



GRIDCLONE

About us





What: Delivery of IEC 61850 Expertise through Testing Tools & Services

We are specialized in understanding and testing of IEC 61850 Modeling, Engineering and Communication. Our knowledge enables us to provide you comprehensive and high-quality tools for detail testing of IEC 61850 implementation. Whether you are Developing, Conformance testing or Specification testing, our Testing Tools & Services will give you means and knowledge to do it.

Our Testing tools are used for many years in accredited laboratories performing UCA certification and by vendors preparing and pretesting their implementations. And we are now focused to deliver same capabilities to Utilities in order to verify functionalities of their systems.

Why: Where Power Industry Automation meets IT & Programming

Modern Power Automation Systems are continuously evolving and becoming more capable by utilizing information technologies and greater computing power. This puts a pressure on Automation engineers to build multidisciplinary knowledge and keep the pace with industry requirements.

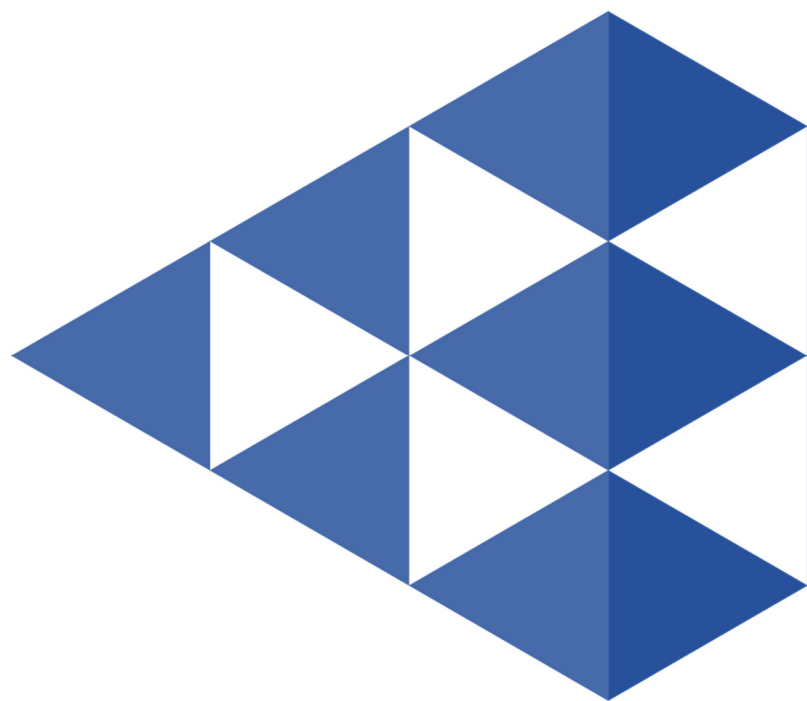
We understand that such task is demanding and therefore we provide tools, trainings and services that will help you to upgrade your knowledge and have capability to design and verify your solutions.

Who: Skillful team committed to quality and reliability

We are a group of engineers with roots in power automation protection, control & design merged with developers and IT engineers. Our different backgrounds give us pool of versatile knowledge to understand, investigate and resolve modern Power Automation challenges.

We have experience in conformance, specification and functional testing of IEC 61850 based solutions. We are actively participating in work of UCAIug Testing Committee and IEC TC57 Working Group 10 where IEC 61850 series of standards along with guidelines and specifications are developed.

As part of [Pro Integris group](#) we continuously cooperate with team of application and field engineers in designing, testing and commissioning of PAC systems around the globe. This allows us to acquire direct feedback from real life systems and gives us opportunity to test our solutions and products in diverse environment.



