

Communication Protocol Development Tools



Triangle MicroWorks offers proven solutions for your communication protocol development needs. Our products fall into the following three categories:

▲ **ANSI Standard C Source Code Libraries** for DNP3, IEC 60870-5 (-101, -102, -103, and -104), and Modbus are used by equipment vendors to cost-effectively implement these protocols directly in the target hardware.

▲ Our **Communication Protocol Test Harness** is a Windows application that acts like a typical master or slave device. It can be configured through a graphical user interface and Tcl/Tk scripts to provide automated testing or simulation of your device. Additional instrumentation such as voltage or current generators can be controlled to automatically establish a test condition and confirm the expected results through the communication protocol. Example scripts are included. We also offer Tcl/Tk scripts to perform the conformance test procedures published by the technical committees of each protocol.

▲ The **SCADA Data Gateway** is a Windows application that is used by System Integrators and Utilities as an OPC Client/Server, Data Concentrator, and Protocol Translator. In addition to the above mentioned protocols, it supports OPC Data Access and OPC Alarm & Events for interfacing with Windows PC-based SCADA Systems (such as Iconics *GENESIS32™*, Wonderware *InTouch™*, and Intellution *iFIX™*) or Microsoft *Visual Basic™*.

A full **21-day evaluation** version of the Communication Protocol Test Harness and SCADA Data Gateway are available for download from our web site at www.TriangleMicroWorks.com/downloads.htm.

Please contact us for more information, or visit our web site to learn more about DNP3, IEC 60870-5, and Modbus. We are your communication protocol experts!



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Please visit us in Booth 1610 at the DistribuTECH 2004 Conference in Orlando, Florida from January 20th through 22nd.