

Solutions for Communication Protocol Development

DNP3	IEC 61850:
Modbus	7-410 (Hydro)
IEC 60870-5	7-420 (DER)
IEC 61400-25 (Wind)	9-1 (GOOSE)
IEC 60870-6 (TASE.2/ICCP)	9-2 (Sampled Values)

Support Industry Standard Communication Protocols in Your Device

- ▲ **Software Libraries**
 - ANSI Standard C
 - .NET Protocol Components
- ▲ **IEC 61850 Server Front End Toolkit**

Troubleshoot, Test, and Configure Devices

- ▲ **Communication Protocol Test Harness**
 - Test tool for DNP3, IEC 60870-5, Modbus
- ▲ **IEC 61850 Test Suite**
 - Hammer - Test IEC 61850 & 60870-6 Servers; validate GOOSE, Report, Log, Control, & File Services
 - Anvil - Test IEC 61850 & 60870-6 Clients; provide GOOSE, Report, Log, Control, & File Services; generate simulation data automatically, manually, or table driven
 - SCL Forge - Substation Configuration Language (SCL) & DNP3 XML Device Profile Editor for Devices

Learn Communication Protocols

- ▲ **Cost-effective, self-paced, web-based training**
 - DNP3
 - IEC 61850

Interface with Industry Standard Communication Protocols

- ▲ **SCADA Data Gateway**
(OPC Client/Server, Protocol Translation, & Data Concentrator)



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See our website, www.TriangleMicroWorks.com, for free communication protocol training videos, evaluation versions of our software, and free tools. For example, the SCL Forge will continue to map DNP3 points to the 61850 Object Model after the eval period has expired.

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