



"A very useful feature of Trend Link is the capability to have tags with different minimum / maximum values viewed on one chart and then interactively adjust the display range so that they can be easily compared."

Margit Lech, Developer

Configuration Overview:

- 75 Tags per second
- Trend Historian
- Trend Link
- CanaryInTouchHistStart

Canary Labs Integration:

- Siemens PLC
- Wonderware InTouch

Company Overview

Crystal Growing Systems (CGS) located in Hanau Germany, was founded in August 1999, emerging from the former Leybold Systems' crystal growing division as an independent company. Over several decades, CGS and its predecessor, Leybold Systems, have been developing and manufacturing pullers for the production of silicon crystals.

Background

CGS GmbH was struggling with historical data collection and trending analysis using their current HMI, Wonderware's InTouch. The historical data and format they needed to analysis issues was not available without a timely delay, due to the dependence on the IT department to make the necessary modifications.

CGS GmbH was referred to Canary Labs by one of their clients who was also a Wonderware client that had integrated the Canary Labs solution into their InTouch HMI.

System Configuration

CGS GmbH is utilizing Canary Labs Trend Historian, creating up to 75 tags of data from the crystal growing machine via a Siemens SIMATIC S7 PLC.

Wonderware Specific Integration

10,000 Implementations in over 24 Countries, and growing.

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Canary has developed a mini-opc server to bridge from Wonderware's InTouch software to the OPC-DA standard. It utilizes the configuration files of InTouch in conjunction with their proprietary Point Access Interface DLL, to provide real-time data to the Canary Logger through the OPC DA standard.

Transparent configuration: At startup, a specialized program (CanaryInTouchHistStart) uses configuration information directly from within InTouch and automatically configures the logging based on those setting. The logging configuration information extracted, such as which tags to log, descriptions, engineering units, scaling and dead banding is automatically set up in the Canary Logger via its automation interface.



Results

The machine operators uses the trending data to watch the behavior of the critical process values in live mode, without any intervention from IT and in the way they need it. From this information, the operator controls the machine to provide optimum quality of the crystal

Process engineers use the historical data to analyze and optimize the crystal growing process. Trending data is reviewed with Trend Link and sometimes exported into CSV files. The historical record also provides for review of production errors. 180 days of data is maintained on-line.

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