

SCADAFLEX

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Substation Automation System



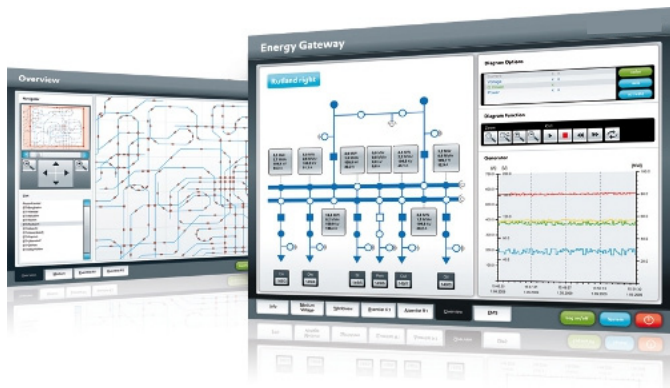
- **Modular software design**
- **Comprehensive network technology**
- **Simple project configuration**
- **Over 300 communication protocols**
- **Will run on any Windows operating systems**

pazifik
power

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Scadaflex offers you many features that make your automation efficient and effective. Starting from the design of the software, through to network technology, simple project configuration and the diverse connection possibilities.

Scadaflex is not only a system suited to a wide range of different requirements, it also combines all manner of different functions in a single tool and in one single development environment. It can be used for many different tasks such as control and visualization, communicating and exchanging data with other applications and monitoring plant operation as well as an



Modular Software Design

Scadaflex can be expanded in a modular fashion and will grow with your requirements, with flexible expansions, thereby guaranteeing the security of your investment. The functionalities of all expansions are accessible via the user interface.

Modern Network Technology

Scadaflex features unparalleled modern network technology with capabilities such as distributed client/server structures. This gives users options to decentralize their automation systems which, previously, they may never have thought possible.

- Decentralized data recording and administration
- Remote administration for remote project configuration and remote maintenance
- Interruption-free redundancy at the click of a mouse
- Automatic distribution of project changes throughout the network

Simple Project Configuration

- Simple project configuration by means of standardized and freely selectable parameters.
- Time-saving project configuration by means of an intuitive graphical user interface
- A system with layers of visualization for a clear overview, even in complex equipment screens
- Flexible project configuration through unlimited expansion of variables
- Freely selectable wizards for support with repeated tasks

optimization tool to increase plant productivity and efficiency. All of this can be done with just a few mouse clicks. Scadaflex will run on any of the current Windows operating systems. It supports over 300 communication protocols as standard, and our system engineers will write additional protocols on request at any time. Scadaflex also exchanges data with other applications and links directly to the ERP level. All this, needless to say, is carried out on a network, configured for multi-user operation, across all departments in a company, and conforms to the US FDA 21 CFR Part 11 standard.

An energy substation automation system involves coordinating a large number of different components in an intelligent way and without risk of error. These components include field devices, protection equipment, servers, routers, log printers, gateways and time synchronization computers. In other words we have to enable connections to all manner of different devices, while ensuring that processes can be guaranteed to run smoothly and providing precision monitoring. The software you use to maintain your overview and control over switching stations and power plants makes a big difference. Software is especially important if you are working in a sensitive sector, are concerned with minimizing maintenance overheads or maintaining customer satisfaction.

Distributed Engineering

Scadaflex supports distributed engineering. Several people can work on a project together at the same time, either in a local network or via remote access. Functions that are currently being worked on are blocked for other users.

Connectivity

Scadaflex offers a flexible multi-driver structure to connect varied target systems. To this end, there is a multitude of open, standardized interfaces for the exchange of data in all directions. Scadaflex currently features over 300 communication protocols. In Scadaflex, you simply select the required communication protocol from the Scadaflex driver list and configure it as an easy-to-read dialog. They generally support the whole functionality of the hardware and thus enable unlimited access to the process.



