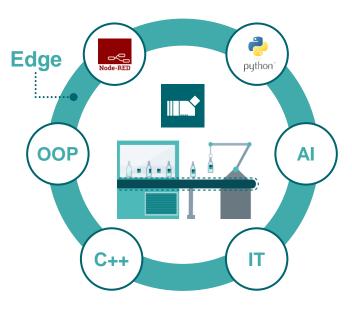


Industrial Edge FIIF 29.4.2021

Typical application scenarios for Edge Computing

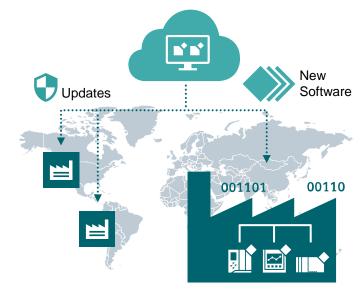


Extend machines with new, advanced functionality for data processing



Integration of new technology into automation e.g. Al for data analytics near to the machine to e.g. predict next maintenance.

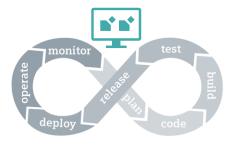
Increase operations
efficiency with a global device,
software & security management



More efficient software and version management as foundation for new business models for OEMs e.g. SaaS.

Increase software innovation cycles for machines with continuous updates for Edge devices

Edge Management

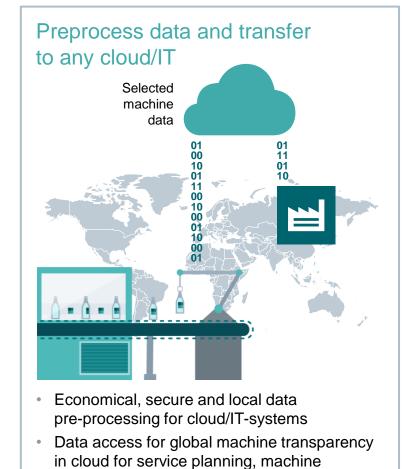


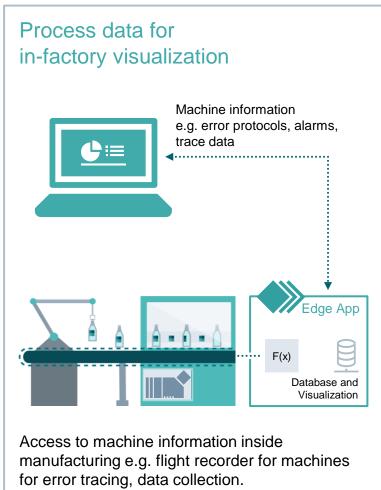


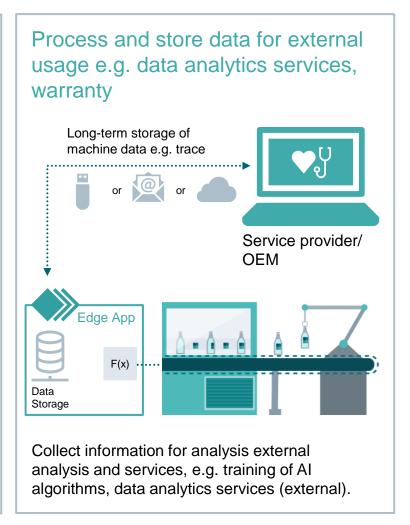
Separation of automation and Edge ensures high machine availability and on top fast innovation cycles with continuous updateability

Typical application scenarios for Edge Computing









benchmarking

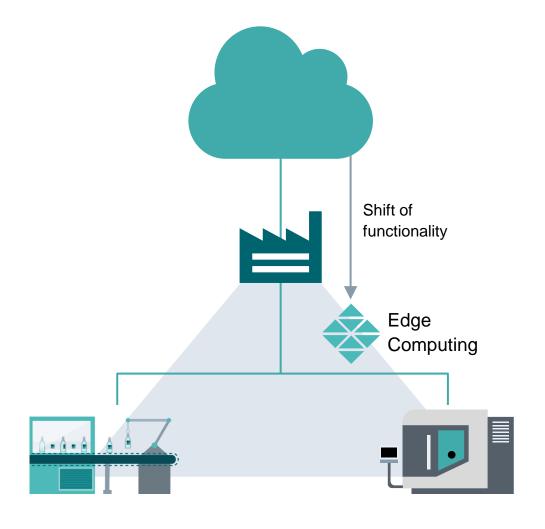
Edge Computing – Closing the gap between automation and Cloud

Limitations of pure cloud technology ...

