

2 Toshiba's State-of-the-Art Line Differential Relay – Now with IEC 61850

Toshiba continues the roll-out of its IEC 61850 product range, with its world-beating current differential protection GRL100 now supporting the global standard for substation communications. GRL100 follows the GRZ100 distance protection, GRT100 transformer protection and GBU100 bay controller, all of which have been certified IEC 61850 compliant by KEMA. Toshiba's GRL100 is an advanced line differential protection relay which combines sub-cycle performance with a range of enhancements such as integrated distance protection, GPS synchronisation with sophisticated back-up modes, multi-phase reclosing for double-circuit lines and IEC 61850 capabilities.



3 2007 Karapetoff Award

Outstanding Technical Achievement

The 2007 Vladimir Karapetoff Award was given to Stanley H. Horowitz, Consultant and Arun G. Phadke of Virginia Tech on March 19, 2008 at Hyatt Regency at Penn's Landing, Philadelphia, PA. The award is given for their technical contributions to the field of power system protection and control. This major HKN recognition for career accomplishment in the field of electrical and computer engineering dates

from 1922, when the Board of Governors established the award in honor of Vladimir Karapetoff, an IEEE Fellow and a prominent member of Eta Kappa Nu. The award is given annually to an electrical practitioner who is distinguished himself/herself through an invention, a development, or a discovery in the field of electro technology. Factors that are considered in bestowing the award include the impact and the scope of applicability



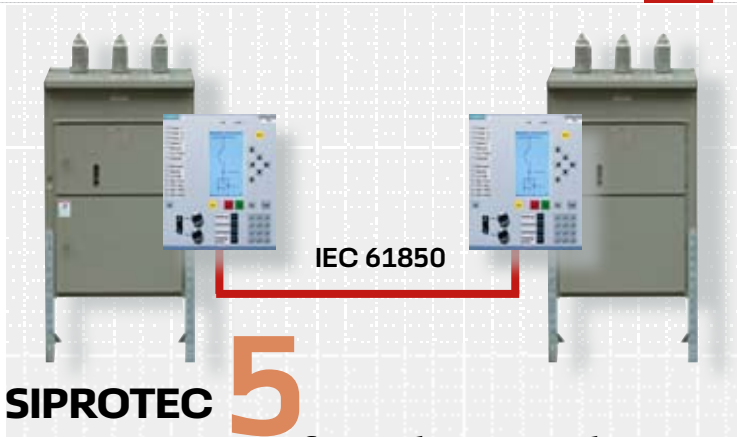
Stanley H. Horowitz

of the invention, development, or discovery; its impact on the public welfare and standard of living, and/or global stability; and the effective lifetime of its impact.

4 GE Digital Energy's breakthrough in networking



GE Digital Energy unveils a breakthrough in networking hardware that can reduce up to 70% of your total communications costs with the introduction of their new Multilin UR Switch Module. A fully managed, embedded Ethernet switch for their flagship Universal Relay (UR), this advanced, 6-port Ethernet Switch eliminates the need for external, rack-mounted switches. More importantly, it significantly reduces the total costs associated with hardware, installation, wiring, and troubleshooting required for today's traditional substation communication architectures. The Multilin UR Switch Module delivers full station management, monitoring, and control functionality with complete communications redundancy.



SIPROTEC 5 Fast Bus Transfer scheme solution

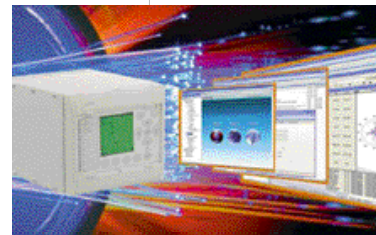
Applications of Siemens SIPROTEC Relays have revolutionized the transfer scheme designs. Using only two basic feeder protection relays Siemens can realize for example a Fast Motor Bus Transfer Scheme per ANSI C50.41-2000. Motor Bus systems are critical loads which can not endure long separations from the power supply. In both industrial and utility power plant applications, the consequences of an unplanned motor bus outage can be costly, time consuming and dangerous. The load must be transferred to a redundant source. The speed

of this transfer is critical for the stress of the electrical system, the continuity of plant operations and the protection of the motors. The High-Speed Motor Bus Transfer Scheme is capable of providing both close and open transition transfers. Transfer schemes are realized for most applications per customer specifications. The whole system is delivered fully programmed, tested and ready for installation. Optionally incorporating IEC61850 communications makes implementation fast, secure and cost-effective.

6 New Configuration and Monitoring Tool

AREVA T&D Automation launched MiCOM S1 Studio – a new integrated IED configuration and monitoring tool that will make users' life easier by providing an intuitive and versatile interface with built-in file management facilities and IEC 61850 support.

The MiCOM S1 Studio interface was designed with simplicity and customization in mind. It has a panel-based interface where elements are resizable, dockable, movable and removable. The software remembers your layout when you exit, so that the next time when you use it, you start where you finished. MiCOM S1 Studio has been developed with the various needs of different users in mind - protection and commissioning engineers or system integrator, who want to configure devices offline in the office or work online communicating directly with devices in the substation.



7 IEC 61850 Tool

A new version of the IED Scout !

