

SAP BTP Solution: Intelligent Manufacturing Line

Manufacturing that thinks for itself

Function: Supply Chain | Process: Make to Order | Industry: Products Resources, CMT

Application Overview

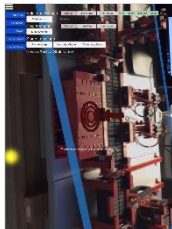
Imagine true digital manufacturing that is centered around the customer with end-to-end automation, live production metrics, and analytics on capacity, preventive maintenance, product defects, and more.

Accenture's Intelligent Manufacturing application enables a company's customers to personalize their product and follow the entire process through a shopping cart interface. This tool also allows a company to enable real-time, end-to-end discrete manufacturing.

With the Intelligent Manufacturing Line application, sales orders are immediately received in SAP S/4HANA that trigger production orders and start up Internet of Things (IoT)-enabled production lines that connect intelligent devices, people, and processes through a company's Manufacturing Execution System.

Solution

The application uses the Industrial Internet of Things, SAP BTP, and SAP's Manufacturing Integration and Intelligence (MII) solution to plan in real time, execute manufacturing, monitor the production line, do preventive maintenance, and track the order status all along the production cycle.



Business Value

- Provides a customer-centric approach with less human intervention.
- Improved asset availability and life cycle, less MRO spend and lower maintenance costs, and inventory cost savings.
- Field technicians connected with experts through digital distribution solution reducing unproductive time, increased efficiency of service and reduced rework.
- Real-time monitoring of machines on the shop floor with in-depth, live production line visibility using digital manufacturing tools and predefined KPIs.
- Eliminates the need for on-premise servers by integrating with ERP and MES systems in the cloud.

Features

- S/4HANA production order creation integrated to the actual production line via IoT.
- Real-time production line monitoring with the ability to track shop floor machines and tools utilization against predefined KPIs.
- Order Monitoring Dashboard linked to SAP MII.
- Predictive maintenance enabled by artificial intelligence.
- Data feeds to connected workers.

Technologies in Use

- SAP Cloud Platform
- SAP BTP IoT Services
- SAP MES/SAP MII
- SAP Predictive Analytics



Artificial Intelligence



Internet of Things



Predictive Analytics



SAP Cloud Platform

[Click here](#) to watch the video.