

ALBA – HTS-4 Substation Monitoring System Upgrade

Metals

Power Generation

Substation Automation



Contact:

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Founding year:

1999

Solution Partner: Prudent Solutions WLL

Customer: Aluminium Bahrain

Segment: Metals

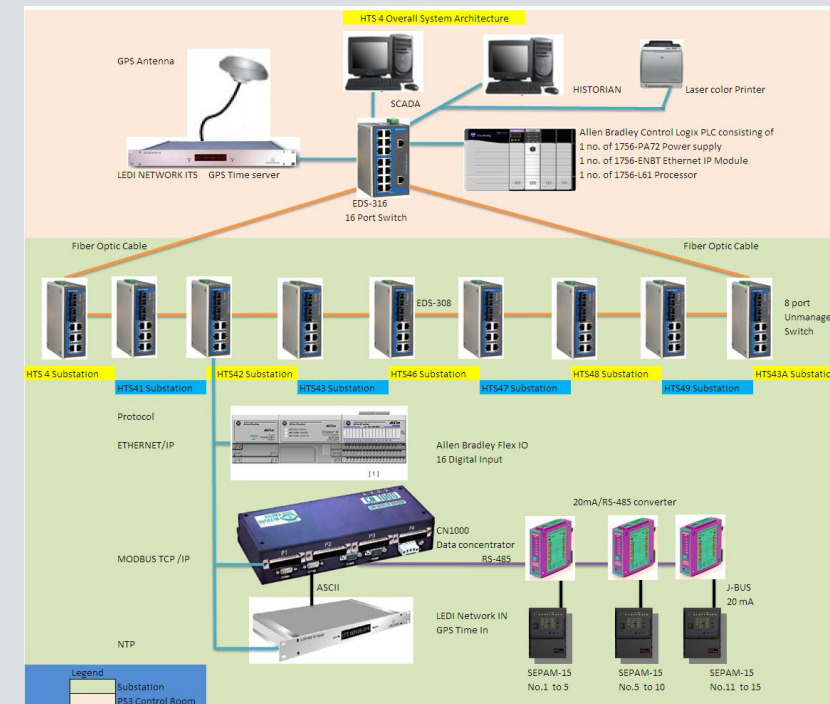
Requirements of the customer:

- ALBA, Bahrain was using April PLC's (Merlin Gerin) and Dexterity SCADA system for collecting / displaying data from all SEPAM-15 numerical relays in Potline-4 Substations. Due to the obsolescence of the spare parts & increased failure rate, ALBA decided to replace the old system with ControlLogix / CN-1000 / FTView SE based Substation Monitoring.
- Prudent Solutions WLL (PSL) was awarded the contract to supply new Sub-station Automation & Management system for the whole of Potline-4 substations (HTS4 and HTS 41-42-43-46-47-48-49 and HTS43A).



Short description of the solution

Allen Bradley Control-Logix system with CN-1000 Data Concentrators, Fiber Optic Ethernet backbone, FTView SE SCADA System with Historian



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Recognized Systems Integrator

Implementation by the Solution Partner:

- All locations communicating with the central station over redundant optical fiber ring network ensuring fast speed and high level of reliability
- Euro Systems Data Concentrator CN-1000 used for communication on J-Bus with SEPAM-15 Relays
- FTVIEW SE system enabling reporting of all parameters in the form of trends and alarms.
- Separate Historian Server provided for Sequence of Events and SOE History



Benefits for the customer:

- Plant-wide data acquisition with a single platform
- Section-wise load consumption and impact of various heads are now easily available with a click of button
- Energy saving through continuous monitoring & reporting
- Full Diagnostics reducing maintenance downtimes