- Physical
- Legal
- Economic

... leads to additional functional enhancements of shop floor devices with new functionality e. g. analytics, preprocessing and decentral intelligence

... and enables **short innovation cycles of IT** in automation

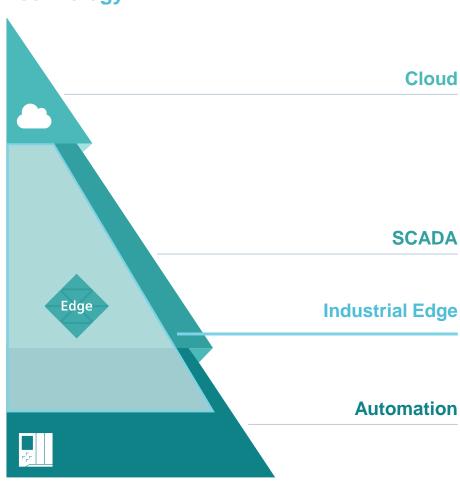




Positioning



Technology



Characteristics

Cloud

- Platform (as a Service) for global visualization and processing of data on a high-level language basis
- Integration of IT functionalities such as long-term data archiving, scalable computing power and software deployment

SCADA – Informational and mission critical operations

- HMI Software for controlling and monitoring of processes
- Basic analysis options e.g. KPIs and IT integration

Industrial Edge

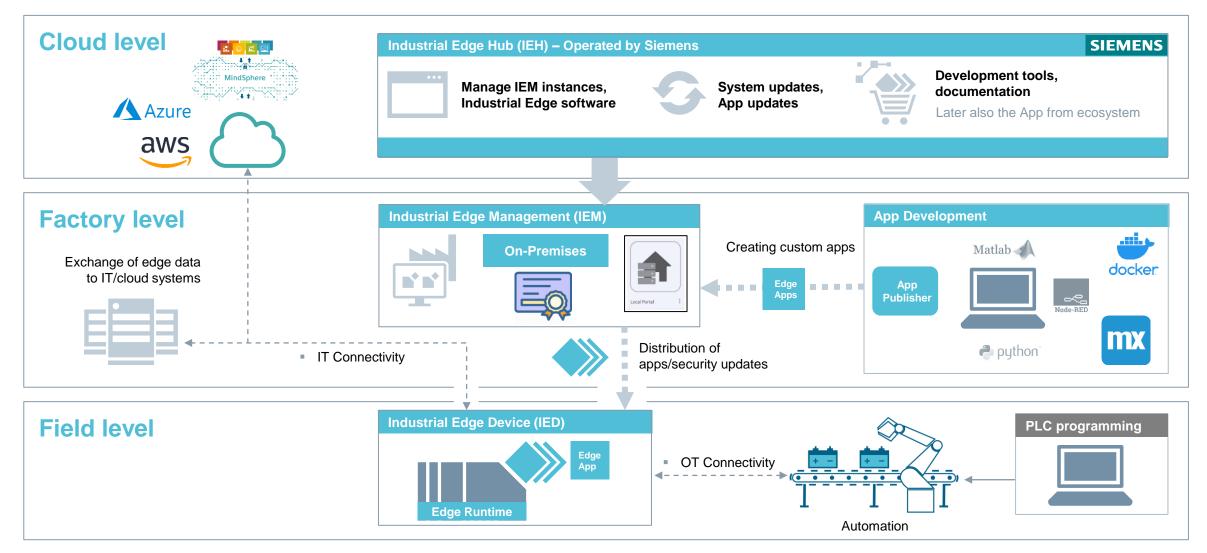
- Open software platform to execute software in a very efficient way with a central manageability and versioning
- Native integration of IT functionalities into automation
- Software with support for data collection, processing & exchange

