



SCADA systems

A SCADA system is an essential component of many distributed activities within utilities, industrial and commercial sites and even large buildings.

It provides for monitoring and remote control of important plant from a central control room.

- If you are responsible for an electrical network and a fault develops, is your customer the first person to tell you that they have lost supply? How do you get the customers back on supply as quickly as possible?
- When you have a decrease in pressure on the pipeline you manage, do you have to send out an engineer in a van to locate the problem? How do you gain centralised control of the pumping stations?
- The rivers are rising, but you don't know how quickly or by how much. How do you establish when to issue a flood warning?

remote monitoring



Solution

All these issues are addressed by a SCADA (Supervisory, Control And Data Acquisition) system. Here a centralised control room or hierarchy of control centres uses communication links, to interface with site plant through remote terminal units (RTUs) or intelligent plant with serial ports. Data monitoring gives visibility of your plant and systems, and control, (either automatic or operator driven) enables you to respond and react accordingly.

SCADA systems are built from standard PC tools communicating with RTUs and PLCs. Key differentiators are the use of protocols (the language used between the control centre and RTUs), scanning mechanisms and the selection of the most appropriate communications medium.

Benefits

- Current and accurate visibility of your operation across local and/or remote sites
- Reduced field maintenance costs through more effective management of plant faults instantly
- Faster incident resolution with maintenance staff being alerted of faults instantly
- Reduced operational costs by secure control of remote plant equipment
- More efficient processes through automation where manual intervention is not required
- Support of the requirements of Regulators and Health and Safety legislation
- Clear analysis of remote incidents through time stamped historical event logging

Our capability

We have over 30 years experience in providing scalable SCADA solutions, ranging from plant and equipment located in one building to those spread across hundreds of remote locations across the country.

We have provided SCADA systems for a variety of sectors and environments:

- Distribution Network Operators
- Airport authorities
- Financial institutions, data centres and other power critical buildings
- Ministry of Defence
- Pipelines
- Water utilities

When designing a system, our engineers choose from Schneider Electric's extensive range of PLC, RTU and SCADA products to match each project requirement. The system is configured to communicate to the equipment and the client is presented with a user-friendly interface to give complete visibility of the equipment status. We have experience in delivering dual redundant systems, high integrity communications networks and have the skills to integrate our systems to third party equipment if required.

We offer systems based on a mixture of communications, including GSM, GPRS, PSTN, Paknet, Private Mobile Radio (PMR), fibre optics, private and leased lines and Ethernet.

