# SIMFLEX™ IEC 61850

# SCL Checker

## Release notes version 3.1.0

GRIDCLONE

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The SCL checker is a tool that checks SCL file conformity to the IEC 61850 SCL schema and performs specific logical tests on the SCL file content. It clearly shows error location within SCL file. Process of verification and correction within file of more than 10 000 lines can be quite time consuming. The SimFlex™ SCL Checker enables automatic verification of SCL files to Utilities, Manufacturers, System integrators and Conformance test laboratories. The SimFlex™ SCL Checker comes with an extensive Test Suite that implements always up to date IEC 61850 conformance test cases that can be individually selected and executed.
The SCL Checker performs the tests automatically in a matter of seconds that could normally take hours of manual labor.

**This makes the SimFlex™ SCL Checker an excellent software solution for the Power Utility industry and supporting domains.**

## What's New

SimFlex SCL Checker Edition 2
New Release is 3.1.0.26203
Release Date: May 2019

**New Features:**

- Official **NSD files** (namespace definition) incorporated (Core parts 7-2, 7-3, 7-4, 8-1)
- Built on latest official IEC 61850-6 SCL schema V2007B related to Edition 2 of the Standard
- 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
    - **44 new** file Configuration test cases
    - Configuration file tests are divided into SCL: Header, Substation, Communication, IED, IED Services, DataTypeTemplate and Common IED and DataTypeTemplate sections
    - **2 new and 13 improved** Data Modeling test cases
- Minor bug fixes of existing test cases

**Tool Features:**

- Verifies that the SCL files are well-formed and according to the IEC 61850-6 schema
- Compares SCL contents and exposed data and services in the IEDs
- Logging of test progress and test results in human-readable text format
- Verifies the presence and order of data according the IEC 61850-7-3 and 7-4
- Graphical view of the SCL file and the IED data model
- Automatic and repetitive verification of SCL files
- Fast localization of SCL errors