



Revamp Industry Operations with Celebal Technologies' IIoT Predictive Maintenance Solution

With each passing year, the cost attached to maintenance and breakdown of manufacturing equipment is growing exponentially. As a result, the digital transformation of industry assets and processes has become a priority. The manufacturing components constantly collect tons of data, and this brings the need for data analysis & strong monitoring into the picture.

Here, IIoT Predictive Maintenance comes to the rescue. The IIoT-embedded models build an infrastructure of sensors that monitor the equipment conditions constantly to detect anomalies. Rapid contextualization, automatic pattern, and trend recognition are then done with data tools.

Capabilities of the IIoT Predictive Maintenance Solution

- ✓ Anomaly identification and forecasting using self-service machine learning.
- ✓ Interconnection between systems is built in.
- ✓ Data sharing with other applications in a secure manner.
- ✓ Work orders are automatically escalated based on sensor indicators.

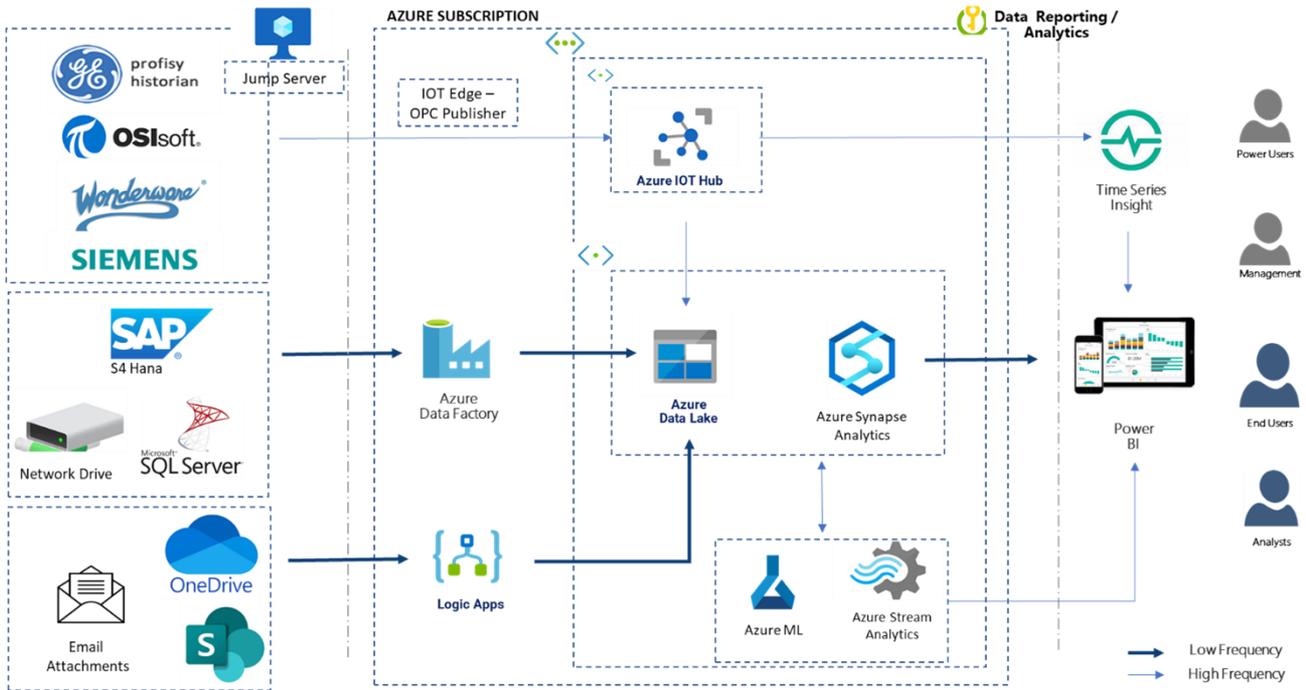


Benefits of IIoT Predictive Maintenance

- ✓ 45% Reduction in Downtime
- ✓ Improved Equipment Effectiveness
- ✓ 30% Reduction in Maintenance Cost
- ✓ 10 Times ROA
- ✓ 85% Accuracy Over Failure & Anomaly Prediction
- ✓ Improved Performance & Reliability



Industrial IIoT Architecture



Industry Proven Success



Enhanced Maintenance Practice for a Leading Company in India Using Predictive Analytics

Developed an easily scalable renewable energy solution consisting of different types of predictive analytics use-cases for plants and equipment.



IIoT Predictive Maintenance Solution for a Fortune 500 Company in India Using Power BI

Build a comprehensive real-time alerting and monitoring system using the Power Platform along with aggregated reports for asset optimization.

Technologies We Used



IOT Hub



Stream Analytics



Data lake



Synapse



Azure ML



Power BI