



New era in Substation Automation enabled by ReLab Software Robust * Simple * Scalable

ReLab's IEC-61850 OPC solution

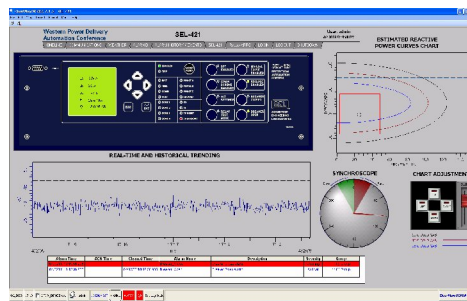
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|-------------------------------------|---|
| Simple to use | little knowledge of IEC-61850 required |
| Rapid Configuration | configure an IED in minutes |
| Scalable | connect to a single device or run a large geographic area |
| Truly Interoperable | multi-vendor support |
| Low cost-of-ownership with fast ROI | fast implementation and priced per instance |

IEC-61850 Core Components

Object model: abstract definitions of services, data and Common Data Classes, independent of underlying protocols

Communication Specification: defines a communication between the IEDs of the substation automation system, maps services to actual protocols

Configuration language: facilitates exchange of configuration information



RL61850

RLGOOSE

Implemented Advantages of IEC 61850

- ⇒ True multi-vendor IED interoperability and integration, software and hardware
- ⇒ Provides strong function support for substation communication via comprehensive substation functions
- ⇒ Simplifies specification, design and configuration of the system
- ⇒ Reduces the cost of installation, commissioning and maintenance
- ⇒ Provides intuitive hierarchical and structured data modeling
- ⇒ Enforces standards for naming convention
- ⇒ Implements self-describing protocol and automatic object discovery
- ⇒ Normalizes IED configuration file formats, enables exchange of configuration between devices by eliminating hardware dependencies
- ⇒ Fast communication and multi-cast messaging for inter-relay communication
- ⇒ Scalable system evolution

Amplify Your strength with our Industrial Strength Software

The robust & scalable solution for substation automation

IEC-61850 OPC Device Driver



A long awaited bridge between IEC-61850 and OPC worlds

Functionality

- ⇒ Supports MMS Logical Nodes
- ⇒ All reported IEC-61850 domains, nodes and items are available
- ⇒ Supports all data types
- ⇒ OPC Items are time stamped with device time and item quality
- ⇒ Supports single register write (breakers & remote bits). No writing structures required
- ⇒ User configurable write commands
- ⇒ RLGOOSE is self initializing as well as XLM initializing and is easily configured

Performance

- ⇒ ReLab IEC-61850 OPC Device Driver has ReLab's traditionally high performance. With thousands of tags and multiple IED's it will barely consume your computer's CPU resources

Reliability

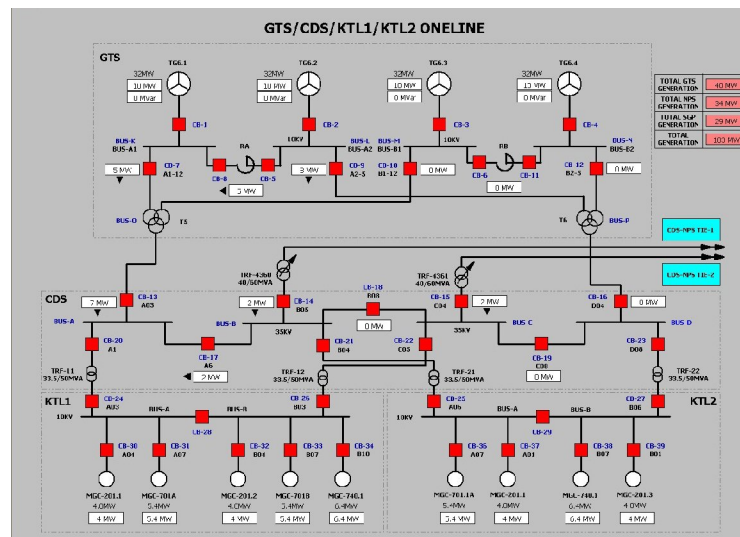
- ⇒ Our software has a proven record of running for years without interruptions, crashes, memory growth or other unpleasant effects. It provides a continuous stream of data that you can rely on

Scalability

- ⇒ ReLab IEC-61850 OPC Device Driver provides a scalable solution for your automation needs. Using self-subscribing protocol capabilities you can dynamically add, delete or reconfigure your IEC-61850 devices without comprehensive IEC-61850 knowledge

Economics

- ⇒ Having all the above features with unlimited tags/IED's
- ⇒ Fast implementation, 10 minutes in many cases
- ⇒ Low cost-of-ownership with fast return-on-investment



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