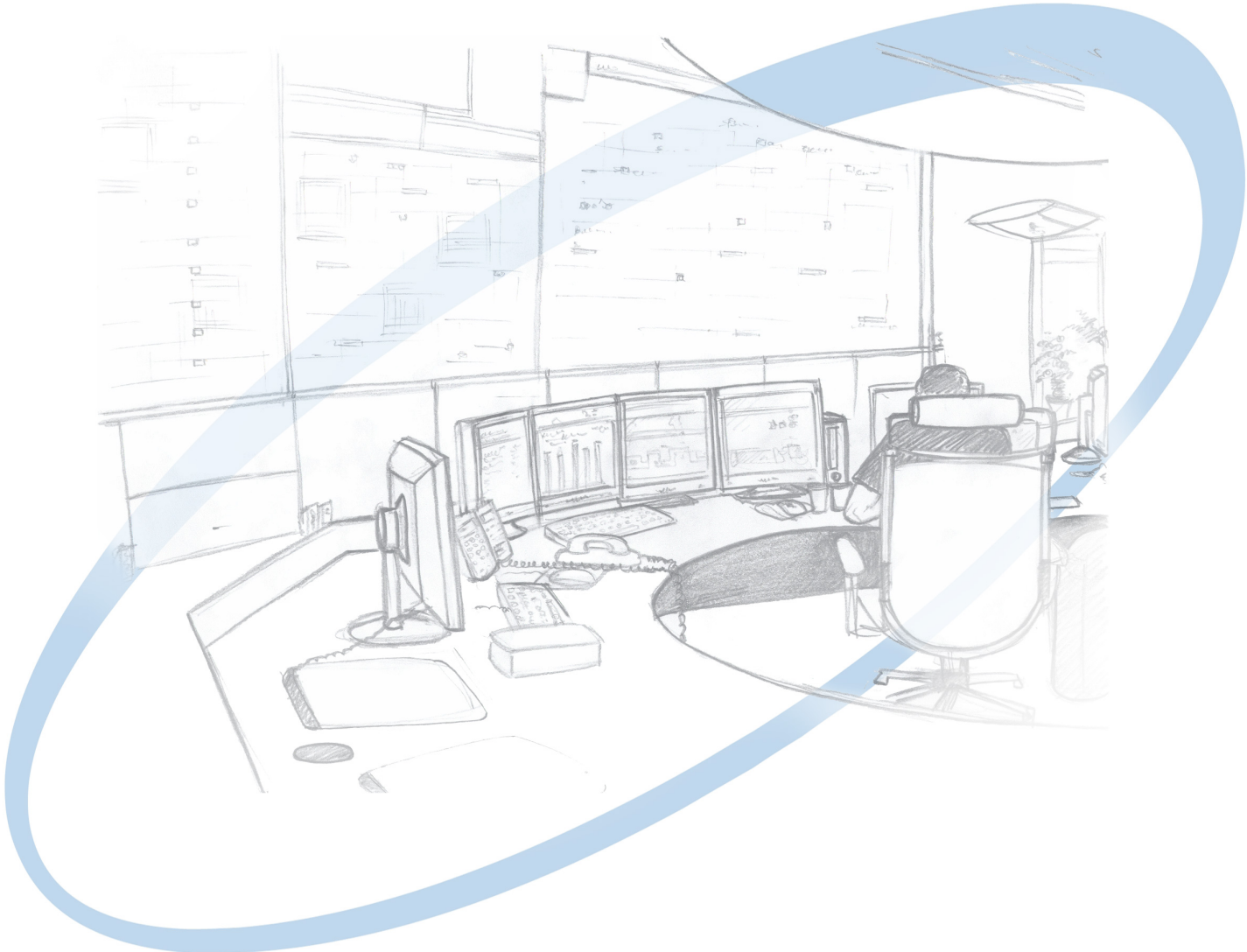


# SCADA



## SCADA

Utility Information Systems (UIS) is highly specialized in design, supply, installation and commissioning of SCADA and real-time control systems for Electric Industry, Pipelines and Networks, Municipal and Multi-Service Utility distribution Companies.

Together with its network of Global partners, UIS is a system integrator who is internationally recognized for delivering its commitments and customizing solutions to meet particular customer requirements.

