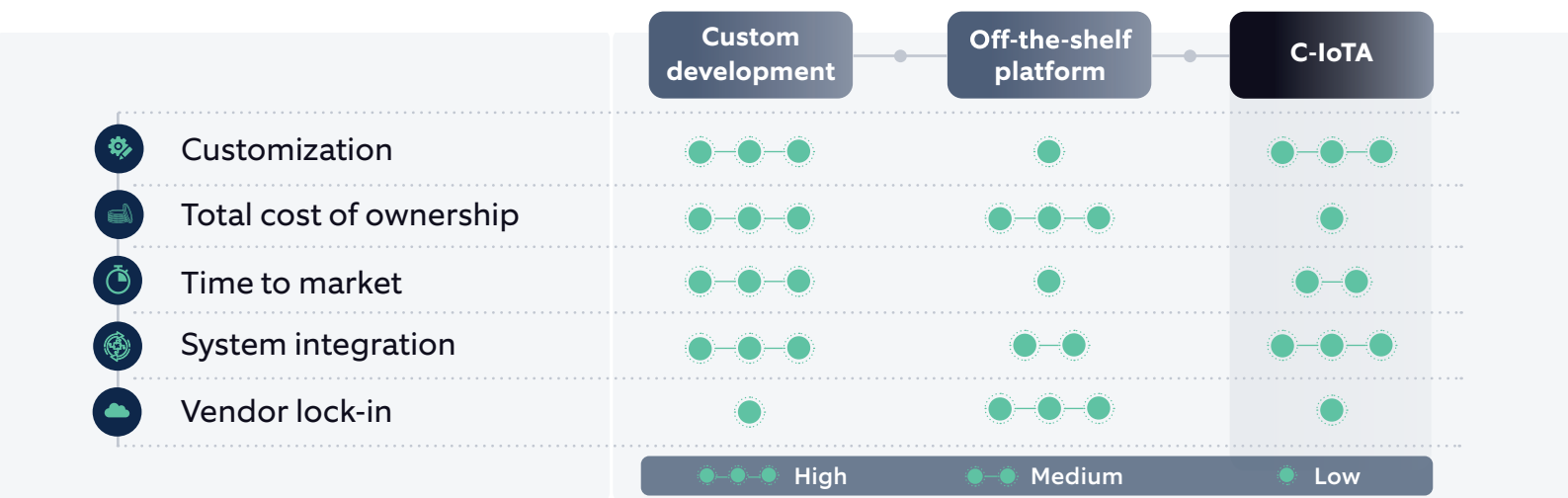Intuitive UI/UX

Customer-centric branding

Cluster of IoT Accelerators
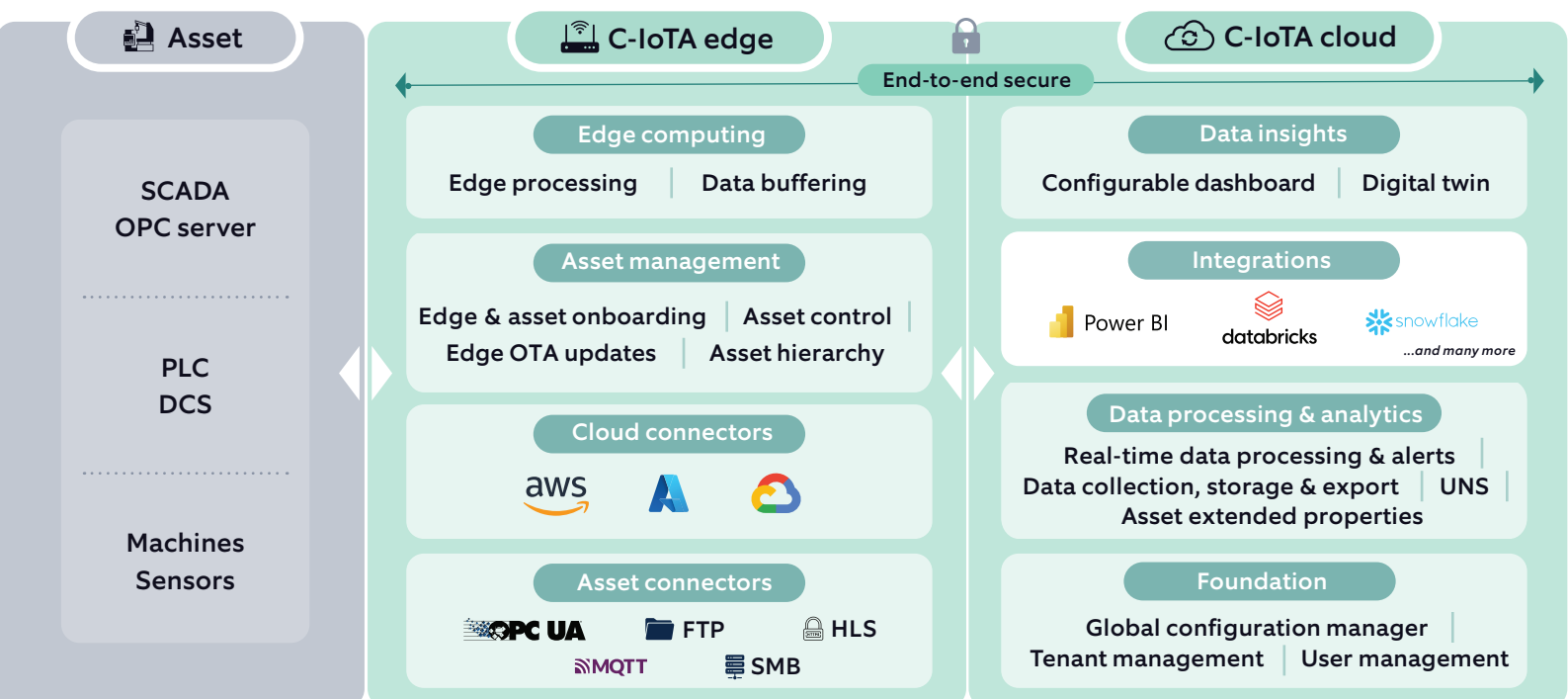
About the C-IoTA

Cluster of IoT Accelerators can expedite your IIoT initiatives by harnessing a range of capabilities, such as asset provisioning, multi-protocol support, edge computing, secure communication and storage, and automated hyperscaler cloud deployment. Aligned with the Unified Namespace (UNS) concept, C-IoTA helps standardize, contextualize, and normalize data, enabling faster and scalable implementation of AI/ML use cases.

