

Distributed Control System Projects



Large continuous industrial processes and critical public infrastructure (such as modern power plants and water treatment plants) are often controlled by distributed control systems (DCS), which are optimised for complex calculations, logging and control, and provide an intergrated environment at every level from field i/o to operator interface and management IT.

Provecta has a wide range of hands-on DCS expertise and has performed projects utilising a wide range of different DCS vendor equipment. These include Emerson Ovation, Siemens T3000, ABB Bailey, Toshiba TOSMAP and Yokogawa Centum VP.

Provecta has been involved in many DCS projects at various levels, including:

Owner's engineer:

- Project development
- Project management
- Design standards (automation, control concepts, protection, instrumentation, redundancy, architecture, IT security, graphics, alarms, etc)
- Performance standards & requirements
- Control room requirements
- Training simulators
- DCS/PLC/SCADA integration
- Specification preparation and analysis

Full DCS implementation:

- Hardware supply and installation
- Full DCS functional design, configuration, testing, commissioning and tuning
- Documentation and training

DCS Vendor Project Services:

- Concept design
- Verification and validation
- Database development and management
- Interface and cabling design
- Sub-system (e.g. BMS) configuration and testing
- Design management
- Commissioning management

DCS enhancement and optimisation services:

- Automation level improvements
- Advanced controls implementation
- Loop tuning and performance optimisation
- Ramp rate improvement
- Sliding pressure implementation with model-based control concepts
- Frequency response improvement
- Alarm analysis and reduction

Should you wish to discuss any aspects of DCS projects where **Provecta** will be able to assist you, please contact:



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