

Case Study

Production Performance Monitoring and Analysis

Background:

The Client is a diversified health care company that discovers, develops, manufactures and markets innovative products and services – from prevention and diagnosis to treatment and cure. The company has several locations in Ireland and the facility in question produces a variety of disposable suction and administration sets and devices.

Scope of Work:

The team at the facility had a requirement to capture the performance of their production machines using a variety of PLCs that were already installed in the plant. This data was to include shift and batch efficiency calculations.

Process:

We proposed and installed a solution based on one of our associate company's products called 'Opera'. The system runs on a standard Microsoft Windows NT™ server and Microsoft Windows client. The system was configured to acquire data from a network of Allen Bradley PLC-5s and a Datascan network.

Result:

The client now has a production monitoring and analysis system that:

- ❑ Calculates the efficiency for shift of each machine.
- ❑ Calculates number of faults and duration of faults for each fault condition.
- ❑ Produces meaningful trend information and reports.
- ❑ Generates reports automatically at end of a shift.
- ❑ Automatically generates a report of line stoppages each day.
- ❑ Provides archive of production results for traceability purposes.
- ❑ Directly exports data into Spreadsheets so that it can be manually filtered using a tool familiar to the user.

The system provides the client with important production, maintenance and diagnostic information. The data produced has improved the preventative maintenance cycle and supports the root cause analysis process on site. This successful solution is now being rolled out into other production areas of the plant.