Products



SimFlex™ IEC 61850 Client Simulator

IEC 61850 services comprehensive testing tool

- ▶ IEC 61850 conformance pretesting & testing
- ▶ Functional testing of IEC 61850 IEDs and systems
- ▶ Validation of IEC 61850 implementation in product development



SimFlex™ IEC 61850 SCL Checker

IEC 61850 SCL testing tool

- ▶ IEC 61850 conformance pretesting & testing
- ▶ SCL verification during: system design, integration, FAT & SAT
- ▶ Validation of IEC 61850 implementation during product development



SimFlex™ IEC 61850 HMI Simulator

IEC 61850 based HMI Simulator

- ▶ Overview, monitor and control IEDs during engineering and testing
- ▶ Test IEDs vertical communication when SCADA system is not available
- ▶ Diagnose IEDs real time behavior



SimFlex™ IEC 61850 Protocol Analyzer

IEC 61850 network protocol capture and analysis tool

- ▶ Network traffic analysis during System Integration and engineering
- ▶ Analysis of GOOSE and Sampled Value messages
- ▶ Assistance in preparation for UCA© based IED certification





Services

Accreditation

Support for laboratories in process of accreditation UCA 61850 lab

- ▶ the specification and help with test environment setup
- ▶ the selection of the IED for accreditation
- ▶ the setup of the test plan
- ▶ the creation of log entries required for accreditation

Certification

Support for product certification

- ▶ Defining necessary test cases and preparing test plan
- ▶ Preparing and analyzing necessary documentation
- ▶ Pre-testing and/or analyzing its results for gaps or nonconformances

Customization

Your project needs specific test plan or additional features? We will support you and design with custom features and libraries.

Design of Type tests required for:

- ▶ Proof of concept,
- ▶ Device type approval,
- ▶ Post firmware update validation,
- ▶ Regression testing etc.

Testing of SCL files:

- ▶ Validation of specific or custom Namespace definition
- ▶ During product development or system engineering

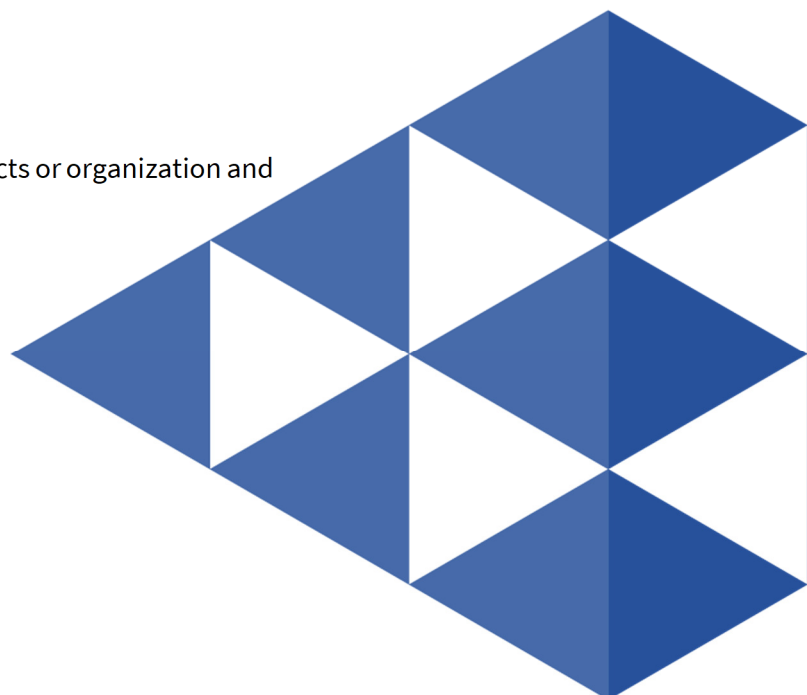
Testing & Troubleshooting

We offer testing and investigation of IEC 61850 based systems in order to verify and assess correctness of:

- ▶ Network design and performance
- ▶ Network redundancy and synchronization
- ▶ SCL Engineering
- ▶ MMS/GOOSE/SV communication

Consulting

We can support you to deploy IEC 61850 in your projects or organization and get the most benefits from it.



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