OMICRON electronics released a new version of the IED Scout - an IEC 61850 tool that can be used both in the laboratory or in the field for testing, troubleshooting, commissioning and IED development.

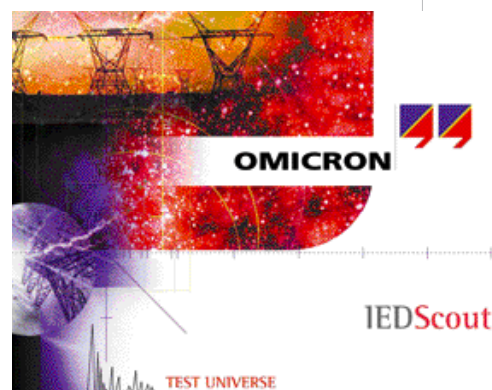
IED Scout allows the user to perform different tasks, such as :

- extract the data model from an IED
- check the extracted IED data model
- create an SCL file

- subscribe and monitor GOOSE messages
- poll data
- receive reports

In addition to the existing capabilities, the new version supports:

- GOOSE Sniffer (capturing GOOSE messages online on the network)
- Drag & Drop / Copy & Paste of discovered GOOSE information to the GOOSE Configuration Module
- Improved user interface



A free demo version with some restricted functionality is available at:

<http://www.omicron.at/en/products/substation/iec-61850/iedscout/>

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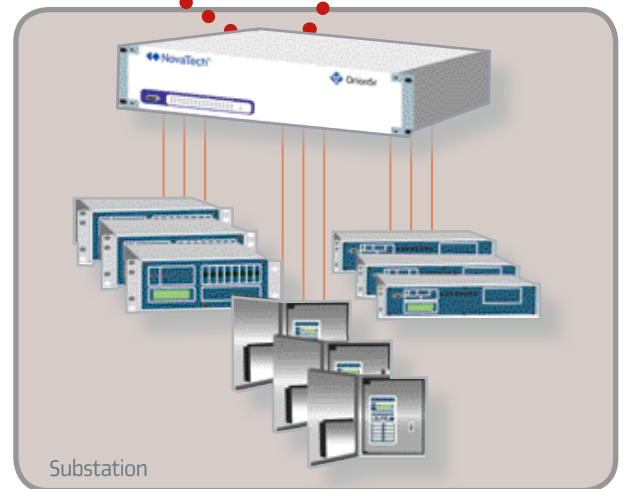
Non-Operational
Data Access

Accessing breaker wear, fault records and oscillography from relays is now easier through the use of a set of software tools for the Orion Automation Platform. NovaTech's Orion Software Suite includes tools to:

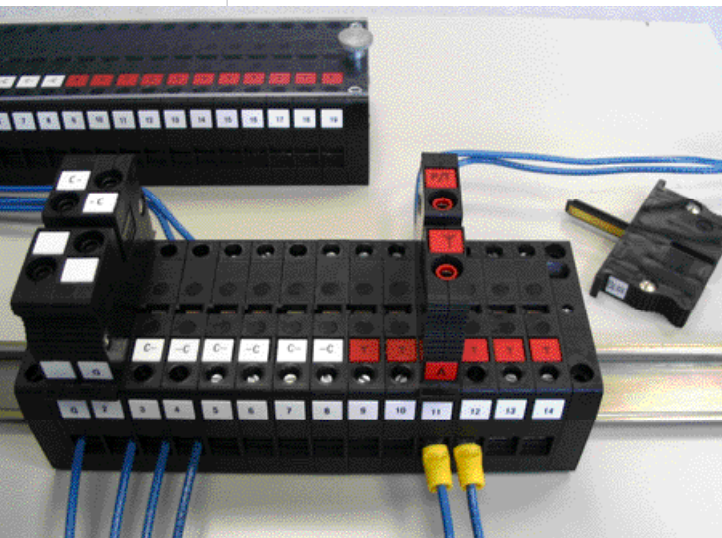
- Access relays remotely, through Orion
- Make Breaker Wear, History and Short Event Summaries available to SCADA
- Automatically retrieve, parse and disseminate Full-Length Event Report to enterprise PCs
- Display relay data on pre-formatted web pages served from Orion.

Traditional automation function, such as accessing SCADA data, retrieving time stamps and sending down IRIG-B, are also supported in the Software Suite.

For more information, please visit our site.



9 Terminal Block and Switch – All In One



SecuControl, Inc. is known for their testblock / testplug system ITS.

Now, the company from Alexandria, VA offers a new terminal block with an integrated test access point called Secu Access.

Secu Access (SAX) is built for relay testing, meter testing and CT current measurement. It can be mounted on

DIN-rail or with screws, making it exceptionally versatile.

Secu Access performs both functions of a terminal block and switch, and therefore reduces wiring and panel space needs.

The terminal block/switch has a modular buildup and attaches to many wire terminal types (ring/spade/solid wire). Testing is easily

done by inserting a testplug into the access point. Just like the Interface Test System, SAX features a finger-safe front and keyed entry system. Current shorting testplugs provide additional user safety.

With an internal resistance of only ca. 2mΩ, SAX is an ideal solution for the use with highly sensitive microprocessor relays.