



**SIMFLEX™ IEC 61850**

# Client Simulator

Release notes version 3.7.0



The SimFlex™ Client simulator comes with an extensive Test Suite that implements IEC 61850 test cases available for individual selection and execution. Library of well documented programming services and methods is built to enable multiple layers of interoperability with IEC 61850 device and gain insight of its behavior. Generic tests are developed to support Conformance testing procedure. That doesn't stop user to involve its creativity, use existing building blocks and examples and create new and combine existing test cases to perform even more complex test scenarios. Learn SimFlex™ Client simulator intuitive graphical user interface in minutes and engage its capabilities to become IEC 61850 diagnostic guru.

**This and much more makes the SimFlex™ Client Simulator an excellent software solution for the Power Utility industry and supporting domains.**

### What's New

SimFlex Client Simulator Edition 2  
New Release is 3.7.7107.17167  
Release Date: Jun 2019

### New Features:

- Updated according to latest released UCA Conformance Test Procedures for Server Devices with IEC 61850-8-1 Edition 2 interface, **TP Version 2.0**
  - Increased level of testing details
  - **11 new** test scripts in Basic Exchange, Unbuffered and Buffered reporting, Logging and GOOSE Conformance blocks
  - **Updates in 94** test scripts (of total 244)
- Improvements and minor bug fixes of existing test cases (Fixed length GOOSE manipulation, Non-1 Boolean "true" value treatment, *SetURCBValues*, *SetBRCBValues*, *SetLCBValues* with multiple attributes in one request and more)
- User and API manual updates

### Tool Features:

- Supported services of Basic Exchange, DataSet, Reporting, GOOSE, Logging, Tracking, Settings, Time synchronization ...
- Executes the UCA International Users Group detailed test procedures based on IEC 61850-10 standard
- Tool can be incorporated in a complex testing environment (console call)
- Easy control of testing environment (ethernet switches, time servers, power supplies, secondary injection test sets etc. ...),
- Capture network traffic on two network cards in parallel (recorded in PCAP format) that can be read by network analysis tools such as Wireshark
- Advanced GOOSE engine enables publishing of GOOSE messages, including faulty messages for negative testing
- Logging of test progress and test results in human-readable format
- Design and execute any test case through a flexible interface
- Enhanced test case editor with syntax highlighting  
Visual representation and interaction with server's data models

