S432
S+ SD series controller communication with IEC-60870-5-104, DNP3, Modbus TCP

The goal of this course is to learn the basic configuration of SD series controllers communication with IEC60870-104, DNP3 and Modbus TCP.

Learning objectives
Upon completion of this course, the participants will be able to:
- Get the knowledge of IEC 60870-5-104, DNP3, Modbus TCP standards
- Describe the different architectures followed for each protocol
- Describe the features supported when each hardware is configured as Master/Slave
- Configure parameters for SCI200 & SPC700 module for Master/Slave configuration
- Configure SCI200 as IEC60870-5-104 Master and DNP3 Master
- Configure SPC700 as Modbus TCP Master
- Configure SCI200 and SPC700 module for IEC60870-5-104 and Modbus TCP Slave configuration
- Do the hardware and software integration
- Backup and restore domain controllers
- Identify hardware problem from LED indications
- Firmware upgradation procedures

Prerequisites
Students should have attended the following courses:
- S311 (SD series-Hardware Configuration)
- S312 (Symphony Plus Engineering for Harmony)

Topics
- Course overview
- Hardware and software requirements
- IEC60870-5-104 communication protocol
- Modbus TCP communication protocol
- DNP3 communication protocol
- Backup, Backup upgrade, Delete and Restore
- Diagnostics and troubleshooting
- Firmware upgradation

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 30% of the course is hands-on lab activities.

Participant profile
This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

Duration
The duration is 3 days.
### Course outline

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