Taking substation automation to the next level

As the fourth generation of SMP™ gateway, Eaton's Cooper Power™ series SG-4250 leverages more than 20 years of hardware and software development, and delivers one of the most advanced substation automation solutions on the market. Flexible, scalable, evolutive, the SMP SG-4250 is a Smart Grid enabler.

Over the last decade, the Substation Modernization Platform™ (SMP™) Gateway has been recognized as one of the most efficient and reliable substation gateways on the market. It has been used successfully in thousands of substations to perform data acquisition and distribution, protocol translation and to provide secure remote access to substation intelligent electronic devices (IEDs).

Simplify SCADA operational activities

- Create a homogenous system with a single entry point for each substation
- Access IED data with more than 80 protocols supported
- Integrate the latest IEC 61850 IEDs with legacy RTUs, IEDs and PLCs
- Manage alarms, visualize data and control substation devices directly from the new SMP Gateway local or remote interface

- Access substation single-line diagrams directly from a touch screen monitor or remotely using a web browser
- Manage network segments— up to ten Ethernet ports with multi-homing and VLAN tag support
- Reduce overall network band-width usage
- Synchronize IEDs using IRIG-B and PTP—IEEE Std 1588™-2008 standard

Add intelligent controls to your substation equipment

- Extend the capabilities of legacy devices with high-level functions such as binary debouncing and grouped controls
- Create sophisticated automation scripts, such as automatic load and feeder management, using the built-in IEC 61131-5 compliant Soft PLC engineer

Access non-operational data securely

- Passthrough to any IED
- Extract data for planning, maintenance, engineering, and fault analysis
- Use the SMP Gateway as a local repository for event/DFR files

Strengthen Cyber-Security

- Create a NERC CIP-compliant electronic perimeter to protect substation devices
- Secure SCADA protocols using TLS and X.509 certificates as per IEC 62351-3
- Implement DNP3 Secure Authentication V5 as per IEC 62351-5
- Protect your system with a built-in firewall and integrity check

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Powering Business Worldwide

Provides data acquisition and distribution, protocol translation, and secure remote access to substation IEDs

The SMP SG-4250 is the most robust SMP Gateway platform available
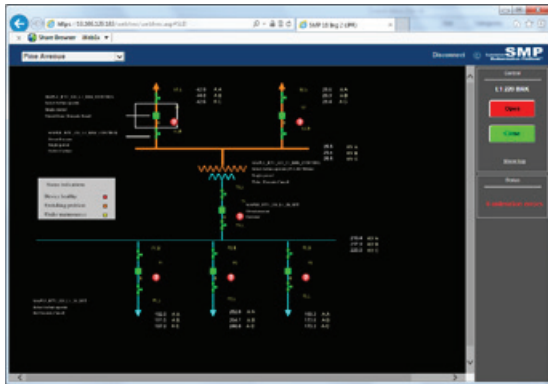
- Meet all IEEE® and IEC requirements for substation-grade equipment
- Provide high data availability with built-in redundancy schemes
- Wurldtech's Achilles® Communications Level 1 certified
- NESSUS tested
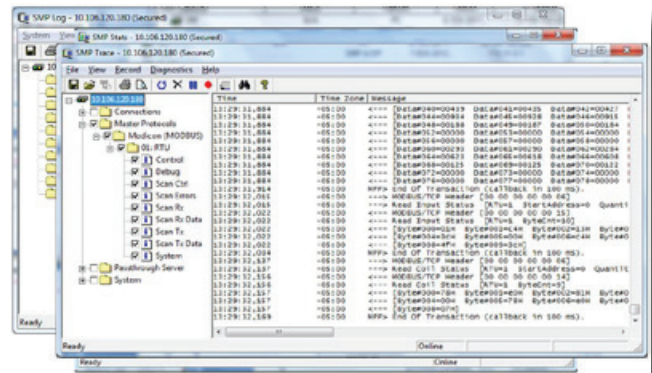
A system designed with efficiency in mind

- Template driven configuration tool and import/export capabilities
- Extensive commissioning and debugging tools—including a protocol analyzer
- Secure remote maintenance
- High performance system for the most demanding automation projects
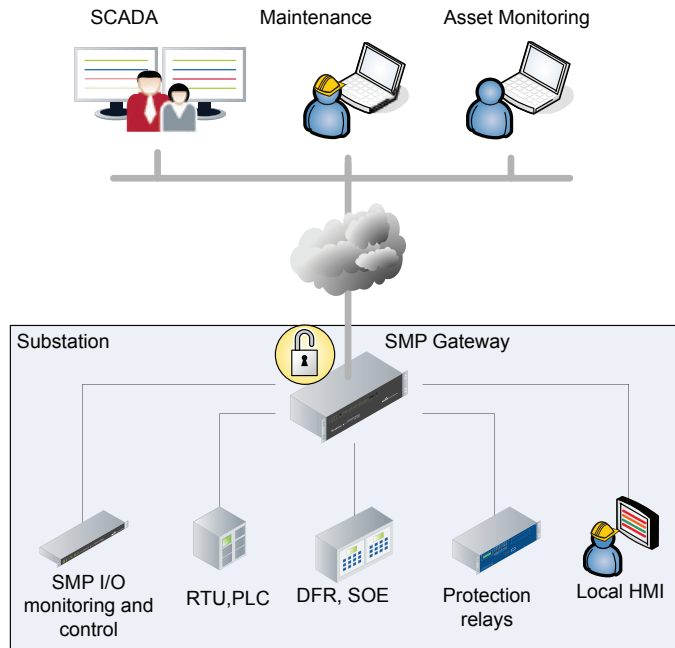
A complete substation automation solution

- Upgrade your substation and keep your legacy device
- Reduce substation downtime
- Improve network reliability
- Reduce total cost of ownership
- Leverage the SMP SG-4250 gateway capabilities and also use it as a substation HMI

Local and remote single-line diagram capabilities.

Embedded protocol analyzer.

SCADA Maintenance Asset Monitoring

Substation SMP Gateway

SMP I/O monitoring and control   RTU,PLC   DFR, SOE   Protection relays   Local HMI

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For Eaton's Cooper Power series product information, call **1-877-277-4636** or visit: **Eaton.com/cooperpowerseries**