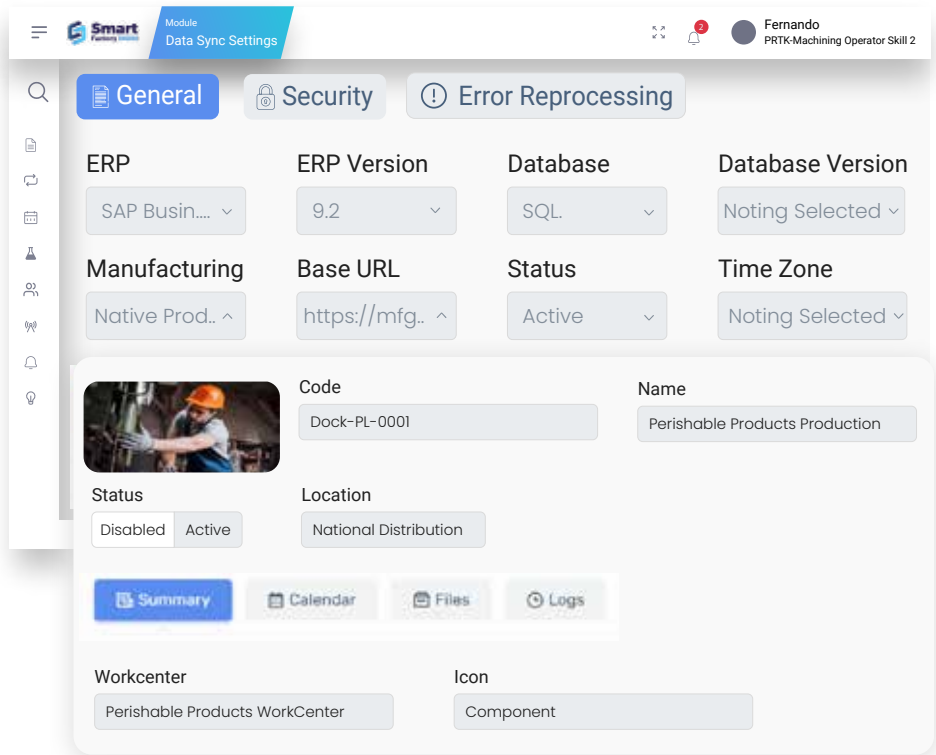
Smart Factory MOM

IIoT Module

Connect Machines. Capture Data. Enable Real-Time Manufacturing Intelligence.



Overview

The IIoT module of Smart Factory MOM enables manufacturers to connect machines, devices, and shop floor systems to capture real-time production data seamlessly.

IIoT acts as the digital backbone of smart manufacturing by transforming machine-level signals into meaningful insights, enabling better visibility, faster decision-making, and improved operational efficiency.

Key Challenges in Shop Floor Connectivity

Modern manufacturers often struggle with:

- Disconnected machines and legacy systems
- Lack of real-time visibility into shop floor operations
- Difficulty in standardizing data across multiple equipment types
- Manual data collection leading to inaccuracies
- Data silos across machines, lines, and plants
- Delayed insights impacting production decisions

Smart Factory MOM IIoT Software

Smart Factory MOM IIoT solution provides a scalable and secure connectivity framework that enables manufacturers to:

- Connect machines, PLCs, and devices across the shop floor
- Collect real-time production and machine data automatically
- Standardize and centralize data from multiple sources
- Enable real-time monitoring and analytics
- Build a strong foundation for digital transformation and Industry 4.0 initiatives

Key Features

1. Machine Connectivity

Connect a wide range of machines, PLCs, and industrial equipment, including legacy systems, to enable seamless data flow across the shop floor.

2. Real-Time Data Acquisition

Capture live production data directly from machines, ensuring accurate and up-to-date information for monitoring and analysis.

3. Protocol Integration

Support multiple industrial communication protocols to ensure compatibility with diverse equipment and systems.

4. Edge Device Integration

Leverage edge devices to collect, preprocess, and transmit data efficiently, reducing latency and ensuring reliable connectivity.

5. Data Standardization & Centralization

Normalize data from different machines and formats into a unified structure, enabling consistent reporting and analysis.

6. Scalable Architecture

Easily scale connectivity from a single machine to multiple plants without compromising performance or reliability.

7. Secure Data Transmission

Ensure safe and encrypted data transfer across devices and systems, maintaining data integrity and security.

8. Real-Time Monitoring Enablement

Provide a strong data foundation for dashboards, analytics, and other MOM modules like OEE, Scheduling, and MES.

Key Benefits

1. Improved Shop Floor Visibility

Gain real-time visibility into machine performance and production activities across the plant.

2. Accurate and Reliable Data

Eliminate manual data entry errors with automated data capture from machines.

3. Faster Decision-Making

Access real-time insights to respond quickly to production issues and optimize operations.

4. Enhanced Operational Efficiency

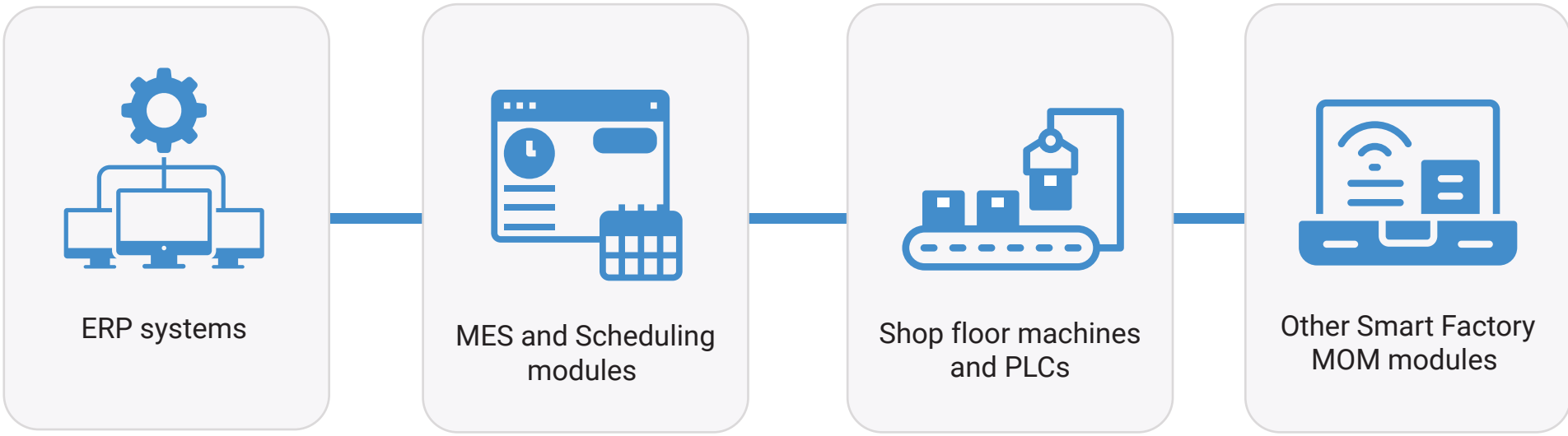
Streamline processes by connecting systems and eliminating data silos.

5. Foundation for Smart Manufacturing

Enable advanced capabilities like OEE monitoring, predictive analytics, and intelligent scheduling.

Seamless Integration

The IIoT module integrates effortlessly with the following to ensure end-to-end data flow from machine-level signals to enterprise-level systems:



Build a Connected Smart Factory

Get real-time data, break down silos, and speed up your Industry 4.0 journey with Smart Factory MOM IoT capabilities.

Request a Demo

