

Decisyon Smart Gateway

The Gateway's Function in a Digital Factory

Going from the concept to a full digital replica of a factory is a fairly straightforward process if you have the right tools and all the automation capabilities fully integrated in one place. An essential component of this digitalization process is an IoT Gateway that collects all streaming sensor data and creates a corresponding digital twin. This digital twin will be typically used by the software application, ultimately providing actionable insight and actions that reduce the production line downtime, improve overall factory safety, productivity and efficiency, and prevent potential problems before they happen.

Decisyon's Smart Gateway (DSG) collects streaming data from all sensors, devices and machines, stores and orchestrates it in a data lake, then creates a digital twin at the edge, cloud or on-premise where Decisyon applications, such as MES, seamlessly ingest this data to process, analyze, visualize, recommend and execute an appropriate action.

KEY CAPABILITIES

- Connects all machines, devices, and sensors
- Collects and orchestrates all streaming data from sensors and systems in real time
- Brings that data to your choice of edge, cloud or on-premise
- Filters large volumes of data, applying some rules and selectively taking action, if needed
- Creates & monitors a digital twin that simulates the real factory environment

Decisyon Smart Gateway, together with Decisyon Digital Factory, delivers a complete end-to-end solution for your manufacturing enterprise. The Digital Twin, made possible by DSG, is key to gaining competitive advantage and generating better business results.

Better Intelligence and Better Outcomes via the Digital Twin

By creating a digital twin, DSG empowers manufacturers to simulate the real factory environment, where operators and managers can visualize and monitor their factory operation holistically, plan the details, prevent problems, close the data to action loop and optimize systems. The Decisyon-generated digital twin also adapts to new ways of working, obtains real-time updates, applies MES and/or other solutions as needed, and delivers the most complex jobs effectively and efficiently.

The net effect of DSG is an on-demand digital version of your operation, providing your enterprise with a comprehensive view of the floor operation, capable of monitoring, diagnostics, reducing downtime and increasing profit margin.



Heavy Industry Use Case at a Glance

A major manufacturer of mechanical components for dozens of different industrial sectors wanted more flexibility and efficiency in implementing the change-over activities in each phase of production. They also wanted to configure their machines, each with different characteristics and digital readiness, from a remote and mobile application "control variant change" interface developed by Decisyon in order to fully automate the variants' resetting.

Decisyon's team collaborated with the customer's line managers to implement machines' connectivity and data ingestion. Using Decisyon's App Composer™ and Smart Gateway, the customer's new "Change-Over" application delivered an end-to-end IIoT solution from the initial

implementation: it readily collects the data, configures the change-over requirements from a mobile device and then proceeds to change the status of every machine in the line, without human intervention.

The first MVP was created in less than 8 weeks, and delivered the following benefits from the first day of operation: negligible human intervention, less risk of human error, higher accuracy in planning follow-up, and higher process stability and monitoring.

[Speak with an IIoT expert to set up Decisyon's products in your factory](#)

Decisyon Digital Factory

Decisyon's Digital Factory software solution suite is designed so businesses - particularly manufacturers - can achieve a complete end-to-end digital transformation of their enterprise. DDF connects all the moving parts of an enterprise, gathers real time data, analyzes it, and provides a holistic view of the operations through a digital twin. DDF provides real-time insights across the operational footprint, and enables better decisions and a more efficient intelligent digital enterprise resulting in a dramatically better bottom line. It supports continuous improvement throughout manufacturing operations by identifying where to optimize performance and improve production. It improves the speed at which operators and managers can identify and resolve issues promptly on the shop floor. It also helps to strengthen production, operational, inventory and supply chain communications.

IMPLEMENTED USE CASES

- Pharma
- Food and Beverage
- Consumer Goods
- Packaging
- Automotive
- Bottling

As a cloud-based software solution, Decisyon Digital Factory goes to work immediately: you can apply it to your factory's current workflow, or easily adapt it to your company's specific production needs.

Business Impacts

Customers implementing Decisyon Digital Factory have achieved the following benefits:

UP TO

10%

Increase in productivity of the production lines

UP TO

25%

Reduction of activities for Shift Handovers

UP TO

10%

Reduction of delays in Maintenance Intervention

UP TO

25%

Reduction of activities to collect data for Process Excellence meetings

UP TO

100%

Full digitalization of the process to define and manage actions on data collected

About Decisyon

Decisyon is a SaaS company focused on accelerating the digital transformation of businesses in the global manufacturing sector. Decisyon develops innovative software solutions to accommodate the speed of technological change in the industrial marketplace, including a visual LCNC platform for business users to quickly build and modify applications and fast-forward speed-to-outcome. Today, tens of thousands of users in industrial conglomerates rely on Decisyon's production-tested technologies to connect all of a factory's moving parts, gathering and analyzing sensor and business data, gaining a holistic view of the factory through creation of a digital twin, obtaining real-time insights, and predicting and prescribing actions to prevent down time, resulting in smarter decisions and a more efficient and intelligent digital enterprise. Decisyon has strong partnerships with tech mega vendors in the Industrial IoT space such as Microsoft, Schneider Electric, GE, SAS, and AWS. The company's vertical solutions are delivering outstanding results across the globe in a diversity of manufacturing environments including CPG, Pharma, Industrial, Aviation, Electronics and Renewables.

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