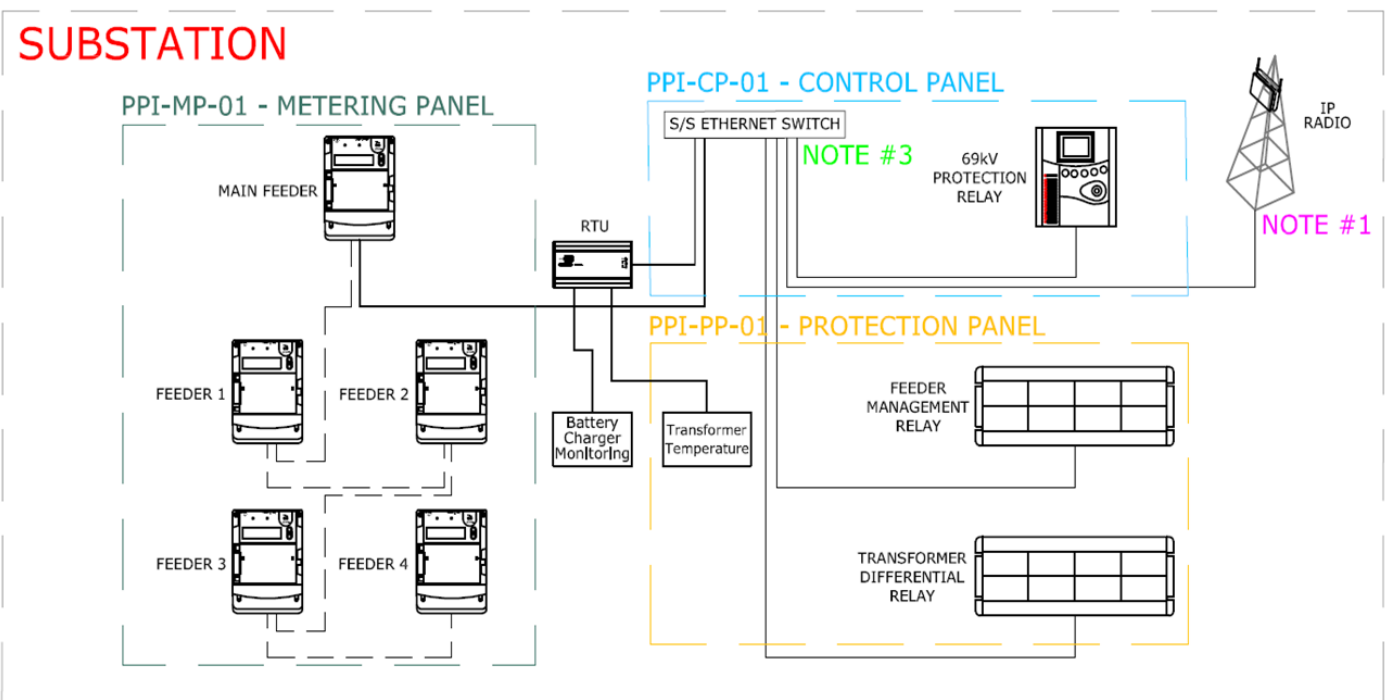
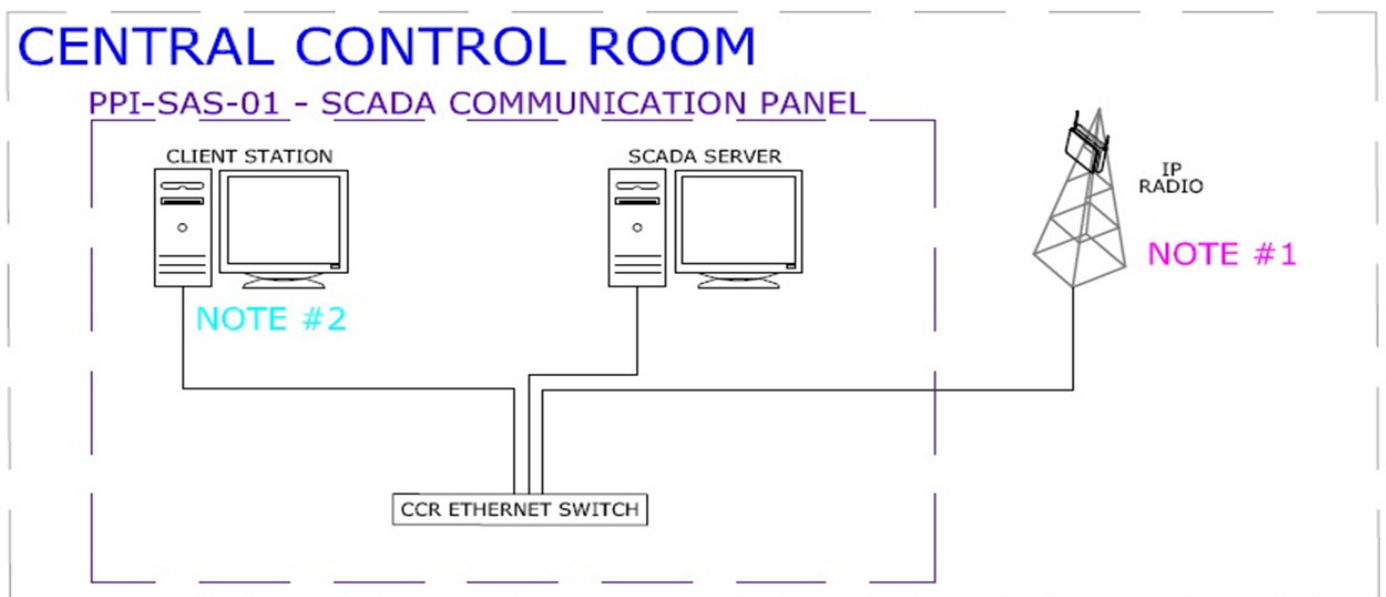
PPI Substation Automation System covers the following:

Design/ engineering/ fabrication/ commissioning of Electrical equipment of Substation/s including:

- Switchgears- for medium voltage ranging from 24kV to 36kV.
- Protection, Control & Metering Panel- PPI provides panels which consists of SCADA ready relays and meters for monitoring, control and protection of the substation.
- Transformer Monitoring- transformer temperature and other important factors can be monitored.
- Communication Equipment- such as Ethernet Switches, Patch Panels and other related equipment needed.

