






## How to test substation automation systems with StationScout



 2 hours

 English

 Wpuc03en

Get a concise overview of how to test substation automation systems (SAS) based on IEC 61850 with StationScout. Learn about the possibilities of IEC 61850 and StationScout to reduce SAS testing efforts, shorten commissioning time and improve the quality of the systems. Become familiar with how to use modern test tools in case of the extension of existing substations and step-by-step commissioning during refurbishment of the secondary systems.

### Objectives

- > Understanding how IEC 61850 can support the testing of substation automation systems
- > Getting to know the main aspects of IEC 61850 communication and data model
- > Learning about SCL aspects of IEC 61850
- > Selecting the right testing tools and procedures

### Content

- > Get an overview about the communication services and the IED's data models in the SAS
- > Supervision and fault detection including GOOSE verification
- > On-Line tracing of process signals
- > Testing the SCADA signalling and Interlocking logics by simulation of IEDs
- > Definition and use of Systematic test plans and test Reports

### Solutions

StationScout  
IEDScout

### Audience

Control and protection engineers  
from electric utilities or companies  
who utilize IEC 61850  
communication or plan to use it

### Prerequisites

Knowledge of substation  
automaton systems and  
IEC 61850