



Modbus to IEC 60870-5-101Protocol Converter (SYNC 2000)

Case Study

CLIENT NAME	:	Fortune 100 Automation Major

PROJECT TITLE : Modbus to IEC 60870-5-101 Protocol Converter (SYNC 2000)

BUSINESS CASE

The client, a Major OEM in the RTU and SCADA space, required to provide Modbus interface to a 3rd Party Controller from its system, which supported IEC 60870-5-101 Slave Protocol. SYNC 2000 (S6R1) Protocol converter, with IEC 60870-5-101 Master and Modbus Slave Protocol was used to achieve this interconnection.

SOLUTION

The stated solution consisted of the following:

- 1. SYNC 2000 Protocol Converter with 2 RS-232, 1 RS-485 and 1 Ethernet port
- 2. OEM SCADA Software
- 3. Modbus RTU from the OEM
- 4. IEC 60870-5-101 Master and Modbus Slave Protocol

The stated OEM SCADA was connected to the SYNC 2000 protocol converter over IEC 60870-5-101 protocol. The controller from the 3rd Party was connected to SYNC 2000 over Modbus protocol.

TOOLS USED

- Microsoft C Compiler
- Embedded Processor Development and Debugging Environment
- Test Harness IEC 60870-5-101 Test Simulator
- VC++ based Configuration Utility