

Testing in IEC 61850 Environments – basics on standard and available testing methods

Solutions: CMC-Family, ISIO

Summary: Get a thorough introduction to the IEC 61850 standard in a combination of theoretical and hands-

on sessions. Get familiar with the IEC 61850 implementation in IEDs from different

manufacturers. Learn how to efficiently test IEC 61850 substations with the CMC test system,

IEDScout and SVScout.

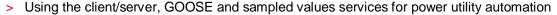
Prerequisites: Basic knowledge of electrical engineering

Duration: 2 days Language: English Code: C.0055.AAC



Objectives

> Designing and analyzing IEC 61850 based communication systems

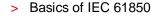


> Configuring the communication according to the IEC 61850-6 standard

> Performing commissioning and functional testing of IEC 61850 based IEDs and systems

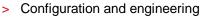


Content



> Data models and services

> Specific communication mappings



> Basic aspects for designing communication networks

> Client/server communication for SCADA applications

> GOOSE analyses and applications

> Sampled Values basics

> Engineering of an IEC 61850 application

> Hands-on testing of IEC 61850 IEDs and systems



Solutions



> IEDScout, SVScout, GOOSE Configuration module, Sampled Values Configuration module, IEC 61850 Client/Server

> ISIO 200

> CMC test sets with Ethernet adapter



Audience

Technical staff from electric utilities or companies involved in project planning, commissioning or maintenance of IEC 61850 systems