Automation – Mission critical

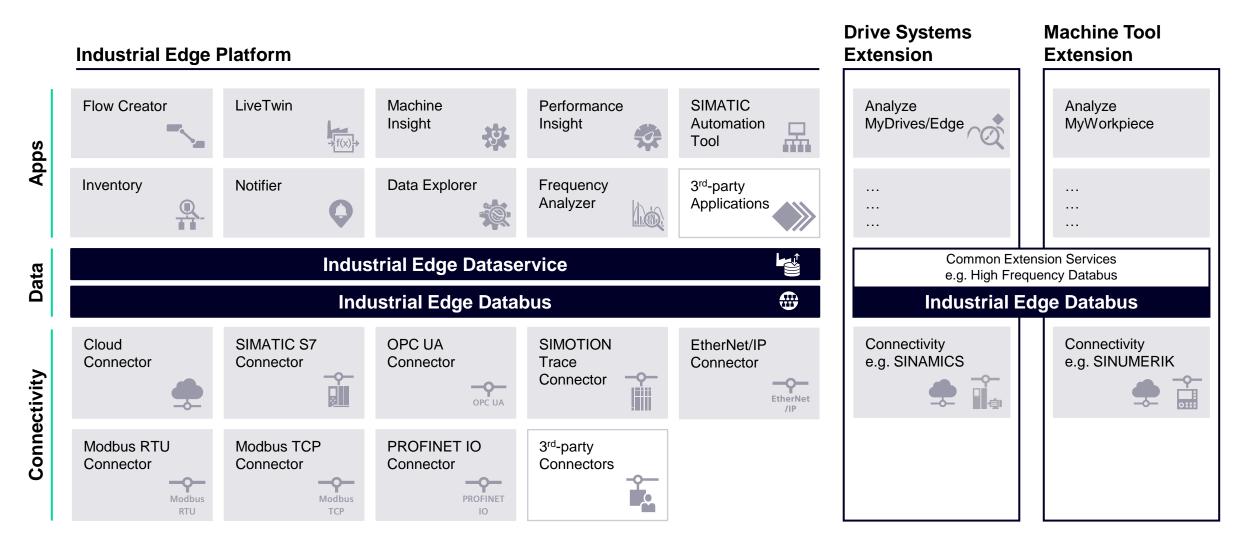
Production/process control

Industrial Edge – System Overview



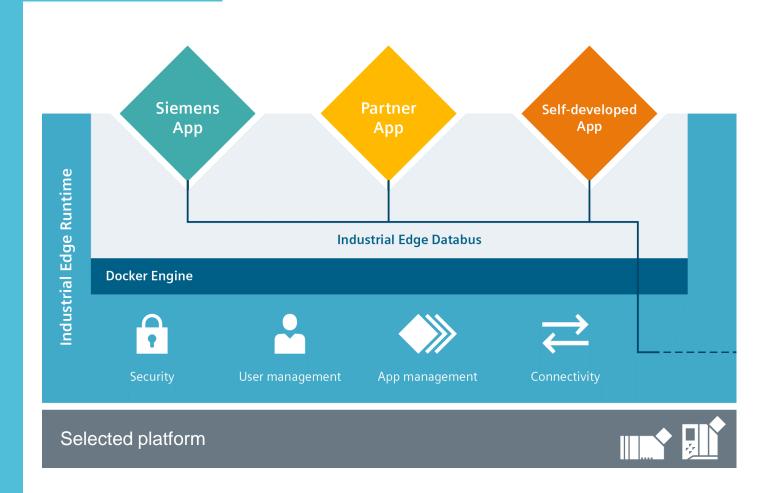


Engineering efforts for software can be reduced by relying on existing connectivity and apps



Technology & Portfolio Industrial Edge Runtime





Benefits

- Integrate software easily on various hardware
- Security included by default by Siemens
- Docker container format enables hardware independence & scalability
- Choose any programming language available in a Docker container

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