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ASE 61850 Suite

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The ASE 61850 Suite is designed to meet all your IEC 61850 compliance and management needs. It includes a trio of products available individually or together: ASE 61850 Client Test Set, ASE 61850 Server Test Set and ASE 61850 SCL Manager.
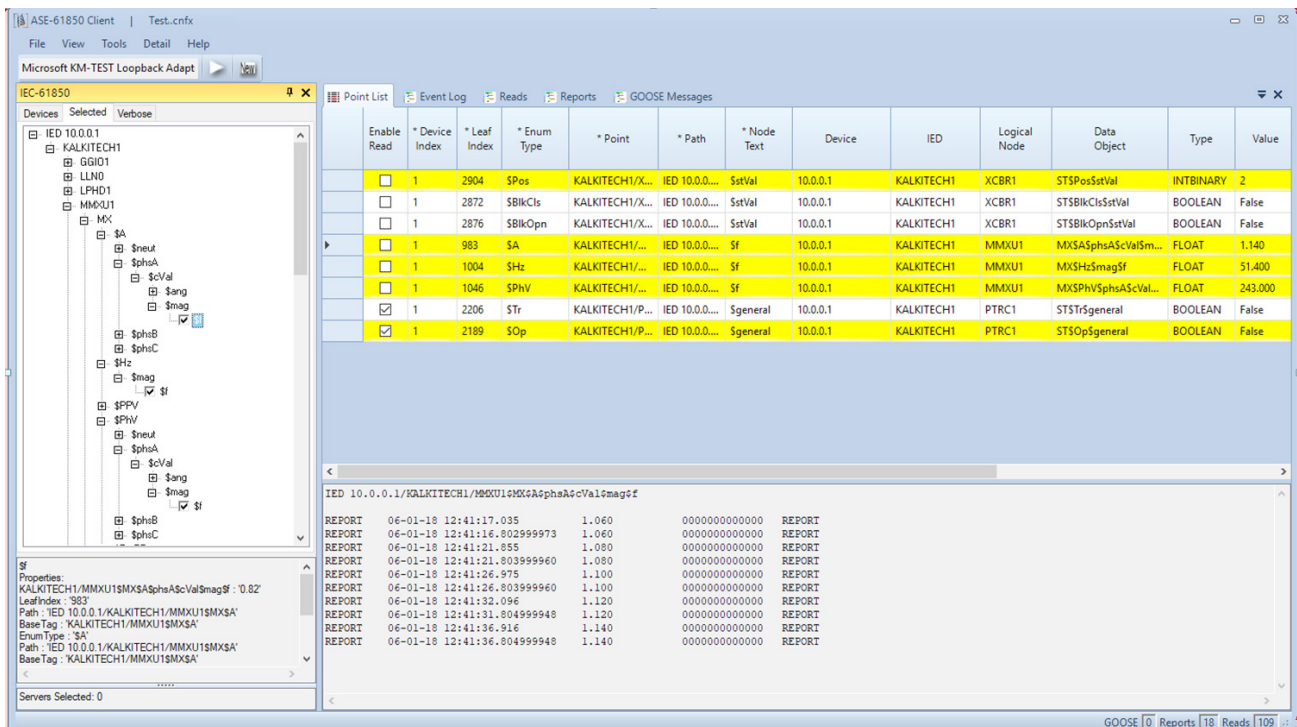
ASE 61850 CLIENT TEST SET

The ASE 61850 Client Test Set simplifies access to IEC 61850 environments and devices. It allows easy identification of equipment on the network by either scanning for connected devices or entering specific device network addresses. GOOSE messages and report data from the devices are displayed as received. Individual data points may be selected for monitoring, and information from GOOSE, reports, and scans are updated in a single view with history of changes (as sequence of events).

The ASE 61850 Client Test Set provides a user interface that will be familiar to our ASE2000 product users. The most recent release of the tool adds support for dynamic datasets, controls and IEC 61850 Ed.1.0 & Ed.2.0 SCL import.

