



Leveraging edge computing for agility and sustainability

EcoStruxure™ Edge Apps

Companies are facing a significant volume of data from their connected devices machines, lines, and plants, and it has become essential for industrial businesses to translate this data into actionable insights. Data serve as the key to improving productivity, efficiency, and resource utilization to improve business sustainability.

EcoStruxure™ Edge Apps leverage edge computing to create a seamless ecosystem that empowers industrial applications with real-time data processing and performance optimization. Edge technology is a component of distributed computing topology, where information processing occurs closer to the data source.

EcoStruxure™ Edge Apps ecosystem uniquely enables successful digital business transformation by converting data into actionable insights close to the user.

EcoStruxure™ Edge Apps provide new levels of productivity to optimize plant, process, or machinery effectiveness by reducing latency and enhancing real-time decision making.

"In our digital age, data is being generated at an astonishing pace. But it is within the realm of industry that the real data explosion has taken place. Advanced technologies, interconnected systems, and the rise of the Internet of Things (IoT) have created an environment where data production has reached unprecedented levels."

They bring the best of digital transformation expertise and unique benefits.



Openness: vendor-agnostic interoperability for edge devices and applications from Schneider Electric and third-party providers



Scalability: seamless scaling of edge infrastructure to align with the organization's growth needs



Simplicity: management of all applications and fleet in a centralized and user-friendly manner



Native cyber-security: zero-touch secure onboarding of edge devices, ensuring full data and application integrity and confidentiality

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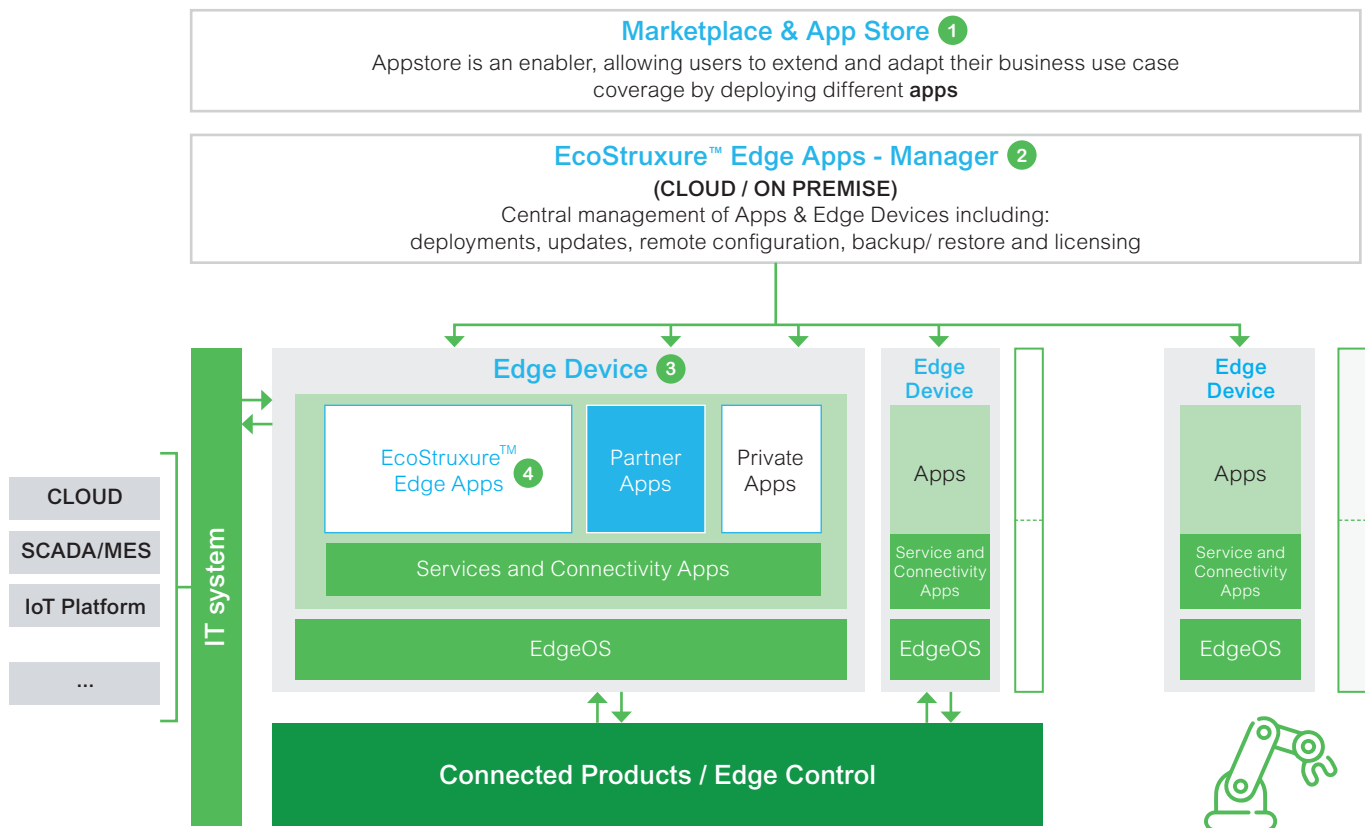
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EcoStruxure™ Edge Apps is a seamless app ecosystem.

