Course: SMP Gateway Quick-Start Web-Based Training
P-TTRN-1101-00 and P-TTRN-1102-00

Duration: Basic Functions, 3 hours
Advanced Functions, 2 hours

Overview:

Participants are introduced to the technical and functional capabilities of the SMP Gateway and will how to install, configure, commission, maintain and troubleshoot SMP Gateway applications. Detailed instructor-led examples, centered on relevant application problems, ensure that all participants become fully familiar with the complete suite of SMP Tools.

Recommended Audience:

The course is intended for engineers and technicians involved in the process of specifying, selecting, installing, configuring, maintaining or operating substation automation and control systems.

Prerequisites:

Participants should have an SMP Gateway to follow along as the instructor uses the SMP Tools to setup the SMP Gateway.

Participants should have a basic knowledge of serial and Ethernet communications technologies as used in automation systems. Moreover, they should have a basic understanding of control system architecture, and the communication protocols that are relevant to their projects.

Objectives:

At the end of a full course, participants will be able to:

- Configure a gateway to poll RTUs and IEDs, using serial and Ethernet links, using different protocols
- Configure a gateway to distribute data to one or more control centers, using serial and Ethernet links, using different protocols
- Set up and use passthrough connections for remote configuration, maintenance and monitoring of IEDs
- Configure and use selected SMP Gateway advanced functions: security, redundancy, time synchronization, and modem support
- Install and update SMP Gateway firmware and software

Contents:

Basic Functions:

- Introduction to the role of the SMP Gateway in an integration and automation system
- Overview of SMP Gateway functions and capabilities
- SMP Gateway models, hardware and software options
- Connecting an SMP Gateway to the network
- Master/Slave architecture
- Device protocols
- Setting up a master protocol to poll a device
- Setting up a serial or network communication link to a device
- Creating and using configuration templates for common devices
- Control center protocols
- Setting up a slave protocol to connect to SCADA
- Setting up a serial or network communication link to SCADA
- Using SMP Tools for commissioning, maintenance and troubleshooting
- Using a web browser to view real-time data and system logs and statistics
- Updating firmware and software versions
- Troubleshooting

Advanced functions:

- Setting up and using automation functions
- The commissioning tool
- Control functions
- Setting up and using passthrough connections

Conditions:

- Classes are presented as a web-based seminar given by a live instructor.
- Basic Functions training is organized as 3 consecutive periods of 50 minutes with a 10 minute break every hour.
- Advanced Functions training is organized as 2 consecutive periods of 50 minutes with a 10 minute break every hour.
- Each participant will receive access to a downloadable version of the exercise material and a PDF version of the training notes.

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