Automation of substation which includes:

- Remote Monitoring and Control of substation equipment thru SCADA system
- Such as Disconnect Switches, Power Circuit Breakers, Switchgears, Relays and Meters.
- Interfaces to different equipment, intelligent devices and other devices
- Communicating to equipment and devices are easier with the use of SCADAFLEX thru its readily available protocols.





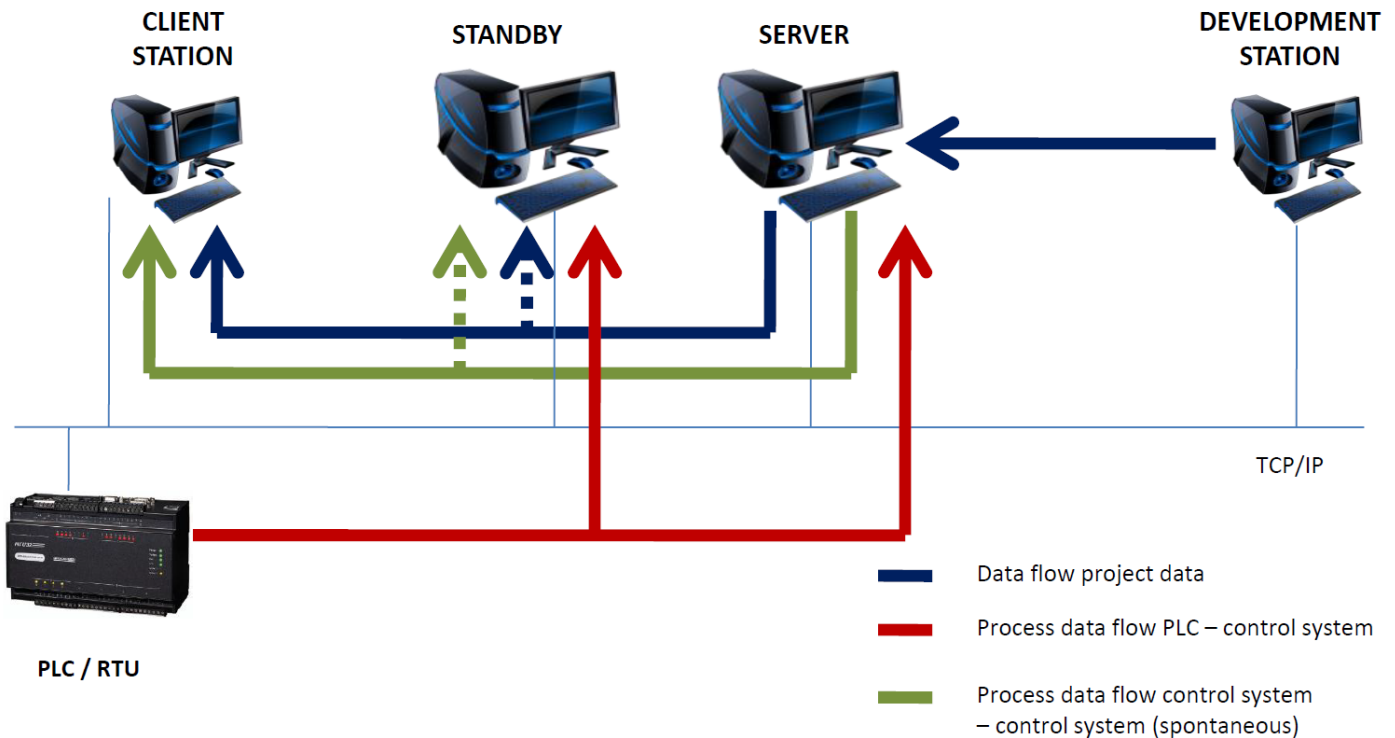
Monitoring & Control

Monitoring

Measurement Values- all essential values/parameters (i.e. kV, A, MW, Mvar, Mva, MWh, Mvarh, pf, Hz, etc.) can be monitored and recorded for future reference.

Breaker Status- indication whether the breaker is open or close.
 Temperature- monitoring this factor is significant to be able to keep track of the transformer oil and winding conditions.

TYPICAL SCADA SETUP



Alarms- substation alarms are factors which are highly needed to be monitored and responded immediately.



Station Events- all events happening to the substation are chronicled to prevent potential faults to transpire.

Controls

Closing or Opening of DS, PCB and Switchgears- convenience through full control of closing and opening without having to go to the actual substation.

Interlockings- avoidance of incorrect operation or misuse of controls.

Auto or Manual Operation of Equipment- equipment's action can be handled manually by connecting directly to it or automatically by setting limit values/time limit before it performs its function.