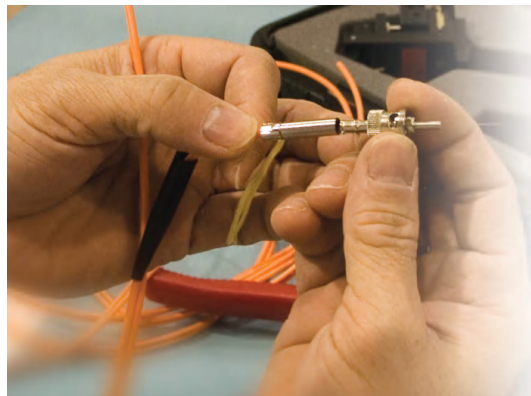


Configuration Overview

- Trend Historian with high speed logging (10 milliseconds)
- Trend Link
- Trend Export
- Custom Application accessing Trend Historian data through OPC-HDA

Canary Labs Integration:

- Kepware OPC server



Company Overview

OFS, located in Somerset, New Jersey represents the world's oldest and largest body of expertise in optical fiber solutions. The name is new, but not the heritage. OFS corporate lineage goes back to Alexander Graham Bell with inventions that have made optical networks practical and fueled the fiber optics explosion. OFS operates OFS Labs, a global center of excellence that continues the rich heritage of Bell Laboratories.

Background

OFS manufactures specialized optical fibers for transoceanic networks. A transoceanic fiber optic network has special challenges all its own. The distances are tremendous. There are no convenient places to install equipment for signal regeneration and the system is deployed in a harsh environment.

One clear requirement of a transoceanic fiber optic network is the ability to transmit signals as far as possible without regeneration. OFS has solved this need with industry-leading, high-performance fiber products that optimize optical network performance under the sea.

Because of the high-cost of installation and the fact the cable maintenance is almost impossible in the ocean depths; the quality of the fiber optic cable produced must be perfect. OFS uses Canary Trending to monitor and validate the quality of the transoceanic fiber optic cables they produce. Canary was chosen because of the performance of the Trend Historian and the ability to handle high-speed data logging. There are 130 critical parameters that are collected and monitored at a sampling

frequency of 10 milliseconds during the manufacturing process

System Configuration

The Canary Logger through a Kepware OPC server collects real-time manufacturing data. The Kepware OPC server is able to collect data from the PLC at the high-speed sampling frequency needed to validate the fiber quality.

Quality reports use historical data extracted from the Trend Historian with the Canary export utility and through a custom VB application via the OPC-HDA automation interface.

Results

The Canary Trending was used to replace an OSI PI system. Neil Hastings says "Canary does everything PI does, but only easier." He also appreciated the help he was able to get from our tech support in setting up and testing the system.

Canary Trending provides the validation that the transoceanic fiber optic cable produced by OFS meets the quality specifications.

