



Ready's specialized Process IT experts bridge the gap between our clients' corporate information technology departments and their plant process control groups.

Our expertise is information technology in the critical process control environment, and safe interconnection to business systems outside of the protected plant network. More specifically, clients use Ready to design, program, configure and deploy networks and applications to bring data from the plant floor and field operations to the corporate boardroom.

TECHNICAL EXPERTISE

- Installation, configuration and support of various historian platforms and associated tools on plant-wide to fleet-wide implementations.
- Industrial networking, communication, and security design, specification, optimization, implementation and audits.
- NERC compliance and security audits.
- Emissions monitoring reporting.
- Legacy system integration and extension.
- Downtime reporting, key performance indicators, equipment conditioning monitoring.
- Specialized process control software design.
- Online upgrades and migration of network, hardware, and software applications.

SYSTEMS EXPERTISE

- **Historians:** OSI PI, AspenTech IP.21, Wonderware InSQL/Historian, Capstone dataPARC, Citect, GE, Intellution, Westinghouse eDB Enterprise.
- **Video Historian, Surveillance and Intrusion Detection:** Longwatch.
- **Automation Change Management:** MDT AutoSave.
- **Communication Protocols:** Ethernet TCP/IP, ControlNet, DeviceNet, Ethernet/IP, PROFINET, PROFIBUS, Data Highway Plus, A-B Remote I/O, DH485, DF1, MODBUS, RS232, RS422/485, OPC.
- **Software Programming:** MS .Net ASP, and ASP.Net. MS Visual Studio, Studio.Net, Basic, Basic.Net, and C#.Net. AJAX, SQL, MatLab, and MatLab Builder.net.

Ready Engineering Corporation

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SPECIALIZED SERVICES

- Providing solutions that allow different legacy, proprietary and open technology platforms to communicate and exchange data with each other.
- Detailed specifications, online upgrades and migrations of process historian, database, and network deployments which add value at every level of a company from the plant floor and field operations to the corporate boardroom.

POWER INDUSTRIES

Power Generation
Oil and Gas
Mining
Chemical
Food and Beverage
Biofuels
Waste Treatment

TYPICAL PROCESS IT PROJECTS

Coal Power Plant Historian Configuration, Support and Maintenance - Multiple Sites.

Provided support, configuration and administration for a wide variety of data collection systems including IP.21, CIM/21, PI, Oracle and several application specific systems. Responsible for the development, maintenance and modification of process related reports and process graphics including IP.21-based Plant Condition Monitoring Systems.

Coal Power Plant Historian Migration Project - Multiple Sites.

Specification of scope and detailed design for migration of CIM/21, PI, and InSQL historians to IP.21, including network architecture, server and interface hardware specifications, and comprehensive description of interface requirements for the migration. Ready filled the technical lead role on the migration effort, spanning multiple sites and multiple historian platforms.

Cogen Facility Gas Plant Performance and Gas Custody Transfer Validation

Integrated plant performance calculations into the PI historian including plant gas consumption, power output, station services power consumption, higher heating value, and heat rate calculations. In addition to the plant calculations, Ready also implemented a method for validating gas consumed from the gas utility. This involved integrating the gas utility's real-time gas chromatograph information from an FTP server into the PI historian and comparing values to calculations created from the power plant's own instrumentation. As a result, the client was able to easily confirm over-charges in gas billing due to problems with the gas utility instruments.

Cogen Facility PI Historian Installation and Performance Calculation Migration

Migrated an Intellution to PI Historian and completed the reconfiguration of the plant performance spreadsheets to utilize data from the PI historian. Tasks included the configuration of the of the PI server, PI DCS interface, reprogramming of the performance spreadsheets to use the PI application programming interface (API), and validating the performance calculation spreadsheet calculations.

Waste Treatment Center, Plant Performance and Downtime KPIs

Developed a variety of reports providing plant performance and downtime key performance indicators (KPIs) via Proficy Real Time Information Portal. Migrated historical data from Excel spreadsheets into an SQL server and designed a website to facilitate manual entry of lab data.

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