integrate_it

AN MHP PRODUCT.

Leverage the Potential of Your Machine Data

With integrate_it, you can digitalize your production process from start to finish. As middleware, the solution connects the machines and systems on the shop floor with each other and with the downstream systems. This will finally make it possible to freely exchange data.

Heterogeneous machine landscapes complicate machine data integration

Once a production process has been fully digitalized, its asset and process data is available almost in real time and everywhere you need it. This results in an ultra-high level of transparency, leading not only to higher overall plant efficiency, more efficient production processes and better product quality, but also to more sustainable use of resources. Unhindered data exchange on the shop floor is also the basis for numerous innovative use cases – these include condition monitoring and predictive maintenance, energy monitoring and traceability, digital twin, and industrial metaverse. However, end-to-end communication has usually been impossible historically due to the heterogeneity of the asset landscape. The machines and systems are of different ages and therefore feature different equipment. In addition, they typically come from different manufacturers who almost invariably use proprietary protocols. A true standard for data exchange has not yet been established, despite initiatives such as OPC Unified Architecture.

Overcome heterogeneity on the shop floor

As middleware, **integrate_it** closes this gap and connects all machines and systems to each other, as well as to downstream systems. The solution captures machine data, transforms it, and routes it to the correct protocol. This is possible because **integrate_it** supports many common machine and IT protocol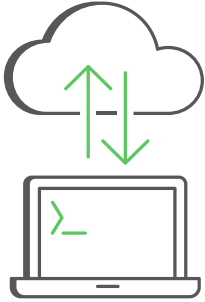s, both open and proprietary. The solution also converts the collected data into JSON (JavaScript Object Notation) format so that it can be read by humans. What is more, **integrate_it** enriches the data from the shop floor and maps it to freely configurable data models. Thanks to a rule engine, initial rule-based manipulations can also be run on the data to gain immediate insights for latency-critical decision making.

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Benefits at a glance | ## Overview of functions
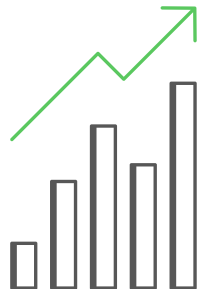
End-to-end data exchange

With **integrate_it** you ensure continuous data exchange throughout the entire production process – from the top floor to the shop floor. This builds the foundation for increased transparency, efficiency, and effectiveness, for greater sustainability and for innovative use cases.

Optimal support for employees

With **integrate_it**, you provide optimum support to employees both on the shop floor and on the top floor. Users gain convenient access to machine data, which they can easily transfer and enrich into company-owned data models using the low-code method. A graphical interface also makes it simple to configure business logic.

High scalability

With **integrate_it**, you can ensure you're always up to date with what is happening on the shop floor. This is because the container-based architecture of the SaaS solution means that it can be easily scaled horizontally as the number of connected assets increases.

CAPTURE, TRANSFORMATION AND DISTRIBUTION

integrate_it supports common machine protocols such as Modbus (TCP/RTU), OPC UA, and RFC 1006 as well as common IT protocols such as Apache Kafka, MQTT, and REST.

MAPPING AND ENRICHMENT OF DATA

integrate_it converts the recorded machine data into JSON (JavaScript Object Notation) format so that it can be read by humans, enriches it with contextual information, and maps it to freely configurable data models.

RULE ENGINE

integrate_it features a rule engine that allows you to run an initial rule-based manipulation of the captured data. This gives you immediate insights for latency-critical decisions.

INTEGRATE_IT CENTRAL

integrate_it also facilitates device management with **integrate_it** Central, which enables software instances to be managed centrally using on-premises hardware as well as in the cloud.

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