



Lighthouse factory initiative enabled by ITC Infotech's "OT Connectivity as a Service" offering

An American CPG Manufacturer of food toppings, sauces, and syrups

Challenge in connecting OT layer of the Shopfloor equipment for detecting fault codes resulting in lack of central monitoring and manual interventions in tracking the downtime hours and reasons

Reduction in unscheduled maintenance time by 15%

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CHALLENGE

- Unavailability of connectivity with shop floor equipment and PLCs for reading fault codes
- No real time visibility of production line equipment status and associated controllers were not networked and monitored centrally
- Loss of effective production time because of operator manually entering downtime hours and reasons at end of the shift
- Historical data analysis of machine or line was not possible as the machine status and downtime reasons were confined within the PLCs

SOLUTION

- Established connectivity with Rockwell controllers via KEPServerEX for data acquisition such as machine status, current speed and outcount
- KepwareEx used as IoT gateway for acquiring data from downstream systems and share data to upstream systems using OPC UA
- Automated capturing of 2100+ downtime reasons from PLC helps in prioritizing machines and actions towards reducing the downtime
- Developed rollout kit for OT connectivity and fault code automation for additional packaging line

RESULTS

- 15% reduction in unscheduled maintenance time
- 3% reduction in line downtime due to focused interventions
- Packaging line level logic implementation helped proactive identification of 80% of fault in the bottleneck machine in the line