Capabilities and Functions	Other Features
• Support of standard IEC 61850-6 SCL files (Ed. 1.0 and Ed. 2.0) with IED discovery features • Discover all IEC 61850 Server Intelligent Electronic Devices (IEDs) on the network with data model • Support GOOSE, Reporting and Polling for data retrieval from IEDs • Dedicated wizard to perform control operations based on supported control model	• Custom Point list to monitor specific data points in IEC 61850 network • Identify mode of data updates (GOOSE / Report / Poll) • Track history of data changes on all points in the Point list

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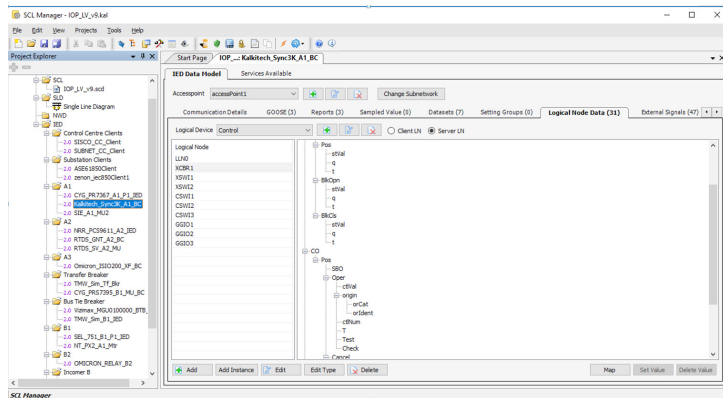
ASE 61850 SCL MANAGER

ASE 61850 SCL Manager is a vendor agnostic, comprehensive graphical tool that allows the user to create, configure, view and edit all substation elements, and their data models based on the IEC 61850 Substation Configuration Language specification.

Capabilities and Functions

- Helps create, import and export SCD/SSD/SED/ICD/IID SCL files with Singe Line Diagram Information
- Helps create architectures for substations, wind/hydro power plants and Distributed Energy Resources (DER) and defines complete system specifications
- Links different IEDs and their logical functions to Singe Line Diagram Substation specifications
- Supports IEC 61850 Ed. 1.0 and Ed. 2.0 and allows mapping IEC 61850 signals from one IED to another
- SLD Objects to IED Matrix, IED Signals to IED Matrix with different filtered views (GOOSE / Report / Sampled Values)
- Compare IED capabilities and models with user-defined weights
- R-GOOSE and R-SV Configuration Support (IEC 61850 90-5)
- Scalability improvements to support more IEDs in a project

Other Features

- Document generator
- Private data management
- Provides tab-based view of IED functions for easy browsing - GOOSE, reports, logs, SV, LN data and external inputs
- Restricts operations to ensure conformity with 'Services' supported by IED
- Ed.2.0 based external inputs mapping using Client LN and IEDs information - Reports, GOOSE, SV etc. between IEDs
- Merging of SCL configurations between different versions - approval based on Add, Merge and Delete of Configuration

ASE 61850 SERVER TEST SET

ASE 61850 Server Test Set is a Windows based software tool that allows power system users to simulate and monitor IEC 61850 Server, GOOSE. It is capable of simulating multiple IEDs simultaneously without having real physical devices. Each IED in the simulator is configured using standard IEC 61850–6 SCL Configuration Files.

Key Features

- Simulation of standard IEC 61850-6 SCL files - supports IEC 61850 Ed. 1.0 and Ed. 2.0
- Supports LNs & CDCs of Substation, Hydro, Wind and DER models
- Multiple IEDs simulation
- Supports all IEC 61850 8-1 services
- IED configuration handling as independent Project Files
- Separate Network and configuration for each IED
- Data simulation and scripting capability with millisecond accuracy
- Start, Pause, Stop and Reconfigure options
- Tree based view of Simulation Nodes

Software Requirements

- Microsoft Windows 7, 8, & 10
- 32-bit support
- 64-bit support (for scalable simulation)

Hardware requirements

- USB port for dongle license
- Ethernet port