EcoStruxure™ Edge Apps open ecosystem empowers users to expand their business coverage seamlessly, simply, and in a user-friendly way. It consists in several elements:

- **Marketplace and App Store** ①
- **EcoStruxure™ Edge Apps – Manager** ②
- **Edge Devices of machines, lines, and plants** ③
- **Individual EcoStruxure™ Edge Apps or Partners and Private Apps** ④



The key features of compute edge solutions

EcoStruxure Edge Apps bring multiple unique features to the users based on technological breakthroughs:

- **Low latency enabling real-time decision-making** especially for time-critical operations
- **Optimized bandwidth** with bandwidth-intensive content closer to users or data sources
- **Enhanced data security and reduced reliance on third-party servers** with sensitive data closer to its source
- **Reliance and reduced dependency on consistent internet connectivity**, allowing applications to function in limited or intermittent network access environments
- **Data sovereignty** with full control over data

Marketplace and App Store: 1

It enables users to extend and adapt their business use cases with different apps which can best suit their needs

Marketplace focuses on promoting business value including:

- Partner network area
- Peer support network for collaboration
- Customer guidance on the purchase journey

App Store includes the Marketplace features extended to:

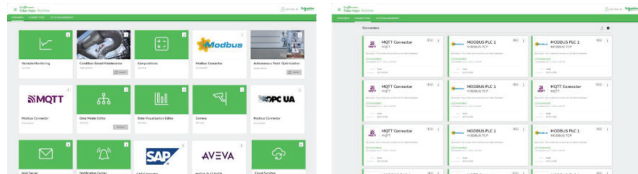
- Ability to purchase directly on the platform
- Lifecycle management of the Apps

EcoStruxure™ Edge Apps – Manager: 2

The heart of the ecosystem provides the capacity to control and deploy edge apps. It enables centralized management of edge apps and edge devices of machines, lines, and plants. It is available in two versions, cloud or on-premise, depending on the use case and needs.

The main benefits of EcoStruxure™ Edge Apps – Manager are:

- Easy apps updates
- Remote configuration
- Backup and restore
- Licensing management



Edge Devices of machines, lines, and plants 3

Computation takes place in the edge devices, close to data generation, reducing latency and enhancing real-time decision-making.

The hardware on which the apps run offers a scalable range of edge hardware based on specific needs. It allows seamless and simple addition of devices from different providers.

Users can choose the most appropriate device, including:

- Schneider Electric IPCs (Harmony P6)
- Next generation of Schneider Electric Edge PLC's.

Individual EcoStruxure™ Edge Apps or Partner and Private Apps 4

Apps from Schneider Electric, partners and private providers are available for various domains and multiple use cases:

- **Asset performance** to leverage maintenance efficiency of physical assets, with a focus on an innovative solution for condition-based maintenance to increase asset reliability
- **Quality analytics** to maximize for example the output and yield of a process or a system fully autonomously thanks to AI-based and live data analysis
- **Cybersecurity** to protect industrial systems, devices, and data from cyber threats and ensure the integrity and confidentiality of the industrial infrastructure
- **Resources control and energy optimization** to manage the allocation and utilization of resources, including energy, within industrial processes, to improve sustainability and cost-effectiveness

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