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Type:

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Title:

**Test strategy for Protection, Automation and Control (PAC) functions in a fully digital substation based on IEC 61850 applications**

## Abstracts

The wide spread development and implementation of IEC 61850 based Substation Protection, Automation and Control Systems (SPACS) using predominantly GOOSE messages and client/server communications has raised the awareness of the industry regarding the benefits of communications based systems. At the same time, the last years have seen a significant change in the availability of stand-alone and embedded Non-Conventional Instrument Transformers (NCIT) with IEC 61850 sampled values interfaces.

For this reason, the testing of fully digital functional chains has become an important issue with the deployment of IEC 61850-based substations using Stand Alone Merging Units (SAMU), and/or NCIT and featuring both station bus (IEC 61850-8-1) and process bus (IEC 61850-9-2).

This Brochure covers all test related aspects of a fully digital SPACS and equipment, including NCIT/SAMU Certification tests, SPACS level interoperability tests, factory acceptance tests, commissioning and site acceptance tests and maintenance tests after commissioning.

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More Informations :

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