Distinguished by their human-centric and responsive design, our accelerators can be fine-tuned for specific use cases. This enhances efficiency, leading to faster and more cost-effective solution delivery.
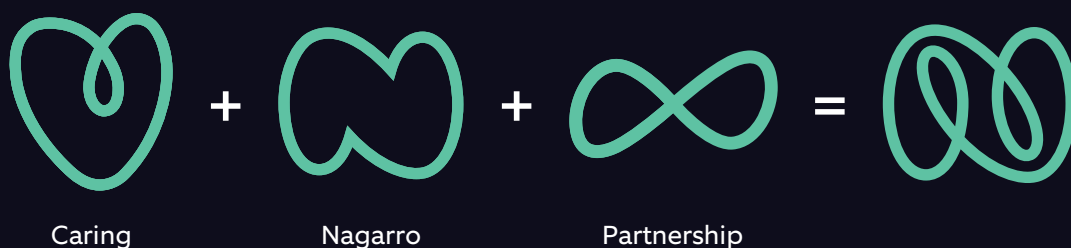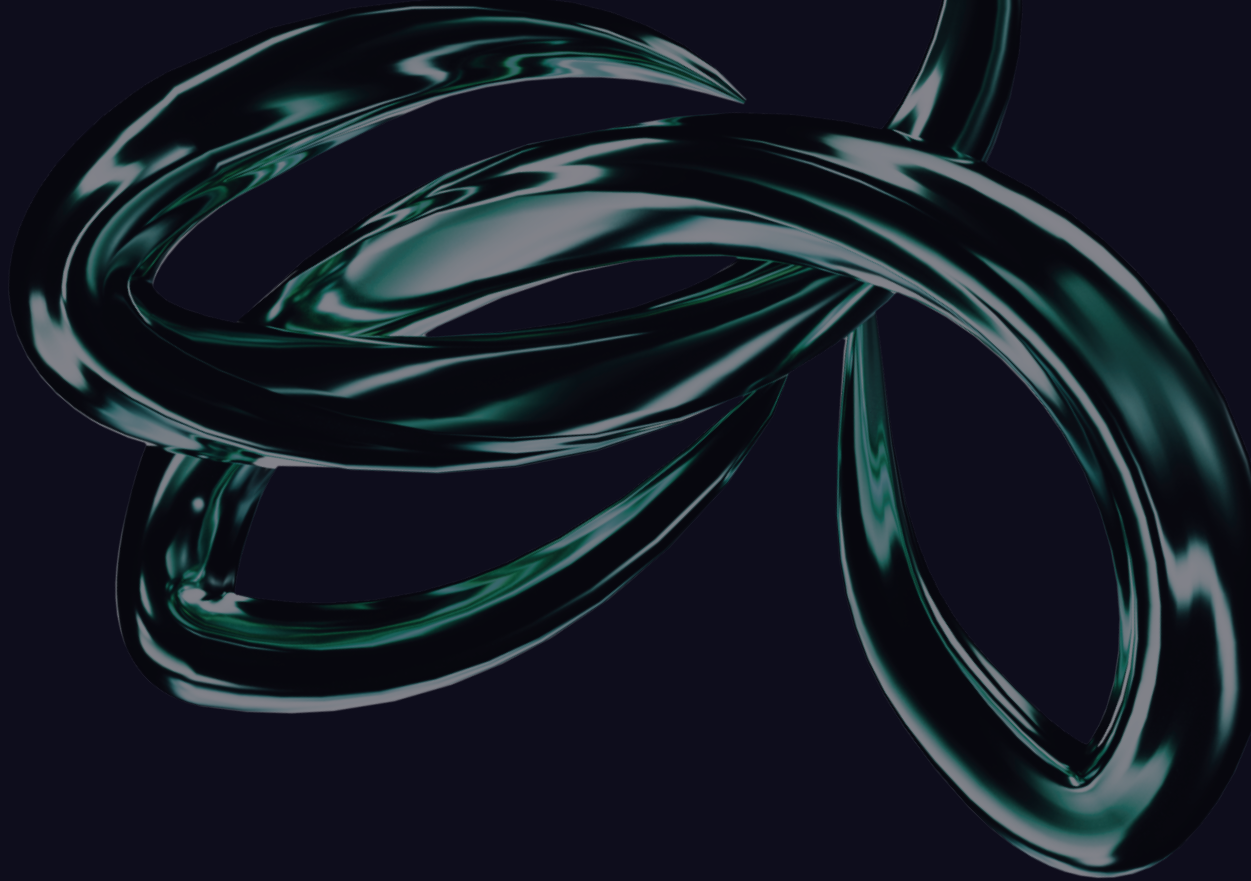
Advantages of using C-IoTA

	Custom development	Off-the-shelf platform	C-IoTA
Customization	High	Low	High
Total cost of ownership	High	High	Low
Time to market	High	Low	Medium
System integration	High	Medium	High
Vendor lock-in	Low	High	Low

Legend: ●—●—● High ●—● Medium ● Low

Suite of accelerators

Asset

C-IoTA edge 🔒 **C-IoTA cloud**

End-to-end secure

Asset
- SCADA OPC server
- PLC DCS
- Machines Sensors

C-IoTA edge

Edge computing
Edge processing | Data buffering

Asset management
Edge & asset onboarding | Asset control
Edge OTA updates | Asset hierarchy

Cloud connectors
aws | Azure | Google Cloud

Asset connectors
OPC UA | FTP | HLS
MQTT | SMB

C-IoTA cloud

Data insights
Configurable dashboard | Digital twin

Integrations
Power BI | databricks | snowflake
...and many more

Data processing & analytics
Real-time data processing & alerts
Data collection, storage & export | UNS
Asset extended properties

Foundation
Global configuration manager
Tenant management | User management

C-IoTA accelerators created by Nagarro

nagarro

Caring + Nagarro + Partnership =

About Nagarro

Nagarro helps future-proof your business through a forward-thinking, fluidic, and CARING mindset. We excel at digital engineering and help our clients become human-centric, digital-first organizations, augmenting their ability to be responsive, efficient, intimate, creative, and sustainable.

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