

## Snaption Sagl

Snaption is a start-up based in Lugano (CH) specialising in the digital transformation of industrial operations and machines. Through seamless and quick integration of advanced IIoT solutions, Snaption enhances the efficiency and productivity of manufacturing processes and machines.

## The DigiFactor Platform

DigiFactor empowers manufacturers and machine builders by digitising machines, providing **real-time monitoring**, and **enabling data-driven decision-making**.

DigiFactor has ready-made **modules that can be configured** to meet each client's specific needs. The **platform's inherent extensibility** facilitates its ability to scale in tandem with the growth of the client's operations, offering a robust solution that evolves according to **customer specifications** and **needs**.



Data collection, management and storage directly from industrial machines adopting most used industrial protocols (e.g., OPC-UA, S7).



Data collection, management and storage from dedicated user-friendly interfaces for operators.



Data visualisation through customisable dashboards, panels and control charts.



KPIs calculation and estimation using data from the field (e.g., Overall Equipment Effectiveness (OEE)).



Data analysis and processing pipelines for insights generation (e.g., anomaly detection, predictive maintenance).

The screenshot displays the DigiFactor platform interface. At the top, there's a navigation bar with 'DF' and 'Devices'. Below it is a table with columns: Protocol, Name, Supplier, Function, Sync. Period, Deployment status, and Status. The table contains four rows of data. Below the table, there's a large blue banner with the text 'DigiFactor digitalises your machines in a Snap'. At the bottom, there's a footer with copyright information and links for About, Privacy Policy, Licensing, and Contact.

Protocol	Name	Supplier	Function	Sync. Period	Deployment status	Status
S7	Injection molding			30	IN PROGRESS	OFFLINE
OPCUA	Load cell	Gimondi SA	Force measurement	30	IN PROGRESS	OFFLINE
OPCUA	CNC machine			30	DEPLOYED	ONLINE
OPCUA	Box Conveyor			30	DEPLOYED	ONLINE

**DigiFactor digitalises your machines in a Snap**

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## Data collection, management and storage directly from industrial machines

Effective data collection, management, and storage directly from industrial machines are crucial for optimising operations. DigiFactor offers a practical solution to digitalise industrial machinery with the following features:

- Customizable variable selection with adjustment of measurement units.
- Subscription-based data acquisition with optional fixed frequency sub-sampling.
- Data bundling to minimise network requests, with customisable intervals.
- Local data storage for up to 10 million points during connectivity outages, with automatic synchronisation when online.
- Secure connections and encrypted data transmission ensure robust protection.
- Remote configuration uploads to industrial devices, facilitating seamless updates and modifications.
- Full compatibility with OPC-UA and non-OPC-UA protocols, including Siemens S7, MQTT, and Euromap 63, with the ability to add more protocols upon request.

## Data collection, management and storage from dedicated user-friendly interfaces for operators

Notifications and labelling are essential for enhancing field data. DigiFactor enables the integration of graphical user interfaces designed for easy and structured information collection.

- Visualisation on tablets and mobile phones.
- Customised GUI integration based on specific needs.
- Real-time data updates and synchronisation.
- User-friendly design for efficient data entry and management.

## Monitoring with Custom Dashboards and Panels

Customizable dashboards are essential for tailoring industrial operations to specific needs.

- Users can create unlimited dashboards and panels, tailoring them to specific industrial operational needs.
- Customization includes layout, size, and arrangement of panels within each dashboard.
- Dashboards can be customised to display data over user-defined periods, such as daily, weekly, monthly, or other specific durations.
- Users can explore various visualisation options, including line charts, scatter diagrams, gauges, pie charts, histograms, and textual sequences.
- Multiple data sources can be combined into a single panel.
- Users can aggregate data using statistical operations such as mean, median, standard deviation, and range over time intervals.

## Creation and Calculation of Process KPIs

DigiFactor enables the direct creation and real-time monitoring of Key Performance Indicators (KPIs) such as productivity, Overall Equipment Effectiveness (OEE), and more.

- It automatically identifies periods of productive activity versus inactivity, essential for precise OEE calculation.
- Users can customise the operating hours for each device, accommodating systems that operate across multiple shifts or have variable operational schedules.
- Users can add, classify, and schedule events to refine OEE calculations through the DigiFactor Notification System, a simplified interface accessible directly on the production floor near the machines.
- Other KPIs can be calculated and integrated in the system, including productivity and many others.

## Data Analysis Pipeline

Snaption offers a tailored data analysis pipeline that encompasses data collection, storage, pre-analysis, comprehensive analysis, and effective communication tailored to specific customer needs. This structured approach ensures that every piece of data collected is meticulously processed to generate actionable insights, thereby driving significant business value. Through DigiFactor, this data becomes a powerful tool in optimizing manufacturing efficiency and forecasting future trends.