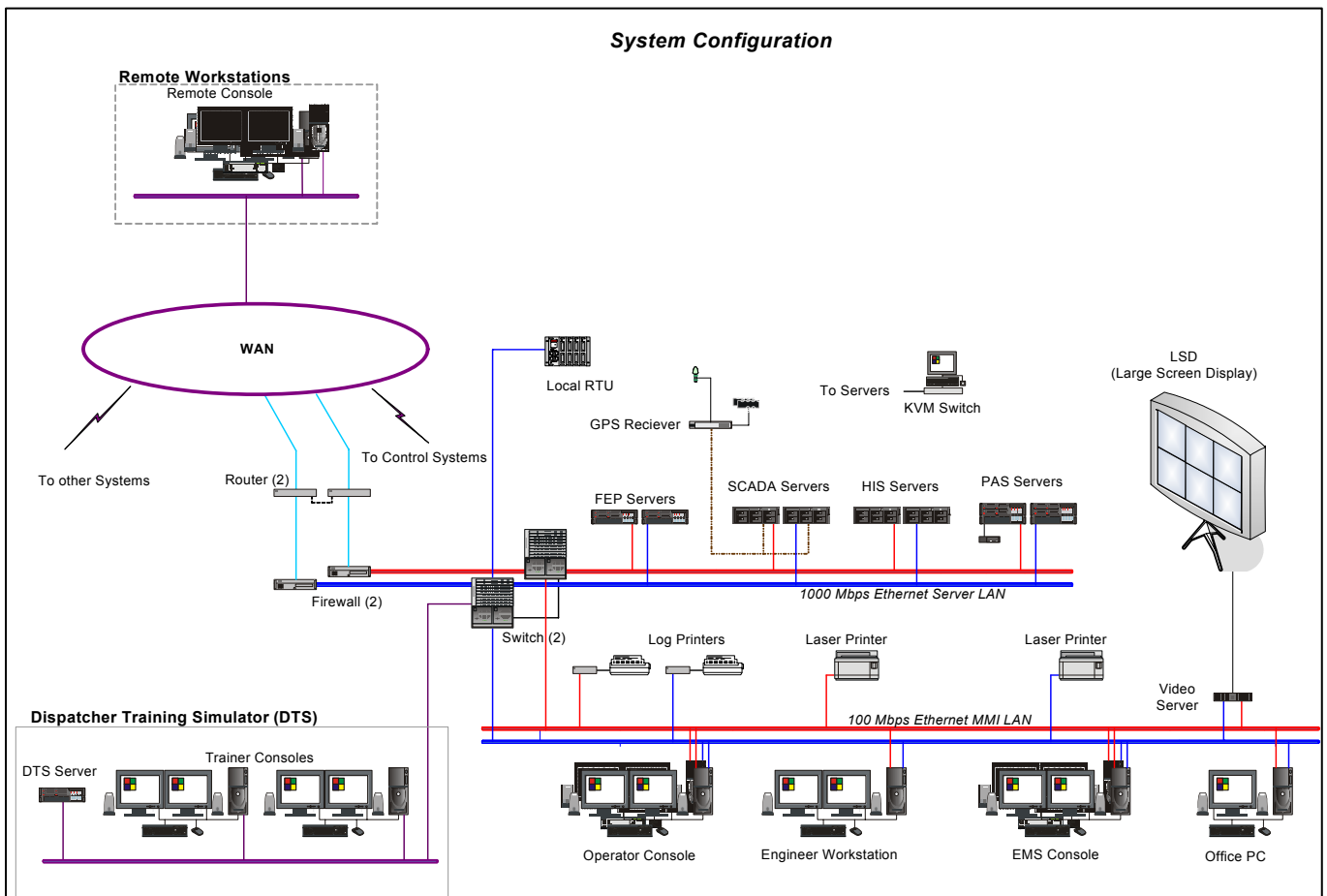
Our solutions typically include SCADA control centers HW & SW, RTUs, Substation Automation, field instrumentation, telecommunication systems and interfaces, advanced software applications, plus comprehensive engineering, Project management, maintenance and training.

## Solution

UIS provides SCADA and real-time control systems from internationally reputable vendors. Our SCADA platform is not only supporting a safe and efficient energy distribution but also is an energy information system, providing decision makers with reliable process information

The systems are based on an "Open System" concept and fully redundant architecture for mission critical applications. Following are a few salient features of the system:

- True Client/Server architecture, for optimum performance response, data integrity, and scalability,
- Choice of Standard Relational Databases offered by MYSQL, ORACLE, INFORMIX, IBM and Microsoft SQL server;



- Use of high performance Object-based real-time database with ANSI SQL interface
- Friendly User Interface with Large Library of Dynamic Objects,
- On-line Database Modification,
- DNP3, IEC 870-5 (101/104), MODBUS for Communication Protocol with field devices;
- Choice of Network-based (IP) standard front-end communications interface
- Scripting/Programming,
- Well Defined Application Programming Interfaces (API)

## Availability & Performance

SCADA systems as provided by UIS demonstrate full functionality under normal and hazardous conditions to secure a reliable and scalable platform. Under extreme conditions our systems have a proven record of exceeding the international standard requirement of 99.95% availability. Our solutions enjoy a design structured to meet hundreds of thousand of points and many operator consoles.

## Future proof

Of essence to the design is the capability to add new functionality or make configuration changes without impacting the system performance or availability. The evolution of IT equipment and third party applications, demands a platform that allows for seamless integration – a unique capability you will find in all our SCADA platforms.

## A single solution to control and optimize multi-service utility

For multi-service utility companies and industries our SCADA system can bring remote monitoring and control of assets, facilities, plant and infrastructures including:

- Electricity
- Water & Waste waster
- Gas

Use of a single technology will not only reduce the project implementation cost, but also will reduce the cost of training, operations and maintenance of the system.

## Integration with 3<sup>rd</sup> party applications

Our solutions include standard Application Programming Interface (API) to support integration of online 3<sup>rd</sup>-party applications.

In this way, our SCADA architecture meets the key criteria for a truly open system, offers multiple choices of in terms of hardware, operating system, and database platforms as well as a number of open industry API.

The following typical applications can be supplied and / or integrated to our SCADA system:

- Geographic Information System (GIS)
- Customer Information System (CIS)
- Automatic Meter Reading (AMR)
- Assets management
- Interfacing with ERP

## Energy Management System

The followings are list of our energy management suit of applications for electricity transmission network:

- Network Topology Processor
- Power Flow
- State Estimator
- Contingency Analysis
- Optimal Power Flow
- Short circuit analysis
- Automatic Voltage / VAR control
- Operator Training Simulator

## Distribution Management System

The followings are list of our energy management suit of applications for electricity distribution network:

- Distribution Topology Processor
- Distribution Power Flow
- Fault Isolation Service Restoration
- Switching Order Management
- Trouble Call Management
- GIS interface

## SCADA applications for Water & Waste water

- Leak detection and location
- Pumping stations automatic management
- Reservoir management
- Automatic sequences such as Filter backwash control, pumps & valves control,

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