

Press release

StationScout & MBX1

Efficient testing of Substation Automation Systems

Testing the automation, control, and SCADA communication in an IEC 61850 substation automation system (SAS) is as time consuming as testing the protection – or often even more. StationScout simplifies the testing and reduces the required effort significantly. Running on the new digital substation test set MBX1, StationScout visualizes and analyzes the communication in an SAS in an unprecedented way. The topology is determined from the engineering data in SCL (Substation Configuration Language) and displayed intuitively for the SCADA engineer. StationScout supports designers and testing engineers throughout the entire life cycle of a IEC 61850-based SAS with a combination of simulation and testing functions.

With StationScout and MBX1, a cyber secure connection to the substation network can be established, mighty IED simulations can be performed. The intuitive software visualizes communication in the SAS, delivering the characteristics of an IED. When connected to the substation network, the values within an IED's data model as well as the connected assets can be seen and signals traced.

StationScout allows for simple, fast and cost-saving SCADA testing, using two methods: First, all alerts, switchgear status signals and measurement values are produced by simulating the IEDs. The engineer only needs to verify if the HMI and SCADA display the signals correctly. Second, StationScout simulates the client to verify and record if the real relays send the correct alerts and status signals.

IEC 61850, the established standard for communication in substations and power utility automation systems, has become the international core standard for smart grids and lays down the prerequisites for a future-proof design and the frictionless interoperability of products from different manufacturers.

OMICRON offers protection and control engineers a set of advanced solutions for testing in IEC 61850 environments. The individual tools complement one another and cover a wide range of requirements.

Images



Efficient testing of Substation Automation Systems with StationScout & MBX1

Company profile

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 150 countries rely on the company's ability to supply leading edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

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